

# **Tuberculosis surveillance** and monitoring in Europe

2019

2017 data

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#### Abstract

With just over 280 000 tuberculosis (TB) cases reported in 2017, TB remains a major public health problem in the WHO European Region, including the countries of the European Union/European Economic Area (EU/EEA). This report provides an overview of the latest TB epidemiological situation and is published jointly by the WHO Regional Office for Europe and the European Centre for Disease Prevention and Control (ECDC). It finds that epidemic patterns and trends vary widely, with the EU/EEA approaching the low incidence level of 10 per 100 000 population while the Region has nine out of 30 countries

with the highest multidrug-resistant TB burden in the world. Overall, TB mortality and incidence rates have fallen. Despite the notable progress achieved in the fight against TB, countries still face a variety of challenges in reaching the goal to end the TB epidemic in the Region.

#### Keywords

TUBERCULOSIS - EPIDEMIOLOGY

TB - EPIDEMIOLOGY

TB SURVEILLANCE

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# **Abbreviations**

AFB acid-fast bacilli
ART antiretroviral therapy

CISID Centralized Information System for Infectious Diseases

DRS drug-resistance surveillance
DST drug-susceptibility testing

**ECDC** European Centre for Disease Prevention and Control

EEA European Economic Area
EQA external quality assessment

**EU** European Union

**EU/EEA** European Union/European Economic Area

HIV human immunodeficiency virus

HPCs high-priority countries (Armenia, Azerbaijan, Belarus, Bulgaria, Estonia,

Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, the Republic of Moldova, Romania, the Russian Federation, Tajikistan, Turkey, Turkmenistan, Ukraine

and Uzbekistan)

MDR multidrug resistance

MDR-TBmultidrug-resistant tuberculosisRR-TBrifampicin-resistant tuberculosis

RR/MDR-TB rifampicin-resistant and multidrug-resistant tuberculosis

TB tuberculosis

**TESSy** The European Surveillance System

TME WHO Tuberculosis Monitoring and Evaluation platform

TOM treatment outcome monitoring

WRD WHO-recommended rapid diagnostics

**XDR** extensive drug resistance

**XDR-TB** extensively drug-resistant tuberculosis



# **Executive summary**

#### The WHO European Region

Despite the notable progress achieved in the fight against tuberculosis (TB) in the WHO European Region and the subsequent consistent decline in incidence, TB still poses a public health threat in most countries and areas within the Region and should not be underestimated.

#### TB burden

The year 2017 saw another decrease in TB epidemics, with 275 000 incident TB cases (238 000–314 000) estimated in the WHO European Region, corresponding to 30 cases (26–34) per 100 000 population. The average annual decline in the TB incidence rate was 4.7% during the period 2008–2017 and between 2013 and 2017, which is the fastest decline among all WHO regions, but still not enough to achieve the End TB Strategy milestones.

There were an estimated 24 000 TB deaths in 2017 among human immunodeficiency virus (HIV)-negative people in the European Region, an almost 60% decrease since 2008 and equivalent to 2.6 deaths per 100 000 population (range 2.5–2.7). With a decline of 10.2% on average per year during the last five years, this rate is notably higher than the global average (3% between 2013–2017).

In 2017, there were an estimated 77 000 cases of rifampicinresistant and multidrug-resistant TB (RR/MDR-TB) among notified pulmonary cases in the Region. This represents about 23% of the 330 000 global RR/MDR-TB burden in the same cohort. The proportion of RR/MDR-TB among new and previously treated TB cases in the Region also exceeds the global average significantly, with 17% in new and 53% in previously treated cases compared to 3.5% and 18% respectively.

HIV prevalence in incident TB cases was estimated to be 12% in 2017, marking the first year of halted growth after an unprecedented increase from 3% to 12% during 2007–2016. There were 34 000 HIV-positive TB cases estimated in the Region, with the Russian Federation (55%) and Ukraine (24%) contributing to the highest burden of coinfection.

#### TB disease notification and treatment outcomes

Overall, a 21% decrease was observed in the notification rates of new TB cases and relapses during 2013–2017 (incident TB cases), from 32.9 to 25.9 cases per 100 000 population. In 2017, 238 819 incident TB cases were notified, amounting to 88% of the estimated new and relapse cases in the Region.

The percentage of newly notified TB patients tested using WHO-recommended rapid diagnostic tests increased from 21.6% in 2015 to 50.9% in 2017, overachieving the target

of 30% in the Tuberculosis action plan for the WHO European Region 2016–2020.

A total of 199 129 (83%) pulmonary cases were notified among incident TB cases, of which 65% were laboratory confirmed, marking another year of increase in laboratory confirmation of TB diagnosis, starting with 57.1% in 2013.

Among bacteriologically confirmed pulmonary TB cases, 81% were tested for first-line drug susceptibility (DST), a decreased ratio compared to the previous year (85.6% in 2016).

Overall, 27.9% of pulmonary TB cases tested for drug susceptibility had MDR-TB. Prevalence of MDR-TB among new and previously treated bacteriologically confirmed pulmonary TB cases was 18.1% and 47.9% respectively, in line with the trend observed during the last five years.

Extensively drug-resistant TB (XDR-TB) shows an increasing trend, with 91.3% second-line DST coverage; 18.6% of pulmonary MDR-TB cases had XDR-TB in 2017. In absolute numbers, XDR-TB cases among pulmonary TB cases increased from 575 in 2013 to 5591 in 2017.

Of the new and relapse TB patients notified from countries and areas reporting HIV testing data, 91.4% were screened for HIV. A total of 25 153 TB cases were detected with HIV-positive status, which is 12.8% of those tested, a slight decrease compared to last year (13.4% in 2016) and in line with the tendency observed in coinfection estimations.

A total of 16 754 (66.6%) of HIV-positive cases are reported to have received antiretroviral therapy (ART). ART coverage showed an increasing trend over the last five years but is still far below the WHO target of universal ART coverage for TB/HIV coinfected patients.

Despite universal treatment coverage for TB and RR/MDR-TB patients, the treatment success rate in the Region remains below the 85% and 75% regional targets respectively. Comparing data collected in 2016 to 2018, however, a slow but sustainable increase is documented in both incident TB and RR/MDR-TB cohorts, from 75.8% to 77.2% and 48.7% to 57.2% respectively.

# **European Union and European Economic Area countries**

#### **Epidemiology**

In 2017, 55 337 cases of TB were reported in the 31 European Union and European Economic Area (EU/EEA) countries, resulting in a notification rate of 10.7 per 100 000 population in the EU/EEA. The overall notification rate and the rate in most countries has been decreasing over the last five years.

Of all notified TB cases, 39 903 (72.1%) were newly diagnosed and 37 700 (68.1%) were confirmed by culture, or smear and nucleic acid amplification test. Overall, adult age groups had a higher new and relapse TB notification rate than children under 15 years. Children under 15 years accounted for 4.4% of all new and relapse TB cases, corresponding to a notification rate of 2.9 per 100 000 population. The highest rates among 0–4-year-olds were noted in Bulgaria and Romania. For every female new and relapsed case of TB in the EU/EEA, almost two male new and relapsed cases were reported. Thirty-three per cent of all TB cases reported in the EU/EEA were of foreign origin, but 20% or less of TB cases from countries with TB notification rates higher than 10 per 100 000 population were reported as being of foreign origin.

MDR-TB was reported for 1041 (3.8%) of 27 339 cases with the relevant DST results and continues to be highest (more than 10%) in the three Baltic States. XDR-TB was reported for 24.3% of 770 MDR-TB cases tested for second-line drug susceptibility. After remaining at 0.3 per 100 000 population from 2013 to 2016, the rate of notified MDR-TB cases decreased to 0.2 in 2017. During the same period, the

proportion of resistance to second-line anti-TB drugs increased among pulmonary MDR-TB cases. It should be noted, however, that in excess of 45% of these pulmonary XDR-TB cases were reported from Lithuania and Romania in those years.

Although the number of countries reporting data on HIV coinfection increased from 2016 to 2017, the data remain incomplete. Of all TB cases with reported HIV status, 3.9% were coinfected with the virus.

TB in prisons remains poorly reported. For the 15 EU/EEA countries reporting data, the notification rate amounted to 155 new and relapse TB cases per 100 000 inmates, that is, a relative risk of 11.4 compared to the general population in the same countries.

#### **Treatment monitoring**

Of all 54 612 TB cases notified in 2016 with a treatment outcome reported in 2017, 70.7% were treated successfully and 7.3% died. Of 1217 MDR-TB cases notified in 2015 with a treatment outcome reported in 2017, 44.8% were treated successfully and 16.2% died.

#### Резюме

#### Европейский регион ВОЗ

Несмотря на заметные успехи, достигнутые в борьбе с туберкулезом (ТБ) в Европейском регионе ВОЗ, и последовавшую за этим стабильную тенденцию к снижению заболеваемости, туберкулез по-прежнему представляет угрозу для общественного здоровья в большинстве стран Региона и эту угрозу не следует недооценивать.

#### Бремя туберкулеза

В 2017 г. произошло дальнейшее сокращение эпидемии туберкулеза, когда расчетное число новых случаев и рецидивов туберкулеза в Европейском регионе ВОЗ составило 275 000 (238 000 -314 000), что соответствует 30 случаям (26-34) на 100 000 населения. Среднегодовое снижение заболеваемости туберкулезом составило 4,7% за период с 2008 по 2017 гг. и с 2013 по 2017 гг., - это самые быстрые темпы снижения среди всех регионов ВОЗ, однако они еще недостаточны для достижения основных целевых ориентиров стратегии по ликвидации туберкулеза.

По оценкам, в 2017 г. в Европейском регионе произошло 24 000 случаев смерти от туберкулеза среди людей, не инфицированных вирусом иммунодефицита человека (ВИЧ), что почти на 60% меньше по сравнению с 2008 г. и эквивалентно показателю 2,6 случаев смерти на 100 000 населения (диапазон 2,5 - 2,7). При снижении в среднем на 10,2% в год за последнее пятилетие этот показатель заметно превышает среднемировой (3% за период с 2013 по 2017 гг.).

Согласно расчетным данным, в 2017 г. среди больных туберкулезом легких в Регионе было зарегистрировано 77 ооо случаев туберкулеза с устойчивостью к рифампицину и с множественной лекарственной устойчивостью (РР/МЛУ-ТБ) возбудителя, что составляет около 23% от 330 ооо глобального бремени РР/МЛУ-ТБ в той же когорте. Доля случаев РР/МЛУ-ТБ среди новых и ранее леченных случаев туберкулеза в Регионе также значительно превышает среднемировой показатель 17% среди новых и 53% среди ранее леченных случаев по сравнению с 3,5% и 18%, соответственно.

В 2017 г. расчетная распространенность ВИЧ-инфекции среди новых случаев и рецидивов туберкулеза составила 12%, ознаменовав первый год приостановления роста показателя после беспрецедентного увеличения с 3% до 12% в 2007-2016 гг. По оценкам, число ВИЧ-положительных случаев туберкулеза в Регионе составило 34 000, причем наибольшее бремя сочетанной инфекции приходилось на Российскую Федерацию (55%) и Украину (24%).

# Регистрация случаев туберкулеза и результаты лечения

В целом, в 2013-2017 гг. показатели регистрации новых случаев и рецидивов туберкулеза сократились на 21% - с 32,9 до 25,9 случаев на 100 000 населения. В 2017 г. было зарегистрировано 238 819 новых случаев и рецидивов туберкулеза, что составляет 88% от расчетного числа этих случаев в Регионе.

Доля впервые зарегистрированных случаев туберкулеза, прошедших тестирование с использованием рекомендованных ВОЗ быстрых диагностических тестов, увеличилась с 21,6% в 2015 г. до 50,9% в 2017 г., превысив целевой ориентир в 30%.

В общей сложности, среди новых случаев и рецидивов туберкулеза было зарегистрировано 199 129 (83%) случаев туберкулеза легких, из которых 65% имели лабораторное подтверждение диагноза. Такая тенденция увеличения доли лабораторно подтвержденных случаев туберкулеза берет начало в 2013 г. с уровня 57,1%.

Среди случаев туберкулеза легких с бактериологическим подтверждением диагноза тестирование лекарственной чувствительности (ТЛЧ) было проведено у 81% пациентов, что указывает на снижение этого показателя по сравнению с предыдущим годом (85,6% в 2016 г.).

В целом, 27,9% случаев туберкулеза легких, которые прошли тестирование лекарственной чувствительности, имели МЛУ-ТБ. Распространенность МЛУ-ТБ среди новых и ранее леченных случаев туберкулеза легких с бактериологическим подтверждением диагноза составила соответственно 18,1% и 47,9%, что согласуется с тенденцией, наблюдавшейся в течение последних пяти лет.

Отмечается тенденция к росту числа случаев туберкулеза с широкой лекарственной устойчивостью (ШЛУ-ТБ) при охвате тестированием лекарственной чувствительности к препаратам второго ряда в 91.3%; в 2017 г. 17.5% случаев туберкулеза легких с множественной лекарственной устойчивостью возбудителя имели ШЛУ-ТБ. В абсолютных цифрах число случаев ШЛУ-ТБ среди больных туберкулезом легких увеличилось с 575 в 2013 г. до 5591 в 2017 г.

Среди новых случаев и рецидивов туберкулеза, зарегистрированных в странах, предоставляющих данные отчетности о тестировании на ВИЧ, 91,4% прошли скрининг на ВИЧ-инфекцию. В общей сложности было выявлено 25 153 случая туберкулеза с ВИЧ-положительным статусом, что составляет 12,8% от числа протестированных - это несколько меньше, чем в прошлом году (13,4% в 2016 г.) и соответствует тенденции, наблюдаемой в расчетных показателях сочетанной инфекции.

Согласно данным отчетов, антиретровирусную терапию (АРТ) получали в общей сложности 16 754 (66,6%) ВИЧ-инфицированных пациентов. Охват АРТ за последние пять лет демонстрирует тенденцию к росту, однако он все еще намного ниже целевого ориентира ВОЗ по всеобщему охвату АРТ пациентов с сочетанной инфекцией ТБ-ВИЧ.

Несмотря на всеобщий охват лечением больных туберкулезом и РР/МЛУ-ТБ, показатель успешного лечения в Регионе остается ниже 85% и 75% региональных целевых ориентиров, соответственно. Однако при сравнении данных, собранных в 2016-2018 гг., медленный, но стабильный рост зафиксирован как в когортах новых случаев и рецидивов туберкулеза, так и в когортах РР/МЛУ-ТБ - с 75,8% до 77,2% и 48,7% до 57,2%, соответственно.

#### Страны Европейского Союза и Европейской экономической зоны

#### Эпидемиологическая ситуация

В 2017 г. в 31 стране Европейского Союза и Европейской экономической зоны (ЕС/ЕЭЗ) было зарегистрировано 55 337 случаев заболевания туберкулезом, а показатель регистрации составил 10,7 на 100 000 населения. За последние пять лет общий показатель регистрации и частота случаев в большинстве стран снижались.

Из всех зарегистрированных случаев заболевания туберкулезом у 39 903 (72,1%) пациентов диагноз был установлен впервые, а у 37 700 (68,1%) диагноз был подтвержден при помощи культурального анализа или мазка и теста амплификации нуклеиновых кислот. В целом, у взрослых показатель регистрации новых случаев и рецидивов туберкулеза был выше, чем у детей младше 15 лет. На долю детей в возрасте до 15 лет приходилось 4,4% всех новых случаев и рецидивов туберкулеза, что соответствует показателю в 2,9 на 100 000 населения. Самые высокие показатели среди детей в возрасте 0-4 лет были отмечены в Болгарии и Румынии. В ЕС/ЕЭЗ на каждый новый случай и рецидив

туберкулеза у женщин приходилось почти два новых случая и рецидива туберкулеза у мужчин. Тридцать три процента всех случаев туберкулеза в странах ЕС/ЕЭЗ были иностранного происхождения, однако в странах с показателями регистрации туберкулеза выше 10 на 100 000 населения не более 20% случаев туберкулеза регистрировалось как случаи иностранного происхождения.

МЛУ-ТБ был зарегистрирован у 1041 (3,8%) из 27 339 случаев с соответствующими результатами ТЛЧ и его показатели продолжают оставаться самым высоким (более 10%) в трех странах Балтии. ШЛУ-ТБ был зарегистрирован у 24,3% из 770 случаев МЛУ-ТБ с результатами ТЛЧ к препаратам второго ряда. После стабильного значения на уровне 0,3 на 100 000 населения за период с 2013 по 2016 год показатель зарегистрированных случаев МЛУ-ТБ снизился до 0,2 в 2017 г. За тот же период увеличилась доля случаев ШЛУ среди больных легочным туберкулезом с множественной лекарственной устойчивостью. Следует отметить, что свыше 45% случаев легочного ШЛУ-ТБ было зарегистрировано в те годы в Литве и Румынии.

Несмотря на то, что с 2016 по 2017 гг. число стран, предоставивших данные о сочетанной инфекции ТБ-ВИЧ, увеличилось, эти данные остаются неполными. Из всех случаев туберкулеза с зарегистрированным ВИЧ-статусом 3,9% имели сочетанную инфекцию ТБ-ВИЧ.

В пенитенциарных учреждениях регистрация случаев туберкулеза по-прежнему остается неудовлетворительной. Для 15 стран EC/EЭЗ, предоставивших данные отчетности, показатель регистрации соответствовал 155 новым случаям и рецидивам туберкулеза на 100 000 заключенных, а относительный риск заболевания по сравнению с населением в целом в тех же странах составил 11,4.

#### Мониторинг лечения

Из всех зарегистрированных в 2016 г. 54 612 случаев туберкулеза с результатами лечения, полученными в 2017 г., 70.7% были успешно пролечены, а 7,3% умерли. Из зарегистрированных в 2015 г. 1 217 случаев МЛУ-ТБ с результатами лечения, полученными в 2017 г., 44,8% были успешно пролечены, а 16,2% умерли.

# 1. Main facts about tuberculosis

## 1. Main facts about tuberculosis

Tuberculosis (TB) is an infectious disease caused by a group of *Mycobacterium* species called the *Mycobacterium* tuberculosis complex (1). Although TB typically affects the lungs (pulmonary TB), it can cause disease in any organ (extrapulmonary TB). TB is transmitted from person to person, for example, when people with pulmonary TB expel bacteria by coughing.

Only a small proportion of people ( $\approx$ 10%) infected with *M. tuberculosis* will develop TB disease during their lifetime, but the risk is much higher among immunocompromised individuals (such as people infected with the human immunodeficiency virus (HIV)).

Sputum-smear microscopy has been the most common initial TB diagnostic method worldwide, but culture remains the gold standard, while the use of rapid molecular testing is increasing.

Standard treatment of non-resistant TB consists of a sixmonth regimen of four first-line drugs (isoniazid, rifampicin, ethambutol and pyrazinamide), with success rates usually above 80% (2). Multidrug-resistant (MDR) and extensively drug-resistant (XDR) TB require longer treatments with more drugs and are associated with lower success rates.

WHO estimated that 10 million people fell ill with TB in 2017. Most cases were estimated to occur in the WHO South-East Asia Region (44%), the WHO African Region

(25%) and the WHO Western Pacific Region (18%). Smaller proportions of cases were estimated for the WHO Eastern Mediterranean Region (7.7%) and the WHO Region of the Americas (2.8%). The WHO European Region accounted for 2.7% of all cases (2).

Overall, this report shows that in the European Union and European Economic Area (EU/EEA), TB remains a public health issue. Most EU/EEA countries, however, are low-incidence countries (a notification rate below 10 per 100 000) in which TB predominantly affects vulnerable populations, such as migrants, prison inmates or people coinfected with HIV.

The overall aim of TB surveillance is to help inform public health action. The annual TB surveillance and monitoring report presents key figures and trends and provides an overview of the TB situation in the EU/EEA and the WHO European Region.

#### References

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# 2. Technical note

## **Technical note**

Between 1996 and 2007, TB surveillance data from the European Region were collected and analyzed annually under the EuroTB project.

Since 1 January 2008, the European Centre for Disease Prevention and Control (ECDC) and the WHO Regional Office for Europe have jointly coordinated the collection and analysis of TB surveillance data in Europe, aiming to ensure data standardization and high quality across the WHO European Region. The underlying standards and definitions have been agreed by leading European experts. The definitions used in this report are in line with the latest WHO revised definitions (1). In the EU/EEA the reporting follows the EU case definitions (2).

The report covers the 53 countries of the WHO European Region and Liechtenstein. These are collectively referred to as the European Region.

Data published in the report may differ from figures in national reports due to variations in reporting periods and the deadlines for data collection. The deadline for updating the data used in this report was 5 October 2018.

#### Data reporting and analysis

Designated experts within national surveillance institutes submitted their TB surveillance and control programme management data for 2017 electronically to the ECDC-WHO Regional Office for Europe Joint TB Information System via a common portal.¹ TB surveillance data from the EU/EEA countries and Switzerland, starting 2017, were redirected to The European Surveillance System (TESSy) platform hosted by ECDC (Annex 1). Surveillance data from non-EU/EEA countries and areas and programme management data from the entire European Region were processed through WHO's Tuberculosis Monitoring and Evaluation (TME) platform in aggregated format. All 31 EU/EEA Member States reported case-based data. All countries in the European Region were also asked to provide updates for 2014, 2015 and 2016 to allow for the exclusion of duplicate cases, or those found later not to have TB, and for the reporting of treatment outcomes in previously notified cases.

The TESSy variable list for collection of the 2017 data (Annex 2) has undergone some changes compared to the previous year. The following variables have been removed: Classification, Laboratory result, SIR\_CIP (susceptibility to ciprofloxacin), and RflpCode (restriction fragment length polymorphism code). The following variables have been added: SIR\_PZA (susceptibility to pyrazinamide) and DateOfEntryToCountry. In addition, the value MCAPRAE

(Mycobacterium caprae) has been added to the variable Pathogen.

Reporting completeness (Annexes 3 and 4) varied among countries and areas due to differences in legislation, specifics of national surveillance systems and TB case ascertainment. Although the quality and comparability of reported data have improved in recent years, readers should be cautious when making comparisons across countries. Reporting completeness in the EU/EEA is generally high, with a few exceptions, such as HIV status and drug-susceptibility testing (DST) data, nonetheless readers should be cautious when making comparisons across countries.

Estimates of TB disease burden presented in Tables 1, 2, I and II are provided by WHO using a methodology developed by the Global Task Force on TB Impact Measurement. Estimates are updated annually using the latest available data and analytical methods (3). Population denominators were obtained from United Nations Population Division statistics (4) for the calculation of rates in these tables.

For the calculation of notification rates, country total population denominators by age group and gender were obtained from Eurostat (5) (20 April 2018) for the EU/EEA countries and from United Nations Population Division statistics for all other countries and areas.

Reported data were analysed using the main epidemiological (time, place, gender, age, patient origin) and case management (history of previous anti-TB treatment, localization of disease, laboratory results, HIV status and treatment outcome) variables. Associations between variables were, if indicated, quantified as risk ratios and their 95% confidence intervals, and results were considered significant if the confidence interval did not include 1.

#### **TB/HIV** coinfection

Case-based HIV status for 2017 was reported by Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Greece, Hungary, Iceland, Ireland, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Portugal, Romania, Slovakia, Slovenia, Spain and the United Kingdom. The proportion of HIV/TB coinfection was expressed as a percentage of reported TB cases with known HIV status. HIV status had to be available for more than 50% of all TB cases to be considered complete in the country profiles. For the reported new and relapse TB cases with known HIV status in 2017, start or continuation on antiretroviral therapy (ART) was reported by 10 EU/EEA Member States.

<sup>1</sup> ECDC/WHO Europe Joint Surveillance can be accessed at: http://www.ecdcwhosurveillance.org/

## Laboratory network performance and drug resistance

Results of DST from initial isolates of M. tuberculosis have been collected for isoniazid and rifampicin since the reporting year 1998. EU/EEA countries have also reported susceptibility to ethambutol and streptomycin, with almost 70% of EU/EEA countries reporting the latter for the last five years (2013–2017). Data on second-line drug resistance to amikacin, capreomycin, kanamycin, ciprofloxacin and ofloxacin have been reported via TESSy since 2008 and via the Centralized Information System for Infectious Diseases (CISID)/TME since 2009. Data on ciprofloxacin are no longer collected in TESSy (since 2017), as ciprofloxacin is no longer recommended for treatment of drugsusceptible or drug-resistant TB. Data on resistance to gatifloxacin, levofloxacin and moxifloxacin were added in 2013, bedaquiline and delamanid in 2016, and pyrazinamide in 2017. Case-based information on DST is collected in countries/areas where DST results are linked to TB case notifications (29 countries in 2017). Where individual DST data are not available, data have been obtained from TME in aggregated format, when possible and deemed adequate. Information on the organization and laboratory practices for anti-TB DST in the country/area is collected using the TME module of the joint TB surveillance system. Drugresistance surveillance (DRS) methods vary across countries and areas. Initial DST results may be collected routinely for all culture-positive TB cases notified, or only for cases included in specific surveys or diagnosed in/referred to selected laboratories. DRS data were considered complete if:

• they were collected nationwide;

or

- culture results were available for 90% or more of all cases; and
- more than 50% of all cases were culture-positive; and
- more than 75% of all culture-positive cases had DST results available for isoniazid and rifampicin; and
- at least 95% of the external quality assessment (EQA) results were confirmed by a supranational reference laboratory.

DRS data are considered incomplete for Albania, Andorra, Azerbaijan, France, Italy, Kazakhstan, Kyrgyzstan, the Republic of Moldova, San Marino, Turkmenistan and Uzbekistan.

EQA systems are essential for ensuring accurate diagnosis of TB and drug-resistant TB. Implementing EQA by organizing regular EQA rounds and identifying training needs is one of the key activities of the European TB Reference Laboratory Network (ERLTB-Net) (6). The EQA test results for 2017 are published in Annex 5.

Percentages of laboratory-confirmed drug-resistant cases were calculated using cases with known DST results (for at least isoniazid and rifampicin) as the denominator. The results of DST for second-line drugs were analysed for multidrug-resistant TB (MDR-TB) cases only.

#### **Treatment outcome monitoring**

Treatment outcome data have been provided by EU/EEA countries since the reporting year 2002 through the submission of an updated dataset for cases notified one year prior to the year of reporting. The same applies to MDR-TB treatment outcome for cases reported two years earlier and extensively drug-resistant TB (XDR-TB) treatment outcome for cases reported three years earlier. As part of the 2018 data call, for 2017 data, outcome data were collected for TB cases reported in 2016, MDR-TB cases in 2015 and XDR-TB cases in 2014. Non-EU/EEA countries and areas have reported aggregated treatment outcome data following the same principle since 2013.

If enrolment to treatment is taken into account for treatment outcome monitoring (TOM) analysis, two types of TB cases are included: cases enrolled to treatment, and cases with no indication of enrolment to treatment. For countries and areas reporting case-based data, the most recently updated information was used. This may result in denominators differing from the number of notified cases reported in the previous year's report. For countries and areas reporting aggregate outcome data, completeness of cohorts is assessed by comparing the total number of cases included in TOM cohorts with those initially notified as pulmonary and culture- or smear-positive, depending on the type of cohort.

#### **Geographical areas**

The following 31 EU/EEA countries are presented separately in tables and in Chapter 3: Austria, Belgium, Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden and the United Kingdom.

The 23 remaining (non-EU/EEA) countries in the WHO European Region are: Albania, Andorra, Armenia, Azerbaijan, Belarus, Bosnia and Herzegovina, Georgia, Israel, Kazakhstan, Kyrgyzstan, the Republic of Moldova, Monaco, Montenegro, North Macedonia, the Russian Federation, San Marino, Serbia, Switzerland, Tajikistan, Turkey, Turkmenistan, Ukraine and Uzbekistan.

Data from Serbia include TB cases reported from Kosovo,<sup>2</sup> and these are also stratified in tables to reflect United Nations Security Council Resolution 1244 (1999).

Data from the 18 high-priority countries (HPCs) identified in the *Plan to stop TB in 18 high-priority countries in the WHO European Region, 2007–2015 (7)* are presented in italics and as subtotals alongside the subtotals for the EU/EEA countries and non-EU/EEA countries and areas. The 18 HPCs in the WHO European Region are: Armenia, Azerbaijan, Belarus, Bulgaria, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, the Republic of Moldova, Romania, the Russian Federation, Tajikistan, Turkey, Turkmenistan, Ukraine and Uzbekistan.

<sup>2</sup> For the purposes of this publication, all references to "Kosovo", including in the bibliography, should be understood/read as "Kosovo (in accordance with Security Council resolution 1244 (1999))".

TB notifications from France include overseas territories. TB notifications from Greenland are not included in the report.

#### **Definitions**

#### TB case definition for surveillance

Information from EU/EEA countries was collected to enable the classification of cases according to the case definition approved by EU Member States and published by the European Commission (2). This classifies cases as "possible", "probable" or "confirmed". Possible cases meet clinical criteria only. Probable cases are defined by the additional detection of acid-fast bacilli (AFB), M. tuberculosis complex nucleic acid or granulomata. Confirmed cases require a positive culture, or detection of both AFB by microscopy and M. tuberculosis complex by nucleic acid amplification testing.

Data from all countries and areas in the European Region also follow the WHO-recommended definitions, 2013 revision (1). They define a "case of tuberculosis" as a patient in whom TB has been confirmed by bacteriology or diagnosed by a clinician. A "bacteriologically confirmed TB case" is one from whom a biological specimen is positive by smear microscopy, culture or WHO-recommended rapid diagnostics (WRD) such as Xpert MTB/RIF. A "clinically diagnosed TB case" is one that does not fulfil the criteria for bacteriological confirmation, but has been diagnosed with active TB by a clinician or other medical practitioner who has decided to give the patient a full course of TB treatment.

Cases discovered postmortem as having gross pathological findings consistent with active TB that would have indicated anti-TB treatment, had the patient been diagnosed before dying, also fit the clinical criteria and are included.

#### **Previous anti-TB treatment status**

**New cases** have never been treated for TB or have taken anti-TB drugs for less than one month. For EU/EEA countries, cases reported as having been diagnosed before 1951 are analysed as new cases.

**Previously treated patients** have received one month or more of anti-TB drugs in the past. They are further classified by the outcome of their most recent course of treatment as follows:

- relapse: patients have previously been treated for TB, were declared cured or to have completed their treatment at the end of their most recent course of treatment, and are now diagnosed with a recurrent episode of TB (either a true relapse or a new episode of TB caused by reinfection);
- treatment after failure: patients who have previously been treated for TB and whose treatment failed at the end of their most recent course of treatment;
- treatment after loss to follow-up: patients have previously been treated for TB and were declared lost to follow-up at the end of their most recent course of treatment

(these were previously classified as "treatment after default"); and

 other previous treatment: patients who have previously been treated for TB but whose outcome after their most recent course of treatment is unknown or undocumented.

Patients with unknown previous TB treatment history do not fit any of the categories listed above.

New cases and relapses of TB are incident TB cases.

#### Site of disease

**Pulmonary TB** refers to any bacteriologically confirmed or clinically diagnosed case of TB involving the lung parenchyma or the tracheobronchial tree (laryngeal TB is classified as pulmonary). A patient with both pulmonary and extrapulmonary TB should be classified as a case of pulmonary TB.

**Extrapulmonary TB** refers to any bacteriologically confirmed or clinically diagnosed case of TB involving organs or anatomical sites other than the lungs (such as pleura, lymph nodes, abdomen, genitourinary tract, skin, joints and bones, or meninges).

#### Notes on the definition

The above TB case definition, and the definition of previous anti-TB treatment status and site of disease, are in accordance with the European Commission's approved definitions for TB surveillance.

All possible, probable and confirmed cases are reported to the joint European surveillance database. For countries and areas with laboratory-based reporting where no clinical information is available, laboratory-confirmed cases should be reported.

Cases should be notified only once in a given 12-month period, but a case should be reported again if the diagnosis of confirmed TB is made following completion of anti-TB treatment (relapse), even if this occurs within 12 months of reporting the initial disease episode.

Cases that have never been treated are commonly referred to as new cases, although this term should not be considered to indicate incidence in the strict epidemiological sense.

Among re-treated cases, relapses are included in notifications from all countries, whereas cases re-treated after failure or loss to follow-up and chronic cases are not included or further defined by Belgium, Cyprus, Denmark, France, Luxembourg, Malta, Norway, Spain and the United Kingdom.

DST data were analysed for laboratory-confirmed cases.

#### **Origin of cases**

The geographic origin of a TB case is classified according to the place of birth of a person with TB disease (born in the country/born outside of the country) for Bulgaria, Croatia, Cyprus, the Czech Republic, Denmark, Estonia,

Finland, France, Germany, Iceland, Ireland, Israel, Italy, Kyrgyzstan, Latvia, Liechtenstein, Lithuania, Luxembourg, Malta, the Netherlands, North Macedonia, Norway, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Tajikistan, Turkey, the United Kingdom and Uzbekistan. For Albania, Andorra, Armenia, Austria, Belarus, Belgium, Bosnia and Herzegovina, Georgia, Greece, Hungary, Kazakhstan, the Republic of Moldova, Montenegro, Poland, the Russian Federation, Serbia, Turkmenistan and Ukraine, origin is classified according to citizenship (citizen/ non-citizen). Azerbaijan, Georgia, Kyrgyzstan, Monaco and Turkmenistan did not report information on origin. In Denmark, the birthplace of the parents is also used to classify origin (similarly in the Netherlands, where for cases born in the Netherlands the birthplace of parents is notified for case management purposes). The country of origin is included in case-based data.

The term "native" as used in this report refers to cases born in, or having the citizenship (nationality) of, the reporting country. "Foreign origin" refers to cases born in (or citizens of) a country different to the reporting country.

#### **Drug resistance**

Resistance among cases never treated (new TB cases) indicates primary drug resistance due to infection with resistant bacilli.

Resistance among cases previously treated usually indicates acquired drug resistance emerging during treatment following selection of drug-resistant mutant bacilli. It can also result from exogenous re-infection with resistant bacilli

**Multidrug resistance (MDR)** refers to resistance to at least isoniazid and rifampicin.

**Extensive drug resistance (XDR)** refers to resistance to: (i) isoniazid and rifampicin (that is, MDR); (ii) a fluoroquinolone; and (iii) one or more of the following injectable drugs: amikacin, capreomycin or kanamycin (1).

**Rifampicin resistance** refers to resistance to rifampicin detected using phenotypic or genotypic methods, with or without resistance to other anti-TB drugs. This includes any resistance to rifampicin, whether monoresistance, multidrug resistance, polydrug resistance or extensive drug resistance.

#### **Treatment outcome**

#### Cohorts

A cohort is defined as all TB cases notified in the calendar year of interest, after exclusion of cases with a final diagnosis other than TB, or cases found to have been reported more than once.

In accordance with the WHO treatment outcome definitions (1), this report distinguishes between two types of cases:

• patients treated for drug-susceptible TB; and

 patients treated for rifampicin-resistant TB (RR-TB), that is, those placed on second-line treatment (defined as combination chemotherapy for drug-resistant TB).

The two groups are mutually exclusive. Any patient reported as having RR-TB is assumed to be on second-line treatment and is excluded from the drug-susceptible TB outcome cohort.

#### Period of observation

All cases are observed until the first outcome assessment up to a maximum of 12 months after the start of treatment. For MDR-TB cases in EU/EEA countries, treatment outcome after 24 months should be reported if treatment lasts longer than 12 months and the reported 12-month outcome is coded as "still on treatment".<sup>3</sup> For XDR-TB cases in EU/EEA countries, treatment outcome after 36 months should be reported if treatment lasts longer than 24 months and the reported 12-month and 24-month outcomes are coded as "still on treatment".<sup>4</sup> Non-EU/EEA countries and areas evaluate treatment outcomes according to the WHO definition.

#### **Treatment outcome categories**

All outcome categories but one apply to the entire Region and follow the WHO recommendations in *Definitions and reporting framework for tuberculosis – 2013 revision (1)*. The additional category "still on treatment" only applies to the EU/EEA Member States. The categories are as follows.

**Cured** is a pulmonary TB patient with bacteriologically confirmed TB at the beginning of treatment who was smearor culture-negative in the last month of treatment and on at least one previous occasion.

**Cured of MDR-TB** is treatment completed as recommended under national policy without evidence of failure AND three or more consecutive cultures taken at least 30 days apart are negative after the intensive phase.

**Treatment completed** is treatment completed but does not meet the criteria to be classified as cure or treatment failure.

**Treatment failed** is a TB patient whose sputum smear or culture is positive at month 5 or later during treatment.

**Treatment failed for MDR-TB case** is treatment terminated or the need for permanent regimen change of at least two anti-TB drugs because of:

- lack of conversion by the end of the intensive phase; or
- bacteriological reversion in the continuation phase after conversion to negative; or
- evidence of additional acquired resistance to fluoroquinolones or second-line injectable drugs; or
- adverse drug reactions.

<sup>3</sup> The degree of adherence to the 12-month limit is unknown, and a number of countries are known to exceed it.

 $<sup>\,{\</sup>bf 4}\,\,$  The degree of adherence to the 24-month limit is unknown.

**Died** is a TB patient who dies for any reason before starting, or during the course of, treatment.

**Lost to follow-up** is a TB patient who did not start treatment or whose treatment was interrupted for two consecutive months or more (defined in previous reports as "defaulted").

#### Still on treatment is:5

- a patient reported as still on treatment at 12 months without any other outcome during treatment; or
- a patient reported as still on treatment at 12 months and still on treatment at 24 months without any other outcome.

**Not evaluated** is a TB patient for whom no treatment outcome is assigned; this includes cases "transferred out" to another treatment unit and cases for whom the treatment outcome is unknown to the reporting unit.

In this report, success is the sum of "cured" and "treatment completed".

# Tables, figures, maps and country profiles

The report presents two sets of tables towards the end of the document:

- trend tables (Tables I-XV)
- data tables (Summary Table, Tables 1-25).

Also included are a series of figures (Fig. 1-5) and maps.

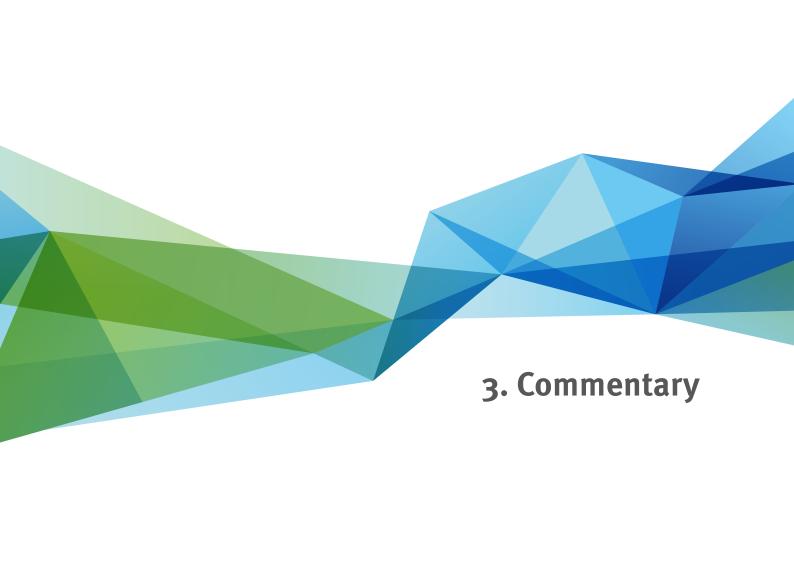
The report ends with a series of country profiles summarizing data at country level.

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 $<sup>\,\,</sup>$  This definition is applicable to EU/EEA countries only.



# 3. Commentary

#### **The WHO European Region**

#### TB burden estimates

An estimated 275 000 new and relapse TB cases (range 238 000–314 000) occurred in countries and areas of the WHO European Region in 2017, equivalent to an average incidence of 30 cases (26-34) per 100 000 population. This represents about 2.8% of the total burden of TB in the world.

The absolute number of incident TB cases in the WHO European Region fell by 15 000 in 2017 compared to the previous year. About 83% of the estimated TB cases in the Region occur in the 18 HPCs, where estimated TB incidence was 56.3 cases per 100 000 population, which is about four times higher than the EU/EEA average. The six countries with the absolute number of incident TB cases over 10 000 were the Russian Federation (86 000), Ukraine (37 000), Uzbekistan (23 000), Romania (14 000), Turkey (14 000) and Kazakhstan (12 000). The number relative to population (incidence rate) was highest in Kyrgyzstan (144 per 100 000 population), followed by the Republic of Moldova (95), Georgia (86), Tajikistan (85) and Ukraine (84).

The estimated number of TB cases in the Region has been decreasing consistently since 2000. The average annual decline in the TB incidence rate was 4.7% during the period 2008–2017, with 5.2% between 2016 and 2017, which is notably higher than the global rate of decline for TB incidence (1.8%). Yet despite this being the fastest decline in the world compared to other regions (1), it still needs to accelerate to achieve the milestone of reducing TB incidence as part of the End TB Strategy. It should nevertheless be emphasized that all the HPCs in the Region have also experienced a decline in the TB incidence rate. Those countries with the highest annual rate of decline during the period 2008–2017 were Kazakhstan (–9.1%), Estonia (–8.7%) and Turkmenistan (–8.4%).

There were an estimated 24 000 TB deaths among people who were HIV-negative in the European Region in 2017, equivalent to 2.6 deaths per 100 000 population (range 2.5–2.7). Considerable variation was seen across the Region, ranging from less than one TB death per 100 000 population in western European countries to more than nine per 100 000 in HPCs. The TB mortality rate was highest in Turkmenistan (9.9 deaths per 100 000), followed by Ukraine (8.7) and Azerbaijan (8.7). Together, the 18 HPCs accounted for over 83% of TB deaths in the Region.

The TB mortality rate at regional level fell by 59%, from 6.3 to 2.6 deaths per 100 000 population, between 2008 and 2017 (Table I), which on average is a decline of 9.3% per year. This decline has been over 10% annually in the last five years, which is notably higher than the global

rate of decline for TB mortality (3.2% between 2016 and 2017).

An estimated 12.0% (range 9.1%–16.0%) of incident TB cases in 2017 were coinfected with HIV (Table 2). The proportion of TB cases coinfected with HIV was highest in Ukraine (21.6%), followed by the Russian Federation (20.9%), France (14.1%) and Portugal (12.5%). The top five countries with the highest absolute number of TB/HIV coinfection cases were the Russian Federation (18 000) and Ukraine (8000), amounting to 79% of the total number of cases, followed by Uzbekistan (1200), France (830), Kazakhstan (530), Italy (470) and the United Kingdom (410).

Nine out of the 30 countries with the highest MDR-TB burden in the world are in the WHO European Region.<sup>6</sup> There were an estimated 109 000 (range 86 000–136 000) incident cases of rifampicin-resistant and multidrugresistant TB (RR/MDR-TB) in the WHO European Region in 2017, with MDR-TB accounting for 84%.

An estimated 17% (95% CI: 16–18%) of new cases and 53% (95% CI: 46–61%) of previously treated cases had RR/MDR-TB. If all notified pulmonary TB patients were tested for drug resistance to rifampicin and isoniazid, it is estimated that around 77 000 (range 76 000–77 000) would be detected.

#### TB notification and trends

In 2017, 283 346 TB cases were reported from 52 countries<sup>7</sup> in the WHO European Region, 238 819 of which were new, relapses or had an unknown previous treatment history (Table 4). This represents 84% of all TB cases notified in 2017.

The notification rate of new and relapse cases varies widely among countries and areas, from zero (San Marino) to 110.6 (Kyrgyzstan) per 100 000 population (Map 1 and Table 4).

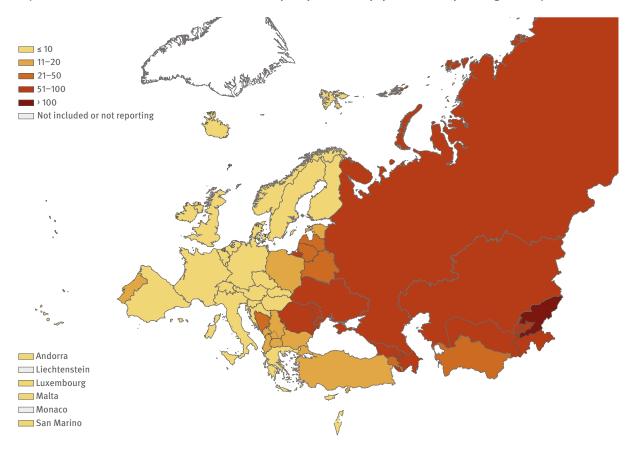
Thirty-eight countries, all located in the western and central part of the Region and mostly high-income countries, had low notification of new and relapse cases (less than 20 cases per 100 000) in 2017. Six reported new or relapse case rates of between 20 and 50 per 100 000 population and nine reported between 50 and 100 cases per 100 000 population (the Republic of Moldova (82.9), Kazakhstan (68.4), Georgia (66.4), Tajikistan (66.1), Romania (62.7), Ukraine (61.6), the Russian Federation (58.7), Azerbaijan (53.2) and Uzbekistan (52.8)). The 18 HPCs with new and relapse case notifications account for about 83% of the regional burden. The largest proportion of new and relapse

<sup>6</sup> The 10 countries with the highest global MDR-TB burden (in alphabetical order) are: Azerbaijan, Belarrus, Kazakhstan, Kyrgyzstan, the Republic of Moldova, the Russian Federation, Somalia, Tajikistan, Ukraine and Uzbekistan.

<sup>7</sup> Monaco did not report and San Marino reported zero cases in 2018.

cases (84 510, or 35.4%) comes from the Russian Federation, even though the Russian Federation accounts for only 16% of the Region's population. Most HPCs rates continue to

show a decreasing trend compared to the previous year, the exceptions being Azerbaijan, Kazakhstan and IIzbekistan.



Map 1. TB notification rates of new TB cases and relapses per 100 000 population, European Region, 2017

During the period 2013–2017, an overall downward trend of 21.3% was observed in the notification of incident TB cases, from 32.9 to 25.9 cases per 100 000 population (Table 4). This trend reflects a genuine reduction in the spread of the disease, significantly influenced by the decrease in notification rates throughout the Region's 18 HPCs from 63.6 to 49.1 per 100 000 population. The notification rate of new and relapse cases in the 18 HPCs is almost twice as high as for the Region overall (49.1 cases per 100 000, compared to 25.9 for the Region) and about five times higher than the rate in the EU/EEA (10.2 cases per 100 000 population) (Fig. 1).

#### **Previous treatment history**

Previously treated cases represented 10.0% and 31.7% in the EU/EEA and non-EU/EEA respectively in 2017. The average in the 18 HPCs was 31.2%, impacting the pan-European average of 27.4%. Previously treated cases accounted for 15% or more of all TB cases in 16 countries: Azerbaijan (45.7%), the Russian Federation (37.9%), Ukraine (30.7%), the Republic of Moldova (30.3%), Kazakhstan (27.2%), Kyrgyzstan (26.8%), Georgia (26.1%), Armenia (25.4%), Belarus (25.0%), Uzbekistan (24.7%), Romania (20.2%), Lithuania (19.5%), Tajikistan (16.7%), Estonia

(16.6%), Slovakia (16.5%) and Turkmenistan (15.8%). Reasons for the high percentage of previously treated cases include clinical failure or poor treatment adherence in previous treatment episodes, and possible re-infection and misclassification during the current treatment episode.

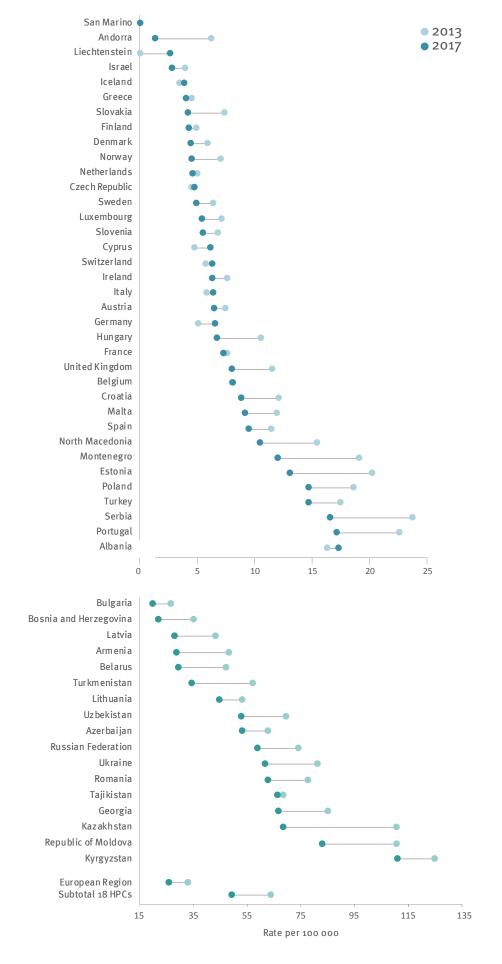
#### Disease localization

Pulmonary localization was notified in about 83% of the incident TB cases in the Region in 2017 (Table 7b). The proportion of patients with pulmonary localization in the non-EU/EEA was slightly higher compared to EU/EEA countries. Extrapulmonary TB was notified on average for 17% of all incident TB cases in the Region. Eight countries reported more than 30% of their TB cases having extrapulmonary localization: Albania, the Netherlands, Norway, Sweden, Tajikistan, Turkey, the United Kingdom and Uzbekistan.

#### **Bacteriological confirmation**

Bacteriological confirmation of TB diagnosis was reported for 129 065 (64.8%) of all 199 129 new and relapse pulmonary cases in the Region (Table 7b). Testing of cases using WRD (such as Xpert MTB/RIF) was much lower in EU/EEA countries (25.0%) than in the non-EU/EEA countries and

Fig. 1. Trend of TB notification rate per 100 000, WHO European Region, between 2013 and 2017



areas (58.3%). The three-year trend nevertheless shows a constant increase in usage of WRDs in the Region, from 21.6% in 2015 to 50.9% in 2017 (Table XV). Testing also varied considerably among countries and areas, from 0.4% to 93.2% in Bulgaria and the Republic of Moldova respectively. Bacteriological confirmation of new and relapse pulmonary cases was below 60% in five countries, underlining the need to strengthen diagnostics: Turkmenistan (46.6%), Uzbekistan (51.0%), the Russian Federation (51.9%), Hungary (53.4%) and Armenia (56.6%). In 34 countries, bacteriological confirmation of new and relapse pulmonary cases was 75% and above.

#### Age and sex

There is wide variation in the distribution of age- and sex-specific notification rates across countries and areas (Table 9). Notification rates in eastern European countries are highest in young adults (25–44 years) and subsequently decrease, while in the countries of central Asia and in Turkey, the notification rates either increase with age or are relatively constant across adult age groups.

The rate of TB in children under 5 years in the group of 18 HPCs was lower than the notification rate among children aged 5–14, indicating that detection of TB remains especially challenging in young children.

In countries with at least 100 new and relapse TB cases, the proportion of TB cases notified in children (0–14 years) varied at country level from below 1% (Estonia, Belarus, Hungary and Turkmenistan) to 19.7% (Slovakia) of all new cases and relapses. The difference in proportions of childhood TB cases across the countries and areas may reflect differences in case-finding practice (such as contact tracing), population age structure and under-/overdiagnosis or reporting of childhood TB. The average percentage of new and relapse TB patients under 15 years in the Region is around 4.0%.

There were twice as many males as females reported among all incident TB cases, but large variation was observed for male predominance in the sex distribution of TB cases, ranging from almost even distribution to over three times greater in Armenia. In most countries and areas, gender differences in notification rates appear to be more significant among middle-aged and older adults. TB rates in males and females appear to be more similar in children and younger adults (0–14 and 15–24 years). This gender difference in TB case notification most likely reflects the overrepresentation of males in the various TB risk groups, notably homeless people, prisoners, seasonal migrant workers, people living with HIV, men who have sex with men and people who inject drugs.

#### **Drug resistance**

Fifty countries in the Region reported on first-line DST results in 2017.

Overall, first-line DST coverage among bacteriologically confirmed pulmonary TB cases in the Region was 81.2%, with 35 countries achieving 85% or higher coverage. Coverage in five countries, however, was less than 50%:

Tajikistan (21.1%), Bosnia and Herzegovina (26.9%), Albania (37.7%), Kazakhstan (42.1%) and Serbia (45.6%). The percentage of confirmed MDR-TB cases among 80 329 new pulmonary TB cases tested for first-line DST in the Region was 18.1%, which is slightly higher than the rate observed in 2016 (17.6%) (Map 2, Fig. 2, Table 12 and Table V). While 16 countries reported no MDR-TB or less than 1% among new TB cases, the rate was over 20% in eight (Table 12). With the exception of four EU/EEA Member States, where MDR-TB among new cases varied from 7.7% in Latvia to 21.8% in Estonia, the prevalence was lower than 5% in all EU/EEA countries, with an average of 2.4% (Fig. 3).

Three non-EU/EEA countries had an MDR-TB prevalence ranging from 10–19% among new cases tested for first-line DST: Azerbaijan (12.8%), Armenia (12.5%) and Georgia (10.5%). Four had 20–29% MDR-TB among new cases: the Russian Federation (28.2%), the Republic of Moldova (26.6%), Kyrgyzstan (22.4%) and Ukraine (21.4%); and three had an MDR-TB prevalence over 35%: Tajikistan (83.3%), Belarus (37.2%) and Kazakhstan (32.9%). It should be noted, though, that less than 35% of new bacteriologically confirmed pulmonary TB cases had DST results available in Tajikistan and Kazakhstan, so the prevalence is overestimated in these countries.

The percentage of confirmed MDR-TB cases among 43 071 previously treated bacteriologically confirmed pulmonary TB cases whose isolates were tested for first-line DST was 47.9%, which is lower than the 2016 rate (51.9%) (Fig. 2, Table 12 and Table VI).

Ten countries had between 15% and 49% MDR-TB among previously treated TB cases tested for first-line DST. The rate was even higher in some HPCs: Tajikistan (86.4%), Belarus (65.6%), the Russian Federation (58.9%), the Republic of Moldova (54.4%), Lithuania (51.5%), Kyrgyzstan (50.2%) and Estonia (50.0%) (Fig. 4, Table 12). It should be noted, however, that only 10 cases in Estonia were reported in absolute numbers.

The rate of MDR-TB notification among new bacteriologically confirmed pulmonary TB cases with available DST results at regional level was 1.7 per 100 000 in 2017. This represents an average annual decrease of 2.3% between 2013 and 2017 (Table V).

Trends in the MDR percentage among new bacteriologically confirmed pulmonary TB cases and trends in the notification rate have differed significantly by country in recent years (Table V). The proportion of MDR among new pulmonary TB cases decreased slightly in the EU/EEA subregion over the last five years, from 2.6% to 2.4%, and the rate of notified MDR-TB cases remained stable at around 0.1 case per 100 000 population. The MDR percentage among new bacteriologically confirmed pulmonary TB cases in the non-EU/EEA countries and areas increased from 16.8% in 2013 to 18.1% in 2017 but remains stable, ranging within the 2% difference during the last five years.

Thirty-six countries reported on second-line DST data in 2017. The Russian Federation accounts for more than half of MDR-TB cases notified in the Region. The country has

been reporting second-line DST coverage since 2016, which substantially increases the total number of laboratoryconfirmed MDR-TB cases and the number of cases tested for second-line drug susceptibility. Most countries have second-line DST coverage close to 100%.

Data on second-line DST were available for about 91.3% of all notified MDR-TB cases. Of the 33 530 MDR-TB cases subjected to second-line DST, 6759 (18.6%) were XDR-TB

XDR-TB cases among those with MDR-TB are rising in absolute numbers: 575 cases were notified among pulmonary MDR-TB cases in 2013 and 5591 in 2017 (Table VIII).

In EU/EEA countries, where 74% of MDR-TB cases were tested for second-line drugs, the prevalence of XDR among MDR cases was 24.3%.

Among the countries reporting at least 30 MDR cases with second-line DST results, eight reported over 20% XDR prevalence among MDR-TB cases: Tajikistan (54.2%), Uzbekistan (52.8%), Belarus (48.3%), Latvia (39.1%), Lithuania (34.9%), Romania (30.8%), Estonia (26.5%) and Ukraine (21.7%) (Table 14). It should be noted, however, that Tajikistan and Uzbekistan reported low coverage of first-line DST, and the XDR-TB prevalence might be overestimated in these countries.

There is no clear trend of XDR-TB prevalence in countries with a long history of second-line drug DST surveillance among pulmonary MDR-TB cases (with data reported every year from 2013 to 2017). An alarming increase in XDR was observed in Belarus in 2016, reaching 45.9% of XDR prevalence, but this decreased to 31.5% in 2017 (Table VIII). An increasing trend in XDR-TB has been observed in Estonia, Latvia, Romania, Lithuania and Armenia, while XDR prevalence among MDR-TB cases remained stable in Georgia over the past five years at around 16-18% (Table 14).

Of the 47 697 RR/MDR-TB patients notified, 43 852 (91.9%) were enrolled into MDR-TB treatment programmes. Six HPCs reported a gap of over 5% between the number of patients enrolled and the number diagnosed: Turkey (80.2%), the Russian Federation (83.2%), Kyrgyzstan (85.0%), Azerbaijan (85.2%), Georgia (93.2%) and Estonia (94.4%) (Table 15).

Access to XDR-TB treatment in 2016 at regional level was 88.5%, which is higher than the 76.6% treatment coverage reported in the previous year. This trend is influenced by the Russian Federation, as it includes more than half of XDR-TB patients detected in the Region.

European Region, 2017 < 2

Map 2. Percentage of notified TB cases with multidrug resistance among new laboratory confirmed pulmonary TB cases,

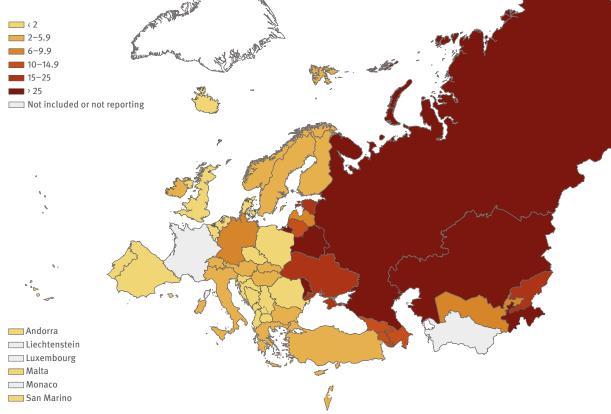


Fig. 2. Percentages of MDR among laboratory-confirmed pulmonary TB cases, European Region, 2013–2017

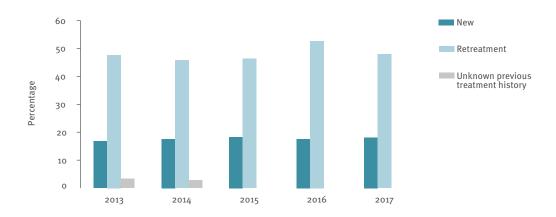


Fig. 3. Percentages of MDR among laboratory-confirmed pulmonary TB cases by previous treatment history, EU/EEA, 2013–2017

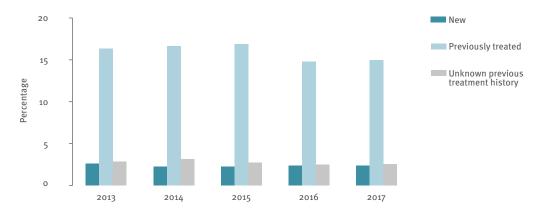
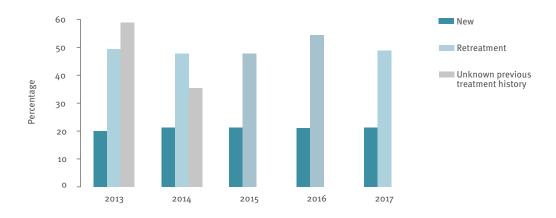


Fig. 4. Percentages of MDR among laboratory-confirmed pulmonary TB cases, 18 HPCs, 2013–2017



#### **TB/HIV** coinfection

Forty-three countries provided surveillance data on TB/HIV coinfection (Table 16). Of the 215 482 new and relapse TB patients notified in the reporting countries, 196 912 were screened for HIV (91.4%). Ten HPCs achieved a testing level above 90%: Armenia, Azerbaijan, Belarus, Estonia, Georgia, the Republic of Moldova, the Russian Federation, Tajikistan, Ukraine and Uzbekistan. A total of 25 153 TB cases were detected with HIV-positive status, representing 12.8% of those tested versus 13.4% recorded in 2016.

Among countries reporting representative HIV testing (above 50% HIV testing coverage), four documented a significant overlap of the HIV and TB epidemics by exceeding 10% HIV prevalence among new and relapse TB cases (Table 16): Ukraine (22.4%), the Russian Federation (19.3%), Portugal (10.9%) and Latvia (10.8%). Eight countries with representative routine surveillance had 5–10% HIV prevalence among TB patients: the Republic of Moldova (8.3%), Estonia (8.2%), Belgium (8.0%), Armenia (7.9%), Spain (7.4%), Belarus (7.3%), Uzbekistan (5.6%) and Israel (5.1%).

Twenty-two countries in the Region provided information on ART enrolment among TB cases with HIV-positive status in 2017. Of 25 153 HIV-positive TB cases, 16 754 (66.6%) had received ART. This is somewhat higher than in 2015 (65.1%), but far below the WHO target of universal ART coverage. Eleven of the HPCs achieved coverage of over 75%: Armenia, Azerbaijan, Belarus, Bulgaria, Estonia, Georgia, Kazakhstan, Romania, Tajikistan, Turkey and Uzbekistan.

#### **Origin of cases**

TB cases of foreign origin represent 7.9% of all TB cases notified Region-wide: 33.1% in EU/EEA countries, and only 1.9% in non-EU/EEA countries and areas (Table 10). TB cases of foreign origin represent a large majority in many countries: Malta (92.9%), Sweden (90.0%), Norway (88.5%), Israel (81.2%), Switzerland (79.8%), Luxembourg (78.1%), the Netherlands (74.5%) and Cyprus (71.7%).

#### **TB** in prisons

Twenty-nine countries in the Region provided information on TB case detection and treatment in prisons during 2017 (Table 17). Overall, 10 843 (5.3%) of the new and relapse TB cases in the Region were reported from prisons, 10 446 (96.3%) of which were in the HPCs. The proportion of TB cases in prisons represented only 1.6% of the country total in EU/EEA countries; the proportion was 6.1% in non-EU/EEA countries and areas. The notification rate in prisons in the non-EU/EEA countries and areas was 956 new TB cases per 100 000 population, which is about six times higher than in the EU/EEA subregion (155 per 100 000). The overall notification rate for new TB cases in prisons in the WHO European Region was 752 per 100 000 population. The TB notification rate exceeded 1000 cases per 100 000 detainees in six countries: Azerbaijan, Kazakhstan, Kyrgyzstan, the Republic of Moldova, the Russian Federation and Ukraine. The highest TB-related risks in prison (relative to incidence in the general population) are calculated to be in Slovakia (52.3), Azerbaijan, Latvia and the Russian Federation (23 each).

#### **Treatment outcome**

The treatment success rate among 198 384 new TB cases and relapses having started treatment in 2016 was 77.2% (Table 19). The average rate of patients cured and treated for the 18 HPCs was 78.5%. The treatment success rate was slightly lower in the EU/EEA countries than in non-EU/EEA countries and areas (75.6% versus 77.7%), both showing slight improvement compared to the previous year. Only 15 countries achieved an 85% treatment success rate in this treatment cohort. Another 13 were close to the target, with success rates of 80–85%. Five countries had treatment success rates below 60%, with a very high proportion of cases not evaluated.

A total of 15 978 (8.1%) cases were reported to have died in the same cohort, 4.6% to have been lost to follow-up and 3.9% to have had treatment that failed. These unfavourable outcomes were lower in the EU/EEA countries than in the rest of the Region, exemplified by the proportion of patients with failed treatment – 0.6% in the EU/EEA countries versus 4.8% in non-EU/EEA countries and areas (Table 19). Countries reporting fatal outcomes in excess of 10% were Croatia (15.5%), the Czech Republic (16.4%), Estonia (15.7%), Hungary (11.9%), Montenegro (12.6%), the Russian Federation (10.1%) and Slovenia (20.3%): the Russian Federation accounted for almost half of the deaths in the Region in absolute numbers.

The treatment success rate among the 7081 child TB cases in the 2016 cohort was 92.8% (Table 20). The treatment success rate in EU/EEA countries was somewhat lower compared to the non-EU/EEA countries and areas (88.2% versus 94.2%). Among child TB cases in the Region, 0.8% died, another 0.8% failed and 1.1% were lost to follow-up.

Of 7599 TB/HIV coinfected patients who started treatment throughout the Region in 2016, only 4778 (62.9%) had a successful treatment outcome (Table 21). Treatment outcome data are available only for 29% of notified HIV/TB cases.

The treatment outcome was notified for the 2015 cohort of 46 193 laboratory-confirmed RR/MDR-TB cases reported by 47 countries (Table 22). The treatment success rate for the whole Region was 57.2%, which is higher than the 54.7% rate reported for the 2014 RR/MDR-TB treatment cohort and continues to show the annual trend of improvement. The treatment success rate for RR/MDR-TB patients was higher in non-EU/EEA countries and areas than in the EU/EEA countries (57.4% versus 47.3%). The countries that performed best were Belgium (100%), Austria and Sweden (both 92.3%). In the Region as a whole, 14.3% of RR/MDR-TB cases died, 12.0% failed and 10.2% were lost to follow-up.

#### **Conclusions for the WHO European Region**

As in past years, the fastest annual decline in TB incidence in the world in 2017 was observed in the WHO European

Region (5.2%), but it is less than the projected acceleration of the decline needed to reach the End TB Strategy milestone by 2025.

There were an estimated 24 000 TB deaths among people who were HIV-negative in 2017, with considerable variation across the Region, and 83% of TB deaths were attributed to the 18 HPCs. Twelve per cent of incident TB cases were estimated to be coinfected with HIV, marking the first year of halted growth after the unprecedented increase from 3% to 12% during 2007–2016. Two countries, the Russian Federation and Ukraine, account for almost 80% of the estimated TB/HIV coinfected patients in the Region.

Eighty-eight per cent of the estimated new and relapse cases were notified in the Region in 2017, substantially higher than the global detection rate of 64%.

The Region faces the issue of the high burden of RR/MDR-TB. Nine of the 30 countries with the highest RR/MDR-TB burden in the world are in the WHO European Region (Azerbaijan, Belarus, Kazakhstan, Kyrgyzstan, the Republic of Moldova, the Russian Federation, Tajikistan, Ukraine and Uzbekistan). Around 110 000 people in the Region are estimated to become ill with RR/MDR-TB each year, and it is of the utmost importance to have capacity at country level to rapidly detect resistant TB. Laboratory confirmation among new and relapse pulmonary TB cases increased from 57% in 2013 to 65% in 2017, mainly due to the growing uptake of the WRD. The three-year trend shows increased use of rapid diagnostics in the Region; 51% of incident TB cases were tested using this platform in 2017, compared to 22% in 2015.

Overall, most countries achieved 85% or higher coverage of first-line DST among bacteriologically confirmed pulmonary TB cases, but countries should aim to have universal coverage. Ninety-one per cent of all notified MDR-TB cases in the Region had second-line DST available, with most countries reporting coverage close to 100%.

TB is a major cause of death among people living with HIV, so rapid detection and appropriate treatment are vital. In 2017, 76% of an estimated 34 000 HIV patients coinfected with TB were detected, and 65% of them were offered ART. Only about 29% of coinfected patients notified in 2016 had TB treatment outcomes available in 2017. This underlines the need to strengthen collaboration between TB and HIV programmes and surveillance of coinfection in the Region.

Most of the countries have universal access to TB and MDR-TB treatment. Ninety-two per cent of RR/MDR-TB cases and 89% of XDR-TB cases notified in 2017 were enrolled into the respective treatment programmes. The regional average is heavily influenced by the Russian Federation, as it includes more than half of all MDR-TB and XDR-TB patients detected in the Region.

Comparing TB treatment outcomes collected in 2016 to 2018, a slow but sustainable increase is documented in both incident TB and RR/MDR-TB cohorts, from 75.8% to 77.2% and 48.7% to 57.2% respectively.

# **European Union and European Economic Area countries**

#### **Data completeness**

TB notification data for 2017 were reported by all 31 countries. The reporting of non-mandatory variables in 2017 was complete or near-complete for age, gender, TB site and variables defining the origin of a case (Annex 3). Previous treatment history was available for 82.1% of cases, which was higher than in the 2018 report (76.8%) but lower than that reported in the reports published in 2015–2017 (89.6%, 87.7% and 84.3% respectively). The over 80% completeness for this variable also masked substantial differences across countries: for example, previous treatment history was not available from Luxembourg and only available for 6.3% of cases from Germany.

The reporting completeness for culture results (82.5%) was similar to that reported for 2016 data (82.2%), with only five countries remaining below 75.0% (France, Greece, Ireland, Portugal and the United Kingdom). Reporting completeness for microscopy (82.9%) was higher than that reported for 2016 data (72.5%) in contrast to the decline reported in the previous three years. For 2017, drug-susceptibility reporting completeness was 72.5% for the first-line TB drugs isoniazid and rifampicin. Notably, no adequate data on DST were available from France and Italy. Second-line DST reporting completeness was 100% for countries that reported at least one MDR-TB case. Four countries (Croatia, Iceland, Liechtenstein and Malta) reported no MDR-TB cases (Table 13).

The number of countries reporting HIV status increased from 20 in 2016 to 23. HIV status was available for 46.2% of all cases reported in 2017, which is the highest proportion reported in the last five years. As in the previous annual report, Austria, Finland, France, Germany, Italy, Liechtenstein, Poland and Sweden did not report HIV status. Furthermore, HIV status reporting completeness was less than 10% for Croatia, Hungary and Luxembourg.

In 2017, treatment outcome at 12 months, 24 months and 36 months was available for 82.5% of all reported cases, 98.1% of MDR-TB and 100% of XDR-TB cases respectively. Treatment outcome was not reported by Greece, Italy, Luxembourg or Malta, and was not reported for MDR-TB cases by Spain.

#### Time and place

In 2017, 55 337 cases of TB were reported in the 31 EU/EEA countries (Table 3). As in the previous five years, three countries (Poland, Romania and the United Kingdom) accounted for nearly 45% of all reported cases, with Romania alone accounting for 23.5% of all TB cases reported in 2017.

The EU/EEA notification rate in 2017 was 10.7 per 100 000 population, continuing the downward trend observed since the launch of European enhanced TB surveillance in 1996

(Fig. 5). During the period 2013–2017, the average annual decline in the notification rate was 4.5%.

As reported for previous years, country-specific notification rates differed considerably in 2017, ranging from 2.6 in Liechtenstein to 66.2 per 100 000 in Romania. Rates were below 10 per 100 000 in 24 countries and below 20 per 100 000 in 27 countries. The highest notification rates in the EU/EEA were reported from Bulgaria, Estonia, Latvia, Lithuania, Poland, Portugal and Romania (Table 3).

Notification rates in the majority of countries have fallen since 2013 (Table 3). The downward trend was particularly pronounced in Estonia, Latvia, Norway and Slovakia, where the average annual rate of decrease exceeded 10%. Two of these countries (Estonia and Latvia) are WHO HPCs and EU/EEA Member States.

# Previous treatment, laboratory confirmation and TB site

The distribution of cases by previous treatment history was similar in 2017 to that reported in previous years: 39 903 (72.1%) of 55 337 TB cases reported in 2017 were newly diagnosed, 5556 (10.0%) had been previously treated for TB and 9878 (17.9%) had an unknown previous treatment status (Table 5). The Member States with the lowest proportions of new cases had the highest proportions of cases with unknown previous treatment status. The proportion of previously treated cases was above 20% in one country (Romania) and more than 10% in another nine: Bulgaria, Estonia, Greece, Hungary, Iceland, Latvia, Lithuania, Poland and Slovakia.

Laboratory confirmation was reported for 37 700 (68.1%) of the 55 337 TB cases reported in 2017 (Table 8). Country-specific proportions of laboratory-confirmed cases ranged from 47.6% in Bulgaria to 97.3% in Slovenia and 100% in Liechtenstein. Of the five HPCs, the three Baltic States (Estonia, Latvia and Lithuania) had proportions of confirmed cases above 80%. The increasing proportion of laboratory-confirmed TB cases reported in the previous five years (61.9% in 2012 to 71.0% in 2016) did not continue in 2017.

Of all 55 337 TB cases reported in 2017, 38 088 (68.8%) were diagnosed with pulmonary TB, 12 483 (22.6%) with extrapulmonary TB, 4323 (7.8%) with a combination of both and 443 (0.8%) had no TB site reported (Table 6). The proportion of extrapulmonary TB was highest in the Netherlands (41.7%), Norway (39.5%) and the United Kingdom (45.0%), and lowest in Hungary (3.9%) and Liechtenstein (0%).

Of 40 704 new and relapse pulmonary TB cases reported in 2017, 32 725 (80.4%) were confirmed by culture, smear and/or nucleic acid amplification test (Table 7). Hungary reported the highest proportion of new and relapse pulmonary TB cases diagnosed only clinically (46.6%), followed by Bulgaria (34.0%).

According to the EU case definition, 37 700 (68.1%) of 55 337 TB cases reported in 2017 would be classified as confirmed, 4466 (8.1%) as probable and 13 171 (23.8%) as possible (Table 8). Five countries reported less than one tenth of their TB cases as possible cases (that is, only clinically diagnosed). When analysing all reported TB cases for the percentage of clinically diagnosed cases, Hungary

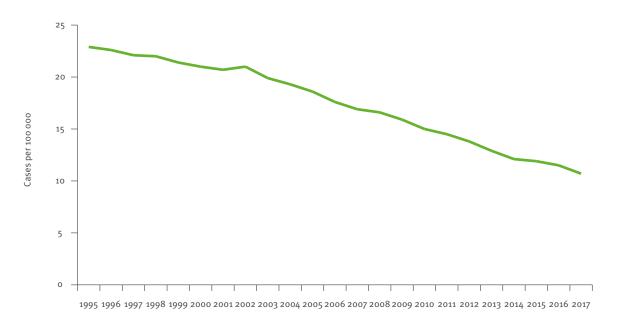


Fig. 5. TB notifications per 100 000 population by year of reporting, EU/EEA, 1995–2017

Source: ECDC.

remained the country with the highest proportion (47.2%), followed by Bulgaria (43.9%). It is unclear if the high proportion of only clinically diagnosed cases reflects a potential risk that TB is being overdiagnosed in these countries, or if it is related to underreporting of laboratory results to the national surveillance systems.

#### Age and sex

Of 52 836 new TB cases and relapses reported in 2017, 33 664 (63.7%) were aged between 25 and 64 years (Table 9). The highest notification rate was observed in the age group 25–44 years (12.9 per 100 000). Overall, adults over 64 years accounted for less than 20% of all cases, but more than one third of all cases reported by Croatia, Finland and Slovenia were in this age group.

Children under 15 years accounted for 2340 (4.4%) of 52 836 new TB cases and relapses reported in 2017 and had a lower notification rate than the adult age groups (Table 9). The notification rate for all TB cases in children under 15 years of age was 2.9 per 100 000 (Table III). Three countries (Bulgaria, Lithuania and Romania) reported notification rates of more than 10 per 100 000 children under 15 years. More specifically, the highest rates of new and relapse TB cases among 0-4-year-olds were noted in Bulgaria and Romania, and the highest rates for 5-14-year-olds were reported from Bulgaria, Lithuania and Romania.

In 2017, the male-to-female ratio in new TB cases and relapses was 1.9, higher than the ratio reported in 2016 (Table 9). More male than female new and relapse TB cases were reported by all EU/EEA Member States but one (Cyprus). For children under 15 years, the male-to-female ratio among new and relapsed cases was 1.1.

### **Origin of cases**

Of the 55 337 TB cases notified in 2017, 35 446 (64.1%) were born in, or were citizens of, the reporting country (referred to as "native"), 18 299 (33.1%) were of foreign origin and 1592 (2.9%) were of unknown origin (Table 10). From countries with TB notification rates higher than 10 per 100 000 population, 20% or less were reported as being of foreign origin. The annual number and proportion of native TB cases has declined since 2013 (from 45 162 to 35 446, and from 68.7% to 64.1% respectively) (Table IV). The proportion of TB cases of foreign origin increased over the same period from 27.1% in 2013 to 33.1% in 2016 and 2017, while the proportion of cases of unknown origin decreased. Of the 18 299 cases of foreign origin in 2017, 10 636 (58.1%) were reported by France, Germany and the United Kingdom. Country-specific proportions of foreignorigin TB cases ranged from below 1% in Bulgaria, Croatia, Liechtenstein and Romania to above 80% in Malta, Norway and Sweden.

#### **Drug resistance**

Annex 5 displays participation and performance in an EQA scheme for DST by Member State.

Of 32 266 laboratory-confirmed TB cases notified in 2017, 27 339 (84.7%) had isoniazid and rifampicin susceptibility

testing results reported (Table 13). Resistance to at least one anti-TB drug was reported for 2985 (10.9%) of the cases with results for at least isoniazid and rifampicin susceptibility, and for 20.4–39.4% of cases with results in Estonia, Greece, Latvia and Lithuania. Overall, MDR-TB was reported for 1041 (3.8%) of 27 339 cases with the relevant DST results, with the highest proportion reported in Estonia, Latvia and Lithuania (10.6–25.4%). After remaining at 0.3 per 100 000 population from 2013 to 2016, the rate of notified MDR-TB cases decreased to 0.2 in 2017 (Table VII).

Overall, XDR-TB was reported for 187 (24.3%) of 770 MDR-TB cases with results for second-line DST (Table 14). Latvia, Lithuania and Romania reported 80.2% of all reported XDR-TB cases. The proportion of XDR-TB cases among pulmonary MDR-TB cases with results for second-line DST increased from 18.6% in 2013 to 24.6% in 2017 (Table VIII). During that period, Lithuania and Romania reported more than 45% of the pulmonary XDR-TB cases annually.

Of 19 476 new confirmed pulmonary TB cases with DST results, 459 (2.4%) were resistant to isoniazid and rifampicin (Table 12). In contrast, 501 (15.0%) of 3350 previously treated confirmed pulmonary TB cases with DST results were resistant to isoniazid and rifampicin. Compared with new pulmonary cases, previously treated pulmonary TB cases had a six times higher risk of being reported as resistant to isoniazid and rifampicin.

#### **HIV** coinfection

HIV status was reported for 25 583 (76.0%) of 33 661 TB cases reported from the 23 countries that reported HIV status of TB cases (Table 16a). Of the 25 583 cases with known HIV status, 1006 (3.9%) were reported as HIV positive. The proportion of coinfected cases among countries with at least 50% reporting completeness for HIV status was highest in Estonia, Latvia and Portugal, at 8.6%, 11.0% and 11.4% respectively. Data reported over the last five years show a decreasing proportion of HIV coinfected TB cases (Table IX).

#### **TB** in prisons

For 2017, 15 EU/EEA countries reported 570 new and relapse TB cases in prisons, resulting in a notification rate of 155 per 100 000 inmates and a relative risk of 11.4 compared to the general population in the same countries (Table 17). TB cases in prisons accounted for 1.6% of all new and relapse cases notified in the 15 reporting EU/EEA countries, but this proportion was above 4% in the Czech Republic, Lithuania and Slovakia.

#### **Treatment outcome**

Of all 54 612 TB cases notified in 2016 with a treatment outcome reported in 2017, 38 614 (70.7%) were treated successfully, 3997 (7.3%) died, 457 (0.8%) experienced treatment failure, 2518 (4.6%) were lost to follow-up, 1965 (3.6%) were still on treatment in 2017 and 7061 (12.9%) were not evaluated (Table 18). Greece, Italy, Luxembourg and Malta did not report treatment outcome. Among the 41 486 TB cases notified in 2016 and classified as new

and relapse cases, including those with unknown previous treatment history and excluding those that were started on second-line treatment, 31 350 (75.6%) were treated successfully (Table 19). In countries where at least 75% of these new confirmed TB cases and relapses had a known outcome, treatment success ranged from 58.4% in Croatia to 100.0% in Liechtenstein. The overall proportion of successfully treated cases among these new TB cases and relapses decreased from 77.2% in cases notified in 2012 to 75.6% in 2016 (Table X). In four countries (Croatia, the Czech Republic, Estonia and Slovenia), over 15.0% of the new and relapse cases notified in 2016 died, including those with unknown previous treatment history and excluding those started on second-line treatment. In contrast, the proportion was less than 10.0% in 20 of the 25 countries that reported treatment outcome for this cohort.

Of 1217 MDR-TB cases notified in 2015 with a treatment outcome reported in 2017, 545 (44.8%) were treated successfully, 197 (16.2%) died, 188 (15.4%) experienced treatment failure, 149 (12.2%) were lost to follow-up, 55 (4.5%) were still on treatment in 2017 and 83 (6.8%) were not evaluated (Table 23). Apart from the countries that did not report treatment outcome data or data on DST, notably Cyprus, Iceland, Liechtenstein, Luxembourg and Slovenia did not report any MDR-TB cases for 2015. Overall, the 24-month treatment success rate for RR/MDR-TB remains low, although it has improved (from 40.7% for cases reported in 2011 to 47.3% for cases reported in 2015) (Table XII).

Thirteen countries reported 170 XDR-TB cases for 2014 and a treatment outcome for these cases in 2017: 47 (27.6%) were treated successfully, 44 (25.9%) died, 43 (25.3%) experienced treatment failure, 18 (10.6%) were lost to follow-up, and 18 (10.6%) were not evaluated (Table 25). Overall, the 36-month XDR-TB treatment success rate remains low; variations over time should be interpreted with caution due to the small number of cases (Table XIV).

Of 717 HIV-positive TB cases notified in 2016 who were not started on second-line treatment and had a treatment outcome reported in 2017, 452 (63.0%) were reported as successfully treated, 98 (13.7%) died, four (0.6%) experienced treatment failure, 53 (7.4%) were lost to follow-up, 83 (11.6%) were still on treatment in 2017 and 27 (3.8%) were not evaluated (Table 21).

## WHO disease burden estimates

According to WHO, the estimated TB incidence in the EU/EEA overall (excluding Liechtenstein) was 11.9 per 100 000 population in 2017. The incidence in 20 of the 30 countries with estimates was less than 10.0 per 100 000 population and was estimated to be less than 20.0 per 100 000 population in 25 countries (Table II). The overall number of estimated TB deaths, excluding HIV deaths in people who were HIV positive, was 4000 for the EU/EEA in 2017, a decrease compared to the 4200 estimated for 2016 and the 6700 estimated for 2008 (Table I).

# Conclusions for the European Union/European Economic Area

In 2017, all EU/EEA countries reported TB notification data. The overall TB notification rate continued the decline observed since 2002 and reached 10.7 per 100 000 population. As in previous years, a few countries reported large numbers of cases, including Romania, which accounted for 23.5% of all reported cases in 2017.

Overall, the decreasing notification rates observed in most countries are reassuring, but when the situation is evaluated based on the aim to reach an 80% reduction in the TB incidence rate in 2030 compared to 2015 (a United Nations Sustainable Development Goal 3 target), the challenge ahead becomes evident. The target at EU/EEA level is a notification rate of 2.4 per 100 000 (80% reduction of 2015 TB notification rate of 11.9 per 100 000). Though the EU/EEA TB notification rate has declined since 2015, so far it has only reached 10.7 per 100 000. Furthermore, if the mean annual change in rate (2013–2017) in low-incidence EU/EEA countries continues at the current pace, WHO calculations (2) suggest the WHO target of TB elimination by 2050 in European low-incidence countries will not be met by approximately four fifths of the countries currently in this group.

In many low-incidence countries, a large proportion of TB cases is of foreign origin. Notably, more than half of all TB cases reported in two thirds of the low-incidence EU/EEA countries were of foreign origin. In the EU/EEA overall, the proportion of cases of foreign origin remained around one third of all TB cases. A recently published ECDC public health guidance document concluded that screening for active TB or latent TB infection among newly arrived migrants from high-incidence countries is likely to be both effective and cost-effective for TB disease prevention (3). Nonetheless, the fact that overall the majority of cases notified in the EU/EEA were native cases should not be overlooked.

Data on HIV coinfection remained incomplete in the EU/EEA. Although the number of countries reporting HIV status was higher than in 2016, HIV status was reported for less than half of all reported TB cases, limiting the conclusions that can be drawn. Since 2013, the proportion of HIV coinfected TB cases has been decreasing, and was 3.9% in 2017 for the EU/EEA overall.

Data on TB in prisons remain even scarcer for the EU/EEA than data on HIV status. Only 15 countries provided such data for 2017. Although the proportion of inmates among all new and relapse TB cases in these countries was low, the data indicate that inmates face an 11.4 times higher risk than the general population of being reported as a TB case. ECDC and European Monitoring Centre for Drugs and Drug Addiction public health guidance concluded in 2018 that despite limited evidence, but given current TB knowledge and the characteristics of prison settings, it is advisable to offer universal testing for active TB at prison entry so that treatment can be initiated and transmission prevented (4).

A decline in the overall MDR-TB notification rate among cases with relevant DST results was seen in the EU/EEA in 2017, and the number of XDR-TB cases was low compared to the total number of reported TB cases. Given the high number of drug-resistant TB cases in the European Region HPCs bordering the EU/EEA, however, countries need to remain vigilant and prepared to diagnose and treat drug-resistant TB.

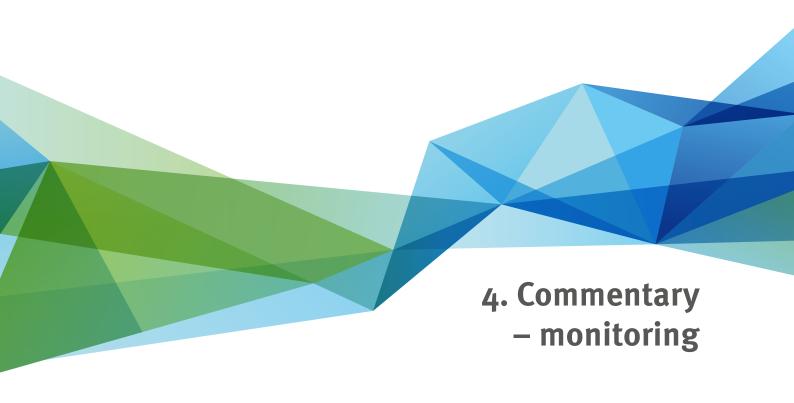
The surveillance data indicate that treatment success rates after 12 months are considerably below the WHO target of 85% (5). Moreover, although the success rate for MDR-TB has improved, the treatment success rate after 24 months is low, as is the treatment success rate after 36 months for XDR-TB.

Lastly, ECDC notes that at a United Nations high-level meeting on 26 September 2018, the EU/EEA countries reaffirmed their commitment to ending the epidemic in all countries (6). The TB situation reflected in this report indicates that the countries face several challenges in reaching this goal and need to intensify their public health measures against TB. As previously, ECDC remains committed to supporting the EU/EEA countries in these efforts.

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# 4. Commentary - monitoring

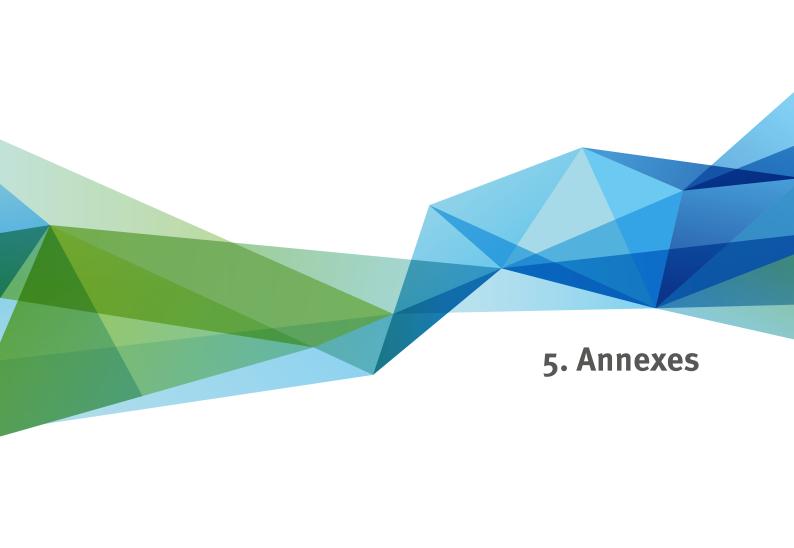
To address the challenges to TB and M/XDR-TB prevention and care, the WHO Regional Office for Europe, working in close consultation with representatives from the countries and areas, experts and communities, has developed the Tuberculosis action plan for the WHO European Region 2016–2020 (1). This action plan is based on lessons learned from implementing the seven areas of intervention in the Consolidated action plan to prevent and combat multidrugand extensively drug-resistant tuberculosis in the WHO European Region 2011–2015 (2) and is in line with the global End TB Strategy and other health policy guidance, such as the European policy for health and well-being, Health 2020 (3).

The Tuberculosis action plan for the WHO European Region 2016–2020 is supported by a monitoring and evaluation framework to monitor progress towards defined targets. The framework consists of 26 indicators that enable performance monitoring in the action plan's areas of intervention and follow on from the Berlin Declaration on Tuberculosis of 2007 (4). Nine are core indicators for monitoring and reporting to the WHO Regional Committee for Europe. In addition, the selection of indicators was harmonized with the End TB Strategy's recommended top-10 global indicators. The status of the core indicators, which is analysed on an annual basis, is included in the surveillance report every second year. The next update will be presented in the TB surveillance and monitoring in Europe 2020 report.

At the time of publication of this report, the World Health Organization was developing a multisectoral accountability framework to document progress on implementing the United Nations political declaration on TB (5) as agreed in World Health Assembly resolution WHA73.3 of 10 October 2018. WHO European Region Member States will be supported later on to adapt it to their settings.

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Annex 1. Tuberculosis surveillance system overview, EU/EEA, 2017

|                |                                      | Level              | C                      |      | National | Data a                    | vailable   |
|----------------|--------------------------------------|--------------------|------------------------|------|----------|---------------------------|--|
| Country        | Data source                          | Legal<br>character | Compre-<br>hensiveness | Туре | coverage | EuroTB<br>aggregated data | TESSy <sup>a</sup><br>case-based data <sup>b</sup> |
| Austria        | AT-TUBERKULOSEGESETZ                 | Ср                 | Co                     | С    | Υ        | -                         | 1995-2017  |
| Belgium        | BE-TUBERCULOSIS                      | Ср                 | Со                     | C    | Υ        | -                         | 1995-2017  |
| Bulgaria       | BG-MOH                               | Ср                 | Co                     | C    | Υ        | 1995-2006                 | 2007-2017  |
| Croatiac       | HR-CNIPH                             | Ср                 | Со                     | C    | Υ        | 1995-2007                 | 2012-2017  |
| Cyprus         | CY-NOTIFIED_DISEASES                 | Ср                 | Co                     | С    | Υ        | 1995-2001                 | 2002-2017  |
| Czech Republic | CZ-TUBERCULOSIS                      | Ср                 | Со                     | C    | Υ        | -                         | 1995-2017  |
| Denmark        | DK-MIS                               | Ср                 | Co                     | C    | Υ        | -                         | 1995-2017  |
| Estonia        | EE-TBC                               | Ср                 | Co                     | C    | Υ        | -                         | 1995-2017  |
| Finland        | FI-NIDR                              | Ср                 | Co                     | С    | Υ        | -                         | 1995-2017  |
| France         | FR-MANDATORY_INFECTIOUS_<br>DISEASES | Ср                 | Со                     | С    | Υ        | -                         | 1995-2017  |
| Germany        | DE-SURVNET@RKI-7.1/6                 | Ср                 | Co                     | C    | Υ        | 1995-2000                 | 2001-2017  |
| Greece         | EL-NOTIFIABLE_DISEASES               | Ср                 | Со                     | C    | Υ        | 1995-2001                 | 2002-2017  |
| Hungary        | HU-TUBERCULOSIS                      | Ср                 | Co                     | C    | Υ        | 1995-1998                 | 1999-2017  |
| Iceland        | IS-TUBERCULOSIS                      | Ср                 | Co                     | C    | Υ        | -                         | 1995-2017  |
| Ireland        | IE-CIDR                              | Ср                 | Co                     | C    | Υ        | 1995-1997                 | 1998-2017  |
| Italy          | IT-NRS                               | Ср                 | Со                     | C    | Υ        | -                         | 1995-2017  |
| Latvia         | LV-TB                                | Ср                 | Co                     | C    | Υ        | 1995-2000                 | 2001-2017  |
| Liechtenstein  | CH-SFOPH-LI                          | Ср                 | Со                     | C    | Υ        | -                         | 1995-2017  |
| Lithuania      | LT-TB_REGISTER                       | Ср                 | Co                     | С    | Υ        | 1995-2002                 | 2003-2017  |
| Luxembourg     | LU-SYSTEM1                           | Ср                 | Co                     | C    | Υ        | -                         | 1995-2017  |
| Malta          | MT-DISEASE_SURVEILLANCE              | Ср                 | Co                     | С    | Υ        | _                         | 1995-2017  |
| Netherlands    | NL-NTR                               | Ср                 | Co                     | C    | Υ        | -                         | 1995-2017  |
| Norway         | NO-MSIS_A                            | Ср                 | Co                     | С    | Υ        | -                         | 1995-2017  |
| Poland         | PL_CR                                | Ср                 | Co                     | C    | Υ        | 1995-1999                 | 2000-2017  |
| Portugal       | PT-TUBERCULOSIS                      | Ср                 | Co                     | С    | Υ        | 1995-1999                 | 2000-2017  |
| Romania        | RO-NTBSy                             | Ср                 | Co                     | C    | Υ        | -                         | 1995-2017  |
| Slovakia       | SK-NRT                               | Ср                 | Co                     | С    | Υ        | 1995                      | 1996-2017  |
| Slovenia       | SI-TUBERCULOSIS                      | Ср                 | Со                     | C    | Υ        | -                         | 1995-2017  |
| Spain          | ES-STATUTORY_DISEASES                | Ср                 | Co                     | С    | Υ        | 1995-2006                 | 2007-2017  |
| Sweden         | SE-SweTBReg                          | Ср                 | Со                     | C    | Υ        | -                         | 1995-2017  |
| United Kingdom | UK-TUBERCULOSIS                      | Ср                 | Co                     | C    | Υ        | 1995-1997                 | 1998-2017  |

Cp = compulsory reporting.
Cp = comprehensive.
C = case-based.
Y = yes.
\* TESSy = the European Surveillance System.
\* TESSy = the European Surveillance System.
\* To some years data from France, Spain and Italy related to drug-susceptibility testing have been collected in aggregated format from the WHO TB Monitoring and Evaluation database (TME).
\* Data reported since 2012 to TESSy, historical data extracted from WHO TB Monitoring and Evaluation database (TME).

## Annex 2. List of variables for 2017 tuberculosis data collection<sup>a</sup>

|      | List                        | Description   |
|------|-----------------------------|---|
| Comr | non set of variables        |   |
| 1    | RecordId                    | Unique identifier for each record generated by the national surveillance system   |
| 2    | RecordType                  | Structure and format of the data  |
| 3    | RecordTypeVersion           | Indicates which version the sender uses when generating the data for upload   |
| 4    | Subject                     | Disease to report   |
| 5    | Status                      | Status of reporting NEW/UPDATE or DELETE (inactivate)   |
| 6    | DataSource                  | The data source (surveillance system) that the record originates from   |
| 7    | ReportingCountry            | The country reporting the record  |
| 8    | PlaceOfNotification         | Place of the first notification of the case to a regional authority   |
|      | PlaceOfResidence            | Place of residence of patient at the time of disease onset  |
| 9    |                             | ·   |
|      | Age                         | Age of patient in years as reported in the national system  |
|      | Gender                      | Gender of the reported case   |
|      | DateOfDiagnosis             | First date of clinical or lab diagnosis   |
|      | DateOfNotification          | Date when the case is first reported to public health authorities   |
|      | DateUsedForStatistics       | The reference date used for standard reports (usually one of the above)   |
|      | ase-specific variables      |   |
|      | BornReportingCountry        | The patient was born in the country of report   |
|      | CountryOfBirth              | Country of birth of patient   |
| _    | CountryOfNationality        | Country of nationality of patient   |
| 18   | DateOfEntryToCountry        | Date of entry to country – for TB cases not born in the reporting country   |
| 19   | NationalityReportingCountry | Origin of the patient (based on citizenship)  |
| 20   | MajorSiteOfTB               | Major site of the disease   |
| 21   | MinorSiteOfTB               | Minor site of the disease   |
| 22   | PrevDiagnosis               | Previous diagnosis of tuberculosis  |
| 23   | PrevDiagnosisYear           | Year of previous diagnosis  |
|      | PrevTreatment               | Previous anti–TB drug treatment (at least one month of drug combination)  |
| 25   | PrevTreatmentCompletion     | Completion of the previous anti-TB drug treatment   |
|      | DiagnosedAnteMortem         | Vital status of the patient at the time of diagnosis  |
|      | EnrolledToTreatment         | Patient started appropriate TB treatment according to international recommendations   |
| ,    | Outcome12Months             | Patient first outcome at 12 months from the start of the treatment  |
|      |                             |   |
| -    | Outcome24Months             | The first outcome observed 13 to 24 months from the start of treatment  |
|      | Outcome36Months             | The first outcome observed 25 to 36 months from the start of treatment  |
|      | ResultCulture               | The result of the culture test for Mycobacterium tuberculosis complex   |
| -    | ResultMicroscopy            | The result of the microscopy test performed   |
|      | ResultOtherTest             | Additional lab test results   |
|      | Pathogen                    | Species and gene (M. tuberculosis complex) of the pathogen which is the cause of the reported disease   |
| 35   | HIVStatus                   | Result of the last HIV test   |
| 36   | SIR_AMK                     | Susceptibility to amikacin  |
| 37   | SIR_BDQ                     | Susceptibility to bedaquiline   |
| 38   | SIR_CAP                     | Susceptibility to capreomycin   |
| 39   | SIR_DLM                     | Susceptibility to delamanid   |
|      | SIR_ETH                     | Susceptibility to ethambutol  |
|      | SIR_GAT                     | Susceptibility to gatifloxacin  |
|      | SIR_INH                     | Susceptibility to isoniazid   |
|      | SIR_KAN                     | Susceptibility to kanamycin   |
|      | SIR_LVX                     | Susceptibility to levofloxacin  |
|      | SIR_MFX                     | Susceptibility to moxifloxacin  |
|      | SIR_OFX                     | Susceptibility to ofloxacin   |
|      |                             | Susceptibility to pyrazinamide  |
|      | SIR_PZA                     |   |
|      | SIR_RIF                     | Susceptibility to rifampicin  |
|      | SIR_STR                     | Susceptibility to streptomycin  |
| 50   | IsolateID                   | Unique identifier for each isolate within the data source/lab system related to the case  |
| 51   | ECDCIsolateID               | Identifier for each isolate record that is guaranteed to be unique across countries/labs/pathogens and not contain additional encoded information |
|      | SpoligoCode <sup>b</sup>    | Spoligo pattern code  |
| E 2  | MiruCode <sup>b</sup>       | MIRU pattern code   |
| 22   |                             |   |

Notification of TB cases for 2017, treatment outcome data updated for cohort 2016 and MDR-TB treatment outcome data updated for cohort 2014.
 Optional variable. No need to be reported if the "IsolateID" or "ECDCIsolateID" is provided.

Annex 3. Completeness of reported data, EU/EEA, reporting year 2017

Note: WHO European Region TB high-priority countries presented in Italics.

For determining the origin, two variables merged. Born Reporting Country, and NationalityReporting Country, depending on Member State's preference. For determining the origin, two variables merged. Born Reporting Country, and National State's previous treatment defined by previous diagnosis of TB for cases reported by Belgium, Denmark, Ireland, Norway and the United Kingdom.

DST RID = drug-susceptibility testing for the first-line anti-TB drugs, scalculated only for MDR-TB cases.

Data for the 2014 cohort cases that are previously reported as still on treatment.

Data for the XDR-TB case, cohort cases that are previously reported as still on treatment.

DST results are only reported for culture-confirmed cases.

Annex 4. Reporting completeness into Global TB database, 2017

| Country/area                         | Identification (%)<br>(15 fields) | Notification (%)<br>(54 fields) | Anti-tuberculosis<br>drug resistance<br>surveillance (%)<br>(40 fields) | Treatment outcome<br>of TB cases by risk<br>categories (%)<br>(57 fields) | Implementing End TB<br>Strategy (%)<br>(98 fields) | Budget and<br>expenditure (%)<br>(81 fields) |
|--------------------------------------|-----------------------------------|---------------------------------|---|---|--|--|
| EU/EEA                               |                                   |                                 | · · ·   |   |  |  |
| Austria                              | (66.7)                            | (63.0)                          | (85.0)  | (54.4)  | (11.2)   | (0.0)  |
| Belgium                              | (93.3)                            | (83.3)                          | (100.0)   | (100.0)   | (45.9)   | (3.7)  |
| Bulgaria                             | (93.3)                            | (92.6)                          | (100.0)   | (100.0)   | (73.5)   | (95.1)                                       |
| Croatia                              | (0.0)                             | (59.3)                          | (82.5)  | (43.9)  | (4.1)  | (0.0)  |
| Cyprus                               | (66.7)                            | (85.2)                          | (100.0)   | (54.4)  | (44.9)   | (4.9)  |
| Czech Republic                       | (73.3)                            | (88.9)                          | (100.0)   | (100.0)   | (56.1)   | (8.6)  |
| Denmark                              | (0.0)                             | (53.7)                          | (100.0)   | (64.9)  | (4.1)  | (0.0)  |
| Estonia                              | (100.0)                           | (92.6)                          | (100.0)   | (78.9)  | (81.6)   | (92.6)                                       |
| Finland                              | (73.3)                            | (87.0)                          | (85.0)  | (56.1)  | (48.0)   | (8.6)  |
| France                               | (93.3)                            | (83.3)                          | (80.0)  | (35.1)  | (44.9)   | (7.4)  |
| Germany                              | (93.3)                            | (63.0)                          | (85.0)  | (56.1)  | (43.9)   | (1.2)  |
| Greece                               | (0.0)                             | (59.3)                          | (100.0)   | (0.0)   | (4.1)  | (0.0)  |
| Hungary                              | (0.0)                             | (59.3)                          | (100.0)   | (64.9)  | (4.1)  | (0.0)  |
| Iceland                              | (0.0)                             | (59.3)                          | (82.5)  | (43.9)  | (4.1)  | (0.0)  |
| Ireland                              | (93.3)                            | (87.0)                          | (100.0)   | (100.0)   | (60.2)   | (4.9)  |
| Italy                                | (33.3)                            | (75.9)                          | (100.0)   | (0.0)   | (39.8)   | (0.0)  |
| Latvia                               | (100.0)                           | (92.6)                          | (100.0)   | (100.0)   | (73.5)   | (45.7)                                       |
| Liechtenstein                        | (100.0)                           | (72.0)                          | (100.0)   | (100.0)   | (/3.3)   | (43.7)                                       |
|                                      | (52.2)                            | (00 0)                          | (100.0)   | (100.0)   |  | (25.0)                                       |
| Lithuania<br>Luxembourg              | (53.3)<br>(100.0)                 | (88.9)<br>(79.6)                | (100.0)<br>(82.5)   | (100.0)   | (77.6)<br>(54.1)                                   | (25.9)                                       |
| -                                    |                                   |                                 |   |   |  | (2.5)  |
| Malta<br>Netherlands                 | (40.0)                            | (92.6)                          | (82.5)  | (35.1)  | (39.8)   | (2.5)  |
|                                      | (100.0)                           | (92.6)                          | (100.0)   | (100.0)   | (54.1)   | (7.4)  |
| Norway                               | (66.7)                            | (53.7)                          | (100.0)   | (64.9)  | (4.1)  | (0.0)  |
| Poland                               | (93.3)                            | (83.3)                          | (85.0)  | (78.9)  | (44.9)   | (0.0)  |
| Portugal                             | (60.0)                            | (87.0)                          | (100.0)   | (100.0)   | (42.9)   | (8.6)  |
| Romania                              | (100.0)                           | (90.7)                          | (100.0)   | (100.0)   | (88.8)   | (100.0)                                      |
| Slovakia                             | (73.3)                            | (92.6)                          | (100.0)   | (100.0)   | (72.4)   | (11.1)                                       |
| Slovenia                             | (0.0)                             | (59.3)                          | (100.0)   | (43.9)  | (4.1)  | (0.0)  |
| Spain                                | (0.0)                             | (72.2)                          | (80.0)  | (64.9)  | (4.1)  | (0.0)  |
| Sweden                               | (73.3)                            | (85.2)                          | (85.0)  | (56.1)  | (51.0)   | (7.4)  |
| United Kingdom                       | (100.0)                           | (85.2)                          | (100.0)   | (100.0)   | (49.0)   | (1.2)  |
| Subtotal EU/EEA                      | (59.4)                            | (75.7)                          | (90.8)  | (61.5)  | (39.7)   | (14.2)                                       |
| Non-EU/EEA                           | ()                                | ()                              | (   | ()  | (15.3)   | (1.7)  |
| Albania                              | (100.0)                           | (88.9)                          | (100.0)   | (82.5)  | (68.4)   | (6.2)  |
| Andorra                              | (60.0)                            | (92.6)                          | (100.0)   | (100.0)   | (56.1)   | (8.6)  |
| Armenia                              | (100.0)                           | (100.0)                         | (100.0)   | (100.0)   | (69.4)   | (92.6)                                       |
| Azerbaijan                           | (93.3)                            | (94.4)                          | (47.5)  | (68.4)  | (62.2)   | (17.3)                                       |
| Belarus                              | (100.0)                           | (98.1)                          | (95.0)  | (100.0)   | (75.5)   | (77.8)                                       |
| Bosnia and Herzegovina               | (100.0)                           | (85.2)                          | (82.5)  | (49.1)  | (59.2)   | (86.4)                                       |
| Georgia                              | (100.0)                           | (98.1)                          | (85.0)  | (100.0)   | (86.7)   | (96.3)                                       |
| Israel                               | (100.0)                           | (88.9)                          | (100.0)   | (66.7)  | (39.8)   | (1.2)  |
| Kazakhstan                           | (100.0)                           | (96.3)                          | (80.0)  | (66.7)  | (61.2)   | (95.1)                                       |
| Kyrgyzstan                           | (100.0)                           | (96.3)                          | (55.0)  | (100.0)   | (77.6)   | (100.0)                                      |
| Monaco                               | (0.0)                             | (0.0)                           | (0.0)   | (0.0)   | (4.1)  | (0.0)  |
| Montenegro                           | (86.7)                            | (98.1)                          | (100.0)   | (56.1)  | (60.2)   | (8.6)  |
| North Macedonia                      | (100.0)                           | (96.3)                          | (100.0)   | (100.0)   | (89.8)   | (29.6)                                       |
| Republic of Moldova                  | (100.0)                           | (100.0)                         | (100.0)   | (100.0)   | (91.8)   | (100.0)                                      |
| Russian Federation                   | (53.3)                            | (94.4)                          | (52.5)  | (89.5)  | (62.2)   | (100.0)                                      |
| San Marino                           | (93.3)                            | (90.7)                          | (100.0)   | (66.7)  | (67.3)   | (11.1)                                       |
| Serbia                               | (100.0)                           | (94.4)                          | (67.5)  | (99.1)  | (77.6)   | (100.0)                                      |
| Serbia excluding Kosovo <sup>a</sup> | (100.0)                           | (96.3)                          | (82.5)  | (98.2)  | (82.7)   | (100.0)                                      |
| Kosovo <sup>a</sup>                  | (100.0)                           | (92.6)                          | (52.5)  | (100.0)   | (72.4)   | (100.0)                                      |
| Switzerland                          | (93.3)                            | (63.0)                          | (67.5)  | (56.1)  | (44.9)   | (11.1)                                       |
| Tajikistan                           | (100.0)                           | (98.1)                          | (100.0)   | (89.5)  | (73.5)   | (100.0)                                      |
| Turkey                               | (100.0)                           | (88.9)                          | (100.0)   | (100.0)   | (84.7)   | (25.9)                                       |
| Turkmenistan                         | (86.7)                            | (66.7)                          | (7.5)   | (35.1)  | (68.4)   | (24.7)                                       |
| Ukraine                              | (100.0)                           | (90.7)                          | (55.0)  | (100.0)   | (82.7)   | (97.5)                                       |
| Uzbekistan                           | (100.0)                           | (100.0)                         | (72.5)  | (31.6)  | (89.8)   | (81.5)                                       |
| Subtotal non-EU/EEA                  | (94.2)                            | (91.9)                          | (79.1)  | (80.7)  | (70.7)   | (59.6)                                       |
| Total European Region                | (74.2)                            | (82.6)                          | (85.8)  | (71.5)  | (52.9)   | (33.5)                                       |
| Subtotal 18 HPCs                     | (89.3)                            | (87.0)                          | (79.6)  | (78.0)  | (70.4)   | (51.5)                                       |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics. HPCs = high-priority countries.

\* For the purposes of this publication, all references to "Kosovo" in the tables and annexes, should be understood/read as "Kosovo (in accordance with Security Council resolution 1244 (1999)".

Annex 5. Laboratory network capacity, European Region, 2017<sup>a</sup>

|  |   |  |  |  | Country  | / laborato:   | y network   | Internatio   | nal profic  | ioncy tost   | ing of                              |
|--|---|--|--|--|--|---|---|--|---|--|-------------------------------------|
|  |   |  |  |  |  |   |   | nationa  | nai pronc<br>al referenc  | e laborato   | ing oi<br>Ory                       |
| Country/area   | Micros  | сору   | Culture  | DST <sup>b</sup> for i<br>and rifa   |  | Line<br>probe   | Xpert<br>MTB/<br>Rif  | -  | Percer<br>agreem<br>result  | ent of   | rformance                           |
|  | Number of<br>aboratories<br>performing  | EQA passed   | Number of<br>aboratories<br>performing                             | Number of<br>aboratories<br>performing   | EQA passed   | assay   | (N)   | Year   | isoniazid   | rifampicin   | Acceptable performance <sup>d</sup> |
| EU/EEA   |   |  |  | _  |  |   |   |  |   |  |                                     |
| Austria  | -   | -  | -  | -  | -  | -   | -   | -  | -   | -  | -                                   |
| Belgium  | 101   | 0  | 101  | 14   | 14   | 1   | 24  | 2017   | 100   | 100  | Υ                                   |
| Bulgaria   | 33  | 33   | 30   | 33   | 33   | 4   | 4   | 2016   | 100   | 100  | γ                                   |
| Croatia  | -   | -  | -  | -  | -  | -   | -   | -  | -   | -  | -                                   |
| Cyprus   | 1   | 1  | 1  | 0  | 0  | 0   | 1   | 2017   | 100   | 100  | -                                   |
| Czech Republic   | 38  | 38   | 38   | 17   | 17   | 3   | 12  | 2017   | 100   | 100  | Υ                                   |
| Denmark  | -   | -  | _  | -  | -  | -   | _   | -  | -   | -  | _                                   |
| Estonia  | 6   | 6  | 2  | 0  | 0  | 2   | 5   | 2017   | 95  | 95   | Ν                                   |
| Finland  | 9   | 9  | 9  | 0  | 0  | 2   | 5   | 2017   | 100   | 100  | Υ                                   |
| France   | 150   | 150  | 150  | 58   | 0  | 37  | 61  | 2017   | 100   | 100  | Υ                                   |
| Germany  | 150   | 150  | 140  | 50   | 50   | 0   | 37  | 2017   | 100   | 100  | Y                                   |
| Greece   | 150   | IJU  | 140  | 50   | -  | -   | 3/<br>-   | 2016   | 100   | 100  | T -                                 |
|  | _   | _  | -  |  |  |   |   |  |   |  |                                     |
| Hungary  | -   | -  | -  | -  | -  | -   | -   | -  | -   | -  | -                                   |
| Iceland  | -   | -  | -  | -  | -  | -   | -   | -  | -   | -  | -                                   |
| Ireland  | 10  | 10   | 10   | 3  | 2  | 1   | 6   | 2017   | 100   | 100  | Υ                                   |
| Italy  | 42  | 0  | 42   | 42   | 35   | 24  | 32  | 2017   | 100   | 100  | Υ                                   |
| Latvia   | 12  | 12   | 5  | 0  | 0  | 1   | 2   | 2016   | 100   | 100  | Υ                                   |
| Liechtenstein  | -   | -  | -  | -  | -  | -   | -   | -  | -   | -  | -                                   |
| Lithuania  | 10  | 10   | 5  | 1  | 1  | 2   | 4   | 2017   | 100   | 100  | Y                                   |
| Luxembourg   | 1   | 1  | 1  | 1  | 1  | 0   | 0   | 2017   | 100   | 100  | Υ                                   |
| Malta  | 1   | 1  | 1  | 0  | 0  | 0   | 1   | -  | -   | -  | -                                   |
| Netherlands  | 0   | 0  | 30   | 7  | 0  | 0   | 0   | 2017   | 100   | 100  | Υ                                   |
| Norway   | -   | -  | -  | -  | -  | -   | -   | -  | -   | -  | -                                   |
| Poland   | 56  | 56   | 56   | 38   | 38   | 1   | 17  | 2017   | 100   | 100  | Υ                                   |
| Portugal   | 35  | 0  | 47   | 24   | 0  | 3   | 10  | -  | -   | -  | -                                   |
| Romania  | 94  | 76   | 88   | _  | 4  | _   | 27  | 2017   | 100   | 100  | Υ                                   |
| Slovakia   | 3   | 3  | 3  | 3  | 3  | 1   | 1   | 2017   | 100   | 100  | Υ                                   |
| Slovenia   | _   | _  | _  | _  | _  | _   | _   |  | -   | _  | _                                   |
| Spain  | -   | -  | -  | -  | _  | -   | -   | _  | -   | -  | -                                   |
| Sweden   | 5   | 5  | 5  | 5  | 5  | 5   | 2   | 2017   | 92  | 100  | N                                   |
| United Kingdom   | 77  | 77   | 68   | 1  | 1  | 2   | 0   | 2017   | -   | -  | -                                   |
| Subtotal EU/EEA  | 834   | 638  | 832  | 297  | 204  | 89  | 251   | 2016-2017  | 99  | 100  | Υ                                   |
| Non-EU/EEA   | 0,74  | 050  | 0,72   | 271  | 204  | 07  | 231   | 2010 2017  | 77  | 100  | '                                   |
| Albania  | 12  | 1  | 1  |  |  |   | 0   | 2017   | 100   |  |                                     |
|  |   |  |  | 1 1  |  |   |   |  |   | 100  | V                                   |
|  |   |  |  | 1  | 1  | 0   |   |  | 100   | 100  | Υ                                   |
| Andorra  | 8   | 0  | 8  | 3  | 0  | 4   | 3   | 2017   | -   | -  | -                                   |
| Andorra<br>Armenia   | 8<br>26   | 0<br>26  | 8  | 3<br>0   | 0  | 4   | 3<br>13   | 2017   | -<br>100  | 100  | -<br>Y                              |
| Andorra<br>Armenia<br>Azerbaijan   | 8<br>26<br>67   | 0<br>26<br>33  | 8<br>1<br>7  | 3<br>0<br>3  | 0 0 3  | 4<br>1<br>2   | 3<br>13<br>10   | 2017   | 100<br>100  | 100<br>100   | -<br>У<br>У                         |
| Andorra<br>Armenia<br>Azerbaijan<br>Belarus  | 8<br>26<br>67<br>149  | 0<br>26<br>33<br>99  | 8<br>1<br>7<br>27  | 3<br>0<br>3<br>0   | 0<br>0<br>3<br>0   | 4<br>1<br>2<br>8  | 3<br>13<br>10<br>28   | 2017<br>2017   | 100<br>100<br>100   | 100<br>100<br>100  | -<br>У<br>У<br>У                    |
| Andorra<br>Armenia<br>Azerbaijan<br>Belarus<br>Bosnia and Herzegovina  | 8<br>26<br>67<br>149<br>9   | 0<br>26<br>33<br>99<br>2   | 8<br>1<br>7<br>27<br>12  | 3<br>0<br>3<br>0<br>7  | 0<br>0<br>3<br>0<br>5  | 4<br>1<br>2<br>8<br>3   | 3<br>13<br>10<br>28<br>0  | 2017<br>2017<br>2016   | 100<br>100<br>100<br>100  | 100<br>100<br>100<br>100   | -<br>Y<br>Y<br>Y<br>Y               |
| Andorra<br>Armenia<br>Azerbaijan<br>Belarus<br>Bosnia and Herzegovina<br>Georgia   | 8<br>26<br>67<br>149<br>9<br>11   | 0<br>26<br>33<br>99<br>2<br>11   | 8<br>1<br>7<br>27<br>12<br>2                                       | 3<br>0<br>3<br>0<br>7<br>0   | 0<br>0<br>3<br>0<br>5  | 4<br>1<br>2<br>8<br>3<br>2  | 3<br>13<br>10<br>28<br>0<br>28  | 2017<br>2017<br>2016<br>2017   | 100<br>100<br>100<br>100<br>100   | 100<br>100<br>100<br>100<br>100  | -<br>Y<br>Y<br>Y<br>Y               |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel   | 8<br>26<br>67<br>149<br>9<br>11   | 0<br>26<br>33<br>99<br>2<br>11<br>0  | 8<br>1<br>7<br>27<br>12<br>2<br>17                                 | 3<br>0<br>3<br>0<br>7<br>0<br>2  | 0<br>0<br>3<br>0<br>5<br>0   | 4<br>1<br>2<br>8<br>3<br>2<br>1   | 3<br>13<br>10<br>28<br>0<br>28  | 2017<br>2017<br>2016<br>2017<br>2017   | 100<br>100<br>100<br>100  | 100<br>100<br>100<br>100   | -<br>Y<br>Y<br>Y<br>Y               |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan  | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295  | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292   | 8<br>1<br>7<br>27<br>12<br>2<br>17<br>20                           | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>20  | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19  | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12   | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52   | 2017<br>2017<br>2016<br>2017<br>2017   | 100<br>100<br>100<br>100<br>100<br>100                                    | 100<br>100<br>100<br>100<br>100<br>100                                       | -<br>Y<br>Y<br>Y<br>Y<br>Y          |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan   | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295  | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292<br>126  | 8<br>1<br>7<br>27<br>12<br>2<br>17<br>20<br>5                      | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>20<br>0   | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19  | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12<br>2  | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24   | 2017<br>2017<br>2016<br>2017<br>2017   | 100<br>100<br>100<br>100<br>100   | 100<br>100<br>100<br>100<br>100  | -<br>Y<br>Y<br>Y<br>Y               |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco  | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295<br>126   | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292<br>126<br>0   | 8<br>1<br>7<br>27<br>12<br>2<br>17<br>20<br>5                      | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>20<br>0   | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0   | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12<br>2<br>0   | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24   | 2017<br>2016<br>2017<br>2017<br>2017<br>-<br>2017  | 100<br>100<br>100<br>100<br>100<br>100<br>-<br>100                        | 100<br>100<br>100<br>100<br>100<br>100<br>-                                  |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro   | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295  | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292<br>126<br>0   | 8 1 1 7 27 12 2 17 20 5 0 1 1                                      | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>20<br>0   | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0  | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12<br>2<br>0   | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24   | 2017<br>2017<br>2016<br>2017<br>2017<br>-<br>2017<br>-<br>2017   | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>-            | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>-               |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia   | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295<br>126<br>0  | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292<br>126<br>0   | 8 1 1 7 27 12 2 2 17 20 5 0 1 1 3                                  | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>20<br>0<br>0  | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0  | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12<br>2<br>0<br>0  | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0  | 2017<br>2017<br>2016<br>2017<br>2017<br>   | 100<br>100<br>100<br>100<br>100<br>100<br>-<br>100                        | 100<br>100<br>100<br>100<br>100<br>100<br>-                                  |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova   | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295<br>126<br>0<br>1<br>7  | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292<br>126<br>0   | 8 1 1 7 27 12 2 17 20 5 0 1 1 3 4                                  | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>20<br>0   | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0  | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12<br>2<br>0   | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0<br>1<br>1  | 2017<br>2017<br>2016<br>2017<br>2017<br>-<br>2017<br>-<br>2017   | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>-            | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>-               |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia   | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295<br>126<br>0  | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292<br>126<br>0   | 8 1 1 7 27 12 2 2 17 20 5 0 1 1 3                                  | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>20<br>0<br>0  | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0  | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12<br>2<br>0<br>0  | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0  | 2017<br>2017<br>2016<br>2017<br>2017<br>   | -<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>-<br>100<br>100       | -<br>100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>-<br>100          |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova   | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295<br>126<br>0<br>1<br>7  | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292<br>126<br>0<br>1<br>7   | 8 1 1 7 27 12 2 17 20 5 0 1 1 3 4                                  | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>20<br>0<br>0<br>1<br>1  | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0<br>1   | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12<br>2<br>0<br>0<br>0<br>4  | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0<br>1<br>1  | 2017<br>2016<br>2017<br>2016<br>2017<br>2017<br>-<br>2017<br>-<br>2017<br>2015<br>2017   | -<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>-<br>100<br>100<br>10 | -<br>100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>-<br>100          |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation  | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295<br>126<br>0<br>1<br>7<br>57  | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292<br>126<br>0<br>1<br>7<br>57   | 8 1 7 7 27 12 2 2 17 20 5 0 1 1 3 4 378                            | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>20<br>0<br>0<br>1<br>1<br>4<br>47   | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0<br>1<br>0<br>4   | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>1<br>12<br>2<br>0<br>0<br>0<br>4<br>8  | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0<br>1<br>1<br>1<br>57   | 2017<br>2016<br>2017<br>2016<br>2017<br>-<br>2017<br>-<br>2017<br>2015<br>2017   | 100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>-<br>100<br>100     | 100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>-<br>100<br>100        |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino   | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295<br>126<br>0<br>1<br>7<br>57<br>5996  | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292<br>126<br>0<br>1<br>7<br>57<br>671  | 8 1 7 7 27 12 2 17 20 5 5 0 1 3 4 378 1                            | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>20<br>0<br>0<br>1<br>1<br>4<br>47   | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0<br>1<br>0<br>4<br>0  | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12<br>2<br>0<br>0<br>0<br>0<br>4<br>8<br>1   | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0<br>1<br>1<br>57<br>204   | 2017<br>2016<br>2017<br>2016<br>2017<br>-<br>2017<br>-<br>2017<br>2015<br>2017<br>-<br>-   | 100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>-<br>100<br>100     | 100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>-<br>100<br>100        |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia  | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295<br>126<br>0<br>1<br>7<br>57<br>5996  | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292<br>126<br>0<br>1<br>7<br>57<br>671<br>0   | 8 1 7 7 27 12 2 17 20 5 0 1 3 4 378 1 32                           | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>20<br>0<br>0<br>1<br>1<br>1<br>4<br>47<br>1<br>6  | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0<br>1<br>1<br>0<br>4<br>0<br>6  | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>1<br>2<br>2<br>0<br>0<br>0<br>4<br>8<br>8<br>1<br>1<br>1<br>2<br>1   | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0<br>1<br>1<br>1<br>57<br>204<br>1<br>4  | 2017<br>2016<br>2017<br>2016<br>2017<br>   |   | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>-<br>100<br>100 |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovoe   | 8<br>26<br>67<br>149<br>9<br>111<br>17<br>295<br>126<br>0<br>1<br>7<br>57<br>5996<br>1  | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292<br>126<br>0<br>1<br>7<br>57<br>671<br>0   | 8 1 7 7 27 12 2 2 17 20 5 0 1 3 3 4 378 1 32 29                    | 3<br>0<br>3<br>0<br>7<br>0<br>0<br>2<br>20<br>0<br>0<br>1<br>1<br>1<br>4<br>4<br>7   | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0<br>1<br>1<br>0<br>4<br>0<br>6<br>4   | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12<br>2<br>0<br>0<br>0<br>4<br>8<br>1<br>1<br>1<br>1   | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0<br>1<br>1<br>57<br>204<br>1<br>4   | 2017<br>2016<br>2017<br>2017<br>2017<br>-<br>2017<br>-<br>2017<br>2015<br>2017<br>-<br>2017<br>2017<br>2017  |   |  |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovoe Kosovoe Switzerland   | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295<br>126<br>0<br>1<br>7<br>57<br>5996<br>1<br>41<br>31<br>10<br>33                                 | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292<br>126<br>0<br>1<br>1<br>7<br>671<br>0<br>11<br>1<br>1<br>10<br>33                    | 8 1 7 7 27 12 2 2 7 7 7 7 20 5 0 1 1 3 4 4 378 1 2 2 9 3 3 2 1     | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>2<br>20<br>0<br>0<br>1<br>1<br>4<br>47<br>1<br>6<br>4<br>4  | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>2<br>19<br>0<br>0<br>1<br>0<br>4<br>0<br>6<br>4<br>4<br>2   | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12<br>2<br>0<br>0<br>0<br>4<br>8<br>8<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0<br>1<br>1<br>1<br>57<br>204<br>1<br>2<br>4<br>2                                  | 2017<br>2016<br>2017<br>2016<br>2017<br>2017<br>-<br>2017<br>-<br>2015<br>2017<br>-<br>2017<br>-<br>2017   | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>100<br>10    |  |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia excluding Kosovoe Kosovoe Switzerland Tajikistan   | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295<br>126<br>0<br>1<br>7<br>57<br>5996<br>1<br>41<br>31<br>10                                       | 0 26 33 99 2 11 0 0 292 126 0 1 7 7 671 0 1 1 1 1 0 33 80  | 8 1 7 7 27 12 2 2 17 7 20 0 1 3 4 378 1 32 2 2 3 2 1 6             | 3<br>0<br>3<br>0<br>7<br>0<br>0<br>2<br>2<br>0<br>0<br>0<br>1<br>1<br>4<br>4<br>7<br>1<br>6<br>6<br>4<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1       | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0<br>0<br>1<br>1<br>0<br>4<br>0<br>0<br>6<br>4<br>2  | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>1<br>2<br>2<br>0<br>0<br>0<br>4<br>8<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                     | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0<br>1<br>1<br>1<br>57<br>204<br>1<br>4<br>2<br>2<br>49                            | 2017<br>2016<br>2017<br>2016<br>2017<br>   | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>100<br>10    |  |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovoe Kosovoe Switzerland Tajikistan Turkey                                 | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295<br>126<br>0<br>1<br>7<br>57<br>5996<br>1<br>41<br>31<br>10<br>33<br>84                           | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292<br>126<br>0<br>1<br>7<br>57<br>671<br>0<br>11<br>1<br>10<br>33<br>80                  | 8 1 7 7 27 12 2 2 17 20 5 0 1 3 4 378 1 32 29 3 21 6 124           | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>2<br>0<br>0<br>0<br>0<br>1<br>1<br>4<br>4<br>7<br>1<br>6<br>6<br>4<br>2   | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0<br>1<br>0<br>4<br>0<br>0<br>6<br>4<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>1<br>12<br>2<br>0<br>0<br>0<br>4<br>8<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                    | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0<br>1<br>1<br>57<br>204<br>1<br>4<br>2<br>2<br>2<br>49                            | 2017<br>2016<br>2017<br>2016<br>2017<br>   |   |  |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovoe Kosovoe Switzerland Tajikistan Turkey Turkmenistan                    | 8 26 67 149 9 11 17 295 0 0 1 7 57 5996 1 41 31 10 33 84 311 65   | 0<br>26<br>33<br>99<br>2<br>11<br>0<br>292<br>126<br>0<br>1<br>7<br>57<br>671<br>0<br>11<br>1<br>1<br>0<br>33<br>80<br>125<br>65 | 8 1 7 7 27 12 2 2 17 20 0 1 1 3 3 4 378 1 32 29 3 3 1 6 6 124 5 5  | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>20<br>0<br>0<br>0<br>1<br>1<br>1<br>4<br>4<br>4<br>7<br>1<br>6<br>4<br>2<br>1<br>1<br>1<br>6<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0<br>0<br>1<br>1<br>0<br>4<br>0<br>6<br>4<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12<br>2<br>0<br>0<br>0<br>4<br>8<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1   | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0<br>1<br>1<br>57<br>204<br>1<br>4<br>2<br>2<br>49<br>15<br>21<br>6                | 2017<br>2016<br>2017<br>2016<br>2017<br>   | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>100<br>10    |  |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo° Kosovo° Switzerland Tajikistan Turkey Turkmenistan Ukraine            | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295<br>126<br>0<br>1<br>7<br>57<br>5996<br>1<br>41<br>31<br>10<br>33<br>38<br>84<br>311<br>65<br>751 | 0 26 33 99 2 111 0 0 292 126 0 1 7 671 0 111 1 1 33 80 125 65 724  | 8 1 7 7 27 12 2 17 20 1 3 4 378 1 32 29 3 1 1 6 6 124 5 91         | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>20<br>0<br>0<br>0<br>1<br>1<br>4<br>4<br>47<br>1<br>6<br>4<br>2<br>1<br>1<br>1<br>6<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1          | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0<br>1<br>1<br>0<br>4<br>0<br>6<br>4<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12<br>2<br>0<br>0<br>0<br>4<br>8<br>1<br>1<br>1<br>1<br>1<br>0<br>6<br>8<br>8<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0<br>1<br>1<br>57<br>204<br>1<br>4<br>2<br>2<br>2<br>4<br>9<br>15<br>21<br>6<br>53 | 2017<br>2016<br>2017<br>2017<br>2017<br>-<br>2017<br>2015<br>2017<br>-<br>2017<br>2017<br>2017<br>2017<br>2017<br>2017<br>-<br>2017                      | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>100<br>10    |  |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovoe Kosovoe Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan | 8<br>26<br>67<br>149<br>9<br>111<br>17<br>295<br>126<br>0<br>1<br>7<br>596<br>1<br>41<br>31<br>10<br>33<br>84<br>311<br>65<br>751<br>277      | 0 26 33 99 2 111 0 0 292 126 0 1 7 57 671 1 1 1 10 33 38 0 125 65 724 2  | 8 1 7 7 27 12 2 1 2 2 5 0 1 3 3 4 3788 1 32 29 3 21 6 6 124 5 91 7 | 3<br>0<br>3<br>0<br>7<br>0<br>0<br>2<br>20<br>0<br>0<br>1<br>1<br>1<br>4<br>4<br>7<br>1<br>6<br>4<br>2<br>10<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1          | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0<br>1<br>0<br>4<br>0<br>6<br>4<br>2<br>10<br>1<br>1<br>6<br>6<br>4<br>3<br>3<br>3<br>3<br>2   | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12<br>2<br>0<br>0<br>0<br>4<br>8<br>1<br>1<br>1<br>1<br>1<br>0<br>5<br>6<br>6<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8 | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0<br>1<br>1<br>57<br>204<br>1<br>4<br>2<br>2<br>49<br>15<br>21<br>6<br>53<br>22    | 2017<br>2016<br>2017<br>2017<br>2017<br>-<br>2017<br>-<br>2017<br>2015<br>2017<br>-<br>2017<br>2017<br>2017<br>2017<br>-<br>2017<br>2016<br>2016<br>2016 | 100<br>100<br>100<br>100<br>100<br>100<br>                                |  |                                     |
| Andorra Armenia Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo° Kosovo° Switzerland Tajikistan Turkey Turkmenistan Ukraine            | 8<br>26<br>67<br>149<br>9<br>11<br>17<br>295<br>126<br>0<br>1<br>7<br>57<br>5996<br>1<br>41<br>31<br>10<br>33<br>38<br>84<br>311<br>65<br>751 | 0 26 33 99 2 111 0 0 292 126 0 1 7 671 0 111 1 1 33 80 125 65 724  | 8 1 7 7 27 12 2 17 20 1 3 4 378 1 32 29 3 1 1 6 6 124 5 91         | 3<br>0<br>3<br>0<br>7<br>0<br>2<br>20<br>0<br>0<br>0<br>1<br>1<br>4<br>4<br>47<br>1<br>6<br>4<br>2<br>1<br>1<br>1<br>6<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1          | 0<br>0<br>3<br>0<br>5<br>0<br>2<br>19<br>0<br>0<br>1<br>1<br>0<br>4<br>0<br>6<br>4<br>2<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | 4<br>1<br>2<br>8<br>3<br>2<br>1<br>12<br>2<br>0<br>0<br>0<br>4<br>8<br>1<br>1<br>1<br>1<br>1<br>0<br>6<br>8<br>8<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 3<br>13<br>10<br>28<br>0<br>28<br>0<br>52<br>24<br>0<br>1<br>1<br>57<br>204<br>1<br>4<br>2<br>2<br>2<br>4<br>9<br>15<br>21<br>6<br>53 | 2017<br>2016<br>2017<br>2017<br>2017<br>-<br>2017<br>2015<br>2017<br>-<br>2017<br>2017<br>2017<br>2017<br>2017<br>2017<br>-<br>2017                      | 100<br>100<br>100<br>100<br>100<br>100<br>100<br>-<br>100<br>100<br>10    |  |                                     |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics.

HPCs = high-priority countries.

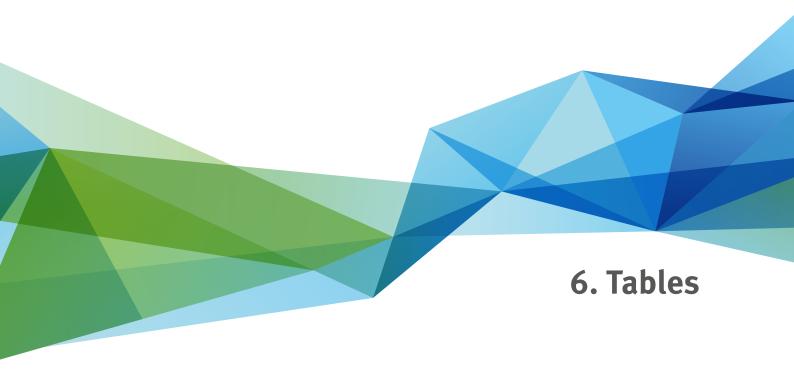
\*\*Data obtained from WHO Tuberculosis Monitoring and Evaluation database (TME).

\*\*D ST = drug-susceptibility testing.

\*\*EQA = external quality assessment.

\*\*Acceptable performance defined as reference laboratory achieving 95% performance (smear and DST).

\*\*(In accordance with Security Council Resolution 1244 (1999)).



## Summary table. TB surveillance data by region, European Region, 2017

|   |                               |                               |              |                               | Regio        | on                            |              |                               |                      |
|---|-------------------------------|-------------------------------|--------------|-------------------------------|--------------|-------------------------------|--------------|-------------------------------|----------------------|
|   |                               | EU                            | /EEA         | Non-                          | ·EU/EEA      | То                            | tal          | 18 high-                      | priority<br>s (HPCs) |
|   | Table showing data by country | Number of reporting countries |                      |
| Total population (millions)   | -                             | 31                            | 517.2        | 23                            | 404.9        | 54                            | 919.5        | 18                            | 402.9                |
| Estimates of TB disease burden, 2017 <sup>c</sup>   |                               |                               |              |                               |              |                               |              |                               |                      |
| Estimated TB mortality rate (excluding HIV-related deaths) per 100 000 population                                     | 1                             | 30                            | 0.8          | 20                            | 4.7          | 50                            | 2.6          | 18                            | 5.0                  |
| Estimated TB incidence rate per 100 000 population  | 1                             | 30                            | 11.9         | 21                            | 52.9         | 51                            | 29.9         | 18                            | 56.3                 |
| Estimated RR-TB among all notified pulmonary TB cases   | 2                             | 30                            | 1800         | 18                            | 75 000       | 48                            | 77 000       | 18                            | 75 900               |
| Estimated percentage of HIV infection among incident TB cases (new and relapses)                                      | 2                             | 27                            | 5.9          | 18                            | 13.8         | 45                            | 12.0         | 18                            | 13.1                 |
| Notifications of TB cases, 2017   |                               |                               |              |                               |              |                               |              |                               |                      |
| Total number of TB cases  | 3                             | 31                            | 55 337       | 21                            | 228 009      | 52                            | 283          | 18                            | 240                  |
|   |                               |                               |              |                               |              |                               | 346          |                               | 767                  |
| All TB cases per 100 000 population   | 3                             | 31                            | 10.7         | 21                            | 56.3         | 52                            | 30.7         | 18                            | 59.8                 |
| Mean annual percentage change of notification rate (2013–2017)  | 3                             | 30                            | -4.5         | 22                            | -6.9         | 52                            | -6.3         | 18                            | -6.8                 |
| Number of new TB cases and relapses   | 4                             | 31                            | 52 836       | 21                            | 185 983      | 52                            | 238<br>819   | 18                            | 197<br>909           |
| New TB cases and relapses per 100 000 population  | 4                             | 31                            | 10.2         | 21                            | 45.9         | 52                            | 25.9         | 18                            | 49.1                 |
| Mean annual percentage change of notification rate of new TB cases and relapses (2013–2017)                           | 4                             | 31                            | -4.3         | 21                            | -6.3         | 52                            | -5.8         | 18                            | -6.3                 |
| Percentage of new cases among all TB cases  | 5                             | 31                            | 72.1         | 21                            | 68.3         | 52                            | 69.1         | 18                            | 68.8                 |
| Percentage of retreatment cases among all TB cases  | 5                             | 31                            | 10.0         | 21                            | 31.7         | 52                            | 27.4         | 18                            | 31.2                 |
| Percentage of pulmonary TB among all TB cases   | 6                             | 31                            | 76.6         | -                             | -            | -                             | -            | -                             | -                    |
| Percentage of laboratory-confirmed TB cases among all TB cases  | 8                             | 31                            | 68.1         | -                             | -            | -                             | -            | -                             | -                    |
| Male-to-female ratio of new TB cases and relapse  | 9                             | 31                            | 1.9          | 21                            | 1.9          | 52                            | 1.9          | 18                            | 2.0                  |
| Percentage of foreign TB cases among all TB cases   | 10                            | 31                            | 33.1         | 21                            | 1.9          | 52                            | 7.9          | 18                            | 1.6                  |
| TB case laboratory confirmation, multidrug resistance (MDR) an  | d extensiv                    | e drug re                     | sistance (X  | DR), 2017                     |              |                               |              |                               |                      |
| Percentage of laboratory-confirmed cases among new pulmonary $\ensuremath{TB}\xspace$ cases $\ensuremath{d}\xspace$   | 12                            | 29                            | 78.9         | 21                            | 60.0         | 50                            | 63.5         | 18                            | 61.5                 |
| Percentage of DST results reported among new bacteriologically confirmed pulmonary TB cases                           | 12                            | 29                            | 85.5         | 21                            | 78.4         | 50                            | 80.0         | 18                            | 80.2                 |
| Percentage of MDR-TB among new pulmonary TB cases   | 12                            | 29                            | 2.4          | 21                            | 23.1         | 50                            | 18.1         | 18                            | 21.2                 |
| Percentage of MDR-TB among previously treated pulmonary TB cases  | 12                            | 29                            | 15.0         | 21                            | 50.6         | 50                            | 47.9         | 18                            | 48.9                 |
| Percentage of DST results reported among all confirmed TB cases   | 13                            | 29                            | 84.7         | -                             | -            | -                             | -            | -                             | -                    |
| Percentage of MDR-TB among all TB cases   | 13                            | 29                            | 3.8          | -                             | -            | -                             | -            | -                             | -                    |
| Percentage of XDR-TB among all MDR-TB cases with DSTe for SLDf  | 14                            | 29                            | 24.3         | 19                            | 17.4         | 48                            | 17.5         | 14                            | 17.6                 |
| TB/HIV coinfection, 2017  |                               |                               |              |                               |              |                               |              |                               |                      |
| Percentage of new TB cases and relapses with known HIV status Percentage of HIV-positive cases among new TB cases and | 16                            | 23                            | 75.7         | 20                            | 94.1         | 39                            | 91.4         | 17                            | 94.2                 |
| relapses with known HIV status  | 16                            | 23                            | 3.8          | 20                            | 14.0         | 39                            | 12.8         | 17                            | 13.3                 |
| Percentage of HIV-positive cases started on ART   | 16                            | 10                            | 80.6         | 18                            | 67.7         | 25                            | 66.6         | 14                            | 67.7                 |
| Percentage of all TB cases with known HIV status  | 16a                           | 23                            | 76.0         | -                             | -            | -                             | -            | -                             | -                    |
| Percentage of HIV-positive cases among all TB cases with known HIV status   | 16a                           | 23                            | 3.9          | -                             | -            | -                             | -            | -                             | _                    |
| Treatment outcome   |                               |                               |              |                               |              |                               |              |                               |                      |
| Treatment success of all TB cases reported in 2016  | 18                            | 27                            | 70.7         | 20                            | 75.7         | 45                            | 74.5         | 17                            | 76.1                 |
| Treatment success of new TB cases and relapses notified in 2016   | 19                            | 25                            | 75.6         | 20                            | 77.7         | 45                            | 77.2         | 17                            | 78.5                 |
| Treatment success of childhood TB cases notified in 2016  | 20                            | 26                            | 88.2         | 19                            | 94.2         | 41                            | 92.8         | 16                            | 94.8                 |
| Treatment success of HIV/TB cases notified in 2016 Treatment success of RR/MDR-TB cases enrolled in SLD               | 21                            | 19<br>27                      | 63.0<br>47.3 | 14<br>20                      | 62.9<br>57.5 | 29<br>38                      | 62.9<br>57.2 | 12<br>17                      | 63.1<br>57.2         |
| treatment in 2015   |                               |                               |              | 20                            | 37.3         | 20                            | 37.2         | 1/                            |                      |
| Treatment success of all MDR-TB cases notified in 2015 Treatment success of all XDR-TB cases notified in 2015         | 23<br>24                      | 27<br>28                      | 44.8<br>28.4 | -<br>16                       | 35.3         | 37                            | 35.1         | 14                            | 35.1                 |
| Note: Furnnean Region comprises the E2 countries of the WHO   |                               |                               |              |                               | 22.2         | 2/                            | ۱،(ر         | 14                            | 23.1                 |

 $\textit{Note:} \ \texttt{European Region comprises the 53 countries of the WHO European Region and Liechtenstein.}$ 

Note: European Region comprises the 53 countries of the WHO European Region and Electrenstein.

HPCs: the 18 high-priority countries to STOP TB in the WHO European Region are: Armenia, Azerbaijan, Belarus, Bulgaria, Estonia, Georgia, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Republic of Moldova, Romania, Russian Federation, Tajikistan, Turkey, Turkmenistan, Ukraine and Uzbekistan.

Number of countries with available data included in the statistics.

WHO estimates, as published in Global tuberculosis report 2018.

Laboratory-confirmed cases – cases with positive identification for M. tuberculosis complex confirmed by culture and/or line probe assay for non-EU/EEA countries and areas. For EU/EEA countries: culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases.

SDT = drug-susceptibility testing.

Table 1. Estimates of the TB disease burden 2017, European Region

|                        |                         |        |        | ed number o<br>l forms. exc |      |           |      | Est     | Estimated number of incident cases (all forms) |         |      |         |      |  |
|------------------------|-------------------------|--------|--------|-----------------------------|------|-----------|------|---------|--|---------|------|---------|------|--|
| Country/area           | Population <sup>a</sup> |        | Number |                             |      | r 100 000 |      |         | Number   |         |      | 100 000 |      |  |
|                        |                         | Best   | Low    | High                        | Best | Low       | High | Best    | Low  | High    | Best | Low     | High |  |
| EU/EEA                 |                         |        |        |                             |      |           |      |         |  |         |      |         |      |  |
| Austria                | 8 735 453               | 38     | 38     | 39                          | 0.4  | 0.4       | 0.4  | 650     | 550  | 750     | 7.4  | 6.3     | 8.5  |  |
| Belgium                | 11 429 336              | 61     | 59     | 63                          | 0.5  | 0.5       | 0.6  | 1100    | 900  | 1200    | 9.2  | 7.9     | 11   |  |
| Bulgaria               | 7 084 571               | 91     | 89     | 93                          | 1.3  | 1.3       | 1.3  | 1800    | 1 300  | 2 200   | 25   | 19      | 31   |  |
| Croatia                | 4 189 353               | 41     | 40     | 41                          | 1.0  | 1.0       | 1.0  | 420     | 360  | 480     | 10   | 8.5     | 12   |  |
| Cyprus                 | 1 179 551               | 3      | 2      | 4                           | 0.3  | 0.2       | 0.3  | 60      | 51   | 69      | 5.1  | 4.3     | 5.9  |  |
| Czech Republic         | 10 618 303              | 43     | 42     | 43                          | 0.4  | 0.4       | 0.4  | 570     | 490  | 660     | 5.4  | 4.6     | 6.2  |  |
| Denmark                | 5 733 551               | 18     | 17     | 18                          | 0.3  | 0.3       | 0.3  | 290     | 250  | 340     | 5.1  | 4.3     | 5.9  |  |
| Estonia                | 1 309 632               | 12     | 12     | 12                          | 0.9  | 0.9       | 1.0  | 200     | 170  | 230     | 15   | 13      | 17   |  |
| Finland                | 5 523 231               | 26     | 26     | 26                          | 0.5  | 0.5       | 0.5  | 270     | 230  | 310     | 4.9  | 4.2     | 5.6  |  |
| France                 | 64 979 548              | 350    | 330    | 380                         | 0.6  | 0.5       | 0.6  | 5 900   | 5 100  | 6600    | 9    | 7.9     | 10   |  |
| Germany                | 82 114 224              | 320    | 320    | 330                         | 0.4  | 0.4       | 0.4  | 6 200   | 5 300  | 7 100   | 7.5  | 6.4     | 8.7  |  |
| Greece                 | 11 159 773              | 45     | 43     | 46                          | 0.4  | 0.4       | 0.4  | 500     | 430  | 580     | 4.5  | 3.8     | 5.2  |  |
| Hungary                | 9 721 559               | 54     | 54     | 54                          | 0.6  | 0.6       | 0.6  | 750     | 640  | 860     | 7.7  | 6.6     | 8.9  |  |
| Iceland                | 335 025                 | 0      | 0      | 0                           | 0.0  | 0.0       | 0.0  | 15      | 13   | 17      | 4.5  | 3.8     | 5.2  |  |
| Ireland                | 4 761 657               | 24     | 24     | 25                          | 0.5  | 0.5       | 0.5  | 350     | 300  | 400     | 7.3  | 6.2     | 8.4  |  |
| Italy                  | 59 359 900              | 340    | 330    | 340                         | 0.6  | 0.6       | 0.6  | 4 400   | 3 800  | 5 100   | 7.4  | 6.3     | 8.6  |  |
| Latvia                 | 1 949 670               | 62     | 61     | 62                          | 3.2  | 3.1       | 3.2  | 620     | 530  | 720     | 32   | 27      | 37   |  |
| Liechtenstein          | -                       | -      | -      | -                           | -    | -         | -    | -       | -  | -       | -    | -       | -    |  |
| Lithuania              | 2 890 297               | 170    | 170    | 170                         | 5.8  | 5.8       | 5.9  | 1 500   | 1 200  | 1 700   | 50   | 43      | 58   |  |
| Luxembourg             | 583 455                 | 1      | 1      | 1                           | 0.2  | 0.2       | 0.2  | 37      | 31   | 43      | 6.3  | 5.4     | 7.3  |  |
| Malta                  | 430 835                 | 2      | 2      | 2                           | 0.5  | 0.5       | 0.5  | 48      | 41   | 56      | 11   | 9.6     | 13   |  |
| Netherlands            | 17 035 938              | 30     | 30     | 31                          | 0.2  | 0.2       | 0.2  | 890     | 760  | 1000    | 5.2  | 4.5     | 6.1  |  |
| Norway                 | 5 305 383               | 12     | 12     | 12                          | 0.2  | 0.2       | 0.2  | 270     | 230  | 310     | 5.1  | 4.4     | 5.9  |  |
| Poland                 | 38 170 712              | 450    | 430    | 470                         | 1.2  | 1.1       | 1.2  | 6 400   | 5 400  | 7 400   | 17   | 14      | 19   |  |
| Portugal               | 10 329 506              | 210    | 200    | 220                         | 2.0  | 2.0       | 2.1  | 2 000   | 1700   | 2300    | 20   | 17      | 23   |  |
| Romania                | 19 679 306              | 920    | 910    | 920                         | 4.7  | 4.6       | 4.7  | 14 000  | 12 000   | 16 000  | 72   | 62      | 83   |  |
| Slovakia               | 5 447 662               | 35     | 34     | 35                          | 0.6  | 0.6       | 0.7  | 260     | 220  | 300     | 4.8  | 4.1     | 5.6  |  |
| Slovenia               | 2 079 976               | 12     | 12     | 12                          | 0.6  | 0.6       | 0.6  | 130     | 110  | 150     | 6.2  | 5.3     | 7.2  |  |
| Spain                  | 46 354 321              | 250    | 250    | 250                         | 0.5  | 0.5       | 0.5  | 5 000   | 4 300  | 5 800   | 11   | 9.3     | 13   |  |
| Sweden                 | 9 910 701               | 26     | 26     | 27                          | 0.3  | 0.3       | 0.3  | 560     | 480  | 650     | 5.7  | 4.8     | 6.5  |  |
| United Kingdom         | 66 181 585              | 350    | 350    | 350                         | 0.5  | 0.5       | 0.5  | 5 900   | 5 300  | 6 500   | 8.9  | 8.1     | 9.8  |  |
| Subtotal EU/EEA        | 514 584 014             | 4 000  | 3 970  | 4 030                       | 0.8  | 0.8       | 0.8  | 61 000  | 61 000   | 61 000  | 11.9 | 11.9    | 11.9 |  |
| Non-EU/EEA             |                         |        |        |                             |      |           |      |         |  |         |      |         |      |  |
| Albania                | 2 930 187               | 9      | 4      | 14                          | 0.3  | 0.2       | 0.5  | 580     | 490  | 670     | 20   | 17      | 23   |  |
| Andorra                | 76 965                  | 0      | 0      | 0                           | 0.0  | 0.0       | 0.0  | 1       | 1  | 1       | 1.5  | 1.3     | 1.7  |  |
| Armenia                | 2 930 450               | 36     | 35     | 36                          | 1.2  | 1.2       | 1.2  | 1 100   | 800  | 1 300   | 36   | 27      | 45   |  |
| Azerbaijan             | 9 827 589               | 860    | 810    | 900                         | 8.7  | 8.2       | 9.2  | 6 500   | 5 000  | 8 300   | 67   | 51      | 84   |  |
| Belarus                | 9 468 338               | 76     | 44     | 120                         | 0.8  | 0.5       | 1.2  | 3 500   | 2 700  | 4 400   | 37   | 28      | 46   |  |
| Bosnia and Herzegovina | 3 507 017               | 130    | 120    | 140                         | 3.7  | 3.4       | 4.0  | 960     | 730  | 1200    | 27   | 21      | 35   |  |
| Georgia                | 3 912 061               | 210    | 160    | 270                         | 5.3  | 4.1       | 6.8  | 3 400   | 2800   | 3 900   | 86   | 72      | 101  |  |
| Israel                 | 8 321 570               | 15     | 15     | 16                          | 0.2  | 0.2       | 0.2  | 270     | 230  | 310     | 3.2  | 2.8     | 3.7  |  |
| Kazakhstan             | 18 204 499              | 160    | 91     | 250                         | 0.9  | 0.5       | 1.4  | 12 000  | 7 800  | 17 000  | 66   | 43      | 94   |  |
| Kyrgyzstan             | 6 045 117               | 400    | 390    | 420                         | 6.7  | 6.4       | 6.9  | 8 700   | 7 200  | 10000   | 144  | 120     | 170  |  |
| Monaco                 | 38 695                  | 0      | 0      | 0                           | 0.0  | 0.0       | 0.0  | 0       | 0  | 0       | 0    | 0       | 0    |  |
| Montenegro             | 628 960                 | 1      | 1      | 1                           | 0.2  | 0.2       | 0.2  | 86      | 74   | 100     | 14   | 12      | 16   |  |
| North Macedonia        | 2 083 160               | 20     | 20     | 21                          | 1.0  | 0.9       | 1.0  | 270     | 210  | 340     | 13   | 9.9     | 16   |  |
| Republic of Moldova    | 4 051 212               | 250    | 220    | 280                         | 6.1  | 5.4       | 7.0  | 3 900   | 3300   | 4 500   | 95   | 82      | 110  |  |
| Russian Federation     | 143 989 754             | 10 000 | 9 400  | 12 000                      | 7.3  | 6.6       | 8.0  | 86 000  | 56 000   | 123 000 | 60   | 39      | 85   |  |
| San Marino             | 33 400                  | 0      | 0      | 0                           | 0.0  | 0.0       | 0.0  | 0       | 0  | 0       | 0    | 0       | 0    |  |
| Serbia                 | 8 790 574               | 66     | 62     | 71                          | 0.8  | 0.7       | 0.8  | 1700    | 1400   | 1900    | 19   | 16      | 22   |  |
| Switzerland            | 8 476 005               | 17     | 17     | 17                          | 0.2  | 0.2       | 0.2  | 610     | 520  | 700     | 7.2  | 6.1     | 8.3  |  |
| Tajikistan             | 8 921 343               | 460    | 350    | 600                         | 5.2  | 3.9       | 6.7  | 7 500   | 5 800  | 9 500   | 85   | 65      | 106  |  |
| Turkey                 | 80 745 020              | 410    | 370    | 460                         | 0.5  | 0.5       | 0.6  | 14 000  | 12 000   | 16 000  | 17   | 14      | 19   |  |
| Turkmenistan           | 5 758 075               | 570    | 500    | 650                         | 9.9  | 8.6       | 11.0 | 2 500   | 1 900  | 3 100   | 43   | 33      | 54   |  |
| Ukraine                | 44 222 947              | 3 800  | 3 600  | 4 100                       | 8.7  | 8.1       | 9.3  | 37 000  | 24 000   | 53 000  | 84   | 54      | 119  |  |
| Uzbekistan             | 31 910 641              | 1700   | 1 600  | 1 900                       | 5.4  | 4.9       | 5.9  | 23 000  | 16 000   | 32 000  | 73   | 51      | 99   |  |
| Subtotal non-EU/EEA    | 404 873 579             | 19 000 | 18 000 | 20 000                      | 4.7  | 4.4       | 4.9  | 214 000 | 177 000  | 251 000 | 53   | 44      | 62   |  |
| Total European Region  | 919 457 593             | 24 000 | 23 000 | 25 000                      | 2.6  | 2.5       | 2.7  | 275 000 | 238 000  | 314 000 | 30   | 26      | 34   |  |
| Subtotal 18 HPCs       | 402 900 522             | 20 000 | 19 000 | 21 000                      | 5.0  | 4.7       | 5.2  |         | 190 000  |         | 56   | 47      | 66   |  |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HIV = human immunodeficiency virus. HPCs = high-priority countries.

\* Population estimate 2018 by UN Statistical database for all countries.

|              | Estimate | l incidence | of child TB | cases       |             | E             | stimated i | ncidence of    | TB among     | females      |      |                           |
|--------------|----------|-------------|-------------|-------------|-------------|---------------|------------|----------------|--------------|--------------|------|---------------------------|
|              | Number   |             |             | 100 000     |             |               | Number     |                |              | r 100 000    |      | Country                   |
| Best         | Low      | High        | Best        | Low         | High        | Best          | Low        | High           | Best         | Low          | High |                           |
| 5.0          |          | 50          |             | 2.4         |             | 222           | 400        | 272            | 5.0          |              |      | EU/EEA                    |
| 50           | 42       | 58          | 4.1         | 3.4         | 4.7         | 230           | 180        | 270            | 5.2          | 4.0          |      | Austria                   |
| 81           | 68       | 94          | 4.1         | 3.5         | 4.8         | 370           | 300        | 450            | 6.4          | 5.2          |      | Belgium                   |
| 180          | 130      | 230         | 17.8        | 12.9        | 22.8        | 600           | 400        | 800            | 16.5         | 11.0         |      | Bulgaria                  |
| 32           | 27       | 37          | 5.2         | 4.4         | 6.0         | 150           | 120        | 180            | 6.9          | 5.5          |      | Croatia                   |
| 5            | 4<br>37  | 5<br>51     | 2.5         | 2.0         | 2.5         | 21 200        | 17         | 25<br>240      | 3.6          | 2.9          |      | Cyprus                    |
| 44<br>22     | 19       | 26          | 2.7         | 2.3         | 3.1<br>2.8  | 100           | 160<br>81  | 120            | 3.5          | 3.0<br>2.8   |      | Czech Republic<br>Denmark |
| 15           | 13       | 18          | 7.0         | 6.1         | 8.4         | 69            | 55         | 83             | 9.9          | 7.9          |      | Estonia                   |
| 21           | 17       | 24          | 2.3         | 1.9         | 2.6         | 95            | 75         | 110            | 3.4          | 2.7          |      | Finland                   |
| 540          | 470      | 620         | 4.6         | 4.0         | 5.3         | 2 100         | 1700       | 2 500          | 6.4          | 5.1          |      | France                    |
| 480          | 400      | 560         | 4.5         | 3.7         | 5.2         | 2 000         | 1600       | 2500           | 4.8          | 3.8          |      | Germany                   |
| 38           | 32       | 45          | 2.4         | 2.0         | 2.8         | 180           | 140        | 210            | 3.2          | 2.5          |      | Greece                    |
| 58           | 48       | 67          | 4.2         | 3.4         | 4.8         | 260           | 210        | 320            | 5.1          | 4.1          |      | Hungary                   |
| 1            | 1        | 1           | 1.5         | 1.5         | 1.5         | 5             | 4          | 6              | 3.0          | 2.4          |      | Iceland                   |
| 27           | 22       | 31          | 2.6         | 2.1         | 3.0         | 120           | 97         | 150            | 5.0          | 4.0          |      | Ireland                   |
| 360          | 300      | 420         | 4.5         | 3.7         | 5.2         | 1400          | 1100       | 1700           | 4.6          | 3.6          |      | Italy                     |
| 48           | 40       | 56          | 16.0        | 13.3        | 18.6        | 220           | 170        | 260            | 20.9         | 16.1         |      | Latvia                    |
| -            | -        | -           | -           | -           | -           | -             | -          | -              | -            | -            |      | Liechtenstein             |
| 160          | 130      | 190         | 37.3        | 30.3        | 44.3        | 450           | 360        | 530            | 28.9         | 23.1         |      | Lithuania                 |
| 3            | 2        | 3           | 3.1         | 2.1         | 3.1         | 13            | 10         | 16             | 4.5          | 3.4          |      | Luxembourg                |
| 4            | 3        | 4           | 6.4         | 4.8         | 6.4         | 17            | 14         | 20             | 7.9          | 6.5          |      | Malta                     |
| 69           | 58       | 80          | 2.5         | 2.1         | 2.9         | 310           | 250        | 380            | 3.6          | 2.9          | 4.4  | Netherlands               |
| 21           | 18       | 24          | 2.2         | 1.9         | 2.5         | 96            | 76         | 120            | 3.7          | 2.9          | 4.6  | Norway                    |
| 620          | 520      | 720         | 11.0        | 9.2         | 12.7        | 2 000         | 1600       | 2 400          | 10.1         | 8.1          | 12.2 | Poland                    |
| 200          | 170      | 230         | 14.2        | 12.1        | 16.3        | 740           | 590        | 890            | 13.6         | 10.8         | 16.4 | Portugal                  |
| 1 600        | 1300     | 1900        | 53.3        | 43.3        | 63.3        | 4 600         | 3 700      | 5 500          | 45.3         | 36.5         | 54.2 | Romania                   |
| 20           | 17       | 23          | 2.4         | 2.0         | 2.7         | 92            | 73         | 110            | 3.3          | 2.6          | 3.9  | Slovakia                  |
| 10           | 8        | 12          | 3.2         | 2.6         | 3.9         | 45            | 36         | 54             | 4.3          | 3.4          | 5.2  | Slovenia                  |
| 440          | 370      | 510         | 6.5         | 5.4         | 7.5         | 1900          | 1500       | 2 300          | 8.0          | 6.3          | 9.7  | Spain                     |
| 43           | 36       | 50          | 2.5         | 2.1         | 2.9         | 200           | 160        | 240            | 4.0          | 3.2          | 4.8  | Sweden                    |
| 570          | 510      | 640         | 4.9         | 4.4         | 5.5         | 2 500         | 2 200      | 2 900          | 7.5          | 6.6          | 8.6  | United Kingdom            |
| 5 760        | 5 760    | 5 760       | 7.3         | 7.3         | 7.3         | 21 000        | 21 000     | 21 000         | 8.0          | 8.0          | 8.0  | Subtotal EU/EEA           |
|              |          |             |             |             |             |               |            |                |              |              |      | Non-EU/EEA                |
| 45           | 37       | 52          | 8.8         | 7.3         | 10.2        | 200           | 160        | 240            | 13.8         | 11.0         |      | Albania                   |
| 0            | 0        | 0           | 0.0         | 0.0         | 0.0         | 0             | 0          | 0              | 0.0          | 0.0          |      | Andorra                   |
| 81           | 59       | 100         | 13.8        | 10.1        | 17.1        | 370           | 240        | 490            | 23.8         | 15.5         |      | Armenia                   |
| 770          | 550      | 980         | 33.7        | 24.0        | 42.8        | 2 300         | 1 500      | 3 100          | 46.6         | 30.4         |      | Azerbaijan                |
| 410          | 290      | 520         | 25.9        | 18.3        | 32.8        | 1000          | 700        | 1 400          | 19.8         | 13.8         |      | Belarus                   |
| 74           | 54       | 94          | 14.9        | 10.9        | 19.0        | 340           | 220        | 450            | 19.0         | 12.3         |      | Bosnia and Herzegovina    |
| 400          | 320      | 470         | 53.3        | 42.6        | 62.6        | 1 200         | 920        | 1500           | 58.7         | 45.0         |      | Georgia                   |
| 1 200        | 17       | 1 700       | 0.9         | 0.7         | 1.0         | 95            | 75         | 7 400          | 2.3          | 1.8          |      | Israel<br>Kazakhstan      |
| 1 200<br>920 | 690      | 1700        | 23.6        | 13.6        | 33.4        | 4 800         | 2 200      | 7 400<br>4 700 | 51.1         | 23.4<br>91.9 |      | Kazakhstan                |
| 920          | 750<br>0 | 1100        | 47.8<br>0.0 | 39.0<br>0.0 | 57.1<br>0.0 | <i>3700</i> 0 | 2 800      | 4700           | 121.4<br>0.0 | 0.0          |      | Kyrgyzstan<br>Monaco      |
| 7            | 6        | 8           | 6.1         | 5.3         | 7.0         | 30            | 24         | 36             | 9.4          | 7.5          |      | Montenegro                |
| 21           | 15       | 26          | 6.0         | 4.3         | 7.5         | 95            | 63         | 130            | 9.4          | 6.0          |      | North Macedonia           |
| 380          | 320      | 440         | 59.6        | 50.2        | 69.0        | 1100          | 880        | 1300           | 52.2         | 41.8         |      | Republic of Moldova       |
| 2 600        | 1 500    | 3 600       | 10.3        | 5.9         | 14.2        | 26 000        | 13 000     | 40 000         | 33.7         | 16.9         |      | Russian Federation        |
| 0            | 0        | 0           | 0.0         | 0.0         | 0.0         | 0             | 0          | 0              | 0.0          | 0.0          |      | San Marino                |
| 150          | 130      | 170         | 10.4        | 9.0         | 11.8        | 720           | 570        | 880            | 16.0         | 12.7         |      | Serbia                    |
| 47           | 39       | 54          | 3.7         | 3.1         | 4.3         | 210           | 170        | 260            | 4.9          | 4.0          |      | Switzerland               |
| 830          | 610      | 1 100       | 26.4        | 19.4        | 35.0        | 3 400         | 2 300      | 4 600          | 76.6         | 51.8         |      | Tajikistan                |
| 1 400        | 1200     | 1 700       | 6.9         | 6.0         | 8.4         | 5 800         | 4 600      | 7100           | 14.2         | 11.2         |      | Turkey                    |
| 280          | 200      | 360         | 15.7        | 11.2        | 20.2        | 1 000         | 670        | 1 400          | 34.2         | 22.9         |      | Turkmenistan              |
| 3 200        | 1800     | 4 500       | 46.7        | 26.3        | 65.7        | 12 000        | 5 800      | 19 000         | 50.5         | 24.4         |      | Ukraine                   |
| 2 600        | 1 600    | 3 500       | 29.1        | 17.9        | 39.2        | 10 000        | 5 500      | 15 000         | 62.5         | 34.4         |      | Uzbekistan                |
| 15 000       | 14 000   | 16 000      | 17.5        | 16.4        | 18.7        | 74 000        | 67 000     | 81 000         | 35.1         | 31.8         |      | Subtotal non-EU/EEA       |
| 21 000       | 18 000   | 24 000      | 12.7        | 10.9        | 14.5        | 97 000        | 78 000     | 115 000        | 20.5         | 16.5         |      | Total European Region     |
| 17 000       | 16 000   | 18 000      | 18.5        | 17.4        | 19.6        | 79 000        | 72 000     | 86 000         | 32.9         | 30.0         |      | Subtotal 18 HPCs          |
|              |          |             |             |             |             |               |            |                |              |              |      |                           |

Table 2. Estimates for TB/HIV coinfection and MDR-TB, European Region, 2017

| Country/area           | Es     | timated HIV | infection am<br>(new and re |      | t TB cases |      | Estimated p<br>cases amor | ercentage o |      |
|------------------------|--------|-------------|-----------------------------|------|------------|------|---------------------------|-------------|------|
| Country/area           |        | Number      |                             |      | %          |      |                           | %           |      |
|                        | Best   | Low         | High                        | Best | Low        | High | Best                      | Low         | High |
| EU/EEA                 |        |             |                             |      |            |      |                           |             |      |
| Austria                | 29     | 16          | 45                          | 4.5  | 2.9        | 6.0  | 2.3                       | 0.8         | 4.9  |
| Belgium                | 88     | 73          | 100                         | 8.0  | 8.1        | 8.3  | 1.6                       | 0.7         | 3.3  |
| Bulgaria               | 4      | 3           | 5                           | 0.2  | 0.2        | 0.2  | 1.2                       | 0.5         | 2.5  |
| Croatia                | 8      | 4           | 13                          | 1.9  | 1.1        | 2.7  | 0.0                       | 0.0         | 1.4  |
| Cyprus                 | 2      | 1           | 4                           | 3.3  | 2.0        | 5.8  | 0.0                       | 0.0         | 10.0 |
| Czech Republic         | 8      | 5           | 12                          | 1.4  | 1.0        | 1.8  | 2.2                       | 0.9         | 4.6  |
| Denmark                | 9      | 7           | 11                          | 3.1  | 2.8        | 3.2  | 0.7                       | 0.0         | 3.5  |
| Estonia                | 17     | 15          | 20                          | 8.5  | 8.8        | 8.7  | 21.0                      | 14.0        | 29.0 |
| Finland                | 8      | 4           | 13                          | 3.0  | 1.7        | 4.2  | 3.0                       | 0.8         | 7.4  |
| France                 | 830    | 490         | 1300                        | 14.1 | 9.6        | 19.7 | 1.0                       | 0.7         | 1.5  |
| Germany                | 350    | 200         | 550                         | 5.6  | 3.8        | 7.7  | 2.2                       | 0.8         | 4.8  |
| Greece                 | 33     | 18          | 51                          | 6.6  | 4.2        | 8.8  | 1.5                       | 0.0         | 8.0  |
| Hungary                | 11     | 6           | 18                          | 1.5  | 0.9        | 2.1  | 2.9                       | 1.6         | 4.8  |
| Iceland                | 0      | 0           | 0                           | -    | -          | -    | 0.0                       | 0.0         | 41.0 |
| Ireland                | 26     | 17          | 37                          | 7.4  | 5.7        | 9.3  | 1.1                       | 0.0         | 5.8  |
| Italy                  | 470    | 270         | 720                         | 10.7 | 7.1        | 14.1 | 2.8                       | 1.8         | 4.3  |
| Latvia                 | 63     | 53          | 73                          | 10.2 | 10.0       | 10.1 | 8.0                       | 5.4         | 11.0 |
| Liechtenstein          |        |             |                             |      |            |      |                           |             |      |
| Lithuania              | 50     | 42          | 58                          | 3.3  | 3.5        | 3.4  | 14.0                      | 12.0        | 16.0 |
| Luxembourg             | 3      | 2           | 5                           | 8.1  | 6.5        | 11.6 | 2.7                       | 1.5         | 4.4  |
| Malta                  | 0      | 0           | 0                           | -    | -          | -    | 0.0                       | 0.0         | 15.0 |
| Netherlands            | 36     | 30          | 42                          | 4.0  | 3.9        | 4.2  | 1.8                       | 0.7         | 3.9  |
| Norway                 | 13     | 7           | 21                          | 4.8  | 3.0        | 6.8  | 4.5                       | 1.7         | 9.6  |
| Poland                 | 160    | 90          | 250                         | 2.5  | 1.7        | 3.4  | 1.1                       | 0.8         | 1.5  |
| Portugal               | 250    | 210         | 290                         | 12.5 | 12.4       | 12.6 | 1.0                       | 0.5         | 1.7  |
| Romania                | 300    | 250         | 350                         | 2.1  |            |      | 2.5                       | 2.1         | 2.9  |
| Slovakia               |        |             | 0                           | 2.1  | 2.1        | 2.2  | 4.1                       | 1.1         | 10.0 |
|                        | 0      | 0           |                             |      |            |      |                           |             |      |
| Slovenia               | 1      | 1           | 1                           | 0.8  | 0.9        | 0.7  | 0.0                       | 0.0         | 3.9  |
| Spain                  | 370    | 310         | 430                         | 7.4  | 7.2        | 7.4  | 4.2                       | 2.9         | 5.8  |
| Sweden                 | 24     | 14          | 38                          | 4.3  | 2.9        | 5.8  | 3.2                       | 1.4         | 6.2  |
| United Kingdom         | 410    | 230         | 620                         | 6.9  | 4.3        | 9.5  | 1.4                       | 0.9         | 2.0  |
| Subtotal EU/EEA        | 3 600  | 3 060       | 4 140                       | 5.9  | 5.0        | 6.8  | 2.6                       | 1.8         | 3.8  |
| Non-EU/EEA             |        |             |                             |      |            |      |                           |             |      |
| Albania                | 5      | 3           | 7                           | 0.9  | 0.6        | 1.0  | 2.3                       | 0.6         | 5.8  |
| Andorra                | 0      | 0           | 0                           | -    | -          | -    | 0.0                       | 0.0         | 98.0 |
| Armenia                | 75     | 49          | 110                         | 6.8  | 6.1        | 8.5  | 16.0                      | 12.0        | 20.0 |
| Azerbaijan             | 110    | 71          | 160                         | 1.7  | 1.4        | 1.9  | 12.0                      | 11.0        | 14.0 |
| Belarus                | 270    | 210         | 340                         | 7.7  | 7.8        | 7.7  | 38.0                      | 36.0        | 41.0 |
| Bosnia and Herzegovina | 1      | 1           | 2                           | 0.1  | 0.1        | 0.2  | 0.0                       | 0.0         | 1.0  |
| Georgia                | 59     | 49          | 70                          | 1.7  | 1.8        | 1.8  | 11.0                      | 9.7         | 13.0 |
| Israel                 | 14     | 9           | 20                          | 5.2  | 3.9        | 6.5  | 5.4                       | 2.2         | 11.0 |
| Kazakhstan             | 530    | 340         | 750                         | 4.4  | 4.4        | 4.4  | 26.0                      | 25.0        | 28.0 |
| Kyrgyzstan             | 310    | 250         | 370                         | 3.6  | 3.5        | 3.7  | 26.0                      | 24.0        | 27.0 |
| Monaco                 | 0      | 0           | 0                           | -    | -          | _    | 2.7                       | 1.5         | 4.4  |
| Montenegro             | 0      | 0           | 0                           | _    | _          | -    | 0.0                       | 0.0         | 7.3  |
| North Macedonia        | 0      | 0           | 0                           | -    | _          | _    | 0.0                       | 0.0         | 2.7  |
| Republic of Moldova    | 330    | 280         | 390                         | 8.5  | 8.5        | 8.7  | 28.0                      | 25.0        | 30.0 |
| Russian Federation     |        |             |                             |      |            |      |                           |             |      |
|                        | 18 000 | 12 000      | 26 000                      | 20.9 | 21.4       | 21.1 | 32.0                      | 31.0        | 33.0 |
| San Marino             | 0      | 0           | 0                           |      |            |      | 2.7                       | 1.5         | 4.4  |
| Serbia                 | 10     | 6           | 14                          | 0.6  | 0.4        | 0.7  | 1.1                       | 0.5         | 2.2  |
| Switzerland            | 55     | 32          | 85                          | 9.0  | 6.2        | 12.1 | 3.2                       | 1.3         | 6.4  |
| Tajikistan             | 280    | 180         | 400                         | 3.7  | 3.1        | 4.2  | 20.0                      | 19.0        | 22.0 |
| Turkey                 | 100    | 88          | 120                         | 0.7  | 0.7        | 0.8  | 3.3                       | 2.8         | 3.8  |
| Turkmenistan           | 130    | 60          | 230                         | 5.2  | 3.2        | 7.4  | 14.0                      | 11.0        | 18.0 |
| Ukraine                | 8 000  | 5 200       | 11 000                      | 21.6 | 21.7       | 20.8 | 28.0                      | 27.0        | 29.0 |
| Uzbekistan             | 1 200  | 750         | 1700                        | 5.2  | 4.7        | 5.3  | 15.0                      | 14.0        | 16.0 |
| Subtotal non-EU/EEA    | 29 500 | 22 000      | 37 000                      | 13.8 | 12.4       | 14.7 | 20                        | 19          | 21   |
| Total European Region  | 34 000 | 26 000      | 42 000                      | 12.0 | 9.1        | 16.0 | 17                        | 16          | 18   |
| Subtotal 18 HPCs       | 29 800 | 22 000      | 37 000                      | 13.1 | 11.6       | 14.0 | 20                        | 19          | 21   |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HIV = human immunodeficiency virus. HPCs = high-priority countries. RR-TB = rifampicin-resitant tuberculosis.

| cases an         | percentage o<br>long retreate<br>patients |                  |        | RR-TB case<br>Ilmonary TE |           | Country/area           |
|------------------|---|------------------|--------|---------------------------|-----------|------------------------|
|                  | %   |                  |        | Number                    |           | Country/area           |
| Best             | Low                                       | High             | Best   | Low                       | High      |                        |
|                  |   |                  |        |                           |           | EU/EEA                 |
| 18.0             | 3.8                                       | 43.0             | 13     | 5                         | 21        | Austria                |
| 8.8              | 1.9                                       | 24.0             | 16     | 6                         | 25        | Belgium                |
| 19.0             | 11.0                                      | 29.0             | 44     | 27                        | 61        | Bulgaria               |
| 0.0              | 0.0                                       | 16.0             | 0      | 0                         | 3         | Croatia                |
| 12.0             | 8.0                                       | 17.0             | 0      | 0                         | 2         | Cyprus                 |
| 12.0             | 2.4                                       | 30.0             | 13     | 5                         | 21        | Czech Republic         |
| 0.0              | 0.0                                       | 21.0             | 1      | 0                         | 5         | Denmark                |
| 52.0             | 30.0                                      | 74.0             | 45     | 33                        | 56        | Estonia                |
| 67.0             | 9.4                                       | 99.0             | 9      | 3                         | 14        | Finland                |
| 10.0             | 7.1                                       | 15.0             | 65     | 48                        | 82        | France                 |
| 23.0             | 16.0                                      | 30.0             | 140    | 65                        | 210       | Germany                |
| 9.1              | 0.2                                       | 41.0             | 10 23  | 0                         | 24        | Greece                 |
| 8.1              | 3.3                                       | 16.0<br>98.0     | 0      | 13                        | 32        | Hungary<br>Iceland     |
| 0.0              | 0.0                                       | 31.0             | 2      | 0                         | 7         | Ireland                |
| 13.0             | 7.7                                       | 21.0             | 91     | 59                        | 120       | Italy                  |
| 31.0             | 19.0                                      | 44.0             | 57     | 42                        |           | Latvia                 |
| 51.0             | 17.0                                      | 44.0             | 31     | 42                        | 12        | Liechtenstein          |
| 54.0             | 48.0                                      | 60.0             | 290    | 260                       | 310       | Lithuania              |
| 12.0             | 8.0                                       | 17.0             | 1      | 0                         | 1         | Luxembourg             |
| 12.0             | 8.0                                       | 17.0             | 0      | 0                         | 4         | Malta                  |
| 7.1              | 0.2                                       | 34.0             | 9      | 3                         | 16        | Netherlands            |
| 0.0              | 0.0                                       | 34.0             | 7      | 0                         | 13        | Norway                 |
| 3.9              | 2.2                                       | 6.3              | 80     | 59                        | 100       | Poland                 |
| 6.9              | 2.8                                       | 14.0             | 19     | 10                        | 27        | Portugal               |
| 15.0             | 14.0                                      | 17.0             | 590    | 540                       | 650       | Romania                |
| 7.7              | 1.0                                       | 25.0             | 10     | 2                         | 18        | Slovakia               |
| 0.0              | 0.0                                       | 71.0             | 0      | 0                         | 2         | Slovenia               |
| 18.0             | 9.4                                       | 30.0             | 170    | 120                       | 210       | Spain                  |
| 9.5              | 1.2                                       | 30.0             | 13     | 5                         | 20        | Sweden                 |
| 4.7              | 1.7                                       | 9.9              | 55     | 36                        | 74        | United Kingdom         |
| 12.1             | 8.7                                       | 20.2             | 1800   | 1 680                     | 1 900     | Subtotal EU/EEA        |
|                  |   |                  |        |                           |           | Non-EU/EEA             |
| 6.7              | 0.2                                       | 32.0             | 9      | 1                         | 17        | Albania                |
| 12.0             | 8.0                                       | 17.0             | 0      | 0                         | 1         | Andorra                |
| 44.0             | 35.0                                      | 54.0             | 180    | 150                       | 210       | Armenia                |
| 28.0             | 27.0                                      | 30.0             | 1300   | 1200                      | 1300      | Azerbaijan             |
| 67.0             | 63.0                                      | 70.0             | 1300   | 1 300                     | 1 400     | Belarus                |
| 0.0              | 0.0                                       | 8.2              | 0      | 360                       | 440       | Bosnia and Herzegovina |
| <i>30.0</i> 50.0 | 26.0<br>1.3                               | <i>34.0</i> 99.0 | 400    |                           | 440<br>20 | Georgia<br>Israel      |
| 44.0             | 42.0                                      | 46.0             | 3 600  | 3 500                     | 3 700     | Kazakhstan             |
| 61.0             | 58.0                                      | 64.0             | 2 300  | 2 200                     |           | Kyrgyzstan             |
| 12.0             | 8.0                                       | 17.0             | 0      | 0                         | 2 400     | Monaco                 |
| 11.0             | 0.3                                       | 48.0             | 2      | 0                         |           | Montenegro             |
| 0.0              | 0.0                                       | 18.0             | 0      | 0                         |           | North Macedonia        |
| 55.0             | 51.0                                      | 59.0             | 1300   | 1200                      |           | Republic of Moldova    |
| 67.0             | 66.0                                      | 67.0             | 49 000 | 49 000                    |           | Russian Federation     |
| 12.0             | 8.0                                       | 17.0             | 0      | 0                         | 0         |                        |
| 4.7              | 1.3                                       | 11.0             | 16     | 7                         | 26        |                        |
| 26.0             | 9.1                                       | 51.0             | 19     | 9                         |           | Switzerland            |
| 23.0             | 20.0                                      | 27.0             | 940    | 870                       | 1 000     | Tajikistan             |
| 14.0             | 11.0                                      | 17.0             | 350    | 310                       |           | Turkey                 |
| 38.0             | 31.0                                      | 46.0             | 340    | 290                       | 390       | Turkmenistan           |
| 48.0             | 47.0                                      | 49.0             | 10 000 | 9 800                     | 10 000    | Ukraine                |
| 57.0             | 55.0                                      | 60.0             | 3 900  | 3 800                     | 4 100     | Uzbekistan             |
| 53               | 46  | 61               |        |                           |           | Subtotal non-EU/EEA    |
| 53               | 46  | 61               | 77 000 | 76 000                    |           | Total European Region  |
| 53               | 46  | 61               | 75 900 | 76 000                    | 76 000    | Subtotal 18 HPCs       |

Table 3. TB cases, notification rates per 100 000 population and mean annual change in rates, European Region, 2013-2017

|                                      | 201     | 3     | 201     | 4     | 2015    | 5     | 2016    |       | 2017    |       | Mean annual %                |
|--------------------------------------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|------------------------------|
| Country/area                         | N       | Rate  | change in rate,<br>2013–2017 |
| EU/EEA                               |         |       |         |       |         |       |         |       |         |       | 2013-201/                    |
| Austria                              | 653     | 7.7   | 586     | 6.9   | 583     | 6.8   | 634     | 7.3   | 570     | 6.5   | -4.2%                        |
| Belgium                              | 963     | 8.6   | 949     | 8.5   | 977     | 8.7   | 1042    | 9.2   | 972     | 8.6   | -0.2%                        |
| Bulgaria                             | 1 932   | 26.5  | 1 872   | 25.8  | 1 660   | 23.0  | 1 603   | 22.4  | 1 463   | 20.6  | -6.1%                        |
| Croatia                              | 517     | 12.1  | 499     | 11.7  | 488     | 11.5  | 464     | 11.1  | 371     | 8.9   | -7.4%                        |
| Cyprus                               | 41      | 4.7   | 41      | 4.8   | 63      | 7.4   | 60      | 7.1   | 53      | 6.2   | 7.0%                         |
| Czech Republic                       | 497     | 4.7   | 511     | 4.9   | 517     | 4.9   | 516     | 4.9   | 505     | 4.8   | 0.3%                         |
| Denmark                              | 356     | 6.4   | 320     | 5.7   | 357     | 6.3   | 330     | 5.8   | 275     | 4.8   | -6.9%                        |
| Estonia                              | 290     | 22.0  | 248     | 18.8  | 217     | 16.5  | 193     | 14.7  | 175     | 13.3  | -11.8%                       |
| Finland                              | 273     | 5.0   | 263     | 4.8   | 270     | 4.9   | 233     | 4.2   | 237     | 4.3   | -3.8%                        |
| France                               | 4 947   | 7.5   | 4 888   | 7.4   | 4 744   | 7.1   | 4 907   | 7.4   | 5 131   | 7.7   | 0.4%                         |
| Germany                              | 4 3 4 0 | 5.4   | 4 524   | 5.6   | 5 834   | 7.1   | 5 949   | 7.2   | 5 486   | 6.6   | 5.4%                         |
| Greece                               | 540     | 4.9   | 519     | 4.7   | 482     | 4.4   | 440     | 4.1   | 467     | 4.3   | -3.0%                        |
|                                      | 1045    | 10.5  | 851     | 8.6   | 906     | 9.2   | 786     | 8.0   | 685     | 7.0   | -9.8%                        |
| Hungary                              |         |       | 9       |       |         | 2.1   |         |       |         | 4.1   | 4.9%                         |
| Iceland                              | 11      | 3.4   |         | 2.8   | 7       |       | 6       | 1.8   | 14      |       |                              |
| Ireland                              | 374     | 8.1   | 311     | 6.7   | 283     | 6.1   | 315     | 6.7   | 318     | 6.6   | -4.9%                        |
| Italy                                | 3 973   | 6.7   | 3 916   | 6.4   | 3 769   | 6.2   | 4 032   | 6.6   | 3 944   | 6.5   | -0.6%                        |
| Latvia                               | 904     | 44.7  | 761     | 38.0  | 721     | 36.3  | 660     | 33.5  | 552     | 28.3  | -10.8%                       |
| Liechtenstein                        | 0       | 0.0   | 1       | 2.7   | 2       | 5.4   | 2       | 5.3   | 1       | 2.6   | -                            |
| Lithuania                            | 1705    | 57.4  | 1 607   | 54.6  | 1 507   | 51.6  | 1 442   | 49.9  | 1 387   | 48.7  | -4.0%                        |
| Luxembourg                           | 38      | 7.1   | 24      | 4.4   | 30      | 5.3   | 29      | 5.0   | 32      | 5.4   | -6.5%                        |
| Malta                                | 50      | 11.8  | 46      | 10.7  | 32      | 7.3   | 50      | 11.1  | 42      | 9.1   | -6.3%                        |
| Netherlands                          | 845     | 5.0   | 814     | 4.8   | 862     | 5.1   | 887     | 5.2   | 787     | 4.6   | -2.2%                        |
| Norway                               | 392     | 7.8   | 323     | 6.3   | 313     | 6.1   | 295     | 5.7   | 261     | 5.0   | -10.6%                       |
| Poland                               | 7 250   | 19.0  | 6 698   | 17.6  | 6 430   | 16.9  | 6 444   | 17.0  | 5 787   | 15.2  | -5.4%                        |
| Portugal                             | 2 410   | 23.0  | 2 278   | 21.8  | 2 196   | 21.2  | 1936    | 18.7  | 1800    | 17.5  | -6.6%                        |
| Romania                              | 16 689  | 83.4  | 15 879  | 79.6  | 15 183  | 76.4  | 13 601  | 68.8  | 13 004  | 66.2  | -5.6%                        |
| Slovakia                             | 401     | 7.4   | 336     | 6.2   | 317     | 5.8   | 296     | 5.5   | 249     | 4.6   | -11.3%                       |
| Slovenia                             | 140     | 6.8   | 144     | 7.0   | 130     | 6.3   | 118     | 5.7   | 112     | 5.4   | -5.5%                        |
| Spain                                | 5 632   | 12.1  | 4 913   | 10.6  | 5 021   | 10.8  | 5 063   | 10.9  | 4 570   | 9.8   | -5.0%                        |
| Sweden                               | 639     | 6.7   | 659     | 6.8   | 815     | 8.4   | 714     | 7.2   | 520     | 5.2   | -6.1%                        |
| United Kingdom                       | 7 870   | 12.3  | 7 029   | 10.9  | 6 224   | 9.6   | 6 116   | 9.4   | 5 567   | 8.5   | -9.0%                        |
| Subtotal EU/EEA                      | 65 717  | 12.9  | 61 819  | 12.1  | 60 940  | 11.9  | 59 163  | 11.5  | 55 337  | 10.7  | -4.5%                        |
| Non-EU/EEA                           |         |       |         |       |         |       |         | ·     |         | ·     |                              |
| Albania                              | 474     | 16.2  | 408     | 14.0  | 415     | 14.2  | 415     | 14.2  | 503     | 17.2  | 1.4%                         |
| Andorra                              | 5       | 6.2   | 6       | 7.6   | 4       | 5.1   | 4       | 5.2   | 1       | 1.3   | -32.3%                       |
| Armenia                              | 1 417   | 49.0  | 1 342   | 46.2  | 1 185   | 40.6  | 1 080   | 36.9  | 926     | 31.6  | -10.4%                       |
| Azerbaijan                           | 8 597   | 91.6  | 7 539   | 79.3  | 7 501   | 78.0  | 6 707   | 69.0  | 7 129   | 72.5  | -5.7%                        |
| Belarus                              | 4 859   | 51.3  | 4 274   | 45.1  | 4 177   | 44.0  | 3 598   | 38.0  | 3 052   | 32.2  | -11.0%                       |
| Bosnia and Herzegovina               | 1 261   | 35.0  | 1196    | 33.5  | 1 0 9 5 | 31.0  | 907     | 25.8  | 768     | 21.9  | -11.0%                       |
| Georgia                              | 4 319   | 106.7 | 3 850   | 96.4  | 3 611   | 91.4  | 3 330   | 84.8  | 2 927   | 74.8  | -8.5%                        |
| Israel                               | 308     | 3.9   | 361     | 4.5   | 280     | 3.5   | 250     | 3.1   | 234     | 2.8   | -8.1%                        |
| Kazakhstan                           | 19 857  | 115.4 | 15 718  | 89.9  | 14 631  | 82.4  | 12 658  | 70.4  | 12 942  | 71.1  | -11.4%                       |
| Kyrgyzstan                           | 7 209   | 126.8 | 7 423   | 128.5 | 7 833   | 133.5 | 7 995   | 134.2 | 7 695   | 127.3 | 0.1%                         |
| Monaco                               | 0       | 0.0   | 0       | 0.0   | 0       | 0.0   | 0       | 0.0   | 0       | 0.0   | 0.0%                         |
|                                      | 120     | 19.1  | 113     | 18.0  | 80      | 12.7  | 87      | 13.8  | 77      | 12.2  | 0.0%                         |
| Montenegro North Macadonia           |         |       |         |       |         |       |         |       |         |       |                              |
| North Macedonia                      | 323     | 15.6  | 285     | 13.7  | 284     | 13.7  | 267     | 12.8  | 219     | 10.5  | -9.3%                        |
| Republic of Moldova                  | 5 051   | 124.0 | 4 636   | 113.9 | 4 211   | 103.6 | 4 134   | 101.8 | 3 858   | 95.2  | -6.4%                        |
| Russian Federation                   | 142 533 | 99.3  | 136 168 | 94.7  | 130 904 | 91.0  | 121 046 | 84.1  | 114 187 | 79.3  | -5.5%                        |
| San Marino                           | 0       | 0.0   | 0       | 0.0   | 0       | 0.0   | 0       | 0.0   | 0       | 0.0   | 0.0%                         |
| Serbia                               | 2 127   | 23.8  | 1832    | 20.6  | 1658    | 18.7  | 1488    | 16.9  | 1466    | 16.7  | -8.6%                        |
| Serbia excluding Kosovo <sup>a</sup> | 1 205   | 17.0  | 998     | 14.1  | 888     | 12.5  | 767     | 10.9  | 745     | 10.7  | -11.0%                       |
| Kosovoa                              | 922     | 50.6  | 834     | 46.2  | 770     | 43.5  | 721     | 40.4  | 721     | 40.1  | -5.7%                        |
| Switzerland                          | 526     | 6.5   | 473     | 5.7   | 564     | 6.8   | 609     | 7.2   | 555     | 6.5   | 0.3%                         |
| Tajikistan                           | 6 495   | 79.4  | 6 260   | 74.9  | 6 232   | 72.9  | 6 241   | 71.4  | 6 279   | 70.4  | -3.0%                        |
| Turkey                               | 13 409  | 17.7  | 13 378  | 17.4  | 12 772  | 16.3  | 12 417  | 15.6  | 12 046  | 14.9  | -4.2%                        |
| Turkmenistan                         | 3 676   | 68.5  | 2 854   | 52.2  | 2 472   | 44.4  | 2 340   | 41.3  | 2 232   | 38.8  | -13.3%                       |
| Ukraine                              | 48 134  | 106.7 | 40 302  | 89.8  | 35 304  | 79.1  | 34 088  | 76.7  | 31 584  | 71.4  | -9.5%                        |
| Uzbekistan                           | 25 168  | 83.8  | 22 804  | 74.8  | 19 055  | 61.5  | 18 441  | 58.6  | 19 329  | 60.6  | -7.8%                        |
| Subtotal non-EU/EEA                  | 295 868 | 74.9  | 271 222 | 68.2  | 254 268 | 63.5  | 238 102 | 59.2  | 228 009 | 56.3  | -6.9%                        |
| Total European Region                | 361 585 | 39.9  | 333 041 | 36.6  | 315 208 | 34.5  | 297 265 | 32.4  | 283 346 | 30.7  | -6.3%                        |
| Subtotal 18 HPCs                     | 312 244 | 79    | 286 915 | 72    | 269 176 | 67    | 251 574 | 63    | 240 767 | 59.8  | -6.8%                        |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. For TB cases and notification rates by country and year for the period 1995–2016, see: ECDC (2017). Surveillance atlas of infectious diseases. In: European Centre for Disease Prevention and Control [website]. Stockholm: ECDC (http://www.ecdc.europa.eu/en/data-tools/atlas/Pages/atlas.aspx). The data published in this report might differ from figures in national reports due to different times of reporting. The deadline for correcting and updating the data used in this report in the joint database was 5 October 2018. HPCs = high-priority countries.

\*\*For the purposes of this publication, all references to "Kosovo" in the tables and annexes, should be understood/read as "Kosovo (in accordance with Security Council resolution 1244 (1999)".

Table 4. New TB cases and relapses, a notification rates per 100 000 population and mean annual change in rates, European Region, 2013-2017

|                                      | 2013                         |                      | 201                          | 4            | 201                          | 5                                  | 2016                         |                      | 2017                         |                      | Mean annual %                |
|--------------------------------------|------------------------------|----------------------|------------------------------|--------------|------------------------------|------------------------------------|------------------------------|----------------------|------------------------------|----------------------|------------------------------|
| Country/area                         | N                            | Rate                 | N                            | Rate         | N                            | Rate                               | N                            | Rate                 | N                            | Rate                 | change in rate,<br>2013–2017 |
| EU/EEA                               |                              |                      |                              |              |                              |                                    |                              |                      |                              |                      | 2013 2017                    |
| Austria                              | 628                          | 7.4                  | 567                          | 6.7          | 564                          | 6.6                                | 619                          | 7.1                  | 562                          | 6.4                  | -3.6%                        |
| Belgium <sup>b</sup>                 | 890                          | 8.0                  | 878                          | 7.9          | 919                          | 8.2                                | 982                          | 8.7                  | 916                          | 8.1                  | 0.2%                         |
| Bulgaria                             | 1 930                        | 26.5                 | 1 825                        | 25.2         | 1 619                        | 22.5                               | 1 525                        | 21.3                 | 1 408                        | 19.8                 | -7.0%                        |
| Croatia                              | 511                          | 12.0                 | 498                          | 11.7         | 485                          | 11.5                               | 452                          | 10.8                 | 364                          | 8.8                  | -7.5%                        |
| Cyprus                               | 41                           | 4.7                  | 39                           | 4.5          | 63                           | 7.4                                | 57                           | 6.7                  | 52                           | 6.1                  | 6.5%                         |
| Czech Republic                       | 468                          | 4.5                  | 472                          | 4.5          | 507                          | 4.8                                | 511                          | 4.8                  | 499                          | 4.7                  | 1.5%                         |
| Denmark <sup>b</sup>                 | 330                          | 5.9                  | 293                          | 5.2          | 320                          | 5.7                                | 292                          | 5.1                  | 253                          | 4.4                  | -7.0%                        |
| Estonia                              | 265                          | 20.1                 | 237                          | 18.0         | 206                          | 15.7                               | 189                          | 14.4                 | 171                          | 13.0                 | -10.3%                       |
| Finland                              | 267                          | 4.9                  | 256                          | 4.7          | 267                          | 4.9                                | 222                          | 4.0                  | 234                          | 4.3                  | -3.6%                        |
| France                               | 4 947                        | 7.5                  | 4 888                        | 7.4          | 4 457                        | 6.7                                | 4 675                        | 7.0                  | 4 839                        | 7.2                  | -1.1%                        |
| Germany                              | 4 947                        | 5.1                  | 4 350                        | 5.4          | 5 623                        | 6.9                                | 5 763                        | 7.0                  | 5 353                        | 6.5                  | 6.3%                         |
| ,                                    | 4094                         |                      |                              |              |                              |                                    |                              |                      |                              |                      |                              |
| Greece                               |                              | 4.5                  | 484                          | 4.4          | 438                          | 4.0                                | 417                          | 3.9                  | 434                          | 4.0                  | -2.7%                        |
| Hungary                              | 1040                         | 10.5                 | 799                          | 8.1          | 858                          | 8.7                                | 737                          | 7.5                  | 650                          | 6.6                  | -10.8%                       |
| Iceland                              | 11                           | 3.4                  | 9                            | 2.8          | 7                            | 2.1                                | 6                            | 1.8                  | 13                           | 3.8                  | 3.0%                         |
| Ireland <sup>b</sup>                 | 350                          | 7.6                  | 290                          | 6.3          | 266                          | 5.7                                | 291                          | 6.2                  | 301                          | 6.3                  | -4.6%                        |
| Italy                                | 3 435                        | 5.8                  | 3 663                        | 6.0          | 3 476                        | 5.7                                | 3 778                        | 6.2                  | 3 828                        | 6.3                  | 2.4%                         |
| Latvia                               | 872                          | 43.1                 | 738                          | 36.9         | 697                          | 35.1                               | 641                          | 32.6                 | 543                          | 27.8                 | -10.3%                       |
| Liechtenstein                        | 0                            | 0.0                  | 0                            | 0.0          | 1                            | 2.7                                | 2                            | 5.3                  | 1                            | 2.6                  | _                            |
| Lithuania                            | 1 573                        | 52.9                 | 1 481                        | 50.3         | 1 395                        | 47.8                               | 1347                         | 46.6                 | 1268                         | 44.5                 | -4.2%                        |
| Luxembourg                           | 38                           | 7.1                  | 24                           | 4.4          | 30                           | 5.3                                | 29                           | 5.0                  | 32                           | 5.4                  | -6.5%                        |
| Malta                                | 50                           | 11.8                 | 45                           | 10.5         | 32                           | 7.3                                | 50                           | 11.1                 | 42                           | 9.1                  | -6.3%                        |
| Netherlands                          | 828                          | 4.9                  | 805                          | 4.8          | 846                          | 5.0                                | 875                          | 5.2                  | 776                          | 4.5                  | -2.0%                        |
| Norway <sup>b</sup>                  | 354                          | 7.0                  | 299                          | 5.9          | 282                          | 5.5                                | 273                          | 5.2                  | 237                          | 4.5                  | -10.4%                       |
| Poland                               | 7 043                        | 18.5                 | 6 539                        | 17.2         | 6 237                        | 16.4                               | 6 143                        | 16.2                 | 5 535                        | 14.6                 | -5.8%                        |
| Portugal                             | 2 356                        | 22.5                 | 2 223                        | 21.3         | 2 155                        | 20.8                               | 1891                         | 18.3                 | 1760                         | 17.1                 | -6.6%                        |
| Romania                              | 15 505                       | 77.4                 | 14 834                       | 74.4         | 14 215                       | 71.5                               | 12 774                       | 64.6                 | 12 310                       | 62.7                 | -5.2%                        |
| Slovakia                             | 398                          | 7.4                  | 320                          | 5.9          | 308                          | 5.7                                | 281                          | 5.2                  | 228                          | 4.2                  | -13.1%                       |
| Slovenia                             | 139                          | 6.8                  | 142                          | 6.9          | 129                          | 6.3                                | 118                          | 5.7                  | 112                          | 5.4                  | -5.3%                        |
| Spain                                | 5 328                        | 11.4                 | 4 685                        | 10.1         | 4 819                        | 10.4                               | 4 915                        | 10.6                 | 4 379                        | 9.4                  | -4.7%                        |
| Sweden                               | 603                          | 6.3                  | 625                          | 6.5          | 776                          | 8.0                                | 691                          | 7.0                  | 488                          | 4.9                  | -6.2%                        |
| United Kingdom <sup>b</sup>          | 7 341                        | 11.5                 | 6 5 6 9                      | 10.2         | 5 838                        | 9.0                                | 5 726                        | 8.8                  | 5 248                        | 8.0                  | -8.7%                        |
| Subtotal EU/EEA                      | 62 129                       | 12.2                 | 58 877                       | 11.5         | 57 835                       | 11.3                               | 56 272                       | 10.9                 | 52 836                       | 10.2                 | -4.3%                        |
| Non-EU/EEA                           | 02 127                       | 12.2                 | 30 011                       | 11.5         | 31 033                       | 11.5                               | 30 212                       | 10.7                 | J2 030                       | 10.2                 | 7.570                        |
| Albania                              | 474                          | 16.2                 | 408                          | 14.0         | 415                          | 14.2                               | 415                          | 14.2                 | 503                          | 17.2                 | 1.4%                         |
| Andorra                              | 5                            | 6.2                  | 6                            | 7.6          | 413                          | 5.1                                | 413                          | 5.2                  | 1                            | 1.3                  | -32.3%                       |
|                                      | 1 397                        |                      |                              |              |                              |                                    |                              |                      |                              | 28.7                 |                              |
| Armenia                              |                              | 48.3                 | 1 329                        | 45.7         | 1 171                        | 40.1                               | 1 027                        | 35.1                 | 841                          |                      | -12.2%                       |
| Azerbaijan                           | 5 860                        | 62.4                 | 5 788                        | 60.9         | 5 456                        | 56.7                               | 5 159                        | 53.0                 | 5 231                        | 53.2                 | -3.9%                        |
| Belarus                              | 4 470                        | 47.2                 | 3 858                        | 40.7         | 3 765                        | 39.7                               | 3 211                        | 33.9                 | 2 781                        | 29.4                 | -11.2%                       |
| Bosnia and Herzegovina               | 1 261                        | 35.0                 | 1 196                        | 33.5         | 1092                         | 30.9                               | 907                          | 25.8                 | 766                          | 21.8                 | -11.1%                       |
| Georgia                              | 3 434                        | 84.9                 | 3 200                        | 80.2         | 3 152                        | 79.8                               | 2 983                        | 76.0                 | 2 597                        | 66.4                 | -6.0%                        |
| Israel                               | 308                          | 3.9                  | 361                          | 4.5          | 280                          | 3.5                                | 250                          | 3.1                  | 234                          | 2.8                  | -8.1%                        |
| Kazakhstan                           | 18 958                       | 110.2                | 15 244                       | 87.2         | 14 006                       | 78.9                               | 12 322                       | 68.5                 | 12 449                       | 68.4                 | -11.2%                       |
| Kyrgyzstan                           | 7 075                        | 124.5                | 6 390                        | 110.7        | 7 027                        | 119.8                              | 7 026                        | 118.0                | 6 687                        | 110.6                | -2.9%                        |
| Monaco                               | 0                            | 0.0                  | 0                            | 0.0          | 0                            | 0.0                                | 0                            | 0.0                  | 0                            | 0.0                  | -                            |
| Montenegro                           | 119                          | 19.0                 | 113                          | 18.0         | 80                           | 12.7                               | 87                           | 13.8                 | 75                           | 11.9                 | 0.0%                         |
| North Macedonia                      | 318                          | 15.3                 | 284                          | 13.7         | 282                          | 13.6                               | 263                          | 12.6                 | 216                          | 10.4                 | -9.3%                        |
| Republic of Moldova                  | 4 485                        | 110.1                | 4 058                        | 99.7         | 3 608                        | 88.7                               | 3 571                        | 88.0                 | 3 358                        | 82.9                 | -6.9%                        |
| Russian Federation                   | 106 053                      | 73.9                 | 102 340                      | 71.2         | 99 590                       | 69.2                               | 92 407                       | 64.2                 | 84 510                       | 58.7                 | -5.6%                        |
| San Marino                           | 0                            | 0.0                  | 0                            | 0.0          | 0                            | 0.0                                | 0                            | 0.0                  | 0                            | 0.0                  | 0.0%                         |
| Serbia                               | 2 10 6                       | 23.6                 | 1 818                        | 20.5         | 1649                         | 18.6                               | 1 472                        | 16.7                 | 1 450                        | 16.5                 | -8.6%                        |
| Serbia excluding Kosovo <sup>c</sup> | 1 114                        | 15.7                 | 984                          | 13.9         | 879                          | 12.4                               | 755                          | 10.7                 | 738                          | 10.6                 | -9.4%                        |
| Kosovo <sup>c</sup>                  | 992                          | 54.5                 | 834                          | 46.2         | 770                          | 43.5                               | 717                          | 40.2                 | 712                          | 39.6                 | -7.7%                        |
| Switzerland                          | 466                          | 5.7                  | 423                          | 5.1          | 531                          | 6.4                                | 573                          | 6.8                  | 529                          | 6.2                  | 2.2%                         |
| Tajikistan                           | 5 576                        | 68.2                 | 5 807                        | 69.4         | 5 894                        | 68.9                               | 5 965                        | 68.3                 | 5 895                        | 66.1                 | -0.8%                        |
| Turkey                               | 13 170                       | 17.4                 | 13 108                       | 17.0         | 12 550                       | 16.0                               | 12 186                       | 15.3                 | 11 821                       | 14.6                 | -4.2%                        |
| Turkmenistan                         | 3 047                        | 56.8                 | 2 537                        | 46.4         | 2 191                        | 39.4                               | 2 068                        | 36.5                 | 1968                         | 34.2                 | -11.9%                       |
|                                      |                              |                      |                              |              |                              |                                    |                              |                      |                              |                      |                              |
|                                      | 36 510                       | 80.9                 | 31 701                       | 70.6         | 30 151                       | 67.5                               | 29 052                       | 65.4                 | 27 229                       | 61.6                 | -6.6%                        |
| Ukraine                              | 20.042                       | (0.0                 | 10 2 / 5                     | / / /        | 1/ 245                       |                                    |                              |                      |                              |                      |                              |
| Uzbekistan                           | 20 812                       | 69.3                 | 18 345                       | 60.1         | 16 315                       | 52.7                               | 16 050                       | 51.0                 | 16 842                       | 52.8                 | -6.6%                        |
|                                      | 20 812<br>235 904<br>298 033 | 69.3<br>59.7<br>32.9 | 18 345<br>218 314<br>277 191 | 54.9<br>30.5 | 16 315<br>209 209<br>267 044 | 52.7<br><b>52.3</b><br><b>29.2</b> | 16 050<br>196 998<br>253 270 | 51.0<br>48.9<br>27.6 | 16 842<br>185 983<br>238 819 | 52.8<br>45.9<br>25.9 | -6.6%<br>-6.3%<br>-5.8%      |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. The data published in this report might differ from figures in national reports due to different times of reporting. The deadline for correcting and updating the data used in this report in the joint database was 5 October 2018. HPCs = high-priority countries.

\*\*Cases with unknown previous TB history are included among new TB cases.

\*\*Previous TB history is defined by previous diagnosis.

\*\*Cases with unknown previous TB history are included among new TB cases.

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Table 5. TB cases by history of previous TB treatment, European Region, 2017

|   |               |                  |                         |                 |                   |                  |                          |                   | Previously        | treated          |                                   |                           |   |                                 |                     |
|---|---------------|------------------|-------------------------|-----------------|-------------------|------------------|--------------------------|-------------------|-------------------|------------------|-----------------------------------|---------------------------|---|---------------------------------|---------------------|
| Country/area                            | Nev           |                  | Unkn<br>previo<br>histo | us TB<br>ory    | Previo<br>treated | toťal            | Previ<br>treatr<br>compl | nent<br>eted      | Previ<br>treatmen | t failed         | Lost to fol<br>from pre<br>treatm | vious<br>ent <sup>b</sup> | Otl<br>retrea<br>(incl. ui<br>prev<br>treat<br>deta | tment<br>iknown<br>ious<br>ment | All TB<br>cases     |
|   | N             | (%) <sup>c</sup> | N                       | (%)'            | N                 | (%)°             | N                        | (%)⁴              | N                 | (%)⁴             | N                                 | (%) <sup>d</sup>          | N   | (%)⁴                            | <u> </u>            |
| EU/EEA                                  | /20           | (75.4)           | 440                     | (20.7)          | 2/                | (( 2)            | 16                       | ((( 7)            | 0                 | (0.0)            | 0                                 | (0, 0)                    | 0   | (22.2)                          | 570                 |
| Austria                                 | 428           | (75.1)<br>(73.6) | 118                     | (20.7)          | 24                | (4.2)            | 16                       | (66.7)            | 0                 | (0.0)            | 0                                 | (0.0)                     | 8   | (33.3)                          | 570                 |
| Belgium <sup>e</sup>                    | 715           |                  | 201                     | (20.7)          | 56                | (5.8)            | 0                        |                   | 0                 |                  | 0                                 | (0.0)                     | 56  |                                 | 972                 |
| Bulgaria<br>Croatia                     | 1 272<br>299  | (86.9)           | <i>0</i> 52             | (0.0)<br>(14.0) | 191<br>20         | (13.1)<br>(5.4)  | <i>136</i>               | (71.2)<br>(65.0)  | 16                | (8.4)            | 14                                | (7.3)                     | <i>25</i>   | (13.1)<br>(5.0)                 | <i>1 463</i><br>371 |
| Cyprus                                  | 51            | (96.2)           | 1                       | (1.9)           | 1                 | (1.9)            | 0                        | (0.0)             | 0                 | (0.0)            | 0                                 | (0.0)                     | 1   | (100.0)                         | 53                  |
| Czech Republic                          | 472           | (93.5)           | 0                       | (0.0)           | 33                | (6.5)            | 27                       | (81.8)            | 1                 | (3.0)            | 1                                 | (3.0)                     | 4   | (12.1)                          | 505                 |
| Denmark <sup>e</sup>                    | 253           | (92.0)           | 0                       | (0.0)           | 22                | (8.0)            | 0                        | (0.0)             | 0                 | (0.0)            | 0                                 | (0.0)                     | 22  | (100.0)                         | 275                 |
| Estonia                                 | 146           | (83.4)           | 0                       | (0.0)           | 29                | (16.6)           | 25                       | (86.2)            | 4                 | (13.8)           | 0                                 | (0.0)                     | 0   | (0.0)                           | 175                 |
| Finland                                 | 225           | (94.9)           | 5                       | (2.1)           | 7                 | (3.0)            | 4                        | (57.1)            | 0                 | (0.0)            | 0                                 | (0.0)                     | 3   | (42.9)                          | 237                 |
| France                                  | 2 616         | (51.0)           | 2 223                   | (43.3)          | 292               | (5.7)            | 0                        | (0.0)             | 0                 | (0.0)            | 0                                 | (0.0)                     | 292   | (100.0)                         | 5 131               |
| Germany                                 | 110           | (2.0)            | 5 142                   | (93.7)          | 234               | (4.3)            | 101                      | (43.2)            | 4                 | (1.7)            | 48                                | (20.5)                    | 81  | (34.6)                          | 5 486               |
| Greece                                  | 379           | (81.2)           | 35                      | (7.5)           | 53                | (11.3)           | 20                       | (37.7)            | 1                 | (1.9)            | 0                                 | (0.0)                     | 32  | (60.4)                          | 467                 |
| Hungary                                 | 616           | (89.9)           | 0                       | (0.0)           | 69                | (10.1)           | 34                       | (49.3)            | 0                 | (0.0)            | 29                                | (42.0)                    | 6   | (8.7)                           | 685                 |
| Iceland                                 | 12            | (85.7)           | 0                       | (0.0)           | 2                 | (14.3)           | 1                        | (50.0)            | 0                 | (0.0)            | 0                                 | (0.0)                     | 1   | (50.0)                          | 14                  |
| Ireland <sup>e</sup>                    | 175           | (55.0)           | 126                     | (39.6)          | 17                | (5.3)            | 0                        | (0.0)             | 0                 | (0.0)            | 0                                 | (0.0)                     | 17  | (100.0)                         | 318                 |
| Italy                                   | 2 866         | (72.7)           | 962                     | (24.4)          | 116               | (2.9)            | 0                        | (0.0)             | 0                 | (0.0)            | 0                                 | (0.0)                     | 116   | (100.0)                         | 3 944               |
| Latvia                                  | 483           | (87.5)           | 0                       | (0.0)           | 69                | (12.5)           | 60                       | (87.0)            | 1                 | (1.4)            | 8                                 | (11.6)                    | 0   | (0.0)                           | 552                 |
| Liechtenstein                           | 1             | (100.0)          | 0                       | (0.0)           | 0                 | (0.0)            | 0                        | -                 | 0                 | -                | 0                                 | -                         | 0   | -                               | 1                   |
| Lithuania                               | 1 116         | (80.5)           | 0                       | (0.0)           | 271               | (19.5)           | 152                      | (56.1)            | 41                | (15.1)           | 78                                | (28.8)                    | 0   | (0.0)                           | 1 387               |
| Luxembourg                              | 0             | (0.0)            | 32                      | (100.0)         | 0                 | (0.0)            | 0                        | -                 | 0                 | -                | 0                                 | -                         | 0   | -                               | 32                  |
| Malta                                   | 42            | (100.0)          | 0                       | (0.0)           | 0                 | (0.0)            | 0                        | -                 | 0                 | -                | 0                                 | -                         | 0   | -                               | 42                  |
| Netherlands                             | 756           | (96.1)           | 4                       | (0.5)           | 27                | (3.4)            | 16                       | (59.3)            | 0                 | (0.0)            | 2                                 | (7.4)                     | 9   | (33.3)                          | 787                 |
| Norwaye                                 | 225           | (86.2)           | 12                      | (4.6)           | 24                | (9.2)            | 0                        | (0.0)             | 0                 | (0.0)            | 0                                 | (0.0)                     | 24  | (100.0)                         | 261                 |
| Poland                                  | 5 127         | (88.6)           | 0                       | (0.0)           | 660               | (11.4)           | 408                      | (61.8)            | 0                 | (0.0)            | 0                                 | (0.0)                     | 252   | (38.2)                          | 5 787               |
| Portugal                                | 1680          | (93.3)           | 0                       | (0.0)           | 120               | (6.7)            | 1 022                    | (66.7)            | 1                 | (0.8)            | 21                                | (17.5)<br>(13.9)          | 18  | (15.0)<br>(0.0)                 | 1800                |
| Romania<br>Slovakia                     | 10 377<br>207 | (79.8)<br>(83.1) | 0                       | (0.0)           | 2 627<br>41       | (20.2)<br>(16.5) | 1 933<br>20              | (73.6)<br>(48.8)  | <i>328</i> 5      | (12.5)<br>(12.2) | 366<br>0                          | (0.0)                     | <i>0</i>  | (39.0)                          | 13 004<br>249       |
| Slovenia                                | 107           | (95.5)           | 0                       | (0.0)           | 5                 | (4.5)            | 5                        | (100.0)           | 0                 | (0.0)            | 0                                 | (0.0)                     | 0   | (0.0)                           | 112                 |
| Spain                                   | 3 663         | (80.2)           | 716                     | (15.7)          | 191               | (4.2)            | 0                        | (0.0)             | 0                 | (0.0)            | 0                                 | (0.0)                     | 191   | (100.0)                         | 4 570               |
| Sweden                                  | 458           | (88.1)           | 26                      | (5.0)           | 36                | (6.9)            | 4                        | (11.1)            | 0                 | (0.0)            | 3                                 | (8.3)                     | 29  | (80.6)                          | 520                 |
| United Kingdom <sup>e</sup>             | 5 026         | (90.3)           | 222                     | (4.0)           | 319               | (5.7)            | 0                        | (0.0)             | 0                 | (0.0)            | 0                                 | (0.0)                     | 319   | (100.0)                         | 5 5 6 7             |
| Subtotal EU/EEA                         | 39 903        | (72.1)           | 9 878                   | (17.9)          | 5 556             | (10.0)           | 3 055                    | (55.0)            | 408               | (7.3)            | 570                               | (10.3)                    | 1523  | (27.4)                          | 55 337              |
| Non-EU/EEA                              |               |                  |                         |                 |                   |                  |                          |                   |                   |                  |                                   |                           |   |                                 |                     |
| Albania                                 | 479           | (95.2)           | -                       | -               | 24                | (4.8)            | 24                       | (0.0)             | -                 | -                | -                                 | -                         | -   | -                               | 503                 |
| Andorra                                 | 1             | (100.0)          | -                       | -               | 0                 | (0.0)            | 0                        | (0.0)             | -                 | -                | -                                 | -                         | -   | -                               | 1                   |
| Armenia                                 | 691           | (74.6)           | -                       | -               | 235               | (25.4)           | 150                      | (63.8)            | -                 | -                | -                                 | -                         | -   | -                               | 926                 |
| Azerbaijan                              | 3 871         | (54.3)           | -                       | -               | 3 258             | (45.7)           | 1 360                    | (41.7)            | -                 | -                | -                                 | -                         | -   | -                               | 7 129               |
| Belarus                                 | 2 289         | (75.0)           | -                       | -               | 763               | (25.0)           | 492                      | (64.5)            | -                 | -                | -                                 | -                         | -   | -                               | 3 052               |
| Bosnia and Herzegovina                  | 698           | (90.9)           | -                       | -               | 70                | (9.1)            | 68                       | (97.1)            | -                 | -                | -                                 | -                         | -   | -                               | 768                 |
| Georgia                                 | 2 164         | (73.9)           | -                       | -               | 763               | (26.1)           | 433                      | (56.7)            | -                 | -                | -                                 | -                         | -   | -                               | 2 927               |
| Israel<br>Kazakhstan                    | 227<br>9 417  | (97.0)<br>(72.8) |                         | _               | 3 525             | (3.0)<br>(27.2)  | 3 032                    | (100.0)<br>(86.0) | _                 | _                | _                                 | -                         | _   | -                               | 234<br>12 942       |
| Kyrgyzstan                              | 5 630         | (73.2)           | _                       | _               | 2 065             | (26.8)           | 1 057                    | (51.2)            | _                 | _                | _                                 | _                         | _   | _                               | 7 695               |
| Monaco                                  | 7 0 0 0       | (/ 3.2)          | -                       | _               | 0                 | (20.0)           | 0                        | ()1.2)            | _                 | _                | _                                 | _                         | _   | _                               | 0                   |
| Montenegro                              | 63            | (81.8)           | _                       | _               | 14                | (0.0)            | 12                       | (0.0)             | _                 | _                | _                                 | _                         | _   | _                               | 77                  |
| North Macedonia                         | 197           | (90.0)           | -                       | -               | 22                | (10.0)           | 19                       | (86.4)            | -                 | -                | -                                 | _                         | -   | -                               | 219                 |
| Republic of Moldova                     | 2 690         | (69.7)           | -                       | -               | 1168              | (30.3)           | 668                      | (57.2)            | -                 | _                | -                                 | -                         | _   | -                               | 3 858               |
| Russian Federation                      | 70 861        | (62.1)           | -                       | -               | 43 326            | (37.9)           | 13 649                   | (31.5)            | _                 | -                | -                                 | -                         | -   | -                               | 114 187             |
| San Marino                              |               |                  | -                       | -               | 0                 | (0.0)            | 0                        | (0.0)             | -                 | -                | -                                 | -                         | -   | -                               | 0                   |
| Serbia                                  | 1 354         | (92.4)           | -                       | -               | 112               | (7.6)            | 96                       | (85.7)            | -                 | -                | -                                 | -                         | -   | -                               | 1466                |
| Serbia excluding<br>Kosovo <sup>f</sup> | 676           | (90.7)           | -                       | -               | 69                | (9.3)            | 62                       | (89.9)            | -                 | -                | -                                 | -                         | -   | -                               | 745                 |
| Kosovo <sup>f</sup>                     | 678           | (94.0)           | -                       | -               | 43                | (6.0)            | 34                       | (79.1)            | -                 | _                | _                                 | _                         | -   | -                               | 721                 |
| Switzerland                             | 529           | (95.3)           | -                       | -               | 26                | (4.7)            | 0                        | (0.0)             | -                 | -                | -                                 | -                         | _   | -                               | 555                 |
| Tajikistan                              | 5 231         | (83.3)           | -                       | -               | 1 048             | (16.7)           | 664                      | (63.4)            | -                 | -                | -                                 | -                         | -   | -                               | 6 279               |
| Turkey                                  | 11 101        | (92.2)           | -                       | -               | 945               | (7.8)            | 720                      | (76.2)            | -                 | -                | -                                 | -                         | _   | -                               | 12 046              |
| Turkmenistan                            | 1880          | (84.2)           | -                       | -               | 352               | (15.8)           | 88                       | (25.0)            | -                 | -                | -                                 | -                         | -   | -                               | 2 232               |
| Ukraine                                 | 21 899        | (69.3)           | -                       | -               | 9 685             | (30.7)           | 5 330                    | (55.0)            | -                 | -                | -                                 | -                         | -   | -                               | 31 584              |
| Uzbekistan                              | 14 553        | (75.3)           |                         |                 | 4 776             | (24.7)           | 2 289                    | (47.9)            |                   |                  |                                   |                           |   |                                 | 19 329              |
| Subtotal non-EU/EEA                     | 155 825       | (68.3)           | -                       | -               | 72 184            | (31.7)           | 30 158                   | (41.8)            | -                 | -                | -                                 | -                         | -   | -                               | 228 009             |
| Total European Region                   | 195 728       | (69.1)           | 9 878                   | (3.5)           | 77 740            | (27.4)           | 33 213                   | (42.7)            | -                 | -                | -                                 | -                         | -   | -                               | 283 346             |
| Subtotal 18 HPCs                        | 165 671       | (68.8)           | -                       | -               | 75 096            | (31.2)           | 32 238                   | (42.9)            | -                 | -                | -                                 | -                         | -   | -                               | 240 767             |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics.

HPCs = high-priority countries.

For non-EU/EEA countries and areas, cases with unknown previous TB history are included among new TB cases.

Percentage among all TB cases.

Percentage among previously treated TB cases.

Previous TB history is defined by previous diagnosis.

(In accordance with Security Council Resolution 1244 (1999)).

Table 6. TB cases by site of disease, EU/EEA, 2017

|                |           |         | Pulmona                 | iry    |            |         |           |        |             |       |         |
|----------------|-----------|---------|-------------------------|--------|------------|---------|-----------|--------|-------------|-------|---------|
| Country        | Pulmonary | y only  | Pulmonary<br>extrapulmo |        | Total pulm | onary   | Extrapulm | onary  | No site rep | orted | Total   |
|                | N         | (%)     | N                       | (%)    | N          | (%)     | N         | (%)    | N           | (%)   | N       |
| EU/EEA         |           |         |                         |        |            |         |           |        |             |       |         |
| Austria        | 366       | (64.2)  | 65                      | (11.4) | 431        | (75.6)  | 139       | (24.4) | 0           | (0.0) | 570     |
| Belgium        | 580       | (59.7)  | 117                     | (12.0) | 697        | (71.7)  | 275       | (28.3) | 0           | (0.0) | 972     |
| Bulgaria       | 1 049     | (71.7)  | 52                      | (3.6)  | 1 101      | (75.3)  | 362       | (24.7) | 0           | (0.0) | 1 463   |
| Croatia        | 310       | (83.6)  | 17                      | (4.6)  | 327        | (88.1)  | 38        | (10.2) | 6           | (1.6) | 371     |
| Cyprus         | 41        | (77.4)  | 3                       | (5.7)  | 44         | (83.0)  | 9         | (17.0) | 0           | (0.0) | 53      |
| Czech Republic | 423       | (83.8)  | 16                      | (3.2)  | 439        | (86.9)  | 66        | (13.1) | 0           | (0.0) | 505     |
| Denmark        | 208       | (75.6)  | 10                      | (3.6)  | 218        | (79.3)  | 57        | (20.7) | 0           | (0.0) | 275     |
| Estonia        | 141       | (80.6)  | 27                      | (15.4) | 168        | (96.0)  | 7         | (4.0)  | 0           | (0.0) | 175     |
| Finland        | 169       | (71.3)  | 0                       | (0.0)  | 169        | (71.3)  | 68        | (28.7) | 0           | (0.0) | 237     |
| France         | 2 640     | (51.5)  | 914                     | (17.8) | 3 554      | (69.3)  | 1 415     | (27.6) | 162         | (3.2) | 5 131   |
| Germany        | 3 260     | (59.4)  | 632                     | (11.5) | 3 892      | (70.9)  | 1375      | (25.1) | 219         | (4.0) | 5 486   |
| Greece         | 334       | (71.5)  | 57                      | (12.2) | 391        | (83.7)  | 60        | (12.8) | 16          | (3.4) | 467     |
| Hungary        | 647       | (94.5)  | 11                      | (1.6)  | 658        | (96.1)  | 27        | (3.9)  | 0           | (0.0) | 685     |
| Iceland        | 8         | (57.1)  | 3                       | (21.4) | 11         | (78.6)  | 3         | (21.4) | 0           | (0.0) | 14      |
| Ireland        | 189       | (59.4)  | 21                      | (6.6)  | 210        | (66.0)  | 96        | (30.2) | 12          | (3.8) | 318     |
| Italy          | 2 713     | (68.8)  | 59                      | (1.5)  | 2 772      | (70.3)  | 1164      | (29.5) | 8           | (0.2) | 3 944   |
| Latvia         | 486       | (88.0)  | 36                      | (6.5)  | 522        | (94.6)  | 30        | (5.4)  | 0           | (0.0) | 552     |
| Liechtenstein  | 1         | (100.0) | 0                       | (0.0)  | 1          | (100.0) | 0         | (0.0)  | 0           | (0.0) | 1       |
| Lithuania      | 1 2 6 9   | (91.5)  | 16                      | (1.2)  | 1 285      | (92.6)  | 102       | (7.4)  | 0           | (0.0) | 1 387   |
| Luxembourg     | 24        | (75.0)  | 0                       | (0.0)  | 24         | (75.0)  | 8         | (25.0) | 0           | (0.0) | 32      |
| Malta          | 17        | (40.5)  | 13                      | (31.0) | 30         | (71.4)  | 12        | (28.6) | 0           | (0.0) | 42      |
| Netherlands    | 376       | (47.8)  | 81                      | (10.3) | 457        | (58.1)  | 328       | (41.7) | 2           | (0.3) | 787     |
| Norway         | 101       | (38.7)  | 57                      | (21.8) | 158        | (60.5)  | 103       | (39.5) | 0           | (0.0) | 261     |
| Poland         | 5 510     | (95.2)  | 21                      | (0.4)  | 5 531      | (95.6)  | 256       | (4.4)  | 0           | (0.0) | 5 787   |
| Portugal       | 1147      | (63.7)  | 143                     | (7.9)  | 1290       | (71.7)  | 507       | (28.2) | 3           | (0.2) | 1800    |
| Romania        | 10 266    | (78.9)  | 781                     | (6.0)  | 11 047     | (85.0)  | 1 957     | (15.0) | 0           | (0.0) | 13 004  |
| Slovakia       | 157       | (63.1)  | 49                      | (19.7) | 206        | (82.7)  | 43        | (17.3) | 0           | (0.0) | 249     |
| Slovenia       | 76        | (67.9)  | 15                      | (13.4) | 91         | (81.3)  | 21        | (18.8) | 0           | (0.0) | 112     |
| Spain          | 2 961     | (64.8)  | 354                     | (7.7)  | 3 315      | (72.5)  | 1 255     | (27.5) | 0           | (0.0) | 4 570   |
| Sweden         | 250       | (48.1)  | 74                      | (14.2) | 324        | (62.3)  | 196       | (37.7) | 0           | (0.0) | 520     |
| United Kingdom | 2 3 6 9   | (42.6)  | 679                     | (12.2) | 3 048      | (54.8)  | 2 504     | (45.0) | 15          | (0.3) | 5 5 6 7 |
| Total EU/EEA   | 38 088    | (68.8)  | 4 323                   | (7.8)  | 42 411     | (76.6)  | 12 483    | (22.6) | 443         | (0.8) | 55 337  |

 $\it Note$ : WHO European Region TB HPCs are presented in italics. HPCs = high-priority countries.

Table 7. New and relapse<sup>a</sup> pulmonary<sup>b</sup> TB cases by diagnostic method, EU/EEA, 2017

|                             |        |                  |           | New an  | d relapse pu                                     | lmonary 1                      | B cases                         |                 |                    |         |           |         |
|-----------------------------|--------|------------------|-----------|---------|--|--------------------------------|---------------------------------|-----------------|--------------------|---------|-----------|---------|
|                             |        |                  | Confirmed |         | e, smear an                                      | d/or nucle                     |                                 | ification       |                    |         | All pulmo | mary TD |
| Country                     | N      | (%) <sup>d</sup> | N         | (%)°    | Confirmed<br>WHO-recor<br>rapid tests<br>Xpert M | nmended<br>s such as<br>FB/RIF | Confirmed<br>bacterio<br>test o | logical<br>only | Clinic<br>diagnose | d cáses | cas       | es      |
|                             |        |                  |           |         | N  | (%)8                           | N                               | (%)⁵            | N                  | (%)⁵    | N         | (%)h    |
| EU/EEA                      |        | ()               |           | ()      |  | ()                             |                                 | ()              |                    | (1.5.4) |           | ()      |
| Austria                     | 424    | (98.4)           | 379       | (89.4)  | 254  | (67.0)                         | 125                             | (33.0)          | 45                 | (10.6)  | 431       | (75.6)  |
| Belgiumi                    | 651    | (93.4)           | 563       | (86.5)  | 379  | (67.3)                         | 184                             | (32.7)          | 88                 | (13.5)  | 697       | (71.7)  |
| Bulgaria                    | 1 052  | (95.5)           | 694       | (66.0)  | 2  | (0.3)                          | 692                             | (99.7)          | 358                | (34.0)  | 1 101     | (75.3)  |
| Croatia                     | 326    | (97.9)           | 287       | (88.0)  | 0  | (0.0)                          | 287                             | (100.0)         | 39                 | (12.0)  | 333       | (89.8)  |
| Cyprus                      | 43     | (97.7)           | 39        | (90.7)  | 11   | (28.2)                         | 28                              | (71.8)          | 4                  | (9.3)   | 44        | (83.0)  |
| Czech Republic              | 433    | (98.6)           | 366       | (84.5)  | 245  | (66.9)                         | 121                             | (33.1)          | 67                 | (15.5)  | 439       | (86.9)  |
| Denmarki                    | 197    | (90.4)           | 159       | (80.7)  | 89   | (56.0)                         | 70                              | (44.0)          | 38                 | (19.3)  | 218       | (79.3)  |
| Estonia                     | 164    | (97.6)           | 141       | (86.0)  | 131  | (92.9)                         | 10                              | (7.1)           | 23                 | (14.0)  | 168       | (96.0)  |
| Finland                     | 166    | (98.2)           | 146       | (88.0)  | 69   | (47.3)                         | 77                              | (52.7)          | 20                 | (12.0)  | 169       | (71.3)  |
| France                      | 3 489  | (93.9)           | 2 494     | (71.5)  | 0  | (0.0)                          | 2 494                           | (100.0)         | 995                | (28.5)  | 3 716     | (72.4)  |
| Germany                     | 3 994  | (97.2)           | 3 262     | (81.7)  | 2 397  | (73.5)                         | 865                             | (26.5)          | 732                | (18.3)  | 4 111     | (74.9)  |
| Greece                      | 379    | (93.1)           | 313       | (82.6)  | 178  | (56.9)                         | 135                             | (43.1)          | 66                 | (17.4)  | 407       | (87.2)  |
| Hungary                     | 624    | (94.8)           | 333       | (53.4)  | 0  | (0.0)                          | 333                             | (100.0)         | 291                | (46.6)  | 658       | (96.1)  |
| Iceland                     | 11     | (100.0)          | 8         | (72.7)  | 8  | (100.0)                        | 0                               | (0.0)           | 3                  | (27.3)  | 11        | (78.6)  |
| Ireland <sup>i</sup>        | 212    | (95.5)           | 165       | (77.8)  | 84   | (50.9)                         | 81                              | (49.1)          | 47                 | (22.2)  | 222       | (69.8)  |
| Italy                       | 2 685  | (96.6)           | 2 160     | (80.4)  | 0  | (0.0)                          | 2 160                           | (100.0)         | 525                | (19.6)  | 2 780     | (70.5)  |
| Latvia                      | 513    | (98.3)           | 443       | (86.4)  | 175  | (39.5)                         | 268                             | (60.5)          | 70                 | (13.6)  | 522       | (94.6)  |
| Liechtenstein               | 1      | (100.0)          | 1         | (100.0) | 1  | (100.0)                        | 0                               | (0.0)           | 0                  | (0.0)   | 1         | (100.0) |
| Lithuania                   | 1 166  | (90.7)           | 1 004     | (86.1)  | 0  | (0.0)                          | 1 004                           | (100.0)         | 162                | (13.9)  | 1 285     | (92.6)  |
| Luxembourg                  | 24     | (100.0)          | 21        | (87.5)  | 0  | (0.0)                          | 21                              | (100.0)         | 3                  | (12.5)  | 24        | (75.0)  |
| Malta                       | 30     | (100.0)          | 25        | (83.3)  | 12   | (48.0)                         | 13                              | (52.0)          | 5                  | (16.7)  | 30        | (71.4)  |
| Netherlands                 | 452    | (98.5)           | 367       | (81.2)  | 0  | (0.0)                          | 367                             | (100.0)         | 85                 | (18.8)  | 459       | (58.3)  |
| Norwayi                     | 149    | (94.3)           | 137       | (91.9)  | 83   | (60.6)                         | 54                              | (39.4)          | 12                 | (8.1)   | 158       | (60.5)  |
| Poland                      | 5 285  | (95.6)           | 3 944     | (74.6)  | 996  | (25.3)                         | 2 948                           | (74.7)          | 1341               | (25.4)  | 5 531     | (95.6)  |
| Portugal                    | 1259   | (97.4)           | 1 112     | (88.3)  | 259  | (23.3)                         | 853                             | (76.7)          | 147                | (11.7)  | 1293      | (71.8)  |
| Romania                     | 10 362 | (93.8)           | 8 686     | (83.8)  | 2 483  | (28.6)                         | 6 203                           | (71.4)          | 1 676              | (16.2)  | 11 047    | (85.0)  |
| Slovakia                    | 187    | (90.8)           | 134       | (71.7)  | 44   | (32.8)                         | 90                              | (67.2)          | 53                 | (28.3)  | 206       | (82.7)  |
| Slovenia                    | 91     | (100.0)          | 89        | (97.8)  | 56   | (62.9)                         | 33                              | (37.1)          | 2                  | (2.2)   | 91        | (81.3)  |
| Spain                       | 3 159  | (95.3)           | 2 735     | (86.6)  | 896  | (32.8)                         | 1839                            | (67.2)          | 424                | (13.4)  | 3 315     | (72.5)  |
| Sweden                      | 301    | (92.9)           | 273       | (90.7)  | 213  | (78.0)                         | 60                              | (22.0)          | 28                 | (9.3)   | 324       | (62.3)  |
| United Kingdom <sup>i</sup> | 2 875  | (93.9)           | 2 245     | (78.1)  | 222  | (9.9)                          | 2 023                           | (90.1)          | 630                | (21.9)  | 3 063     | (55.0)  |
| Total EU/EEA                | 40 704 | (95.0)           | 32 725    | (80.4)  | 9 287  | (28.4)                         | 23 438                          | (71.6)          | 7 979              | (19.6)  | 42 854    | (77.4)  |

- Note: WHO European Region TB HPCs are presented in italics.

  #PCs = high-priority countries.

  \* Cases with unknown previous TB history are included among new TB cases.

  \* For the EU/EEA countries, cases with no disease site reported are included among pulmonary TB cases.

  \* Microscopy results from any specimen are included for EU/EEA countries.

  \* Percentage among all pulmonary TB cases.

  \* Percentage among all new and relapse pulmonary TB cases.

  \* All nucleic acid amplification tests are counted as "confirmed by WHO-recommended rapid diagnostics" for EU/EEA countries.

  \* Percentage among all new and relapse pulmonary TB cases confirmed by culture, smear and/or nucleic acid amplification test.

  \* Percentage among all new and relapse pulmonary TB cases confirmed by culture, smear and/or nucleic acid amplification test.

  \* Percentage among all by the cases.

  \* Previous TB history is defined by previous diagnosis.

Table 7a. New and relapse TB cases by diagnostic method, EU/EEA, 2017

|                             |        |         |           | N                | ew and relap  | se TB cas                    | es                      |                  |                    |                  |                 |
|-----------------------------|--------|---------|-----------|------------------|---|------------------------------|-------------------------|------------------|--------------------|------------------|-----------------|
|                             |        |         | Confirmed | by cultur        | e, smear and<br>tes                                     | d/or nucle<br>t <sup>b</sup> | ic acid amp             | lification       |                    |                  |                 |
| Country                     | N      | (%)ʻ    | N         | (%) <sup>d</sup> | Confirmed<br>WHO-recor<br>rapid dias<br>such<br>Xpert M | nmended<br>snostics<br>as    | Confirmed<br>bacteriolo |                  | Clinic<br>diagnose |                  | All TB<br>cases |
|                             |        |         |           |                  | N   | (%) <sup>f</sup>             | N                       | (%) <sup>f</sup> | N                  | (%) <sup>d</sup> | N               |
| EU/EEA                      |        |         |           |                  |   |                              |                         |                  |                    |                  |                 |
| Austria                     | 562    | (98.6)  | 491       | (87.4)           | 323   | (65.8)                       | 168                     | (34.2)           | 71                 | (12.6)           | 570             |
| Belgium <sup>g</sup>        | 916    | (94.2)  | 756       | (82.5)           | 484   | (64.0)                       | 272                     | (36.0)           | 160                | (17.5)           | 972             |
| Bulgaria                    | 1 408  | (96.2)  | 718       | (51.0)           | 5   | (0.7)                        | 713                     | (99.3)           | 690                | (49.0)           | 1 463           |
| Croatia                     | 364    | (98.1)  | 315       | (86.5)           | 0   | (0.0)                        | 315                     | (100.0)          | 49                 | (13.5)           | 371             |
| Cyprus                      | 52     | (98.1)  | 45        | (86.5)           | 14  | (31.1)                       | 31                      | (68.9)           | 7                  | (13.5)           | 53              |
| Czech Republic              | 499    | (98.8)  | 414       | (83.0)           | 276   | (66.7)                       | 138                     | (33.3)           | 85                 | (17.0)           | 505             |
| Denmark <sup>g</sup>        | 253    | (92.0)  | 204       | (80.6)           | 104   | (51.0)                       | 100                     | (49.0)           | 49                 | (19.4)           | 275             |
| Estonia                     | 171    | (97.7)  | 145       | (84.8)           | 134   | (92.4)                       | 11                      | (7.6)            | 26                 | (15.2)           | 175             |
| Finland                     | 234    | (98.7)  | 204       | (87.2)           | 89  | (43.6)                       | 115                     | (56.4)           | 30                 | (12.8)           | 237             |
| France                      | 4 839  | (94.3)  | 3 054     | (63.1)           | 0   | (0.0)                        | 3 054                   | (100.0)          | 1785               | (36.9)           | 5 131           |
| Germany                     | 5 353  | (97.6)  | 4 318     | (80.7)           | 3 049   | (70.6)                       | 1269                    | (29.4)           | 1 0 3 5            | (19.3)           | 5 486           |
| Greece                      | 434    | (92.9)  | 339       | (78.1)           | 200   | (59.0)                       | 139                     | (41.0)           | 95                 | (21.9)           | 467             |
| Hungary                     | 650    | (94.9)  | 341       | (52.5)           | 0   | (0.0)                        | 341                     | (100.0)          | 309                | (47.5)           | 685             |
| Iceland                     | 13     | (92.9)  | 10        | (76.9)           | 10  | (100.0)                      | 0                       | (0.0)            | 3                  | (23.1)           | 14              |
| Irelandg                    | 301    | (94.7)  | 214       | (71.1)           | 112   | (52.3)                       | 102                     | (47.7)           | 87                 | (28.9)           | 318             |
| Italy                       | 3 828  | (97.1)  | 3 022     | (78.9)           | 0   | (0.0)                        | 3 022                   | (100.0)          | 806                | (21.1)           | 3 944           |
| Latvia                      | 543    | (98.4)  | 455       | (83.8)           | 178   | (39.1)                       | 277                     | (60.9)           | 88                 | (16.2)           | 552             |
| Liechtenstein               | 1      | (100.0) | 1         | (100.0)          | 1   | (100.0)                      | 0                       | (0.0)            | 0                  | (0.0)            | 1               |
| Lithuania                   | 1268   | (91.4)  | 1 029     | (81.2)           | 0   | (0.0)                        | 1 029                   | (100.0)          | 239                | (18.8)           | 1 387           |
| Luxembourg                  | 32     | (100.0) | 23        | (71.9)           | 0   | (0.0)                        | 23                      | (100.0)          | 9                  | (28.1)           | 32              |
| Malta                       | 42     | (100.0) | 34        | (81.0)           | 13  | (38.2)                       | 21                      | (61.8)           | 8                  | (19.0)           | 42              |
| Netherlands                 | 776    | (98.6)  | 537       | (69.2)           | 0   | (0.0)                        | 537                     | (100.0)          | 239                | (30.8)           | 787             |
| Norway <sup>g</sup>         | 237    | (90.8)  | 207       | (87.3)           | 118   | (57.0)                       | 89                      | (43.0)           | 30                 | (12.7)           | 261             |
| Poland                      | 5 535  | (95.6)  | 4 073     | (73,6)           | 1037  | (25.5)                       | 3 036                   | (74.5)           | 1462               | (26.4)           | 5 787           |
| Portugal                    | 1760   | (97.8)  | 1309      | (74.4)           | 320   | (24.4)                       | 989                     | (75.6)           | 451                | (25.6)           | 1800            |
| Romania                     | 12 310 | (94.7)  | 9 054     | (73.5)           | 2 579   | (28.5)                       | 6 475                   | (71.5)           | 3 256              | (26.5)           | 13 004          |
| Slovakia                    | 228    | (91.6)  | 149       | (65.4)           | 56  | (37.6)                       | 93                      | (62.4)           | 79                 | (34.6)           | 249             |
| Slovenia                    | 112    | (100.0) | 109       | (97.3)           | 61  | (56.0)                       | 48                      | (44.0)           | 3                  | (2.7)            | 112             |
| Spain                       | 4 379  | (95.8)  | 3 420     | (78.1)           | 1 137   | (33.2)                       | 2 283                   | (66.8)           | 959                | (21.9)           | 4 570           |
| Sweden                      | 488    | (93.8)  | 420       | (86.1)           | 323   | (76.9)                       | 97                      | (23.1)           | 68                 | (13.9)           | 520             |
| United Kingdom <sup>g</sup> | 5 248  | (94.3)  | 3 441     | (65.6)           | 321   | (9.3)                        | 3 120                   | (90.7)           | 1807               | (34.4)           | 5 567           |
| Total EU/EEA                | 52 836 | (95.5)  | 38 851    | (73.5)           | 10 944  | (28.2)                       | 27 907                  | (71.8)           | 13 985             | (26.5)           | 55 337          |

- Wote: WHO European Region TB HPCs are presented in italics.

  HPCs = high-priority countries.

  \*\*Cases with unknown previous TB history are included among new TB cases.

  \*\*Microscopy results from any specimen are included for EU/EEA countries.

  \*\*Percentage among all TB cases.

  \*\*Percentage among all new and relapse TB cases confirmed by WHO-recommended rapid diagnostics" for EU/EEA countries.

  \*\*Percentage among all new and relapse TB cases confirmed by culture, smear and/or nucleic acid amplification test.

  \*\*Previous TB history is defined by previous diagnosis.

Table 7b. TB cases by history of previous TB treatment, site of disease and diagnostic method according to the WHO definitions, European Region, 2017

|                                      |         |         |         | Ne      | w <sup>b</sup> and rela |         | es      |        |           |         |                    |                  |                 |
|--------------------------------------|---------|---------|---------|---------|-------------------------|---------|---------|--------|-----------|---------|--------------------|------------------|-----------------|
| Country/area                         |         |         |         |         | Pulmo<br>Labora         |         | Clinic  | aller  | Extrapul  | nonary  | Previously<br>case |                  | All TB<br>cases |
| Country/area                         | N       | (%)°    | N       | (%)°    | confir                  |         | diagno  |        | LAttaputi | nonal y |                    |                  |                 |
|                                      |         |         |         |         | N                       | (%)⁵    | N       | (%)⁵   | N         | (%)•    | N                  | (%) <sup>c</sup> | N               |
| EU/EEA                               |         |         |         |         |                         |         |         |        |           |         |                    |                  |                 |
| Austria                              | 562     | (98.6)  | 424     | (75.4)  | 379                     | (89.4)  | 45      | (10.6) | 138       | (24.6)  | 8                  | (1.4)            | 570             |
| Belgium <sup>h</sup>                 | 916     | (94.2)  | 651     | (71.1)  | 563                     | (86.5)  | 88      | (13.5) | 265       | (28.9)  | 56                 | (5.8)            | 972             |
| Bulgaria                             | 1 408   | (96.2)  | 1 052   | (74.7)  | 694                     | (66.0)  | 358     | (34.0) | 356       | (25.3)  | 55                 | (3.8)            | 1 463           |
| Croatia                              | 364     | (98.1)  | 326     | (89.6)  | 287                     | (88.0)  | 39      | (12.0) | 38        | (10.4)  | 7                  | (1.9)            | 371             |
| Cyprus                               | 52      | (98.1)  | 43      | (82.7)  | 39                      | (90.7)  | 4       | (9.3)  | 9         | (17.3)  | 1                  | (1.9)            | 53              |
| Czech Republic                       | 499     | (98.8)  | 433     | (86.8)  | 366                     | (84.5)  | 67      | (15.5) | 66        | (13.2)  | 6                  | (1.2)            | 505             |
| Denmark <sup>h</sup>                 | 253     | (92.0)  | 197     | (77.9)  | 159                     | (80.7)  | 38      | (19.3) | 56        | (22.1)  | 22                 | (8.0)            | 275             |
| Estonia                              | 171     | (97.7)  | 164     | (95.9)  | 141                     | (86.0)  | 23      | (14.0) | 7         | (4.1)   | 4                  | (2.3)            | 175             |
| Finland                              | 234     | (98.7)  | 166     | (70.9)  | 146                     | (88.0)  | 20      | (12.0) | 68        | (29.1)  | 3                  | (1.3)            | 237             |
| France                               | 4 839   | (94.3)  | 3 489   | (72.1)  | 2 494                   | (71.5)  | 995     | (28.5) | 1350      | (27.9)  | 292                | (5.7)            | 5 131           |
| Germany                              | 5 353   | (97.6)  | 3 994   | (74.6)  | 3 262                   | (81.7)  | 732     | (18.3) | 1359      | (25.4)  | 133                | (2.4)            | 5 486           |
| Greece                               | 434     | (92.9)  | 379     | (87.3)  | 313                     | (82.6)  | 66      | (17.4) | 55        | (12.7)  | 33                 | (7.1)            | 467             |
| Hungary                              | 650     | (94.9)  | 624     | (96.0)  | 333                     | (53.4)  | 291     | (46.6) | 26        | (4.0)   | 35                 | (5.1)            | 685             |
| Iceland                              | 13      | (92.9)  | 11      | (84.6)  | 8                       | (72.7)  | 3       | (27.3) | 2         | (15.4)  | 1                  | (7.1)            | 14              |
| Ireland <sup>h</sup>                 | 301     | (94.7)  | 212     | (70.4)  | 165                     | (77.8)  | 47      | (22.2) | 89        | (29.6)  | 17                 | (5.3)            | 318             |
| Italy                                | 3 828   | (97.1)  | 2 685   | (70.1)  | 2 160                   | (80.4)  | 525     | (19.6) | 1143      | (29.9)  | 116                | (2.9)            | 3 944           |
| Latvia                               | 543     | (98.4)  | 513     | (94.5)  | 443                     | (86.4)  | 70      | (13.6) | 30        | (5.5)   | 9                  | (1.6)            | 552             |
| Liechtenstein                        | 1       | (100.0) | 1       | (100.0) | 1                       | (100.0) | 0       | (0.0)  | 0         | (0.0)   | 0                  | (0.0)            | 1               |
| Lithuania                            | 1268    | (91.4)  | 1 166   | (92.0)  | 1 0 0 4                 | (86.1)  | 162     | (13.9) | 102       | (8.0)   | 119                | (8.6)            | 1 387           |
| Luxembourg                           | 32      | (100.0) | 24      | (75.0)  | 21                      | (87.5)  | 3       | (12.5) | 8         | (25.0)  | 0                  | (0.0)            | 32              |
| Malta                                | 42      | (100.0) | 30      | (71.4)  | 25                      | (83.3)  | 5       | (16.7) | 12        | (28.6)  | 0                  | (0.0)            | 42              |
| Netherlands                          | 776     | (98.6)  | 452     | (58.2)  | 367                     | (81.2)  | 85      | (18.8) | 324       | (41.8)  | 11                 | (1.4)            | 787             |
| Norway <sup>h</sup>                  | 237     | (90.8)  | 149     | (62.9)  | 137                     | (91.9)  | 12      | (8.1)  | 88        | (37.1)  | 24                 | (9.2)            | 261             |
| Poland                               | 5 535   | (95.6)  | 5 285   | (95.5)  | 3 944                   | (74.6)  | 1 3 4 1 | (25.4) | 250       | (4.5)   | 252                | (4.4)            | 5 787           |
| Portugal                             | 1760    | (97.8)  | 1 259   | (71.5)  | 1 112                   | (88.3)  | 147     | (11.7) | 501       | (28.5)  | 40                 | (2.2)            | 1800            |
| Romania                              | 12 310  | (94.7)  | 10 362  | (84.2)  | 8 686                   | (83.8)  | 1 676   | (16.2) | 1 948     | (15.8)  | 694                | (5.3)            | 13 004          |
| Slovakia                             | 228     | (91.6)  | 187     | (82.0)  | 134                     | (71.7)  | 53      | (28.3) | 41        | (18.0)  | 21                 | (8.4)            | 249             |
| Slovenia                             | 112     | (100.0) | 91      | (81.3)  | 89                      | (97.8)  | 2       | (2.2)  | 21        | (18.8)  | 0                  | (0.0)            | 112             |
| Spain                                | 4 379   | (95.8)  | 3 159   | (72.1)  | 2 735                   | (86.6)  | 424     | (13.4) | 1 220     | (27.9)  | 191                | (4.2)            | 4 570           |
| Sweden                               | 488     | (93.8)  | 301     | (61.7)  | 273                     | (90.7)  | 28      | (9.3)  | 187       | (38.3)  | 32                 | (6.2)            | 520             |
| United Kingdom <sup>h</sup>          | 5 248   | (94.3)  | 2 875   | (54.8)  | 2 245                   | (78.1)  | 630     | (21.9) | 2 373     | (45.2)  | 319                | (5.7)            | 5 567           |
| Subtotal EU/EEA                      | 52 836  | (95.5)  | 40 704  | (77.0)  | 32 725                  | (80.4)  | 7 979   | (19.6) | 12 132    | (23.0)  | 2 501              | (4.5)            | 55 337          |
| Non-EU/EEA                           |         |         |         | ,       |                         |         |         |        |           |         |                    |                  |                 |
| Albania                              | 503     | (100.0) | 346     | (68.8)  | 210                     | (60.7)  | 136     | (39.3) | 157       | (31.2)  | 0                  | (0.0)            | 503             |
| Andorra                              | 1       | (100.0) | 1       | (100.0) | 1                       | (100.0) | 0       | (0.0)  | 0         | (0.0)   | 0                  | (0.0)            | 1               |
| Armenia                              | 841     | (90.8)  | 652     | (77.5)  | 369                     | (56.6)  | 283     | (43.4) | 189       | (22.5)  | 85                 | (9.2)            | 926             |
| Azerbaijan                           | 5 231   | (73.4)  | 4 207   | (80.4)  | 3 125                   | (74.3)  | 1 082   | (25.7) | 1 024     | (19.6)  | 1 898              | (26.6)           | 7 129           |
| Belarus                              | 2 781   | (91.1)  | 2 567   | (92.3)  | 2 171                   | (84.6)  | 396     | (15.4) | 214       | (7.7)   | 271                | (8.9)            | 3 052           |
| Bosnia and Herzegovina               | 766     | (99.7)  | 681     | (88.9)  | 479                     | (70.3)  | 202     | (29.7) | 85        | (11.1)  | 2                  | (0.3)            | 768             |
| Georgia                              | 2 597   | (88.7)  | 2 0 6 8 | (79.6)  | 1 780                   | (86.1)  | 288     | (13.9) | 529       | (20.4)  | 330                | (11.3)           | 2 927           |
| Israel                               | 234     | (100.0) | 171     | (73.1)  | 131                     | (76.6)  | 40      | (23.4) | 63        | (26.9)  | 0                  | (0.0)            | 234             |
| Kazakhstan                           | 12 449  | (96.2)  | 10 992  | (88.3)  | 9 489                   | (86.3)  | 1 503   | (13.7) | 1 457     | (11.7)  | 493                | (3.8)            | 12 942          |
| Kyrgyzstan                           | 6 687   | (86.9)  | 5 106   | (76.4)  | 3 171                   | (62.1)  | 1 935   | (37.9) | 1 581     | (23.6)  | 1 008              | (13.1)           | 7 695           |
| Monaco                               | -       | _       | -       | -       | -                       | -       | -       | -      | -         | _       | -                  | -                | -               |
| Montenegro                           | 75      | (97.4)  | 70      | (93.3)  | 58                      | (82.9)  | 12      | (17.1) | 5         | (6.7)   | 2                  | (2.6)            | 77              |
| North Macedonia                      | 216     | (98.6)  | 171     | (79.2)  | 152                     | (88.9)  | 19      | (11.1) | 45        | (20.8)  | 3                  | (1.4)            | 219             |
| Republic of Moldova                  | 3 358   | (87.0)  | 3 017   | (89.8)  | 1 880                   | (62.3)  | 1 137   | (37.7) | 341       | (10.2)  | 500                | (13.0)           | 3 858           |
| Russian Federation                   | 84 510  | (74.0)  | 77 574  | (91.8)  | 40 254                  | (51.9)  | 37 320  | (48.1) | 6 936     | (8.2)   | 29 677             | (26.0)           | 114 187         |
| San Marino                           | -       | _       | -       | -       | -                       | _       | -       | -      | -         | _       | -                  | -                | -               |
| Serbia                               | 1 450   | (98.9)  | 1 135   | (78.3)  | 781                     | (68.8)  | 354     | (31.2) | 315       | (21.7)  | 16                 | (1.1)            | 1466            |
| Serbia excluding Kosovo <sup>i</sup> | 738     | (99.1)  | 618     | (83.7)  | 513                     | (83.0)  | 105     | (17.0) | 120       | (16.3)  | 7                  | (0.9)            | 745             |
| Kosovoi                              | 712     | (98.8)  | 517     | (72.6)  | 268                     | (51.8)  | 249     | (48.2) | 195       | (27.4)  | 9                  | (1.2)            | 721             |
| Switzerland                          | 529     | (95.3)  | 379     | (71.6)  | 348                     | (91.8)  | 31      | (8.2)  | 150       | (28.4)  | 26                 | (4.7)            | 555             |
| Tajikistan                           | 5 895   | (93.9)  | 4 119   | (69.9)  | 2 820                   | (68.5)  | 1 299   | (31.5) | 1776      | (30.1)  | 384                | (6.1)            | 6 279           |
| Turkey                               | 11 821  | (98.1)  | 7 767   | (65.7)  | 6 162                   | (79.3)  | 1 605   | (20.7) | 4 054     | (34.3)  | 225                | (1.9)            | 12 046          |
| Turkmenistan                         | 1968    | (88.2)  | 1 488   | (75.6)  | 693                     | (46.6)  | 795     | (53.4) | 480       | (24.4)  | 264                | (11.8)           | 2 232           |
| Ukraine                              | 27 229  | (86.2)  | 24 735  | (90.8)  | 16 561                  | (67.0)  | 8 174   | (33.0) | 2 494     | (9.2)   | 4 355              | (13.8)           | 31 584          |
| Uzbekistan                           | 16 842  | (87.1)  | 11 179  | (66.4)  | 5 705                   | (51.0)  | 5 474   | (49.0) | 5 663     | (33.6)  | 2 487              | (12.9)           | 19 329          |
| Subtotal non-EU/EEA                  | 185 983 | (81.6)  | 158 425 | (85.2)  | 96 340                  | (60.8)  | 62 085  | (39.2) | 27 558    | (14.8)  | 42 026             | (18.4)           | 228 009         |
| Total European Region                | 238 819 | (84.3)  | 199 129 | (83.4)  | 129 065                 | (64.8)  | 70 064  | (35.2) | 39 690    | (16.6)  | 44 527             | (15.7)           | 283 346         |
| Subtotal 18 HPCs                     | 197 909 | (82.2)  | 168 728 | (85.3)  | 105 148                 | (62.3)  | 10 889  | (37.7) | 29 181    | (14.7)  | 42 858             | (17.8)           | 240 767         |

<sup>\*\*</sup>Wotes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPCs = high-priority countries.

\*\*WHO (2015). Definitions and reporting framework for tuberculosis – 2013 revision, updated December 2014. Geneva: World Health Organization (http://www.who.int/tb/publications/definitions/en/).

\*\*Cases with unknown previous TB history are included among new TB cases.

\*\*Percentage among all TB cases.

\*\*Percentage among all TB cases.

\*\*Percentage among all new and relapse TB cases.

\*\*Percentage among all new and relapse TB cases.

\*\*Confirmed by culture, smear and/or nucleic acid amplification test. Microscopy results from any specimen are included for EU/EEA countries.

\*\*Percentage among all new and relapse pulmonary TB cases.

\*\*Percentage among all new and relapse pulmonary TB cases.

\*\*Percentage among all new and relapse pulmonary TB cases.

\*\*Percentage among all new and relapse pulmonary TB cases.

\*\*Percentage among all new and relapse pulmonary TB cases.

\*\*Percentage among all new and relapse pulmonary TB cases.

Table 8. TB cases according to EU case definition, EU/EEA, 2017

|                |   | All la              | boratory-co                     | nfirmed ca | SeS <sup>a</sup> |         |          |                      |          |                  |          |                  | =                |
|----------------|---|---------------------|---------------------------------|------------|------------------|---------|----------|----------------------|----------|------------------|----------|------------------|------------------|
| Country        | Meeting o<br>smear-posi<br>nucleic aci<br>positive cr | tive and<br>d test- | Meeting (<br>culture-p<br>crite | ositive    | Meetin<br>crite  |         | Confirme | d cases <sup>b</sup> | Probable | cases            | Possible | cases            | All TB cases (N) |
|                | N   | (%)'                | N                               | (%)°       | N                | (%)°    | N        | (%) <sup>d</sup>     | N        | (%) <sup>d</sup> | N        | (%) <sup>d</sup> | ¥                |
| Austria        | 14  | (3.1)               | 304                             | (68.3)     | 127              | (28.5)  | 445      | (78.1)               | 73       | (12.8)           | 52       | (9.1)            | 570              |
| Belgium        | 10  | (1.3)               | 481                             | (63.5)     | 267              | (35.2)  | 758      | (78.0)               | 98       | (10.1)           | 116      | (11.9)           | 972              |
| Bulgaria       | 0   | (0.0)               | 695                             | (99.9)     | 1                | (0.1)   | 696      | (47.6)               | 125      | (8.5)            | 642      | (43.9)           | 1 463            |
| Croatia        | 0   | (0.0)               | 316                             | (100.0)    | 0                | (0.0)   | 316      | (85.2)               | 5        | (1.3)            | 50       | (13.5)           | 371              |
| Cyprus         | 0   | (0.0)               | 34                              | (87.2)     | 5                | (12.8)  | 39       | (73.6)               | 9        | (17.0)           | 5        | (9.4)            | 53               |
| Czech Republic | 1   | (0.3)               | 230                             | (60.7)     | 148              | (39.1)  | 379      | (75.0)               | 65       | (12.9)           | 61       | (12.1)           | 505              |
| Denmark        | 1   | (0.5)               | 129                             | (59.2)     | 88               | (40.4)  | 218      | (79.3)               | 3        | (1.1)            | 54       | (19.6)           | 275              |
| Estonia        | 3   | (2.1)               | 73                              | (50.3)     | 69               | (47.6)  | 145      | (82.9)               | 14       | (8.0)            | 16       | (9.1)            | 175              |
| Finland        | 1   | (0.5)               | 159                             | (81.5)     | 35               | (17.9)  | 195      | (82.3)               | 17       | (7.2)            | 25       | (10.5)           | 237              |
| France         | 0   | (0.0)               | 2 603                           | (100.0)    | 0                | (0.0)   | 2 603    | (50.7)               | 650      | (12.7)           | 1878     | (36.6)           | 5 131            |
| Germany        | 145   | (3.6)               | 2 263                           | (56.9)     | 1570             | (39.5)  | 3 978    | (72.5)               | 439      | (8.0)            | 1069     | (19.5)           | 5 486            |
| Greece         | 10  | (3.8)               | 159                             | (60.0)     | 96               | (36.2)  | 265      | (56.7)               | 106      | (22.7)           | 96       | (20.6)           | 467              |
| Hungary        | 0   | (0.0)               | 352                             | (100.0)    | 0                | (0.0)   | 352      | (51.4)               | 10       | (1.5)            | 323      | (47.2)           | 685              |
| Iceland        | 1   | (10.0)              | 5                               | (50.0)     | 4                | (40.0)  | 10       | (71.4)               | 2        | (14.3)           | 2        | (14.3)           | 14               |
| Ireland        | 0   | (0.0)               | 168                             | (78.5)     | 46               | (21.5)  | 214      | (67.3)               | 20       | (6.3)            | 84       | (26.4)           | 318              |
| Italy          | 0   | (0.0)               | 2 831                           | (100.0)    | 0                | (0.0)   | 2 831    | (71.8)               | 278      | (7.0)            | 835      | (21.2)           | 3 944            |
| Latvia         | 2   | (0.4)               | 408                             | (90.1)     | 43               | (9.5)   | 453      | (82.1)               | 32       | (5.8)            | 67       | (12.1)           | 552              |
| Liechtenstein  | 0   | (0.0)               | 0                               | (0.0)      | 1                | (100.0) | 1        | (100.0)              | 0        | (0.0)            | 0        | (0.0)            | 1                |
| Lithuania      | 0   | (0.0)               | 1 148                           | (100.0)    | 0                | (0.0)   | 1 148    | (82.8)               | 7        | (0.5)            | 232      | (16.7)           | 1 387            |
| Luxembourg     | 0   | (0.0)               | 23                              | (100.0)    | 0                | (0.0)   | 23       | (71.9)               | 0        | (0.0)            | 9        | (28.1)           | 32               |
| Malta          | 0   | (0.0)               | 26                              | (78.8)     | 7                | (21.2)  | 33       | (78.6)               | 1        | (2.4)            | 8        | (19.0)           | 42               |
| Netherlands    | 0   | (0.0)               | 542                             | (100.0)    | 0                | (0.0)   | 542      | (68.9)               | 32       | (4.1)            | 213      | (27.1)           | 787              |
| Norway         | 2   | (0.9)               | 166                             | (76.9)     | 48               | (22.2)  | 216      | (82.8)               | 10       | (3.8)            | 35       | (13.4)           | 261              |
| Poland         | 0   | (0.0)               | 3 454                           | (82.7)     | 725              | (17.3)  | 4 179    | (72.2)               | 88       | (1.5)            | 1520     | (26.3)           | 5 787            |
| Portugal       | 29  | (2.6)               | 964                             | (87.2)     | 113              | (10.2)  | 1106     | (61.4)               | 387      | (21.5)           | 307      | (17.1)           | 1800             |
| Romania        | 85  | (0.9)               | 7 080                           | (77.0)     | 2 029            | (22.1)  | 9 194    | (70.7)               | 983      | (7.6)            | 2 827    | (21.7)           | 13 004           |
| Slovakia       | 0   | (0.0)               | 125                             | (93.3)     | 9                | (6.7)   | 134      | (53.8)               | 39       | (15.7)           | 76       | (30.5)           | 249              |
| Slovenia       | 0   | (0.0)               | 74                              | (67.9)     | 35               | (32.1)  | 109      | (97.3)               | 2        | (1.8)            | 1        | (0.9)            | 112              |
| Spain          | 45  | (1.4)               | 2 618                           | (81.4)     | 553              | (17.2)  | 3 216    | (70.4)               | 521      | (11.4)           | 833      | (18.2)           | 4 570            |
| Sweden         | 2   | (0.5)               | 320                             | (75.5)     | 102              | (24.1)  | 424      | (81.5)               | 35       | (6.7)            | 61       | (11.7)           | 520              |
| United Kingdom | 14  | (0.4)               | 3 309                           | (95.1)     | 155              | (4.5)   | 3 478    | (62.5)               | 415      | (7.5)            | 1 674    | (30.1)           | 5 5 6 7          |
| Total EU/EEA   | 365   | (1.0)               | 31 059                          | (82.4)     | 6 276            | (16.6)  | 37 700   | (68.1)               | 4 466    | (8.1)            | 13 171   | (23.8)           | 55 337           |

Note: WHO European Region TB HPCs are presented in italics.

HPCs = high-priority countries.

\*\*Laboratory-confirmed TB cases according to the EU case definition.

\*\*December 10 Culture-positive OR microscopy-positive and nucleic acid amplification test-positive.

\*\*Percentage among all laboratory-confirmed TB cases.

\*\*Percentage among all TB cases.

Table 9. New TB cases and relapses, by age group and male-to-female ratio, European Region, 2017<sup>a</sup>

|  |   | 0  | -4  |  |  | 5   | -14   |  |   | 15   | -24  |   |   | 25-  | 44   |   |  |
|--|---|--|---|--|--|---|---|--|---|--|--|---|---|--|--|---|--|
| Country/area   | N   | (%)  | Rate per                                    | M/F<br>ratio                                       | N  | (%)   | Rate per<br>100 000                                       | M/F<br>ratio                                       | N   | (%)  | Rate per                                     | M/F<br>ratio                                  | N   | (%)  | Rate per<br>100 000                          | M/F<br>ratio                                  |  |
| EU/EEA   |   |  |   |  |  |   |   |  |   |  |  |   |   |  |  |   |  |
| Austria  | 13  | (2.3)  | 3.1   | 1.2  | 8  | (1.4)   | 1.0   | 0.6  | 108   | (19.2)   | 10.7   | 2.4   | 193   | (34.3)   | 8.2  | 1.4   |  |
| Belgium <sup>b</sup>   | 32  | (3.5)  | 5.1   | 1.9  | 36   | (3.9)   | 2.8   | 1.4  | 163   | (17.8)   | 12.4   | 1.9   | 363   | (39.6)   | 12.3   | 1.9   |  |
| Bulgaria   | 35  | (2.5)  | 10.6  | 1.5  | 70   | (5.0)   | 10.4  | 1.1  | 93  | (6.6)  | 14.1   | 1.1   | 395   | (28.1)   | 19.7   | 1.8   |  |
| Croatia  | 0   | (0.0)  | 0.0   | -  | 3  | (0.8)   | 0.7   | N/F  | 21  | (5.8)  | 4.5  | 0.8   | 62  | (17.0)   | 5.7  | 1.7   |  |
| Cyprus   | 1   | (1.9)  | 2.1   | N/F  | 2  | (3.8)   | 2.2   | N/F  | 14  | (26.9)   | 12.0   | 0.4   | 22  | (42.3)   | 8.5  | 1.2   |  |
| Czech Republic   | 5   | (1.0)  | 0.9   | 4.0  | 1  | (0.2)   | 0.1   | N/F  | 29  | (5.8)  | 2.9  | 0.9   | 159   | (31.9)   | 5.0  | 2.8   |  |
| Denmark <sup>b</sup>   | 4   | (1.6)  | 1.3   | N/F  | 8  | (3.2)   | 1.2   | 1.0  | 28  | (11.1)   | 3.8  | 2.5   | 93  | (36.8)   | 6.5  | 1.1   |  |
| Estonia  | 0   | (0.0)  | 0.0   | -  | 0  | (0.0)   | 0.0   | -  | 5   | (2.9)  | 3.8  | 0.7   | 45  | (26.3)   | 12.1   | 4.0   |  |
| Finland  | 3   | (1.3)  | 1.0   | 0.5  | 3  | (1.3)   | 0.5   | 2.0  | 35  | (15.0)   | 5.5  | 1.9   | 52  | (22.2)   | 3.8  | 1.1   |  |
| France   | 205   | (4.2)  | 5.3   | 1.1  | 189  | (3.9)   | 2.3   | 1.2  | 743   | (15.4)   | 9.4  | 2.2   | 1 819   | (37.6)   | 11.0   | 1.8   |  |
| Germany  | 131   | (2.4)  | 3.5   | 1.1  | 106  | (2.0)   | 1.5   | 1.1  | 1392  | (26.0)   | 15.9   | 3.1   | 1733  | (32.4)   | 8.5  | 2.1   |  |
| Greece   | 3   | (0.7)  | 0.6   | 2.0  | 8  | (1.8)   | 0.7   | 0.6  | 46  | (10.6)   | 4.2  | 6.7   | 111   | (25.6)   | 3.9  | 3.0   |  |
| Hungary  | 3   | (0.5)  | 0.6   | N/F  | 3  | (0.5)   | 0.3   | N/M  | 35  | (5.4)  | 3.2  | 1.9   | 134   | (20.6)   | 4.8  | 1.4   |  |
| Iceland  | 0   | (0.0)  | 0.0   | -  | 0  | (0.0)   | 0.0   | -  | 2   | (15.4)   | 4.2  | 1.0   | 5   | (38.5)   | 5.3  | 1.5   |  |
| Ireland <sup>b</sup>   | 5   | (1.7)  | 1.5   | 1.5  | 4  | (1.3)   | 0.6   | 1.0  | 35  | (11.6)   | 6.0  | 0.7   | 118   | (39.2)   | 8.4  | 1.4   |  |
| Italy  | 84  | (2.2)  | 3.4   | 1.1  | 83   | (2.2)   | 1.5   | 1.2  | 888   | (23.2)   | 15.1   | 4.0   | 1 437   | (37.5)   | 9.4  | 2.1   |  |
| Latvia   | 7   | (1.3)  | 6.5   | 0.8  | 3  | (0.6)   | 1.5   | 0.5  | 39  | (7.2)  | 20.7   | 0.9   | 202   | (37.2)   | 37.9   | 2.1   |  |
| Liechtenstein  | 0   | (0.0)  | 0.0   | -  | 0  | (0.0)   | 0.0   | -  | 0   | (0.0)  | 0.0  | -   | 1   | (100.0)  | 10.2   | N/F   |  |
| Lithuania  | 11  | (0.9)  | 7.3   | 2.7  | 33   | (2.6)   | 12.2  | 0.8  | 86  | (6.8)  | 25.6   | 0.7   | 421   | (33.2)   | 57.9   | 2.4   |  |
| Luxembourg   | 0   | (0.0)  | 0.0   | -  | 1  | (3.1)   | 1.6   | N/M  | 3   | (9.4)  | 4.3  | N/F   | 14  | (43.8)   | 7.8  | 1.8   |  |
| Malta  | 0   | (0.0)  | 0.0   | -  | 0  | (0.0)   | 0.0   | -  | 8   | (19.0)   | 14.8   | 7.0   | 29  | (69.0)   | 20.9   | 4.8   |  |
| Netherlands  | 13  | (1.7)  | 1.5   | 0.9  | 21   | (2.7)   | 1.1   | 0.5  | 135   | (17.4)   | 6.4  | 1.7   | 337   | (43.4)   | 8.0  | 1.6   |  |
| Norwayb  | 6   | (2.5)  | 2.0   | 2.0  | 13   | (5.5)   | 2.0   | 1.2  | 60  | (25.3)   | 9.0  | 3.3   | 101   | (42.6)   | 7.1  | 1.1   |  |
| Poland   | 22  | (0.4)  | 1.2   | 1.8  | 46   | (0.8)   | 1.2   | 0.9  | 213   | (3.8)  | 5.1  | 1.2   | 1386  | (25.0)   | 11.9   | 2.4   |  |
| Portugal   | 25  | (1.4)  | 5.8   | 0.9  | 18   | (1.0)   | 1.8   | 1.0  | 169   | (9.6)  | 15.4   | 1.0   | 508   | (28.9)   | 18.7   | 1.7   |  |
| Romania  | 199   | (1.6)  | 20.5  | 1.1  | 332  | (2.7)   | 15.9  | 1.0  | 1398  | (11.4)   | 65.9   | 1.2   | 3 944   | (32.0)   | 70.4   | 2.0   |  |
| Slovakia   | 29  | (12.7)   | 10.2  | 1.2  | 16   | (7.0)   | 2.9   | 0.6  | 18  | (7.9)  | 2.9  | 0.6   | 39  | (17.1)   | 2.3  | 2.0   |  |
| Slovenia   | 2   | (1.8)  | 1.9   | 1.0  | 0  | (0.0)   | 0.0   | -  | 2   | (1.8)  | 1.0  | N/F   | 16  | (14.3)   | 2.8  | 3.0   |  |
| Spain  | 130   | (3.0)  | 6.0   | 1.2  | 144  | (3.3)   | 3.0   | 1.1  | 377   | (8.6)  | 8.4  | 1.5   | 1 511   | (34.5)   | 11.5   | 1.4   |  |
| Sweden   | 7   | (1.4)  | 1.2   | 0.8  | 19   | (3.9)   | 1.6   | 0.6  | 118   | (24.2)   | 10.1   | 2.5   | 201   | (41.2)   | 7.7  | 1.1   |  |
| United Kingdom <sup>b</sup>  | 79  | (1.5)  | 2.0   | 0.8  | 116  | (2.2)   | 1.5   | 0.8  | 662   | (12.6)   | 8.3  | 1.2   | 2 237   | (42.6)   | 12.9   | 1.4   |  |
| Subtotal EU/EEA  | 1054  | (2.0)  | 4.0   | 1.2  | 1 286  | (2.4)   | 2.4   | 1.0  | 6 925   | (13.1)   | 12.2   | 1.9   | 17 688  | (33.5)   | 12.9   | 1.8   |  |
| Non-EU/EEA   |   |  |   |  |  |   |   |  |   |  |  |   |   |  |  |   |  |
| Albania  | 7   | (1.4)  | 4   | 0.8  | 7  | (1.4)   | 2.1   | 0.8  | 107   | (21.3)   | 22.8   | 2.1   | 128   | (25.4)   | 16.1   | 1.7   |  |
| Andorra  | 0   | (0.0)  | 0   | _  | 0  | (0.0)   | 0.0   | _  | 1   | (100.0)  | 12.9   | 0.0   | 0   | (0.0)  | 0.0  | -   |  |
| Armenia  | 14  | (1.7)  | 7   | 1.8  | 6  | (0.7)   | 1.5   | 1.0  | 125   | (14.9)   | 32.7   | 5.0   | 296   | (35.2)   | 32.8   | 2.7   |  |
| Azerbaijan   | 53  | (1.0)  | 6   | 1.0  | 113  | (2.2)   | 8.1   | 1.3  | 988   | (18.9)   | 66.2   | 2.0   | 1 393   | (26.6)   | 43.9   | 1.7   |  |
| Belarus  | 3   | (0.1)  | 1   | 2.0  | 10   | (0.4)   | 1.0   | 0.7  | 143   | (5.1)  | 14.6   | 1.3   | 1 091   | (39.2)   | 38.3   | 2.7   |  |
| Bosnia and Herzegovina   | 4   | (0.5)  | 3   | -  | 7  | (0.9)   | 2.1   | 0.4  | 81  | (10.6)   | 18.0   | 1.1   | 135   | (17.6)   | 13.8   | 1.6   |  |
| Georgia  | 27  | (1.0)  | 10  | 1.3  | 67   | (2.6)   | 13.8  | 1.2  | 327   | (12.6)   | 68.7   | 1.4   | 1060  | (40.8)   | 97.8   | 2.0   |  |
| Israel   | 11  | (4.7)  | 1   | 0.2  | 5  | (2.1)   | 0.3   | 1.5  | 15  | (6.4)  | 1.2  | 0.9   | 124   | (53.0)   | 5.6  | 1.6   |  |
| Kazakhstan   | 113   | (0.9)  | 6   | 1.4  | 291  | (2.3)   | 9.3   | 0.8  | 1 892   | (15.2)   | 78.3   | 1.1   | 5 371   | (43.1)   | 95.9   | 1.6   |  |
| Kyrgyzstan   | 99  | (1.5)  | 13  | 1.7  | 337  | (5.0)   | 28.8  | 1.1  | 1 617   | (24.2)   | 159.3  | 1.2   | 2 303   | (34.4)   | 129.5  | 1.3   |  |
| Monaco   | 0   | (0.0)  | 0   | -  | 0  | (0.0)   | 0.0   | -  | 0   | (0.0)  | 0.0  | -   | 0   | (0.0)  | 0.0  | -   |  |
| Montenegro   | 0   | (0.0)  | 0   | _  | 0  | (0.0)   | 0.0   | _  | 5   | (6.7)  | 6.0  | 4.0   | 27  | (36.0)   | 15.5   | 1.5   |  |
| North Macedonia  | 6   | (2.8)  | 5   | 2.0  | 4  | (1.9)   | 1.7   | 1.0  | 26  | (12.0)   | 9.6  | 1.6   | 73  | (33.8)   | 11.5   | 2.7   |  |
|  | 33  | (1.0)  | 15  | 1.1  | 90   | (2.7)   | 21.2  | 0.9  | 240   | (7.1)  | 47.3   | 1.3   | 1 493   | (44.5)   | 107.2  | 2.5   |  |
|  |   | (1.2)  | 11  | 1.0  | 1 469  | (1.7)   | 9.3   | 0.8  | 5 424   | (6.4)  | 39.0   | 1.4   | 46 153  | (54.6)   | 102.3  | 2.4   |  |
| Republic of Moldova  | 1 025   |  |   |  | 1 407  |   |   | -  | 0   | (0.0)  | 0.0  | -   | 0   | (0.0)  | 0.0  | -   |  |
| Republic of Moldova<br>Russian Federation  | 1 025   |  |   |  | 0  |   |   |  |   | (0.0)  | 0.0  |   |   | (0.0)  | 0.0  | 1.1   |  |
| Republic of Moldova<br>Russian Federation<br>San Marino  | 0   | (0.0)  | 0   | -  | 1/1  | (0.0)   | 0.0   | 13   | 191   | (12.5)   | 16.7   | 0.0   | 336   | (23.2)   | 12 0   |   |  |
| Republic of Moldova<br>Russian Federation<br>San Marino<br>Serbia  | 0   | (0.0)<br>(0.6)   | 0 2   | -<br>7.0   | 14   | (1.0)   | 1.4   | 1.3  | 181   | (12.5)   | 16.7   | 0.9   | 336   | (23.2)   | 13.9   | 1.1   |  |
| Republic of Moldova<br>Russian Federation<br>San Marino<br>Serbia<br>Serbia excluding Kosovo <sup>c</sup>  | 0<br>8<br>3   | (0.0)<br>(0.6)<br>(0.4)  | 0<br>2<br>-                                 | 7.0<br>2.0   | 14<br>4  | (1.0)<br>(0.5)  | 1.4   | 1.0  | 48  | (6.5)  | -  | 0.8   | 152   | (20.6)   | -  | 1.1   |  |
| Republic of Moldova<br>Russian Federation<br>San Marino<br>Serbia<br>Serbia excluding Kosovo <sup>c</sup><br>Kosovo <sup>c</sup>   | 0<br>8<br>3<br>5  | (0.0)<br>(0.6)<br>(0.4)<br>(0.7)   | 0<br>2<br>-                                 | 7.0<br>2.0<br>5.0                                  | 14<br>4<br>10  | (1.0)<br>(0.5)<br>(1.4)   | 1.4<br>-<br>-   | 1.0<br>1.5   | 48<br>133   | (6.5)<br>(18.7)  | -  | 0.8<br>1.0                                    | 152<br>184  | (20.6)<br>(25.8)   | -  | 1.1<br>1.1                                    |  |
| Republic of Moldova<br>Russian Federation<br>San Marino<br>Serbia<br>Serbia excluding Kosovo <sup>c</sup><br>Kosovo <sup>c</sup><br>Switzerland  | 0<br>8<br>3<br>5  | (0.0)<br>(0.6)<br>(0.4)<br>(0.7)<br>(2.3)  | 0<br>2<br>-<br>-<br>3                       | 7.0<br>2.0<br>5.0<br>2.0                           | 14<br>4<br>10<br>11                                    | (1.0)<br>(0.5)<br>(1.4)<br>(2.1)  | 1.4<br>-<br>-<br>1.3                                      | 1.0<br>1.5<br>1.2                                  | 48<br>133<br>125  | (6.5)<br>(18.7)<br>(23.6)  | -<br>-<br>13.4                               | 0.8<br>1.0<br>3.2                             | 152<br>184<br>212   | (20.6)<br>(25.8)<br>(40.1)   | -<br>-<br>9.1                                | 1.1<br>1.1<br>1.4                             |  |
| Republic of Moldova<br>Russian Federation<br>San Marino<br>Serbia<br>Serbia excluding Kosovo <sup>c</sup><br>Kosovo <sup>c</sup><br>Switzerland<br>Tajikistan  | 0<br>8<br>3<br>5<br>12                                  | (0.0)<br>(0.6)<br>(0.4)<br>(0.7)<br>(2.3)<br>(2.0)                                     | 0<br>2<br>-<br>-<br>3<br>10                 | 7.0<br>2.0<br>5.0<br>2.0<br>1.3                    | 14<br>4<br>10<br>11<br>238                             | (1.0)<br>(0.5)<br>(1.4)<br>(2.1)<br>(4.0)                                     | 1.4<br>-<br>-<br>1.3<br>12.2                              | 1.0<br>1.5<br>1.2<br>1.0                           | 48<br>133<br>125<br>1 568                               | (6.5)<br>(18.7)<br>(23.6)<br>(26.6)  | -<br>13.4<br>92.7                            | 0.8<br>1.0<br>3.2<br>1.3                      | 152<br>184<br>212<br>2 224                                    | (20.6)<br>(25.8)<br>(40.1)<br>(37.7)   | 9.1<br>88.5                                  | 1.1<br>1.1<br>1.4<br>1.3                      |  |
| Republic of Moldova<br>Russian Federation<br>San Marino<br>Serbia<br>Serbia excluding Kosovo <sup>c</sup><br>Kosovo <sup>c</sup><br>Switzerland<br>Tajikistan<br>Turkey  | 0<br>8<br>3<br>5<br>12<br>115<br>189                    | (0.0)<br>(0.6)<br>(0.4)<br>(0.7)<br>(2.3)<br>(2.0)<br>(1.6)                            | 0<br>2<br>-<br>-<br>3<br>10<br>3            | 7.0<br>2.0<br>5.0<br>2.0<br>1.3<br>1.4             | 14<br>4<br>10<br>11<br>238<br>362                      | (1.0)<br>(0.5)<br>(1.4)<br>(2.1)<br>(4.0)<br>(3.1)                            | 1.4<br>-<br>-<br>1.3<br>12.2<br>2.7                       | 1.0<br>1.5<br>1.2<br>1.0<br>1.0                    | 48<br>133<br>125<br>1 568<br>1 821                      | (6.5)<br>(18.7)<br>(23.6)<br>(26.6)<br>(15.4)                              | -<br>13.4<br>92.7<br>13.7                    | 0.8<br>1.0<br>3.2<br>1.3<br>1.2               | 152<br>184<br>212<br>2 224<br>3 595                           | (20.6)<br>(25.8)<br>(40.1)<br>(37.7)<br>(30.4)                               | 9.1<br>88.5<br>14.7                          | 1.1<br>1.1<br>1.4<br>1.3<br>1.3               |  |
| Republic of Moldova<br>Russian Federation<br>San Marino<br>Serbia<br>Serbia excluding Kosovo <sup>c</sup><br>Kosovo <sup>c</sup><br>Switzerland<br>Tajikistan<br>Turkey<br>Turkmenistan                          | 0<br>8<br>3<br>5<br>12<br>115<br>189<br>0               | (0.0)<br>(0.6)<br>(0.4)<br>(0.7)<br>(2.3)<br>(2.0)<br>(1.6)<br>(0.0)                   | 0<br>2<br>-<br>-<br>3<br>10<br>3<br>0       | 7.0<br>2.0<br>5.0<br>2.0<br>1.3<br>1.4             | 14<br>4<br>10<br>11<br>238<br>362<br>0                 | (1.0)<br>(0.5)<br>(1.4)<br>(2.1)<br>(4.0)<br>(3.1)<br>(0.0)                   | 1.4<br>-<br>-<br>1.3<br>12.2<br>2.7<br>0.0                | 1.0<br>1.5<br>1.2<br>1.0<br>1.0                    | 48<br>133<br>125<br>1 568<br>1 821<br>368               | (6.5)<br>(18.7)<br>(23.6)<br>(26.6)<br>(15.4)<br>(18.7)                    | -<br>13.4<br>92.7<br>13.7<br>37.6            | 0.8<br>1.0<br>3.2<br>1.3<br>1.2               | 152<br>184<br>212<br>2 224<br>3 595<br>900                    | (20.6)<br>(25.8)<br>(40.1)<br>(37.7)<br>(30.4)<br>(45.7)                     | 9.1<br>88.5<br>14.7<br>50.8                  | 1.1<br>1.1<br>1.4<br>1.3<br>1.3               |  |
| Republic of Moldova<br>Russian Federation<br>San Marino<br>Serbia<br>Serbia excluding Kosovo <sup>c</sup><br>Kosovo <sup>c</sup><br>Switzerland<br>Tajikistan<br>Turkey<br>Turkmenistan<br>Ukraine               | 0<br>8<br>3<br>5<br>12<br>115<br>189<br>0<br>287        | (0.0)<br>(0.6)<br>(0.4)<br>(0.7)<br>(2.3)<br>(2.0)<br>(1.6)<br>(0.0)<br>(1.1)          | 0<br>2<br>-<br>-<br>3<br>10<br>3<br>0       | 7.0<br>2.0<br>5.0<br>2.0<br>1.3<br>1.4<br>-        | 14<br>4<br>10<br>11<br>238<br>362<br>0<br>324          | (1.0)<br>(0.5)<br>(1.4)<br>(2.1)<br>(4.0)<br>(3.1)<br>(0.0)<br>(1.2)          | 1.4<br>-<br>-<br>1.3<br>12.2<br>2.7<br>0.0<br>7.1         | 1.0<br>1.5<br>1.2<br>1.0<br>1.0<br>-               | 48<br>133<br>125<br>1 568<br>1 821<br>368<br>1 633      | (6.5)<br>(18.7)<br>(23.6)<br>(26.6)<br>(15.4)<br>(18.7)<br>(6.0)           | 13.4<br>92.7<br>13.7<br>37.6<br>37.2         | 0.8<br>1.0<br>3.2<br>1.3<br>1.2<br>1.2        | 152<br>184<br>212<br>2 224<br>3 595<br>900<br>13 882          | (20.6)<br>(25.8)<br>(40.1)<br>(37.7)<br>(30.4)<br>(45.7)<br>(51.0)           | 9.1<br>88.5<br>14.7<br>50.8<br>101.9         | 1.1<br>1.1<br>1.4<br>1.3<br>1.3<br>1.5<br>2.4 |  |
| Republic of Moldova<br>Russian Federation<br>San Marino<br>Serbia<br>Serbia excluding Kosovo <sup>c</sup><br>Kosovo <sup>c</sup><br>Switzerland<br>Tajikistan<br>Turkey<br>Turkmenistan<br>Ukraine<br>Uzbekistan | 0<br>8<br>3<br>5<br>12<br>115<br>189<br>0<br>287<br>361 | (0.0)<br>(0.6)<br>(0.4)<br>(0.7)<br>(2.3)<br>(2.0)<br>(1.6)<br>(0.0)<br>(1.1)<br>(2.1) | 0<br>2<br>-<br>-<br>3<br>10<br>3<br>0<br>12 | 7.0<br>2.0<br>5.0<br>2.0<br>1.3<br>1.4<br>-<br>1.1 | 14<br>4<br>10<br>11<br>238<br>362<br>0<br>324<br>1 628 | (1.0)<br>(0.5)<br>(1.4)<br>(2.1)<br>(4.0)<br>(3.1)<br>(0.0)<br>(1.2)<br>(9.7) | 1.4<br>-<br>-<br>1.3<br>12.2<br>2.7<br>0.0<br>7.1<br>28.3 | 1.0<br>1.5<br>1.2<br>1.0<br>1.0<br>-<br>1.1<br>1.3 | 48<br>133<br>125<br>1568<br>1821<br>368<br>1633<br>1942 | (6.5)<br>(18.7)<br>(23.6)<br>(26.6)<br>(15.4)<br>(18.7)<br>(6.0)<br>(11.5) | 13.4<br>92.7<br>13.7<br>37.6<br>37.2<br>34.0 | 0.8<br>1.0<br>3.2<br>1.3<br>1.2<br>1.2<br>1.3 | 152<br>184<br>212<br>2 224<br>3 595<br>900<br>13 882<br>5 779 | (20.6)<br>(25.8)<br>(40.1)<br>(37.7)<br>(30.4)<br>(45.7)<br>(51.0)<br>(34.3) | 9.1<br>88.5<br>14.7<br>50.8<br>101.9<br>56.7 | 1.1<br>1.4<br>1.3<br>1.3<br>1.5<br>2.4<br>1.3 |  |
| Republic of Moldova<br>Russian Federation<br>San Marino<br>Serbia<br>Serbia excluding Kosovo <sup>c</sup><br>Kosovo <sup>c</sup><br>Switzerland<br>Tajikistan<br>Turkey<br>Turkmenistan<br>Ukraine               | 0<br>8<br>3<br>5<br>12<br>115<br>189<br>0<br>287        | (0.0)<br>(0.6)<br>(0.4)<br>(0.7)<br>(2.3)<br>(2.0)<br>(1.6)<br>(0.0)<br>(1.1)          | 0<br>2<br>-<br>-<br>3<br>10<br>3<br>0       | 7.0<br>2.0<br>5.0<br>2.0<br>1.3<br>1.4<br>-        | 14<br>4<br>10<br>11<br>238<br>362<br>0<br>324          | (1.0)<br>(0.5)<br>(1.4)<br>(2.1)<br>(4.0)<br>(3.1)<br>(0.0)<br>(1.2)          | 1.4<br>-<br>-<br>1.3<br>12.2<br>2.7<br>0.0<br>7.1         | 1.0<br>1.5<br>1.2<br>1.0<br>1.0<br>-               | 48<br>133<br>125<br>1 568<br>1 821<br>368<br>1 633      | (6.5)<br>(18.7)<br>(23.6)<br>(26.6)<br>(15.4)<br>(18.7)<br>(6.0)           | 13.4<br>92.7<br>13.7<br>37.6<br>37.2         | 0.8<br>1.0<br>3.2<br>1.3<br>1.2<br>1.2        | 152<br>184<br>212<br>2 224<br>3 595<br>900<br>13 882          | (20.6)<br>(25.8)<br>(40.1)<br>(37.7)<br>(30.4)<br>(45.7)<br>(51.0)           | 9.1<br>88.5<br>14.7<br>50.8<br>101.9         | 1.1<br>1.1<br>1.4<br>1.3<br>1.3<br>1.5<br>2.4 |  |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPCs = high-priority countries.

M = male.
F = female.

N/F = no female in subgroup.

N/M = no male in subgroup.

N/M = no male in subgroup.

\*\*Cases with unknown previous TB history are included among new TB cases.

\*\*Previous TB history is defined by previous diagnosis.

\*\*Canada of the country of the whole in the whole in

|                     | 45                         | -64                 |                   |                     | >                       | 64                |                   |                | Unknowr        | 1        | Tota                   | ι                 |   |
|---------------------|----------------------------|---------------------|-------------------|---------------------|-------------------------|-------------------|-------------------|----------------|----------------|----------|------------------------|-------------------|---|
| N                   | (%)                        | Rate per            | M/F<br>ratio      | N                   | (%)                     | Rate per          | M/F<br>ratio      | N              | (%)            | Rate per | N                      | M/F<br>ratio      | Country/area                                |
|                     |                            |                     |                   |                     |                         |                   |                   |                |                |          |                        |                   | EU/EEA                                      |
| 128                 | (22.8)                     | 5.1                 | 2.9               | 112                 | (19.9)                  | 6.9               | 1.5               | 0              | (0.0)          | -        | 562                    | 1.8               | Austria                                     |
| 217                 | (23.7)                     | 7.1                 | 1.8               | 105                 | (11.5)                  | 5.0               | 2.1               | 0              | (0.0)          | -        | 916                    | 1.9               | Belgium <sup>b</sup>                        |
| 521                 | (37.0)                     | 26.5                | 2.9               | 294                 | (20.9)                  | 20.0              | 1.9               | 0              | (0.0)          | -        | 1 408                  | 2.0               | Bulgaria                                    |
| 139                 | (38.2)                     | 11.8                | 2.7               | 139                 | (38.2)                  | 17.1              | 0.9               | 0              | (0.0)          | -        | 364                    | 1.5               | Croatia                                     |
| 10                  | (19.2)                     | 4.8                 | 0.4               | 3                   | (5.8)                   | 2.3               | 0.5               | 0              | (0.0)          | -        | 52                     | 0.8               | Cyprus                                      |
| 194                 | (38.9)                     | 7.1                 | 3.6               | 111                 | (22.2)                  | 5.6               | 1.8               | 0              | (0.0)          | -        | 499                    | 2.6               | Czech Republic                              |
| 93                  | (36.8)                     | 6.1                 | 2.2               | 27                  | (10.7)                  | 2.5               | 0.9               | 0              | (0.0)          | -        | 253                    | 1.6               | Denmark <sup>b</sup>                        |
| 80                  | (46.8)                     | 23.2                | 4.0               | 41                  | (24.0)                  | 16.1              | 1.1               | 0              | (0.0)          | -        | 171                    | 2.6               | Estonia                                     |
| 39                  | (16.7)                     | 2.7                 | 2.9               | 102                 | (43.6)                  | 8.9               | 1.8               | 0              | (0.0)          | -        | 234                    | 1.7               | Finland                                     |
| 1005                | (20.8)                     | 5.8                 | 2.0               | 876                 | (18.1)                  | 6.8               | 1.7               | 2              | (0.0)          | N/F      | 4 839                  | 1.8               | France                                      |
| 1025                | (19.1)                     | 4.1                 | 2.2               | 956                 | (17.9)                  | 5.5               | 1.3               | 10             | (0.2)          | 0.8      | 5 353                  | 2.1               | Germany                                     |
| 125                 | (28.8)                     | 4.2                 | 2.8               | 137                 | (31.6)                  | 5.9               | 2.0               | 4              | (0.9)          | N/F      | 434                    | 2.7               | Greece                                      |
| 313                 | (48.2)                     | 11.8                | 2.7               | 162                 | (24.9)                  | 8.9               | 1.1               | 0              | (0.0)          | -        | 650                    | 1.8               | Hungary                                     |
| 4                   | (30.8)                     | 4.9                 | N/F               | 2                   | (15.4)                  | 4.2               | N/F               | 0              | (0.0)          | - 4.0    | 13                     | 3.3               | Iceland                                     |
| 74                  | (24.6)                     | 6.5                 | 2.4               | 63                  | (20.9)                  | 9.7               | 1.0               | 2              | (0.7)          | 1.0      | 301                    | 1.3               | Ireland <sup>b</sup>                        |
| 752                 | (19.6)                     | 4.3                 | 1.8               | 584                 | (15.3)                  | 4.3               | 1.5               | 0              | (0.0)          | -        | 3 828                  | 2.1               | Italy                                       |
| 220                 | (40.5)                     | 40.9                | 3.9               | 72                  | (13.3)                  | 18.6              | 1.7               | 0              | (0.0)          | -        | 543                    | 2.3               | Latvia                                      |
| 0                   | (0.0)                      | 0.0                 | - 4.1             | 100                 | (0.0)                   | 0.0               | 17                | 0              | (0.0)          | -        | 1 2 6                  | N/F               | Liechtenstein                               |
| 521                 | (41.1)                     | 64.1                | 4.1               | 196                 | (15.5)                  | 35.6              | 1.7               | 0              | (0.0)          | -        | 1268                   | 2.4               | Lithuania                                   |
| 10                  | (31.3)                     | 6.2                 | 4.0               | 4                   | (12.5)                  | 4.8               | 3.0               | 0              | (0.0)          | -        | 32                     | 2.6               | Luxembourg                                  |
| 4                   | (9.5)                      | 3.4                 | 1.0               | 1                   | (2.4)                   | 1.2               | N/F               | 0              | (0.0)          | -        | 42                     | 4.3               | Malta                                       |
| 173                 | (22.3)                     | 3.6                 | 1.7               | 97                  | (12.5)                  | 3.1               | 1.6               | 0              | (0.0)          | -        | 776                    | 1.6               | Netherlands                                 |
| 2.464               | (17.3)                     | 3.0                 | 2.7               | 16                  | (6.8)                   | 1.8               | 1.7               | 0              | (0.0)          | _        | 237                    | 1.8               | Norway <sup>b</sup>                         |
| 2 464               | (44.5)                     | 24.4                | 3.7               | 1404                | (25.4)                  | 22.3              | 1.5               | 0              | (0.0)          |          | 5 535                  | 2.4               | Poland                                      |
| 586                 | (33.3)                     | 20.3                | 2.6               | 454                 | (25.8)                  | 20.9              | 1.8               | 0              | (0.0)          | -        | 1760                   | 1.8               | Portugal<br>Romania                         |
| 4 482               | (36.4)                     | 83.5                | 4.2               | 1 955               | (15.9)                  | 55.9<br>7.0       | 1.5               | 0              | (0.0)          | _        | 12 310<br>228          | 2.2               | Slovakia                                    |
| 38                  | (30.3)                     | 4.7<br>6.4          | 2.0               | 57<br>54            | (25.0)<br>(48.2)        | 13.8              | 1.0               | 0              | (0.0)          | _        | 112                    | 1.4               | Slovakia                                    |
|                     |                            |                     | 1.5               |                     |                         |                   |                   |                |                | _        |                        |                   |   |
| 1 2 4 3             | (28.4)                     | 9.5                 | 2.5               | 974                 | (22.2)                  | 11.0              | 1.7               | 0              | (0.0)          | _        | 4 379                  | 1.7               | Spain                                       |
| 1 2 2 5             | (16.6)                     | 3.3                 | 0.9               | 62                  | (12.7)                  | 3.1               | 1.0               | 0              | (0.0)          | _        | 488                    | 1.2               | Sweden                                      |
| 1 3 2 5<br>15 9 7 6 | (25.2)<br>(30.2)           | 7.8<br><b>11.2</b>  | 1.6<br><b>2.8</b> | 829<br><b>9 889</b> | (15.8)<br><b>(18.7)</b> | 7.0<br><b>9.9</b> | 1.3<br><b>1.5</b> | 0<br><b>18</b> | (0.0)<br>(0.0) | 1.8      | 5 248<br><b>52 836</b> | 1.4<br><b>1.9</b> | United Kingdom <sup>b</sup> Subtotal EU/EEA |
| 15 7/10             | (30.2)                     | 11,2                | 2.0               | 7007                | (10.7)                  | 7.7               | 1.5               | 10             | (0.0)          | 1.0      | J2 030                 | 11.7              | Non-EU/EEA                                  |
| 138                 | (27.4)                     | 17.9                | 2.2               | 116                 | (23.1)                  | 30.0              | 1.2               | 0              | (0.0)          | -        | 503                    | _                 | Albania                                     |
| 0                   | (0.0)                      | 0.0                 | -                 | 0                   | (0.0)                   | 0.0               | -                 | 0              | (0.0)          | -        | 1                      | 0.0               | Andorra                                     |
| 309                 | (36.7)                     | 42.4                | 4.8               | 91                  | (10.8)                  | 27.6              | 2.6               | 0              | (0.0)          | -        | 841                    | 3.5               | Armenia                                     |
| 1 092               | (20.9)                     | 47.9                | 2.3               | 232                 | (4.4)                   | 39.2              | 1.4               | 1360           | (26.0)         | -        | 5 231                  | 1.9               | Azerbaijan                                  |
| 1 152               | (41.4)                     | 43.4                | 4.7               | 382                 | (13.7)                  | 27.3              | 0.8               | 0              | (0.0)          | -        | 2 781                  | 2.6               | Belarus                                     |
| 261                 | (34.1)                     | 26.0                | 2.4               | 278                 | (36.3)                  | 47.8              | 1.2               | 0              | (0.0)          | -        | 766                    | 1.6               | Bosnia and Herzegovina                      |
| 825                 | (31.8)                     | 80.8                | 3.8               | 291                 | (11.2)                  | 50.0              | 1.4               | 0              | (0.0)          | -        | 2 597                  | 2.1               | Georgia                                     |
| 42                  | (17.9)                     | 2.7                 | 2.5               | 37                  | (15.8)                  | 3.8               | 1.5               | 0              | (0.0)          | -        | 234                    | 1.5               | Israel                                      |
| 3 534               | (28.4)                     | 92.3                | 2.3               | 1248                | (10.0)                  | 98.1              | 0.9               | 0              | (0.0)          | -        | 12 449                 | 1.5               | Kazakhstan                                  |
| 1 621               | (24.2)                     | 153.6               | 1.9               | 710                 | (10.6)                  | 261.7             | 1.1               | 0              | (0.0)          | -        | 6 687                  | 1.4               | Kyrgyzstan                                  |
| 0                   | (0.0)                      | 0.0                 | -                 | 0                   | (0.0)                   | 0.0               | -                 | 0              | (0.0)          | -        | 0                      | -                 | Monaco                                      |
| 25                  | (33.3)                     | 15.2                | 5.3               | 18                  | (24.0)                  | 19.4              | 1.6               | 0              | (0.0)          | -        | 75                     | -                 | Montenegro                                  |
| 70                  | (32.4)                     | 12.6                | 1.9               | 37                  | (17.1)                  | 13.4              | 1.3               | 0              | (0.0)          | -        | 216                    |                   | North Macedonia                             |
| 1 248               | (37.2)                     | 116.3               | 4.2               | 254                 | (7.6)                   | 57.7              | 2.0               | 0              | (0.0)          | -        | 3 358                  | -                 | Republic of Moldova                         |
| 24 186              | (28.6)                     | 61.7                | 3.2               | 5 770               | (6.8)                   | 28.3              | 1.2               | 483            | (0.6)          | -        | 84 510                 | 2.3               | Russian Federation                          |
| 0                   | (0.0)                      | 0.0                 | -                 | 0                   | (0.0)                   | 0.0               | -                 | 0              | (0.0)          | -        | 0                      | -                 | San Marino                                  |
| 466                 | (32.1)                     | 20.1                | 2.0               | 431                 | (29.7)                  | 28.2              | 1.2               | 14             | (1.0)          | -        | 1 450                  | 1.3               | Serbia                                      |
| 274                 | (37.1)                     | -                   | 2.5               | 243                 | (32.9)                  | -                 | 1.3               | 14             | (1.9)          | -        | 738                    |                   | Serbia excluding Kosovo                     |
| 192                 | (27.0)                     | -                   | 1.5               | 188                 | (26.4)                  | -                 | 1.0               | 0              | (0.0)          | -        | 712                    |                   | Kosovo <sup>c</sup>                         |
| 94                  | (17.8)                     | 3.9                 | 2.1               | 75                  | (14.2)                  | 4.8               | 1.2               | 0              | (0.0)          | -        | 529                    | 1.7               | Switzerland                                 |
| 1 264               | (21.4)                     | 100.2               | 1.1               | 486                 | (8.2)                   | 157.2             | 0.9               | 0              | (0.0)          | -        | 5 895                  |                   | Tajikistan                                  |
| 3 577               | (30.3)                     | 22.0                | 1.6               | 2 277               | (19.3)                  | 34.6              | 1.3               | 0              | (0.0)          | -        | 11 821                 | -                 | Turkey                                      |
| 561                 | (28.5)                     | 57.1                | 1.8               | 100                 | (5.1)                   | 40.6              | 0.5               | 39             | (2.0)          | -        | 1968                   | 1.4               |   |
| 8 781               | (32.2)                     | 72.7                | 3.4               | 2 322               | (8.5)                   | 31.9              | 1.1               | 0              | (0.0)          | -        | 27 229                 | 2.3               |   |
|                     |                            |                     | 1.5               | 2 199               | (13.1)                  | 154.2             | 1.1               | 0              | (0.0)          | -        | 16 842                 | 1.3               |   |
|                     | (29.3)                     | 0/.0                | 1.0               |                     |                         |                   |                   |                |                |          |                        |                   |   |
| 4 933               | (29.3)<br>( <b>29.1</b> )  | 87.5<br><b>56.0</b> |                   |                     |                         |                   | 1.1               | 1896           | (1.0)          | -        | 185 983                | 1.9               | Subtotal non-EU/EEA                         |
|                     | (29.3)<br>(29.1)<br>(29.4) | 56.0<br>29.3        | 2.6               | 17 354<br>27 243    | (9.3)                   | 37.3<br>18.5      |                   |                | (1.0)          | -        | 185 983<br>238 819     |                   | Subtotal non-EU/EEA Total European Region   |

Table 10. TB cases by origin, European Region, 2017

| Country/area                         | Origin      | Nati    |         | Fore   |        | Unknowr |        | All TB cases |
|--------------------------------------|-------------|---------|---------|--------|--------|---------|--------|--------------|
| •                                    | criterion   | N       | (%)     | N      | (%)    | N       | (%)    | N            |
| EU/EEA                               |             |         |         |        |        |         |        |              |
| Austria                              | Citizenship | 197     | (34.6)  | 373    | (65.4) | 0       | (0.0)  | 570          |
| Belgium                              | Citizenship | 466     | (47.9)  | 506    | (52.1) | 0       | (0.0)  | 972          |
| Bulgaria                             | Birthplace  | 1 457   | (99.6)  | 6      | (0.4)  | 0       | (0.0)  | 1 463        |
| Croatia                              | Birthplace  | 371     | (100.0) | 0      | (0.0)  | 0       | (0.0)  | 371          |
| Cyprus                               | Birthplace  | 15      | (28.3)  | 38     | (71.7) | 0       | (0.0)  | 53           |
| Czech Republic                       | Birthplace  | 346     | (68.5)  | 159    | (31.5) | 0       | (0.0)  | 505          |
| Denmark                              | Birthplace  | 90      | (32.7)  | 184    | (66.9) | 1       | (0.4)  | 275          |
| Estonia                              | Birthplace  | 152     | (86.9)  | 23     | (13.1) | 0       | (0.0)  | 175          |
| Finland                              | Birthplace  | 132     | (55.7)  | 95     | (40.1) | 10      | (4.2)  | 237          |
| France                               | Birthplace  | 1 815   | (35.4)  | 3 019  | (58.8) | 297     | (5.8)  | 5 131        |
| Germany                              | Birthplace  | 1 4 4 1 | (26.3)  | 3 820  | (69.6) | 225     | (4.1)  | 5 486        |
| Greece                               | Citizenship | 270     | (57.8)  | 197    | (42.2) | 0       | (0.0)  | 467          |
| Hungary                              | Citizenship | 660     | (96.4)  | 25     | (3.6)  | 0       | (0.0)  | 685          |
| Iceland                              | Birthplace  | 6       | (42.9)  | 8      | (57.1) | 0       | (0.0)  | 14           |
| Ireland                              | Birthplace  | 154     | (48.4)  | 144    | (45.3) | 20      | (6.3)  | 318          |
| Italy                                | Birthplace  | 1333    | (33.8)  | 2 611  | (66.2) | 0       | (0.0)  | 3 944        |
| Latvia                               | Birthplace  | 511     | (92.6)  | 41     | (7.4)  | 0       | (0.0)  | 552          |
| Liechtenstein                        | Birthplace  | 1       | (100.0) | 0      | (0.0)  | 0       | (0.0)  | 1            |
| Lithuania                            | Birthplace  | 1 372   | (98.9)  | 15     | (1.1)  | 0       | (0.0)  | 1 387        |
| Luxembourg                           | Birthplace  | 7       | (21.9)  | 25     | (78.1) | 0       | (0.0)  | 32           |
| Malta                                | Birthplace  | 3       | (7.1)   | 39     | (92.9) | 0       | (0.0)  | 42           |
| Netherlands                          | Birthplace  | 198     | (25.2)  | 586    | (74.5) | 3       | (0.4)  | 787          |
| Norway                               | Birthplace  | 30      | (11.5)  | 231    | (88.5) | 0       | (0.0)  | 261          |
| Poland                               | Citizenship | 5 679   | (98.1)  | 108    | (1.9)  | 0       | (0.0)  | 5 787        |
| Portugal                             | Birthplace  | 1448    | (80.4)  | 351    | (19.5) | 1       | (0.1)  | 1800         |
| Romania                              | Birthplace  | 12 977  | (99.8)  | 27     | (0.2)  | 0       | (0.0)  | 13 004       |
| Slovakia                             | Birthplace  | 244     | (98.0)  | 5      | (2.0)  | 0       | (0.0)  | 249          |
| Slovenia                             | Birthplace  | 66      | (58.9)  | 46     | (41.1) | 0       | (0.0)  | 112          |
| Spain                                | Birthplace  | 2 319   | (50.7)  | 1352   | (29.6) | 899     | (19.7) | 4 570        |
| Sweden                               | Birthplace  | 52      | (10.0)  | 468    | (90.0) | 0       | (0.0)  | 520          |
| United Kingdom                       | Birthplace  | 1634    | (29.4)  | 3 797  | (68.2) | 136     | (2.4)  | 5 5 6 7      |
| Subtotal EU/EEA                      | Birtiiptacc | 35 446  | (64.1)  | 18 299 | (33.1) | 1592    | (2.9)  | 55 337       |
| Non-EU/EEA                           |             | 33 440  | (0-111) | 10 277 | (3311) | 1772    | (=1))  | 33 331       |
| Albania                              | Citizenship | 503     | (100.0) | 0      | (0.0)  | -       | -      | 503          |
| Andorra                              | Citizenship | 1       | (100.0) | 0      | (0.0)  | -       | -      | 1            |
| Armenia                              | Citizenship | 919     | (99.2)  | 7      | (0.8)  | -       | _      | 926          |
| Azerbaijan                           | Citizenship | 7 129   | (100.0) | 0      | (0.0)  | _       | _      | 7 129        |
| ,                                    |             |         |         |        |        |         |        |              |
| Belarus                              | Citizenship | 3 052   | (100.0) | 0      | (0.0)  | -       | -      | 3 052        |
| Bosnia and Herzegovina               | Birthplace  | 768     | (100.0) | 0      | (0.0)  |         |        | 768          |
| Georgia                              | Citizenship | 2 927   | (100.0) | 0      | (0.0)  | -       | -      | 2 927        |
| Israel                               | Birthplace  | 44      | (18.8)  | 190    | (81.2) | -       | -      | 234          |
| Kazakhstan                           | Citizenship | 12 942  | (100.0) | 0      | (0.0)  | -       | -      | 12 942       |
| Kyrgyzstan                           | Birthplace  | 7 695   | (100.0) | 0      | (0.0)  | -       | -      | 7 695        |
| Monaco                               | Birthplace  | 0       | -       | 0      | -      | -       | -      | 0            |
| Montenegro                           | Citizenship | 74      | (96.1)  | 3      | (3.9)  | -       | -      | 77           |
| North Macedonia                      | Birthplace  | 216     | (98.6)  | 3      | (1.4)  | -       | -      | 219          |
| Republic of Moldova                  | Citizenship | 3 834   | (99.4)  | 24     | (0.6)  | -       | -      | 3 858        |
| Russian Federation                   | Citizenship | 111 689 | (97.8)  | 2 498  | (2.2)  | -       | -      | 114 187      |
| San Marino                           | -           | 0       | -       | 0      | -      | -       | -      | 0            |
| Serbia                               | -           | 1466    | (100.0) | 0      | (0.0)  | -       | -      | 1466         |
| Serbia excluding Kosovo <sup>a</sup> | Citizenship | 745     | (100.0) | 0      | (0.0)  | -       | -      | 745          |
| Kosovo <sup>a</sup>                  | Birthplace  | 721     | (100.0) | 0      | (0.0)  | -       | -      | 721          |
| Switzerland                          | Birthplace  | 189     | (34.1)  | 366    | (65.9) | -       | -      | 555          |
| Tajikistan                           | Birthplace  | 6 279   | (100.0) | 0      | (0.0)  | -       | -      | 6 279        |
| Turkey                               | Birthplace  | 10 939  | (90.8)  | 1 107  | (9.2)  | -       | -      | 12 046       |
| Turkmenistan                         | Citizenship | 2 232   | (100.0) | 0      | (0.0)  | -       | -      | 2 232        |
| Ukraine                              | Citizenship | 31 558  | (99.9)  | 26     | (0.1)  | -       | -      | 31 584       |
| Uzbekistan                           | Birthplace  | 19 329  | (100.0) | 0      | (0.0)  | -       | -      | 19 329       |
| Subtotal non-EU/EEA                  | J. 1. 1. 1. | 223 785 | (98.1)  | 4 224  | (1.9)  | -       | -      |              |
| Total European Region                |             | 259 231 | (91.5)  | 22 523 | (7.9)  | 1592    | (0.6)  |              |
| Subtotal 18 HPCs                     |             | 236 993 | (98.4)  | 3 774  | (1.6)  | 0       | (0.0)  |              |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in Italics. HPCs = high-priority countries.

\* (In accordance with Security Council Resolution 1244 (1999)).

Table 11. Drug resistance surveillance of bacteriologically confirmed pulmonary TB cases, European Region, 2017

| Country/area           | Source of data       | Coverage      | Bacteriolog<br>confirmed |   | Cases wit<br>results at l<br>RIF° and | east for | Cases resis |        | Multidrug-r<br>TB cas |        | Reporting<br>completeness |
|------------------------|----------------------|---------------|--------------------------|---|---------------------------------------|----------|-------------|--------|-----------------------|--------|---------------------------|
|                        |                      |               | N                        | (%)                                     | N N                                   | (%)      | N           | (%)    | N                     | (%)    | completeness              |
| EU/EEA                 |                      |               |                          |   |                                       |          |             |        |                       |        |                           |
| Austria                | TESSyg               | National      | 380                      | (88.2)                                  | 345                                   | (90.8)   | 42          | (12.2) | 16                    | (4.6)  | Υ                         |
| Belgium                | TESSy                | National      | 597                      | (85.7)                                  | 551                                   | (92.3)   | 37          | (6.7)  | 3                     | (0.5)  | Υ                         |
| Bulgaria               | TESSy                | National      | 676                      | (61.4)                                  | 597                                   | (88.3)   | 49          | (8.2)  | 24                    | (4.0)  | Υ                         |
| Croatia                | TESSy                | National      | 285                      | (87.2)                                  | 194                                   | (68.1)   | 11          | (5.7)  | 0                     | (0.0)  | Υ                         |
| Cyprus                 | TESSy                | National      | 34                       | (77.3)                                  | 33                                    | (97.1)   | 6           | (18.2) | 1                     | (3.0)  | Υ                         |
| Czech Republic         | TESSy                | National      | 358                      | (81.5)                                  | 312                                   | (87.2)   | 21          | (6.7)  | 6                     | (1.9)  | Υ                         |
| Denmark                | TESSy                | National      | 175                      | (80.3)                                  | 171                                   | (97.7)   | 3           | (1.8)  | 1                     | (0.6)  | Υ                         |
| Estonia                | TESSy                | National      | 144                      | (85.7)                                  | 139                                   | (96.5)   | 56          | (40.3) | 36                    | (25.9) | Υ                         |
| Finland                | TESSy                | National      | 147                      | (87.0)                                  | 141                                   | (95.9)   | 17          | (12.1) | 5                     | (3.5)  | Υ                         |
| France                 | -                    | -             | -                        | -                                       | -                                     | -        | -           | -      | -                     | -      | -                         |
| Germany                | TESSy                | National      | 3 262                    | (83.8)                                  | 2 784                                 | (85.3)   | 322         | (11.6) | 87                    | (3.1)  | Υ                         |
| Greece                 | TESSy                | National      | 237                      | (60.6)                                  | 168                                   | (70.9)   | 34          | (20.2) | 6                     | (3.6)  | Υ                         |
| Hungary                | TESSy                | National      | 344                      | (52.3)                                  | 312                                   | (90.7)   | 44          | (14.1) | 11                    | (3.5)  | Υ                         |
| Iceland                | TESSy                | National      | 8                        | (72.7)                                  | 8                                     | (100.0)  | 0           | (0.0)  | 0                     | (0.0)  | Υ                         |
| Ireland                | TESSy                | National      | 162                      | (77.1)                                  | 146                                   | (90.1)   | 14          | (9.6)  | 5                     | (3.4)  | Υ                         |
| Italy <sup>h</sup>     | NRL-TME <sup>i</sup> | Partial       | 2 231                    | (80.5)                                  | 1980                                  | (88.7)   | -           | -      | 56                    | (2.8)  | N                         |
| Latvia                 | TESSy                | National      | 442                      | (84.7)                                  | 423                                   | (95.7)   | 122         | (28.8) | 45                    | (10.6) | Υ                         |
| Liechtenstein          | TESSy                | National      | 1                        | (100.0)                                 | 1                                     | (100.0)  | 0           | (0.0)  | 0                     | (0.0)  | Υ                         |
| Lithuania              | TESSy                | National      | 1 123                    | (87.4)                                  | 1 123                                 | (100.0)  | 416         | (37.0) | 248                   | (22.1) | Υ                         |
| Luxembourg             | TESSy                | National      | 21                       | (87.5)                                  | 21                                    | (100.0)  | 1           | (4.8)  | 1                     | (4.8)  | Υ                         |
| Malta                  | TESSy                | National      | 25                       | (83.3)                                  | 23                                    | (92.0)   | 2           | (8.7)  | 0                     | (0.0)  | Υ                         |
| Netherlands            | TESSy                | National      | 369                      | (80.7)                                  | 369                                   | (100.0)  | 36          | (9.8)  | 6                     | (1.6)  | Υ                         |
| Norway                 | TESSy                | National      | 146                      | (92.4)                                  | 141                                   | (96.6)   | 19          | (13.5) | 6                     | (4.3)  | Υ                         |
| Poland                 | TESSy                | National      | 4 109                    | (74.3)                                  | 3 706                                 | (90.2)   | 253         | (6.8)  | 44                    | (1.2)  | Y                         |
| Portugal               | TESSy                | National      | 988                      | (76.6)                                  | 652                                   | (66.0)   | 92          | (14.1) | 10                    | (1.5)  | Y                         |
| Romania                | TESSy                | National      | 9 039                    | (81.8)                                  | 7 958                                 | (88.0)   | 693         | (8.7)  | 356                   | (4.5)  | Y                         |
| Slovakia               | TESSy                | National      | 145                      | (70.4)                                  | 125                                   | (86.2)   | 12          | (9.6)  | 5                     | (4.0)  | Y                         |
| Slovenia               | TESSy                | National      | 89                       | (97.8)                                  | 89                                    | (100.0)  | 2           | (2.2)  | 1                     | (1.1)  | Y                         |
| Spain                  | TESSy                | National      | 2 723                    | (82.1)                                  | 798                                   | (29.3)   | 93          | (11.7) | 16                    | (2.0)  | Υ                         |
| Sweden                 | TESSy                | National      | 295                      | (91.0)                                  | 285                                   | (96.6)   | 32          | (11.2) | 9                     | (3.2)  | Y                         |
| United Kingdom         | TESSy                | National      | 2 307                    | (75.7)                                  | 2 235                                 | (96.9)   | 193         | (8.6)  | 32                    | (1.4)  | Y                         |
| Subtotal EU/EEA        | ,                    |               | 30 862                   | (79.4)                                  | 25 830                                | (83.7)   | 2 622       | (11.0) | 1 036                 | (4.0)  |                           |
| Non-EU/EEA             |                      |               |                          | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |                                       | (001)    |             | (1117) |                       | (110)  |                           |
| Albania                | NRL-TME              | National      | 210                      | -                                       | 79                                    | (37.6)   | _           | _      | 0                     | (0.0)  | N                         |
| Andorra                | NRL-TME              | National      | 1                        | -                                       | 1                                     | (100.0)  | _           | _      | 0                     | (0.0)  | Y                         |
| Armenia                | NRL-TME              | National      | 454                      | -                                       | 428                                   | (94.3)   | -           | _      | 81                    | (18.9) | Y                         |
| Azerbaijan             | NRL-TME              | National      | 4 923                    | _                                       | 3 035                                 | (61.6)   | -           | _      | 665                   | (21.9) | N                         |
| Belarus                | NRL-TME              | National      | 2 390                    | _                                       | 2 390                                 | (100.0)  | _           | _      | 1 088                 | (45.5) | Y                         |
| Bosnia and Herzegovina | NRL-TME              | National      | 479                      | -                                       | 129                                   | (26.9)   | -           | -      | 0                     | (0.0)  | N                         |
| Georgia                | NRL-TME              | National      | 2 061                    | _                                       | 1606                                  | (77.9)   | -           | _      | 262                   | (16.3) | Y                         |
| Israel                 | NRL-TME              | National      | 131                      | -                                       | 131                                   | (100.0)  | -           | -      | 8                     | (6.1)  | Y                         |
| Kazakhstan             | NRL-TME              | National      | 9 982                    | -                                       | 4 202                                 | (42.1)   | _           | _      | 1 663                 | (39.6) | N                         |
| Kyrgyzstan             | NRL-TME              | National      | 3 849                    | -                                       | 2 616                                 | (68.0)   | -           | -      | 827                   | (31.6) | N                         |
| Monaco                 | NRL-TME              | National      | 0                        | -                                       | 0                                     | (00.0)   | -           | -      | 0                     | (51.0) | Y                         |
| Montenegro             | -                    | -             | 58                       | _                                       | 53                                    | (91.4)   | _           | _      | 1                     | (1.9)  | -                         |
| North Macedonia        | NRL-TME              | National      | 155                      | -                                       | 155                                   | (100.0)  | -           | _      | 1                     | (0.6)  | Υ                         |
| Republic of Moldova    | NRL-TME              | National      | 2 267                    | -                                       | 1 486                                 | (65.5)   | _           | -      | 486                   | (32.7) | N                         |
| Russian Federation     | NRL-TME              | National      | 59 036                   | _                                       | 53 873                                | (91.3)   | _           | _      | 22 817                | (42.4) | Y                         |
| San Marino             | HAVE-THIE            |               | 0                        | -                                       | 0                                     | (21.3)   | _           | _      | 0                     | (42.4) | Y                         |
| Serbia                 | -                    | -<br>National | 783                      | -                                       | 357                                   | (45.6)   | _           | _      | 5                     | (1.4)  | N N                       |
| Serbia excluding       |                      |               |                          |   |                                       |          | _           |        |                       |        |                           |
| Kosovo <sup>j</sup>    | NRL-TME              | National      | 513                      | -                                       | 357                                   | (69.6)   | -           | -      | 5                     | (1.4)  | N                         |
| Kosovo <sup>j</sup>    | -                    | National      | 270                      | -                                       | 0                                     | (0.0)    | -           | -      | 0                     | (0.0)  | N                         |
| Switzerland            | NRL-TME              | National      | 364                      | -                                       | 276                                   | (75.8)   | -           | -      | 8                     | (2.9)  | Υ                         |
| Tajikistan             | NRL-TME              | Subnational   | 3 084                    | -                                       | 650                                   | (21.1)   | -           | -      | 546                   | (84.0) | N                         |
| Turkey                 | NRL-TME              | National      | 6 338                    | -                                       | 5 438                                 | (85.8)   | -           | -      | 182                   | (3.3)  | N                         |
| Turkmenistan           | NRL-TME              | -             | -                        | -                                       | 0                                     | -        | -           | -      | -                     | _      | Υ                         |
| Ukraine                | NRL-TME              | National      | 20 052                   | -                                       | 18 624                                | (92.9)   | -           | -      | 5 008                 | (26.9) | Υ                         |
| Uzbekistan             | NRL-TME              | Subnational   | 8 192                    | -                                       | 5 045                                 | (61.6)   | -           | -      | 540                   | (10.7) | N                         |
| Subtotal non-EU/EEA    |                      |               | 124 809                  | -                                       | 100 574                               | (80.6)   | -           | -      | 34 188                | (34.0) |                           |
| Total European Region  |                      |               | 155 671                  | -                                       | 126 404                               | (81.2)   | 2 622       | (11.0) | 35 224                | (27.9) |                           |
| Subtotal 18 HPCs       |                      |               | 134 052                  | -                                       | 109 633                               | (81.8)   | 1 336       | (1.2)  | 34 874                | (31.8) |                           |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. HPCs = high-priority countries.

\*Bacteriologically confirmed cases – cases with positive identification for M. tuberculosis complex confirmed by culture and/or line probe assay for non-EU/EEA countries and areas. For EU/EEA countries: cases with positive identification for M. tuberculosis complex confirmed by culture and/or line probe assay.

\*BST = drug-susceptibility testing.

\*RIF = rifampicin.

\*INH = isoniazid.

\*For non-EU/EEA countries and areas any resistance to isoniazid, rifampicin, ethambutol or streptomycin expressed as a percentage of cases with DST results available for at least isoniazid and rifampicin. No routine testing for ethambutol and streptomycin in all countries. For EU/EEA countries, cases with DST results for at least RIF and INH that have any resistance to isoniazid,

rifampicin, ethambutol, streptomycin, ciprofloxacin, gatifloxacin, levofloxacin, moxifloxacin, ofloxacin, amikacin, capreomycin, kanamycin or pyrazinamide expressed as a percentage of cases with DST results available for at least isoniazid and rifampicin.

Data considered complete when collected nationwide OR culture results available for 2 90% of all cases, and > 50% of all cases culture-positive, and > 75% of them with DST results for isoniazid and rifampicin, and 2 95% of the external quality assessment results confirmed by a supranational reference laboratory.

TESSy = the European Surveillance System.

Data from Italy are reported by the National Reference Laboratory (NRL) and may differ from data shown elsewhere in this report.

TME = the WHO global TB data collection system.

Table 12. Drug resistance surveillance of bacteriologically confirmed pulmonary TB cases by previous TB treatment history, **European Region, 2017** 

|                                   |                  |                  |              | New             |                                       |                  |                 |                  |                  |         | Pre     | eviously t       | reated                                  |               |                |                  |
|-----------------------------------|------------------|------------------|--------------|-----------------|---------------------------------------|------------------|-----------------|------------------|------------------|---------|---------|------------------|---|---------------|----------------|------------------|
| Country/area                      | Cases wi<br>resu |                  | MDR-TB       | cases           | bacteriolo<br>confir<br>pulmon<br>cas | med<br>ary TB    | pulmo<br>cas    |                  | Cases wi<br>resu |         | MDR-TB  | cases            | bacteriolo<br>confir<br>pulmona<br>case | med<br>ary TB | pulmoi<br>caso |                  |
|                                   | N                | (%)°             | N            | (%)⁴            | N                                     | (%)°             | N               | (%) <sup>f</sup> | N                | (%)°    | N       | (%) <sup>d</sup> | N                                       | (%)°          | N              | (%) <sup>f</sup> |
| EU/EEA                            |                  |                  |              |                 |                                       |                  |                 |                  |                  |         |         |                  |   |               |                |                  |
| Austria                           | 262              | (95.3)           | 11           | (4.2)           | 275                                   | (83.6)           | 329             | (94.5)           | 15               | (100.0) | 2       | (13.3)           | 15                                      | (78.9)        | 19             | (5.5)            |
| Belgium <sup>k</sup>              | 426              | (95.9)           | 1            | (0.2)           | 444                                   | (82.2)           | 540             | (92.2)           | 39               | (100.0) | 2       | (5.1)            | 39                                      | (84.8)        | 46             | (7.8)            |
| Bulgaria                          | 514              | (87.4)           | 13           | (2.5)           | 588                                   | (63.2)           | 931             | (84.6)           | 83               | (95.4)  | 11      | (13.3)           | 87                                      | (51.2)        | 170            | (15.4)           |
| Croatia                           | 158              | (67.8)           | 0            | (0.0)           | 233                                   | (88.6)           | 263             | (93.3)           | 10               | (71.4)  | 0       | (0.0)            | 14                                      | (73.7)        | 19             | (6.7)            |
| Cyprus                            | 33               | (100.0)          | 1            | (3.0)           | 33                                    | (78.6)           | 42              | (97.7)           | 0                | (/ 1/)  | 0       | (0.0)            | 0                                       | (0.0)         | 1              | (2.3)            |
| Czech Republic                    | 296              | (92.8)           | 3            | (1.0)           | 319                                   | (78.4)           | 407             | (92.7)           | 16               | (84.2)  | 3       | (18.8)           | 19                                      | (59.4)        | 32             | (7.3)            |
|                                   |                  |                  |              |                 |                                       |                  |                 |                  |                  |         |         |                  |   |               |                |                  |
| Denmark <sup>k</sup>              | 155              | (98.7)           | 1            | (0.6)           | 157                                   | (79.7)           | 197             | (90.4)           | 16               | (100.0) | 0       | (0.0)            | 16                                      | (76.2)        | 21             | (9.6)            |
| Estonia                           | 119              | (98.3)           | 26           | (21.8)          | 121                                   | (87.1)           | 139             | (82.7)           | 20               | (95.2)  | 10      | (50.0)           | 21                                      | (72.4)        | 29             | (17.3)           |
| Finland                           | 134              | (98.5)           | 4            | (3.0)           | 136                                   | (85.5)           | 159             | (96.4)           | 3                | (100.0) | 1       | (33.3)           | 3                                       | (50.0)        | 6              | (3.6)            |
| France                            | -                | -                | -            | -               | -                                     | -                | -               | -                | -                | -       | -       | -                | -                                       | -             | -              | -                |
| Germany                           | 64               | (92.8)           | 5            | (7.8)           | 69                                    | (84.1)           | 82              | (29.5)           | 96               | (80.7)  | 17      | (17.7)           | 119                                     | (60.7)        | 196            | (70.5)           |
| Greece                            | 144              | (72.0)           | 5            | (3.5)           | 200                                   | (61.9)           | 323             | (87.8)           | 17               | (77.3)  | 1       | (5.9)            | 22                                      | (48.9)        | 45             | (12.2)           |
| Hungary                           | 284              | (91.3)           | 7            | (2.5)           | 311                                   | (52.5)           | 592             | (90.0)           | 28               | (84.8)  | 4       | (14.3)           | 33                                      | (50.0)        | 66             | (10.0)           |
| Iceland                           | 7                | (100.0)          | 0            | (0.0)           | 7                                     | (70.0)           | 10              | (90.9)           | 1                | (100.0) | 0       | (0.0)            | 1                                       | (100.0)       | 1              | (9.1)            |
| Ireland <sup>k</sup>              | 95               | (94.1)           | 2            | (2.1)           | 101                                   | (84.2)           | 120             | (92.3)           | 7                | (100.0) | 0       | (0.0)            | 7                                       | (70.0)        | 10             | (7.7)            |
| Italy                             | 1905             | (88.2)           | 45           | (2.4)           | 2 160                                 | (100.0)          | 2 160           | (96.8)           | 75               | (105.6) | 11      | (14.7)           | 71                                      | (100.0)       | 71             | (3.2)            |
| Latvia                            | 364              | (95.5)           | 28           | (7.7)           | 381                                   | (83.7)           | 455             | (87.2)           | 59               | (98.3)  | 17      | (28.8)           | 60                                      | (89.6)        | 67             | (12.8)           |
| Liechtenstein                     | 304              |                  |              |                 |                                       |                  |                 |                  |                  | (70.3)  |         | (20.8)           |   | (07.0)        |                |                  |
|                                   | 055              | (100.0)          | 0            | (0.0)           | 1                                     | (100.0)          | 1 017           | (100.0)          | 0                | (100.0) | 0       | (54.5)           | 0                                       | (100.0)       | 0              | (0.0)            |
| Lithuania                         | 855              | (100.0)          | 110          | (12.9)          | 855                                   | (84.1)           | 1 017           | (79.1)           | 268              | (100.0) | 138     | (51.5)           | 268                                     | (100.0)       | 268            | (20.9)           |
| Luxembourg                        | -                | -                | -            | -               | -                                     | -                | -               | -                | -                | -       | -       | -                | -                                       | -             | -              | _                |
| Malta                             | 23               | (95.8)           | 0            | (0.0)           | 24                                    | (80.0)           | 30              | (100.0)          | 0                | -       | 0       | -                | 0                                       | -             | 0              | (0.0)            |
| Netherlands                       | 353              | (100.0)          | 5            | (1.4)           | 353                                   | (80.4)           | 439             | (96.1)           | 16               | (100.0) | 1       | (6.3)            | 16                                      | (88.9)        | 18             | (3.9)            |
| Norway <sup>k</sup>               | 131              | (98.5)           | 6            | (4.6)           | 133                                   | (91.7)           | 145             | (94.2)           | 7                | (87.5)  | 0       | (0.0)            | 8                                       | (88.9)        | 9              | (5.8)            |
| Poland                            | 3 317            | (92.1)           | 30           | (0.9)           | 3 603                                 | (73.8)           | 4 881           | (88.2)           | 389              | (85.7)  | 14      | (3.6)            | 454                                     | (69.8)        | 650            | (11.8)           |
| Portugal                          | 601              | (69.0)           | 9            | (1.5)           | 871                                   | (72.9)           | 1194            | (92.6)           | 51               | (68.9)  | 1       | (2.0)            | 74                                      | (77.1)        | 96             | (7.4)            |
| Romania                           | 6 046            | (89.5)           | 97           | (1.6)           | 6 755                                 | (79.3)           | 8 513           | (77.1)           | 1 910            | (90.0)  | 259     | (13.6)           | 2 123                                   | (83.8)        | 2 534          | (22.9)           |
| Slovakia                          | 98               | (100.0)          | 4            | (4.1)           | 98                                    | (58.0)           | 169             | (82.4)           | 26               | (100.0) | 1       | (3.8)            | 26                                      | (72.2)        | 36             | (17.6)           |
| Slovenia                          | 85               | (100.0)          | 1            | (1.2)           | 85                                    | (97.7)           | 87              | (95.6)           | 4                | (100.0) | 0       | (0.0)            | 4                                       | (100.0)       | 4              | (4.4)            |
|                                   |                  | (34.6)           |              | (1.7)           |                                       | (82.4)           |                 | (94.4)           |                  |         | 3       | (6.5)            |   |               |                | (5.6)            |
| Spain                             | 748              |                  | 13           |                 | 2 161                                 |                  | 2 624           |                  | 46               | (36.8)  |         |                  | 125                                     | (80.1)        | 156            |                  |
| Sweden                            | 252              | (99.2)           | 8            | (3.2)           | 254                                   | (89.1)           | 285             | (92.2)           | 21               | (100.0) | 1       | (4.8)            | 21                                      | (87.5)        | 24             | (7.8)            |
| United Kingdom <sup>k</sup>       | 2 006            | (97.8)           | 24           | (1.2)           | 2 052                                 | (75.2)           | 2 730           | (93.6)           | 127              | (96.9)  | 4       | (3.1)            | 131                                     | (70.4)        | 186            | (6.4)            |
| Subtotal EU/EEA                   | 19 476           | (85.5)           | 459          | (2.4)           | 22 780                                | (78.9)           | 28 864          | (85.8)           | 3 350            | (88.7)  | 501     | (15.0)           | 3 777                                   | (79.0)        | 4 780          | (14.2)           |
| Non-EU/EEA                        |                  |                  |              |                 |                                       |                  |                 |                  |                  |         |         |                  |   |               |                |                  |
| Albania                           | 69               | (35.4)           | 0            | (0.0)           | 195                                   | (59.8)           | 326             | -                | 10               | (66.7)  | 0       | (0.0)            | 15                                      | -             | -              | -                |
| Andorra                           | 1                | (100.0)          | 0            | (0.0)           | 1                                     | (100.0)          | 1               | -                | 0                | (0.0)   | 0       | (0.0)            | 0                                       | -             | -              | -                |
| Armenia                           | 320              | (98.2)           | 40           | (12.5)          | 326                                   | (62.2)           | 524             | -                | 108              | (84.4)  | 41      | (38.0)           | 128                                     | -             | -              | _                |
| Azerbaijan                        | 1328             | (65.6)           | 170          | (12.8)          | 2 023                                 | (68.6)           | 2 9 4 9         | -                | 1707             | (58.9)  | 495     | (29.0)           | 2 900                                   | -             | _              | _                |
| Belarus                           | 1 690            | (100.0)          | 629          | (37.2)          | 1 690                                 | (81.2)           | 2 081           | -                | 700              | (100.0) | 459     | (65.6)           | 700                                     | -             | -              | -                |
| Bosnia and Herzegovina            | 118              | (27.2)           | 0            | (0.0)           | 434                                   | (70.3)           | 617             | -                | 11               | (24.4)  | 0       | (0.0)            | 45                                      | _             | -              | _                |
| Georgia                           | 1 231            | (84.0)           | 129          | (10.5)          | 1 466                                 | (86.9)           | 1 687           | -                | 375              | (63.0)  | 133     | (35.5)           | 595                                     | -             | _              | _                |
| srael                             | 129              | (100.0)          | 7            | (5.4)           | 129                                   | (78.7)           | 164             |                  | 2                | (100.0) | 1       | (50.0)           | 2                                       | _             | _              | _                |
| Kazakhstan                        | 2 161            | (31.4)           | 710          | (32.9)          | 6 881                                 | (84.6)           | 8 133           | _                | 2 041            | (65.8)  | 953     | (46.7)           | 3 101                                   | _             | _              | _                |
|                                   |                  |                  |              |                 |                                       |                  |                 |                  |                  |         |         |                  |   | -             |                |                  |
| Kyrgyzstan                        | 1749             | (66.5)           | 392          | (22.4)          | 2 632                                 | (63.5)           | 4 145           | -                | 867              | (71.2)  | 435     | (50.2)           | 1 217                                   |               | -              | -                |
| Monaco                            | 0                | ()               | 0            | - (0.0)         | 0                                     | (0 ( 5)          | -               | -                | 0                | (77.0)  | 0       | - (44.0)         | 0                                       | -             | -              | -                |
| Montenegro                        | 46               | (93.9)           | 0            | (0.0)           | 49                                    | (84.5)           | 58              | -                | 7                | (77.8)  | 1       | (14.3)           | 9                                       | -             | -              | -                |
| North Macedonia                   | 136              | (100.0)          | 0            | (0.0)           | 136                                   | (88.9)           | 153             | -                | 19               | (100.0) | 1       | (5.3)            | 19                                      | -             | -              | -                |
| Republic of Moldova               | 1 159            | (77.6)           | 308          | (26.6)          | 1 494                                 | (62.6)           | 2 385           | -                | 327              | (42.3)  | 178     | (54.4)           | 773                                     | -             | -              | -                |
| Russian Federation                | 29 081           | (88.2)           | 8 206        | (28.2)          | 32 978                                | (51.1)           | 64 508          | -                | 24 792           | (95.1)  | 14 611  | (58.9)           | 26 058                                  | -             | -              | -                |
| San Marino                        | 0                | (0.0)            | 0            | (0.0)           | 0                                     | (0.0)            | 0               | -                | 0                | (0.0)   | 0       | (0.0)            | 0                                       | -             | -              | -                |
| Serbia                            | 327              | (45.9)           | 1            | (0.3)           | 712                                   | (46.1)           | 1546            | -                | 30               | (63.8)  | 4       | (13.3)           | 47                                      | -             | -              | -                |
| Serbia excluding Kosovo           | 327              | (70.5)           | 1            | (0.3)           | 464                                   | (44.0)           | 1 055           | -                | 30               | (120.0) | 4       | (13.3)           | 25                                      | -             | -              | -                |
| Kosovol                           | 0                | (0.0)            | 0            | (0.0)           | 248                                   | (50.5)           | 491             | -                | 0                | (0.0)   | 0       | (0.0)            | 22                                      | -             | -              | -                |
| Switzerland                       | 267              | (90.8)           | 6            | (2.2)           | 294                                   | (77.6)           | 379             | -                | 9                | (56.3)  | 2       | (22.2)           | 16                                      | _             | _              | -                |
| Tajikistan                        |                  |                  |              |                 |                                       |                  |                 |                  |                  |         |         |                  |   | _             | _              | _                |
|                                   | 496              | (20.4)           | 413          | (83.3)          | 2 432                                 | (67.4)           | 3 608           | -                | 154              | (23.6)  | 133     | (86.4)           | 652                                     | -             | -              |                  |
|                                   | 4 895            | (86.2)           | 121          | (2.5)           | 5 681                                 | (78.9)           | 7 198           | -                | 543              | (82.6)  | 61      | (11.2)           | 657                                     |               | -              | -                |
| Turkey                            |                  | -                | 0            | -               | 605                                   | -                | -               | -                | 0                | -       | 0       | -                | 316                                     | -             | -              | -                |
| Turkey<br>Turkmenistan            | 0                |                  |              |                 |                                       |                  |                 |                  |                  |         | 0 / / / | (074)            |   |               |                |                  |
| Turkey<br>Turkmenistan<br>Ukraine | 12 122           | (94.4)           | 2 594        | (21.4)          | 12 840                                | (65.2)           | 19 699          | -                | 6 502            | (90.2)  | 2 414   | (37.1)           | 7 212                                   | -             | -              | -                |
| Turkey<br>Turkmenistan            |                  | (94.4)<br>(76.8) | 2 594<br>351 | (21.4)<br>(9.9) | 12 840<br>4 592                       | (65.2)<br>(50.1) | 19 699<br>9 158 | -                | 6 502<br>1 517   | (42.1)  | 189     | (37.1)           | 7 212<br>3 600                          | -             | -              | -                |
| Turkey<br>Turkmenistan<br>Ukraine | 12 122           |                  |              |                 |                                       |                  |                 |                  |                  |         |         |                  |   |               |                |                  |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics.

HPCs = high-priority countries.

Bacteriologically confirmed cases – cases with positive identification for M. tuberculosis complex confirmed by culture and/or line probe assay for non-EU/EEA countries and areas. For EU/EEA countries: culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases.

Previous treatment unknown pulmonary TB cases are excluded.

Percentage among bacteriologically confirmed pulmonary cases with DST results and the respective previous TB treatment history.

Percentage among all pulmonary TB cases with DST results and the respective previous TB treatment history.

Percentage among all pulmonary TB cases with the respective previous TB treatment history.

Percentage among all pulmonary TB cases. For EU/EEA, excluding the cases with unknown previous treatment history.

| Total <sup>b</sup>     |                   |              |                  |  |                   |                           |                  |                             |  |
|------------------------|-------------------|--------------|------------------|--|-------------------|---------------------------|------------------|-----------------------------|--|
| Cases with DST results |                   | MDR-TB cases |                  | All<br>bacteriologically<br>confirmed<br>pulmonary TB<br>cases |                   | All pulmonary TB<br>cases |                  | Country/area                |  |
| N                      | (%) <sup>g</sup>  | N            | (%) <sup>h</sup> | N  | (%) <sup>i</sup>  | N                         | (%) <sup>j</sup> |                             |  |
|                        |                   |              |                  |  |                   |                           |                  | EU/EEA                      |  |
| 277                    | (95.5)            | 13           | (4.7)            | 290  | (83.3)            | 348                       |                  | Austria                     |  |
| 465                    | (96.3)            | 3            | (0.6)            | 483  | (82.4)            | 586                       | (60.3)           | -                           |  |
| 597                    | (88.4)            | 24           | (4.0)            | 675  | (61.3)            | 1 101                     |                  | Bulgaria                    |  |
| 168                    | (68.0)<br>(100.0) | 0            | (0.0)            | 247<br>33  | (87.6)<br>(76.7)  | 282                       |                  | Croatia<br>Cyprus           |  |
| 312                    | (92.3)            | 6            | (1.9)            | 338  | (77.0)            | 43<br>439                 |                  | Czech Republic              |  |
| 171                    | (98.8)            | 1            | (0.6)            | 173  | (79.4)            | 218                       | (79.3)           | · ·                         |  |
| 139                    | (97.9)            | 36           | (25.9)           | 142  | (84.5)            | 168                       |                  | Estonia                     |  |
| 137                    | (98.6)            | 5            | (3.6)            | 139  | (84.2)            | 165                       |                  | Finland                     |  |
| -                      | -                 | -            | -                | -  | -                 | -                         | -                | France                      |  |
| 160                    | (85.1)            | 22           | (13.8)           | 188  | (67.6)            | 278                       | (5.1)            | Germany                     |  |
| 161                    | (72.5)            | 6            | (3.7)            | 222  | (60.3)            | 368                       | (78.8)           | Greece                      |  |
| 312                    | (90.7)            | 11           | (3.5)            | 344  | (52.3)            | 658                       |                  | Hungary                     |  |
| 8                      | (100.0)           | 0            | (0.0)            | 8  | (72.7)            | 11                        |                  | Iceland                     |  |
| 102                    | (94.4)            | 2            | (2.0)            | 108  | (83.1)            | 130                       |                  | Ireland <sup>k</sup>        |  |
| 1980<br>423            | (88.7)<br>(95.9)  | 56<br>45     | (2.8)            | 2 231<br>441   | (100.0)<br>(84.5) | 2 231<br>522              | (56.6)           | Latvia                      |  |
| 1                      | (100.0)           | 0            | (0.0)            | 1  | (100.0)           | 1                         |                  | Liechtenstein               |  |
| 1 123                  | (100.0)           | 248          | (22.1)           | 1 123  | (87.4)            | 1 285                     | ,                | Lithuania                   |  |
| - 1.25                 | -                 | -            | (==1.7)          | - 1.25   | -                 | -                         | -                | Luxembourg                  |  |
| 23                     | (95.8)            | 0            | (0.0)            | 24   | (80.0)            | 30                        | (71.4)           | -                           |  |
| 369                    | (100.0)           | 6            | (1.6)            | 369  | (80.7)            | 457                       | (58.1)           | Netherlands                 |  |
| 138                    | (97.9)            | 6            | (4.3)            | 141  | (91.6)            | 154                       |                  | Norway <sup>k</sup>         |  |
| 3 706                  | (91.3)            | 44           | (1.2)            | 4 057  | (73.4)            | 5 531                     |                  | Poland                      |  |
| 652                    | (69.0)            | 10           | (1.5)            | 945  | (73.3)            | 1290                      | (71.7)           | -                           |  |
| 7 956                  | (89.6)            | 356          | (4.5)            | 8 878  | (80.4)            | 11 047                    | (85.0)           |                             |  |
| 124<br>89              | (100.0)           | 5            | (4.0)            | 124<br>89  | (60.5)            | 205<br>91                 | (82.3)           |                             |  |
| 794                    | (100.0)           | 16           | (1.1)            | 2 286  | (97.8)<br>(82.2)  | 2 780                     | (81.3)           |                             |  |
| 273                    | (99.3)            | 9            | (3.3)            | 275  | (89.0)            | 309                       | (59.4)           |                             |  |
| 2 133                  | (97.7)            | 28           | (1.3)            | 2 183  | (74.9)            | 2 916                     |                  | United Kingdom <sup>k</sup> |  |
| 22 826                 | (86.0)            | 960          | (4.2)            | 26 557   | (78.9)            | 33 644                    |                  | Subtotal EU/EEA             |  |
|                        |                   |              |                  |  |                   |                           |                  | Non-EU/EEA                  |  |
| 79                     | (37.6)            | 0            | (0.0)            | 210  | -                 | -                         | -                | Albania                     |  |
| 1                      | (100.0)           | 0            | (0.0)            | 1  | -                 | -                         | -                | Andorra                     |  |
| 428                    | (94.3)            | 81           | (18.9)           | 454  | -                 | -                         | -                | Armenia                     |  |
| 3 035                  | (61.6)            | 665          | (21.9)           | 4 923  | -                 | -                         | -                | Azerbaijan<br>Belarus       |  |
| 2 390<br>129           | (100.0)<br>(26.9) | 1 088        | (45.5)           | 2 390<br>479   | -                 | -                         | _                | Bosnia and Herzegovina      |  |
| 1606                   | (77.9)            | 262          | (16.3)           | 2 061  | _                 | -                         | _                | Georgia                     |  |
| 131                    | (100.0)           | 8            | (6.1)            | 131  | -                 | -                         | _                | Israel                      |  |
| 4 202                  | (42.1)            | 1 663        | (39.6)           | 9 982  | -                 | -                         | _                | Kazakhstan                  |  |
| 2 616                  | (68.0)            | 827          | (31.6)           | 3 849  | -                 | -                         | -                | Kyrgyzstan                  |  |
| 0                      | -                 | 0            | -                | 0  | -                 | -                         | -                | Monaco                      |  |
| 53                     | (91.4)            | 1            | (1.9)            | 58   | -                 | -                         | -                | Montenegro                  |  |
| 155                    | (100.0)           | 1            | (0.6)            | 155  | -                 | -                         | -                | North Macedonia             |  |
| 1 486                  | (65.5)            | 486          | (32.7)           | 2 267  | -                 | -                         | -                | Republic of Moldova         |  |
| 53 873                 | (91.3)            | 22 817       | (42.4)           | 59 036   | -                 | -                         | -                | Russian Federation          |  |
| 257                    | (0.0)             | 0            | (0.0)            | 701  | -                 | -                         | -                | San Marino<br>Serbia        |  |
| 357<br>357             | (45.7)<br>(69.9)  | 5            | (1.4)            | 781<br>511   | _                 | -                         | _                | Serbia excluding Kosovo     |  |
| 0                      | (0.0)             | 0            | (0.0)            | 270  | _                 | _                         |                  | Kosovol                     |  |
| 276                    | (89.0)            | 8            | (2.9)            | 310  | -                 | -                         | -                | Switzerland                 |  |
| 650                    | (21.1)            | 546          | (84.0)           | 3 084  | -                 | -                         | -                | Tajikistan                  |  |
| 5 438                  | (85.8)            | 182          | (3.3)            | 6 338  | -                 | -                         | -                | Turkey                      |  |
| 0                      | -                 | 0            | -                | -  | -                 | -                         | -                | Turkmenistan                |  |
| 18 624                 | (92.9)            | 5 008        | (26.9)           | 20 052   | -                 | -                         | -                | Ukraine                     |  |
| 5 045                  | (61.6)            | 540          | (10.7)           | 8 192  | -                 | -                         | -                | Uzbekistan                  |  |
| 100 574                | (80.6)            | 34 188       | (34.0)           | 124 753  | -                 | -                         | -                | Subtotal non-EU/EEA         |  |
| 123 400                | (81.6)            | 35 148       | (28.5)           | 151 310  | -                 | -                         |                  | Total European Region       |  |
| 109 631                | (81.9)            | 34 874       | (31.8)           | 133 887  | -                 | -                         | -                | Subtotal 18 HPCs            |  |

Percentage among all bacteriologically confirmed pulmonary cases with DST results. For EU/EEA, excluding the cases with unknown previous treatment history.
Percentage among all pulmonary TB cases with DST results. For EU/EEA excluding the cases with unknown previous treatment history.
Percentage among all pulmonary TB cases. For EU/EEA excluding the cases with unknown previous treatment history.
Percentage among all TB cases.
Previous TB history is defined by previous diagnosis.
(In accordance with Security Council Resolution 1244 (1999)).

Table 13. Drug resistance in all laboratory-confirmed TB cases, EU/EEA, 2017

| Country        | Source of data | Coverage | Laboratory-confirmed<br>TB cases <sup>2</sup> |         | Cases with DST<br>results<br>(at least INH<br>and RIF) |         | Cases resistant to<br>any anti-TB drug <sup>b</sup> |        | Multidrug-resistant<br>TB cases |        | Reporting<br>completeness <sup>c</sup> |
|----------------|----------------|----------|---|---------|--|---------|---|--------|---------------------------------|--------|--|
|                |                |          | N   | (%)     | N  | (%)     | N   | (%)    | N                               | (%)    |  |
| EU/EEA         |                |          |   |         |  |         |   |        |                                 |        |  |
| Austria        | TESSy          | National | 445   | (78.1)  | 425  | (95.5)  | 53  | (12.5) | 18                              | (4.2)  | Υ                                      |
| Belgium        | TESSy          | National | 758   | (78.0)  | 729  | (96.2)  | 58  | (8.0)  | 5                               | (0.7)  | Υ                                      |
| Bulgaria       | TESSy          | National | 696   | (47.6)  | 607  | (87.2)  | 49  | (8.1)  | 24                              | (4.0)  | Υ                                      |
| Croatia        | TESSy          | National | 316   | (85.2)  | 215  | (68.0)  | 11  | (5.1)  | 0                               | (0.0)  | Υ                                      |
| Cyprus         | TESSy          | National | 39  | (73.6)  | 39   | (100.0) | 7   | (17.9) | 1                               | (2.6)  | Υ                                      |
| Czech Republic | TESSy          | National | 379   | (75.0)  | 350  | (92.3)  | 24  | (6.9)  | 8                               | (2.3)  | Υ                                      |
| Denmark        | TESSy          | National | 218   | (79.3)  | 214  | (98.2)  | 5   | (2.3)  | 2                               | (0.9)  | Υ                                      |
| Estonia        | TESSy          | National | 145   | (82.9)  | 142  | (97.9)  | 56  | (39.4) | 36                              | (25.4) | Υ                                      |
| Finland        | TESSy          | National | 195   | (82.3)  | 192  | (98.5)  | 22  | (11.5) | 5                               | (2.6)  | Υ                                      |
| France         |                | -        | -   | -       | -  | _       | -   | _      | -                               | _      | -                                      |
| Germany        | TESSy          | National | 3 978   | (72.5)  | 3 555  | (89.4)  | 423   | (11.9) | 105                             | (3.0)  | Υ                                      |
| Greece         | TESSy          | National | 265   | (56.7)  | 191  | (72.1)  | 39  | (20.4) | 7                               | (3.7)  | Υ                                      |
| Hungary        | TESSy          | National | 352   | (51.4)  | 318  | (90.3)  | 44  | (13.8) | 11                              | (3.5)  | Υ                                      |
| Iceland        | TESSy          | National | 10  | (71.4)  | 10   | (100.0) | 0   | (0.0)  | 0                               | (0.0)  | Υ                                      |
| Ireland        | TESSy          | National | 214   | (67.3)  | 196  | (91.6)  | 18  | (9.2)  | 5                               | (2.6)  | Υ                                      |
| Italy          | _              | _        | _   | -       | -  | -       | -   | _      | -                               | _      | -                                      |
| Latvia         | TESSV          | National | 453   | (82.1)  | 434  | (95.8)  | 125   | (28.8) | 46                              | (10.6) | Υ                                      |
| Liechtenstein  | TESSy          | National | 1   | (100.0) | 1  | (100.0) | 0   | (0.0)  | 0                               | (0.0)  | Υ                                      |
| Lithuania      | TESSV          | National | 1148  | (82.8)  | 1148   | (100.0) | 422   | (36.8) | 249                             | (21.7) | Υ                                      |
| Luxembourg     | TESSy          | National | 23  | (71.9)  | 23   | (100.0) | 1   | (4.3)  | 1                               | (4.3)  | Υ                                      |
| Malta          | TESSy          | National | 33  | (78.6)  | 31   | (93.9)  | 2   | (6.5)  | 0                               | (0.0)  | Υ                                      |
| Netherlands    | TESSy          | National | 542   | (68.9)  | 542  | (100.0) | 59  | (10.9) | 10                              | (1.8)  | Υ                                      |
| Norway         | TESSy          | National | 216   | (82.8)  | 213  | (98.6)  | 29  | (13.6) | 9                               | (4.2)  | Y                                      |
| Poland         | TESSy          | National | 4 179   | (72.2)  | 3 809  | (91.1)  | 260   | (6.8)  | 44                              | (1.2)  | Y                                      |
| Portugal       | TESSy          | National | 1 106   | (61.4)  | 738  | (66.7)  | 101   | (13.7) | 10                              | (1.4)  | Y                                      |
| Romania        | TESSy          | National | 9 194   | (70.7)  | 8 183  | (89.0)  | 710   | (8.7)  | 361                             | (4.4)  | Y                                      |
| Slovakia       | TESSy          | National | 134   | (53.8)  | 134  | (100.0) | 13  | (9.7)  | 6                               | (4.5)  | Y                                      |
| Slovenia       | TESSy          | National | 109   | (97.3)  | 109  | (100.0) | 2   | (1.8)  | 1                               | (0.9)  | Ϋ́                                     |
| Spain          | TESSy          | National | 3 216   | (70.4)  | 969  | (30.1)  | 109   | (11.2) | 19                              | (2.0)  | Y                                      |
| Sweden         | TESSy          | National | 424   | (81.5)  | 422  | (99.5)  | 50  | (11.8) | 11                              | (2.6)  | Y                                      |
| United Kingdom | TESSy          | National | 3 478   | (62.5)  | 3 400  | (97.8)  | 293   | (8.6)  | 47                              | (1.4)  | Y                                      |
| Total EU/EEA   | 12339          | Hationat | 32 266  | (69.7)  | 27 339   | (84.7)  | 2 985   | (10.9) | 1 041                           | (3.8)  |  |

Wate: WHO European Region TB HPCs are presented in italics.
HPCs = high-priority countries.
TESSy = The European Surveillance System.
DST = drug-susceptibility testing.
NH = isoniazid.
RIF = rifampicin.

\* Laboratory-confirmed cases − culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases.

b Cases with DST results for at least RIF and INH that have any resistance to isoniazid, rifampicin, ethambutol, streptomycin, ciprofloxacin, gatifloxacin, levofloxacin, moxifloxacin, ofloxacin, amikacin, capreomycin, kanamycin or pyrazinamide expressed as a percentage of cases with DST results available for at least isoniazid and rifampicin.

c Data considered complete when collected nationwide or culture results available for ≥ 90% of all cases, and > 50% of all cases culture-positive, and > 75% of them with DST results for isoniazid and rifampicin, and ≥ 95% of the external quality assurance results confirmed by a supranational reference laboratory.

Table 14. XDR-TB cases among all laboratory-confirmed MDR-TB cases, European Region, 2017

| Country/area                         | TB cases with first-line DST <sup>b</sup> | MDR-TB among all T<br>with first-line D |        | MDR-TB with second | -line DST <sup>c</sup> | XDR-TB |         |  |
|--------------------------------------|---|---|--------|--------------------|------------------------|--------|---------|--|
| Country/area                         | N N                                       | N N                                     | (%)    | N                  | (%)                    | N      | (%)     |  |
| EU/EEA                               |   |   |        |                    |                        |        |         |  |
| Austria                              | 425                                       | 18                                      | (4.2)  | 18                 | (100.0)                | 3      | (16.7)  |  |
| Belgium                              | 729                                       | 5                                       | (0.7)  | 5                  | (100.0)                | 0      | (0.0)   |  |
| Bulgaria                             | 607                                       | 24                                      | (4.0)  | 23                 | (95.8)                 | 1      | (4.3)   |  |
| Croatia                              | 215                                       | 0                                       | (0.0)  | 0                  | -                      | 0      | -       |  |
| Cyprus                               | 39  | 1                                       | (2.6)  | 1                  | (100.0)                | 0      | (0.0)   |  |
| Czech Republic                       | 350                                       | 8                                       | (2.3)  | 8                  | (100.0)                | 2      | (25.0)  |  |
| Denmark                              | 214                                       | 2                                       | (0.9)  | 2                  | (100.0)                | 0      | (0.0)   |  |
| Estonia                              | 142                                       | 36                                      | (25.4) | 34                 | (94.4)                 | 9      | (26.5)  |  |
| Finland                              | 192                                       | 5                                       | (2.6)  | 5                  | (100.0)                | 1      | (20.0)  |  |
| France                               | _   | -                                       | -      | -                  | -                      | -      | _       |  |
| Germany                              | 3 555                                     | 105                                     | (3.0)  | 82                 | (78.1)                 | 4      | (4.9)   |  |
| Greece                               | 191                                       | 7                                       | (3.7)  | 7                  | (100.0)                | 2      | (28.6)  |  |
| Hungary                              | 318                                       | 11                                      | (3.5)  | 10                 | (90.9)                 | 4      | (40.0)  |  |
| Iceland                              | 10  | 0                                       | (0.0)  | 0                  | -                      | 0      | _       |  |
| Ireland                              | 196                                       | 5                                       | (2.6)  | 5                  | (100.0)                | 1      | (20.0)  |  |
| Italy                                | -   | _                                       | (2.0)  | _                  | -                      |        | (2010)  |  |
| Latvia                               | 434                                       | 46                                      | (10.6) | 46                 | (100.0)                | 18     | (39.1)  |  |
| Liechtenstein                        | 1   | 0                                       | (0.0)  | 0                  | (100.0)                | 0      | (37.1)  |  |
| Lithuania                            | 1 148                                     | 249                                     | (21.7) | 249                | (100.0)                | 87     | (34.9)  |  |
|                                      |   |   |        |                    |                        |        | (34.9)  |  |
| Luxembourg                           | 23  | 1                                       | (4.3)  | 0                  | (0.0)                  | 0      | _       |  |
| Malta                                | 31  | 0                                       | (0.0)  | 0                  | - (                    | 0      | - (2.2) |  |
| Netherlands                          | 542                                       | 10                                      | (1.8)  | 9                  | (90.0)                 | 0      | (0.0)   |  |
| Norway                               | 213                                       | 9                                       | (4.2)  | 9                  | (100.0)                | 0      | (0.0)   |  |
| Poland                               | 3 809                                     | 44                                      | (1.2)  | 35                 | (79.5)                 | 5      | (14.3)  |  |
| Portugal                             | 738                                       | 10                                      | (1.4)  | 7                  | (70.0)                 | 0      | (0.0)   |  |
| Romania                              | 8 183                                     | 361                                     | (4.4)  | 146                | (40.4)                 | 45     | (30.8)  |  |
| Slovakia                             | 134                                       | 6                                       | (4.5)  | 6                  | (100.0)                | 2      | (33.3)  |  |
| Slovenia                             | 109                                       | 1                                       | (0.9)  | 1                  | (100.0)                | 0      | (0.0)   |  |
| Spain                                | 969                                       | 19                                      | (2.0)  | 7                  | (36.8)                 | 0      | (0.0)   |  |
| Sweden                               | 422                                       | 11                                      | (2.6)  | 11                 | (100.0)                | 0      | (0.0)   |  |
| United Kingdom                       | 3 400                                     | 47                                      | (1.4)  | 44                 | (93.6)                 | 3      | (6.8)   |  |
| Subtotal EU/EEA                      | 27 339                                    | 1 041                                   | (3.8)  | 770                | (74.0)                 | 187    | (24.3)  |  |
| Non-EU/EEA                           |   |   |        |                    |                        |        |         |  |
| Albania                              | 79  | 0                                       | (0.0)  | 0                  | (0.0)                  | 0      | (0.0)   |  |
| Andorra                              | 1   | 0                                       | (0.0)  | 0                  | (0.0)                  | 0      | (0.0)   |  |
| Armenia                              | 631                                       | 101                                     | (16.0) | 101                | (100.0)                | 15     | (14.9)  |  |
| Azerbaijan                           | 4 908                                     | 665                                     | (13.5) | 614                | (92.3)                 | 118    | (0.0)   |  |
| Belarus                              | 2 452                                     | 1 088                                   | (44.4) | 1 088              | (100.0)                | 525    | (48.3)  |  |
|                                      | 431                                       | 0                                       | (0.0)  | 0                  | (0.0)                  | 0      | (0.0)   |  |
| Bosnia and Herzegovina               |   |   |        |                    | (100.0)                |        |         |  |
| Georgia                              | 2 111                                     | 273                                     | (12.9) | 273                | (                      | 49     | (17.9)  |  |
| Israel                               | 171                                       | 8                                       | (4.7)  | 8                  | (100.0)                | 1      | (12.5)  |  |
| Kazakhstan                           | 10 946                                    | 1 663                                   | (15.2) | 0                  | (0.0)                  | 340    | (0.0)   |  |
| Kyrgyzstan                           | 3 757                                     | 926                                     | (24.6) | 705                | (76.1)                 | 134    | (19.0)  |  |
| Monaco                               | 0   | 0                                       | -      | 0                  | -                      | 0      | (0.0)   |  |
| Montenegro                           | 59  | 1                                       | (1.7)  | 1                  | (100.0)                | 1      | (100.0) |  |
| North Macedonia                      | 155                                       | 1                                       | (0.6)  | 0                  | (0.0)                  | 0      | (0.0)   |  |
| Republic of Moldova                  | 2 216                                     | 699                                     | (31.5) | 635                | (90.8)                 | 59     | (9.3)   |  |
| Russian Federation                   | 55 344                                    | 23 472                                  | (42.4) | 23 098             | (98.4)                 | 3 661  | (15.8)  |  |
| San Marino                           | 0   | 0                                       | -      | 0                  | -                      | 0      | (0.0)   |  |
| Serbia                               | 653                                       | 6                                       | (0.9)  | 0                  | (0.0)                  | 0      | (0.0)   |  |
| Serbia excluding Kosovo <sup>d</sup> | 378                                       | 5                                       | (1.3)  | 0                  | (0.0)                  | 0      | (0.0)   |  |
| Kosovo <sup>d</sup>                  | 275                                       | 1                                       | (0.4)  | 0                  | (0.0)                  | 0      | (0.0)   |  |
| Switzerland                          | 0.0                                       | -                                       | (317)  | _                  | -                      | -      | (0.0)   |  |
| Tajikistan                           | 3 084                                     | 643                                     | (20.8) | 515                | (80.1)                 | 279    | (54.2)  |  |
| Turkey                               | 5 916                                     | 191                                     | (3.2)  | 124                | (64.9)                 | 2/9    | (1.6)   |  |
| ,                                    |   |   | (3.2)  |                    | (04.9)                 |        |         |  |
| Turkmenistan                         | 1 085                                     | 343                                     | (25.1) | 0                  | (100.0)                | 6      | (0.0)   |  |
| Ukraine                              | 19 937                                    | 5 058                                   | (25.4) | 5 058              | (100.0)                | 1 097  | (21.7)  |  |
| Uzbekistan                           | 13 855                                    | 540                                     | (3.9)  | 540                | (100.0)                | 285    | (52.8)  |  |
| Subtotal non-EU/EEA                  | 127 791                                   | 35 678                                  | (27.9) | 32 760             | (91.8)                 | 6 572  | (18.5)  |  |
| Total European Region                | 155 130                                   | 36 719                                  | (23.7) | 33 530             | (91.3)                 | 6 759  | (18.6)  |  |
| Subtotal 18 HPCs                     | 136 756                                   | 36 378                                  | (26.6) | 33 249             | (91.4)                 | 6 730  | (17.6)  |  |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics.

DST = drug susceptibility testing.

HPCs = high-priority countries.

MDR-TB = multidrug-resistant tuberculosis.

XDR-TB = extensively drug-resistant tuberculosis.

XDR-TB = extensively drug-resistant tuberculosis.

Bacteriologically-confirmed cases - cases with positive identification for M. tuberculosis complex confirmed by culture and/or line probe assay for non-EU countries and areas, culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases for EU/EEA countries.

First-line DST - drug susceptibility tested for at least two main first-line anti-TB drugs: isoniazid and rifampicin.

Second-line DST - drug susceptibility testing for second-line anti-TB drugs (at least one fluoroquinolone (ciprofloxacin, gatifloxacin, levofloxacin, moxifloxacin and ofloxacin) and one injectable drug (amikacin, capreomycin and kanamycin)).

d (In accordance with Security Council Resolution 1244 (1999)).

Table 15. RR/MDR- and XDR-TB cases enrolled to treatment, European Region, 2017

| Country/area                         | Total number of<br>RR/MDR-TB cases<br>detected | RR/MDR-TB cases<br>treatme |           | Total number of<br>XDR-TB cases<br>detected | XDR-TB cases enrolled on treatment <sup>ab</sup> |         |  |
|--------------------------------------|--|----------------------------|-----------|---|--|---------|--|
|                                      | N  | N                          | (%)       | N   | N  | (%      |  |
| EU/EEA                               |  |                            |           |   |  |         |  |
| Austria                              | 19   | 19                         | (100.0)   | 3   | 3  | (100.0  |  |
| Belgium                              | 8  | 8                          | (100.0)   | 0   | 0  | -       |  |
| Bulgaria                             | 29   | 29                         | (100.0)   | 1   | 1  | (100.0  |  |
| Croatia                              | 0  | 0                          | -         | 0   | 0  | -       |  |
| Cyprus                               | 1  | 1                          | (100.0)   | 0   | 0  | _       |  |
| Czech Republic                       | 8  | 8                          | (100.0)   | 2   | 2  | (100.0  |  |
| Denmark                              | 2  | 2                          | (100.0)   | 0   | 0  | (10010, |  |
| Estonia                              | 37   | 35                         | (94.6)    | 9   | 9  | (100.0) |  |
|                                      |  |                            |           |   |  |         |  |
| Finland                              | 6  | 5                          | (83.3)    | 1   | 0  | (0.0)   |  |
| France                               | -  | -                          | (2.4.4)   | -   | -  | - (     |  |
| Germany                              | 119  | 115                        | (96.6)    | 4   | 4  | (100.0) |  |
| Greece                               | 9  | 9                          | (100.0)   | 2   | 2  | (100.0) |  |
| Hungary                              | 13   | 13                         | (100.0)   | 4   | 4  | (100.0) |  |
| Iceland                              | 0  | 0                          | -         | 0   | 0  | -       |  |
| Ireland                              | 6  | 6                          | (100.0)   | 1   | 1  | (100.0) |  |
| Italy                                | 88   | -                          | -         | -   | -  | -       |  |
| Latvia                               | 48   | 48                         | (100.0)   | 18  | 18   | (100.0) |  |
| Liechtenstein                        | 0  | 0                          | -         | 0   | 0  | (.00.0) |  |
| Lithuania                            | 264  | 264                        | (100.0)   | 87  | 87   | (100.0) |  |
|                                      |  | 1                          | (100.0)   | 0   | 0  | (100.0) |  |
| Luxembourg                           | 1  |                            | (100.0)   |   |  | _       |  |
| Malta                                | 0  | 0                          | - (*** *) | 0   | 0  | -       |  |
| Netherlands                          | 11   | 11                         | (100.0)   | 0   | 0  | -       |  |
| Norway                               | 9  | 9                          | (100.0)   | 0   | 0  | -       |  |
| Poland                               | 52   | 52                         | (100.0)   | 5   | 5  | (100.0) |  |
| Portugal                             | 10   | 10                         | (100.0)   | 0   | 0  | -       |  |
| Romania                              | 456  | 448                        | (98.2)    | 45  | 42   | (93.3)  |  |
| Slovakia                             | 7  | 7                          | (100.0)   | 2   | 2  | (100.0) |  |
| Slovenia                             | 1  | 1                          | (100.0)   | 0   | 0  | _       |  |
| Spain                                | 23   | 23                         | (100.0)   | 0   | 0  | _       |  |
| Sweden                               | 12   | 12                         | (100.0)   | 0   | 0  | _       |  |
| United Kingdom                       | 55   | 51                         | (92.7)    | 3   | 3  | (100.0) |  |
|                                      | 1294   |                            |           | 187   | 183  |         |  |
| Subtotal EU/EEA                      | 1 2 9 4  | 1 187                      | (91.7)    | 18/   | 183  | (97.9)  |  |
| Non-EU/EEA                           |  |                            | (0.0)     | •   |  |         |  |
| Albania                              | 4  | 0                          | (0.0)     | 0   | 0  | -       |  |
| Andorra                              | 0  | 0                          | _         | 0   | 0  |         |  |
| Armenia                              | 104  | 104                        | (100.0)   | 15  | 15   | (100.0) |  |
| Azerbaijan                           | 1 007  | 858                        | (85.2)    | 118   | 182  | (154.2) |  |
| Belarus                              | 1 117  | 1 071                      | (95.9)    | 525   | 405  | (77.1)  |  |
| Bosnia and Herzegovina               | 0  | 0                          | -         | 0   | 0  | -       |  |
| Georgia                              | 339  | 316                        | (93.2)    | 49  | 47   | (95.9)  |  |
| Israel                               | 8  | 8                          | (100.0)   | 1   | 1  | (100.0) |  |
| Kazakhstan                           | 4 626  | 4 626                      | (100.0)   | 340   | 300  | (88.2)  |  |
|                                      |  |                            |           |   |  |         |  |
| Kyrgyzstan                           | 1 372  | 1 166                      | (85.0)    | 134   | 157  | (117.2) |  |
| Monaco                               | 0  | 0                          | -         | 0   | 0  | -       |  |
| Montenegro                           | 1  | 0                          | (0.0)     | 1   | 1  | (100.0) |  |
| North Macedonia                      | 1  | 1                          | (100.0)   | 0   | 0  | -       |  |
| Republic of Moldova                  | 853  | 962                        | (112.8)   | 59  | 62   | (105.1) |  |
| Russian Federation                   | 26 602   | 22 120                     | (83.2)    | 3 661                                       | 2 770  | (75.7)  |  |
| San Marino                           | 0  | 0                          | _         | 0   | 0  | -       |  |
| Serbia                               | 9  | 10                         | (111.1)   | 0   | 0  | _       |  |
| Serbia excluding Kosovo <sup>c</sup> | 5  | 6                          | (120.0)   | 0   | 0  |         |  |
| Kosovo <sup>c</sup>                  | 4  | 4                          | (100.0)   | 0   | 0  |         |  |
| Switzerland                          | 0  | 0                          | (100.0)   | 0   | 0  |         |  |
|                                      |  |                            | (50.2)    |   |  | (00.7)  |  |
| Tajikistan                           | 936  | 546                        | (58.3)    | 279   | 250  | (89.6)  |  |
| Turkey                               | 252  | 202                        | (80.2)    | 2   | 2  | (100.0) |  |
| Turkmenistan                         | 343  | 343                        | (100.0)   | 6   | 6  | (100.0) |  |
| Ukraine                              | 6 564  | 8 067                      | (122.9)   | 1 097                                       | 1 346  | (122.7) |  |
| Uzbekistan                           | 2 265  | 2 265                      | (100.0)   | 285   | 258  | (90.5)  |  |
| Subtotal non-EU/EEA                  | 46 403   | 42 665                     | (91.9)    | 6 572                                       | 5 802  | (88.3)  |  |
| Total European Region                | 47 697   | 43 852                     | (91.9)    | 6 759                                       | 5 985  | (88.5)  |  |
|                                      |  |                            | (*//      | - 137                                       |  | (-313)  |  |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in Italics.

HPCs = high-priority countries.

RR/MDR-TB = rifampicin-resitant and multidrug-resistant tuberculosis.

XDR-TB = extensively drug-resistant tuberculosis.

For countries/areas that do not provide information on treatment start, all reported cases are used as proxy.

For some non-EU/EEA countries and areas, patients who were diagnosed before 2017 but started on treatment in 2017 are included, resulting in over 100% coverage.

(In accordance with Security Council Resolution 1244 (1999)).

Table 16. New and relapse TB cases with HIV infection, European Region, 2017

| Country/area                         | New and relapse<br>cases <sup>b</sup> | TB cases with known | HIV-status | HIV-positive TB o | ases   | HIV-positive cases st | arted ART |
|--------------------------------------|---------------------------------------|---------------------|------------|-------------------|--------|-----------------------|-----------|
| Country/area                         | Cases*                                | N                   | (%)        | N                 | (%)    | N N                   | (%)       |
| EU/EEA                               |                                       |                     |            |                   |        |                       |           |
| Austria                              | -                                     | -                   | -          | -                 | -      | -                     | -         |
| Belgium <sup>d</sup>                 | 916                                   | 485                 | (52.9)     | 39                | (8.0)  | -                     | -         |
| Bulgaria                             | 1 408                                 | 1 158               | (82.2)     | 3                 | (0.3)  | 3                     | (100.0)   |
| Croatia                              | 364                                   | 4                   | (1.1)      | 1                 | (25.0) | -                     | -         |
| Cyprus                               | 52                                    | 48                  | (92.3)     | 0                 | (0.0)  | 0                     | -         |
| Czech Republic                       | 499                                   | 194                 | (38.9)     | 8                 | (4.1)  | -                     | -         |
| Denmark <sup>d</sup>                 | 253                                   | 194                 | (76.7)     | 3                 | (1.5)  | -                     | -         |
| Estonia                              | 171                                   | 159                 | (93.0)     | 13                | (8.2)  | 12                    | (92.3)    |
| Finland                              | -                                     | -                   | -          | -                 | -      | -                     | -         |
| France                               | -                                     | -                   | -          | -                 | -      | -                     | _         |
| Germany                              | -                                     | -                   | -          | -                 | -      | -                     | -         |
| Greece                               | 434                                   | 362                 | (83.4)     | 12                | (3.3)  | -                     | -         |
| Hungary                              | 650                                   | 18                  | (2.8)      | 1                 | (5.6)  | _                     | _         |
| Iceland                              | 13                                    | 12                  | (92.3)     | 0                 | (0.0)  | -                     | -         |
| Ireland <sup>d</sup>                 | 301                                   | 97                  | (32.2)     | 14                | (14.4) | 7                     | (50.0)    |
| Italy                                | -                                     | -                   | -          | -                 | (1414) | -                     | (50.0)    |
| Latvia                               | 543                                   | 463                 | (85.3)     | 50                | (10.8) | 35                    | (70.0)    |
| Liechtenstein                        | )43<br>-                              | 403                 | (0).3)     | -                 | (10.6) | -                     | (/0.0)    |
| Lithuania                            | 1268                                  | 1 008               | (79.5)     | 35                | (3.5)  | -                     |           |
|                                      |                                       |                     |            |                   |        |                       | _         |
| Luxembourg                           | 32                                    | 3                   | (9.4)      | 1                 | (33.3) | -                     | _         |
| Malta                                | 42                                    | 37                  | (88.1)     | 0                 | (0.0)  | 0                     | (== 4)    |
| Netherlands                          | 776                                   | 519                 | (66.9)     | 22                | (4.2)  | 13                    | (59.1)    |
| Norway <sup>d</sup>                  | 237                                   | 206                 | (86.9)     | 6                 | (2.9)  | -                     | -         |
| Poland                               | -                                     | -                   | -          | -                 | -      | -                     | -         |
| Portugal                             | 1760                                  | 1 152               | (65.5)     | 126               | (10.9) | -                     | -         |
| Romania                              | 12 310                                | 10 156              | (82.5)     | 214               | (2.1)  | 173                   | (80.8)    |
| Slovakia                             | 228                                   | 208                 | (91.2)     | 0                 | (0.0)  | 0                     | -         |
| Slovenia                             | 112                                   | 77                  | (68.8)     | 0                 | (0.0)  | -                     | -         |
| Spain                                | 4 379                                 | 3 259               | (74.4)     | 242               | (7.4)  | -                     | -         |
| Sweden                               | -                                     | -                   | -          | -                 | -      | -                     | -         |
| United Kingdom <sup>d</sup>          | 5 248                                 | 4 410               | (84.0)     | 128               | (2.9)  | 115                   | (89.8)    |
| Subtotal EU/EEA                      | 31 996                                | 24 229              | (75.7)     | 918               | (3.8)  | 358                   | (80.6)    |
| Non-EU/EEA                           |                                       |                     |            |                   |        |                       |           |
| Albania                              | 503                                   | 235                 | (46.7)     | 4                 | (1.7)  | 4                     | (100.0)   |
| Andorra                              | 1                                     | 0                   | (0.0)      | 0                 | -      | 0                     | _         |
| Armenia                              | 841                                   | 838                 | (99.6)     | 66                | (7.9)  | 53                    | (80.3)    |
| Azerbaijan                           | 5 231                                 | 5 889               | (112.6)    | 95                | (1.6)  | 79                    | (83.2)    |
| Belarus                              | 2 781                                 | 2 781               | (100.0)    | 202               | (7.3)  | 155                   | (76.7)    |
| Bosnia and Herzegovina               | 766                                   | 18                  | (2.3)      | 0                 | (0.0)  | 0                     | (/0.//    |
| Georgia                              | 2 597                                 | 2 442               | (94.0)     | 43                | (1.8)  | 43                    | (100.0)   |
| Israel                               | 234                                   | 234                 | (100.0)    | 12                | (5.1)  | 10                    | (83.3)    |
| Kazakhstan                           |                                       |                     | ( ,        |                   |        |                       |           |
|                                      | 12 449                                | 11 056              | (88.8)     | 443               | (4.0)  | 417                   | (94.1)    |
| Kyrgyzstan                           | 6 687                                 | 5 966               | (89.2)     | 216               | (3.6)  | 160                   | (74.1)    |
| Monaco                               | -                                     | -                   | - (- : -)  | -                 | - ()   | -                     | _         |
| Montenegro                           | 75                                    | 63                  | (84.0)     | 0                 | (0.0)  | 0                     | -         |
| North Macedonia                      | 216                                   | 178                 | (82.4)     | 0                 | (0.0)  | 0                     | -         |
| Republic of Moldova                  | 3 358                                 | 3 352               | (99.8)     | 277               | (8.3)  | 190                   | (68.6)    |
| Russian Federation <sup>e</sup>      | 84 510                                | 81 443              | (96.4)     | 15 695            | (19.3) | 9 748                 | (62.1)    |
| San Marino                           | 0                                     | 0                   | -          | 0                 | -      | 0                     | -         |
| Serbia                               | 1 450                                 | 372                 | (25.7)     | 8                 | (2.2)  | 8                     | (100.0)   |
| Serbia excluding Kosovo <sup>f</sup> | 738                                   | 71                  | (9.6)      | 8                 | (11.3) | 8                     | (100.0)   |
| Kosovo <sup>f</sup>                  | 712                                   | 301                 | (42.3)     | 0                 | (0.0)  | 0                     | _         |
| Switzerland                          | -                                     | -                   | -          | -                 | -      | -                     | -         |
| Tajikistan                           | 5 895                                 | 5 937               | (100.7)    | 219               | (3.7)  | 117                   | (53.4)    |
| Turkey                               | 11 821                                | 8 423               | (71.3)     | 65                | (0.8)  | 51                    | (78.5)    |
| Turkmenistan                         | -                                     | -                   | _          | -                 | -      | -                     | (, -15)   |
| Ukraine                              | 27 229                                | 26 623              | (97.8)     | 5 955             | (22.4) | 4 426                 | (74.3)    |
| Uzbekistan <sup>g</sup>              | 16 842                                | 16 842              | (100.0)    | 935               | (5.6)  | 935                   | (100.0)   |
| Subtotal non-EU/EEA                  | 183 486                               | 172 692             | (94.1)     | 24 235            | (14.0) | 16 396                | (67.7)    |
| Total European Region                | 215 482                               | 196 921             | (94.1)     | 25 153            | (12.8) | 16 754                | (66.6)    |
|                                      |                                       |                     |            |                   |        |                       | 100.01    |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics.

ART = antiretroviral therapy.

HIV = human immunodeficiency virus.

HPCs = high-priority countries.

Cases with unknown previous TB history are included among new TB cases.

Countries/areas are only included in this analysis if the total number of cases tested for HIV and test results are provided. For EU/EEA countries, countries are only included in this analysis if the total number of cases tested for HIV is more than zero.

Data from WHO global TB database. Percentages calculated for countries that reported data on ART.

Previous TB history is defined by previous diagnosis.

The Russian Federation reported data on new TB cases in the civilian population only.

(In accordance with Security Council Resolution 1244 (1999)).

Table 16a. All TB cases with HIV infection, EU/EEA, 2017

| Country        | All TB cases <sup>a</sup> | TB cases with k | nown HIV status | HIV-positiv | e TB cases |
|----------------|---------------------------|-----------------|-----------------|-------------|------------|
| Country        | N                         | N               | (%)             | N           | (%)        |
| EU/EEA         |                           |                 |                 |             |            |
| Austria        | -                         | -               | -               | -           | -          |
| Belgium        | 972                       | 517             | (53.2)          | 43          | (8.3)      |
| Bulgaria       | 1 463                     | 1 204           | (82.3)          | 3           | (0.2)      |
| Croatia        | 371                       | 4               | (1.1)           | 1           | (25.0)     |
| Cyprus         | 53                        | 49              | (92.5)          | 0           | (0.0)      |
| Czech Republic | 505                       | 197             | (39.0)          | 8           | (4.1)      |
| Denmark        | 275                       | 211             | (76.7)          | 3           | (1.4)      |
| Estonia        | 175                       | 163             | (93.1)          | 14          | (8.6)      |
| Finland        | -                         | -               | -               | -           | -          |
| France         | -                         | -               | -               | -           | -          |
| Germany        | -                         | -               | -               | -           | -          |
| Greece         | 467                       | 389             | (83.3)          | 13          | (3.3)      |
| Hungary        | 685                       | 18              | (2.6)           | 1           | (5.6)      |
| Iceland        | 14                        | 13              | (92.9)          | 0           | (0.0)      |
| Ireland        | 318                       | 102             | (32.1)          | 14          | (13.7)     |
| Italy          | -                         | -               | _               | -           | -          |
| Latvia         | 552                       | 471             | (85.3)          | 52          | (11.0)     |
| Liechtenstein  | -                         | -               | -               | _           | -          |
| Lithuania      | 1 387                     | 1 125           | (81.1)          | 42          | (3.7)      |
| Luxembourg     | 32                        | 3               | (9.4)           | 1           | (33.3)     |
| Malta          | 42                        | 37              | (88.1)          | 0           | (0.0)      |
| Netherlands    | 787                       | 526             | (66.8)          | 22          | (4.2)      |
| Norway         | 261                       | 228             | (87.4)          | 7           | (3.1)      |
| Poland         | -                         | -               | -               | -           | -          |
| Portugal       | 1800                      | 1 183           | (65.7)          | 135         | (11.4)     |
| Romania        | 13 004                    | 10 760          | (82.7)          | 232         | (2.2)      |
| Slovakia       | 249                       | 227             | (91.2)          | 0           | (0.0)      |
| Slovenia       | 112                       | 77              | (68.8)          | 0           | (0.0)      |
| Spain          | 4 570                     | 3 408           | (74.6)          | 277         | (8.1)      |
| Sweden         | -                         | -               | -               | -           | -          |
| United Kingdom | 5 567                     | 4 671           | (83.9)          | 138         | (3.0)      |
| Total EU/EEA   | 33 661                    | 25 583          | (76.0)          | 1 006       | (3.9)      |

Note: WHO European Region TB HPCs are presented in italics.
HIV = human immunodeficiency virus.
HPCs = high-priority countries.
\* Countries are only included in this analysis if the total number of cases tested for HIV is more than zero.

Table 17. TB in prisons, European Region, 2017<sup>a</sup>

|                                      | Prison population | New and relapsed 1<br>notified i |   | Proportion of new and relapsed TB cases    | TB relative risk in |
|--------------------------------------|-------------------|----------------------------------|---|--|---------------------|
| Country/area                         | N                 | N                                | Rate per 100 000 prisoners              | in prisons out of the<br>country total (%) | prisons             |
| EU/EEA                               |                   |                                  | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |  |                     |
| Austria                              | _                 | -                                | -                                       | -  | -                   |
| Belgium                              | 10 619            | 20                               | 188                                     | (2.2)                                      | 23.3                |
| Bulgaria                             | 7 2 6 2           | 16                               | 220                                     | (1.1)                                      | 11.1                |
| Croatia                              | _                 | _                                | _                                       | _  | _                   |
| Cyprus                               | _                 | _                                | _                                       | _  | _                   |
| Czech Republic                       | 22 159            | 25                               | 113                                     | (5.0)                                      | 23.9                |
| Denmark                              |                   | -                                | -                                       | -  |                     |
| Estonia                              | 2 800             | 3                                | 107                                     | (1.8)                                      | 8.2                 |
| Finland                              | _                 | _                                | -                                       | (1.0)                                      | -                   |
| France                               | 68 311            | 65                               | 95                                      | (1.3)                                      | 13.2                |
| Germany                              | -                 | -                                | -                                       | (1.5)                                      | 15.2                |
| Greece                               | _                 | _                                | -                                       | _  | _                   |
| Hungary                              | _                 | -                                | _                                       | -  | _                   |
| Iceland                              | _                 | _                                | _                                       | _  | _                   |
| Ireland                              |                   | 0                                | 0                                       | (0.0)                                      | 0.0                 |
|                                      | 7 484             |                                  |   | (0.0)                                      | 0.0                 |
| Italy                                |                   | -                                | -                                       | (2.0)                                      | -                   |
| Latvia                               | 3 765             | 21                               | 558                                     | (3.9)                                      | 20.0                |
| Liechtenstein                        | -                 | -                                | -                                       | -  | _                   |
| Lithuania                            | 6 599             | 54                               | 818                                     | (4.3)                                      | 18.4                |
| Luxembourg                           | 700               | 0                                | 0                                       | (0.0)                                      | 0.0                 |
| Malta                                | -                 | -                                | -                                       |  | -                   |
| Netherlands                          | 27 951            | 19                               | 68                                      | (2.4)                                      | 15.0                |
| Norway                               | -                 | -                                | -                                       | -  | -                   |
| Poland                               | 73 807            | 170                              | 230                                     | (3.1)                                      | 15.8                |
| Portugal                             | 13 465            | 32                               | 238                                     | (1.8)                                      | 13.9                |
| Romania                              | 22 532            | 105                              | 466                                     | (0.9)                                      | 7.4                 |
| Slovakia                             | 8 211             | 18                               | 219                                     | (7.9)                                      | 52.3                |
| Slovenia                             | _                 | -                                | -                                       | _  | _                   |
| Spain                                | -                 | -                                | -                                       | -  | -                   |
| Sweden                               | _                 | -                                | -                                       | -  | _                   |
| United Kingdom                       | 92 500            | 22                               | 24                                      | (0.4)                                      | 3.0                 |
| Subtotal EU/EEA                      | 368 165           | 570                              | 155                                     | (1.6)                                      | 11.4                |
| Non-EU/EEA                           |                   |                                  |   | , , , ,                                    |                     |
| Albania                              | 6 000             | 8                                | 133.3                                   | (1.6)                                      | 7.8                 |
| Andorra                              | 0                 | 0                                | 0.0                                     | (0.0)                                      | _                   |
| Armenia                              | 3 536             | 16                               | 452.5                                   | (1.9)                                      | 15.8                |
| Azerbaijan                           | 20 213            | 256                              | 1 266.5                                 | (4.9)                                      | 23.8                |
| Belarus                              | 32 500            | 97                               | 298.5                                   | (3.5)                                      | 10.2                |
| Bosnia and Herzegovina               | 0                 | 0                                | 0.0                                     | (0.0)                                      | 10.2                |
| Georgia                              | 9 280             | 58                               | 625.0                                   | (2.2)                                      | 9.4                 |
|                                      |                   |                                  |   |  | 9.4                 |
| Israel                               | 0                 | 0                                | 0.0                                     | (0.0)                                      | 4/4                 |
| Kazakhstan                           | 35 000            | 386                              | 1102.9                                  | (3.1)                                      | 16.1                |
| Kyrgyzstan                           | 8 889             | 199                              | 2 238.7                                 | (3.0)                                      | 20.2                |
| Monaco                               | 0                 | 0                                | 0.0                                     | (0.0)                                      | -                   |
| Montenegro                           | 0                 | 0                                | 0.0                                     | -  | -                   |
| North Macedonia                      | 3 087             | 10                               | 323.9                                   | (4.6)                                      | 31.2                |
| Republic of Moldova                  | 7 762             | 99                               | 1 275.4                                 | (2.9)                                      | 15.4                |
| Russian Federation                   | 611 266           | 8 166                            | 1 335.9                                 | (9.7)                                      | 22.8                |
| San Marino                           | 0                 | 0                                | 0.0                                     | (0.0)                                      | -                   |
| Serbia                               | 30 000            | 8                                | 26.7                                    | (0.6)                                      | 1.6                 |
| Serbia excluding Kosovo <sup>c</sup> | 30 000            | 8                                | 26.7                                    | (0.6)                                      | 1.6                 |
| Kosovo <sup>c</sup>                  | 0                 | 0                                | 0.0                                     | (0.0)                                      | _                   |
| Switzerland                          | 0                 | 0                                | 0.0                                     | -  | -                   |
| Tajikistan                           | 13 500            | 101                              | 748.1                                   | (1.7)                                      | 11.3                |
| Turkey                               | 232 182           | 125                              | 53.8                                    | (1.1)                                      | 3.7                 |
| Turkmenistan                         | 0                 | 0                                | 0.0                                     | (0.0)                                      | _                   |
| Ukraine                              | 60 876            | 744                              | 1 222.2                                 | (2.7)                                      | 19.8                |
| Uzbekistan                           | 0                 | 0                                | -                                       | _  | -                   |
| Subtotal non-EU/EEA                  | 1 074 091         | 10 273                           | 956                                     | (6.1)                                      | 23.0                |
| Total European Region                | 1 442 256         | 10 843                           | 752                                     | (5.3)                                      | 14.9                |
| TOTAL PRIOREGII NESIVII              | 1 772 230         | 10 446                           | 969                                     | (5.8)                                      | 19.8                |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in Italics.

HPCs = high-priority countries.

Data from the WHO Global TB database.

In the calculation of summary results, only countries/areas reporting data on prison population and TB notification in prisons are included.

(In accordance with Security Council Resolution 1244 (1999)).

Table 18. Treatment outcome of all TB cases notified in 2016, European Region, 2017

| Country/area                         | TB cases<br>notified in | Succ    | ess     | Died   | ı      | Faile | d     | Lost to fol | low-up <sup>a</sup> | Still on tre | atment | Not evalu | ıated <sup>b</sup> |
|--------------------------------------|-------------------------|---------|---------|--------|--------|-------|-------|-------------|---------------------|--------------|--------|-----------|--------------------|
| Country/area                         | 2016                    | N       | (%)     | N      | (%)    | N     | (%)   | N           | (%)                 | N            | (%)    | N         | (%)                |
| EU/EEA                               |                         |         |         |        |        |       |       |             |                     |              |        |           |                    |
| Austria                              | 634                     | 461     | (72.7)  | 44     | (6.9)  | 0     | (0.0) | 11          | (1.7)               | 68           | (10.7) | 50        | (7.9)              |
| Belgium                              | 1 0 4 2                 | 844     | (81.0)  | 63     | (6.0)  | 0     | (0.0) | 70          | (6.7)               | 32           | (3.1)  | 33        | (3.2)              |
| Bulgaria                             | 1 603                   | 1 3 4 5 | (83.9)  | 136    | (8.5)  | 20    | (1.2) | 90          | (5.6)               | 12           | (0.7)  | 0         | (0.0)              |
| Croatia                              | 464                     | 269     | (58.0)  | 72     | (15.5) | 1     | (0.2) | 22          | (4.7)               | 18           | (3.9)  | 82        | (17.7)             |
| Cyprus                               | 60                      | 39      | (65.0)  | 0      | (0.0)  | 0     | (0.0) | 1           | (1.7)               | 0            | (0.0)  | 20        | (33.3)             |
| Czech Republic                       | 516                     | 348     | (67.4)  | 86     | (16.7) | 1     | (0.2) | 56          | (10.9)              | 10           | (1.9)  | 15        | (2.9)              |
| Denmark                              | 330                     | 129     | (39.1)  | 5      | (1.5)  | 9     | (2.7) | 1           | (0.3)               | 8            | (2.4)  | 178       | (53.9)             |
| Estonia                              | 193                     | 135     | (69.9)  | 30     | (15.5) | 5     | (2.6) | 2           | (1.0)               | 18           | (9.3)  | 3         | (1.6)              |
| Finland                              | 233                     | 73      | (31.3)  | 0      | (0.0)  | 0     | (0.0) | 5           | (2.1)               | 5            | (2.1)  | 150       | (64.4)             |
| France                               | 4 9 0 7                 | 2 629   | (53.6)  | 187    | (3.8)  | 0     | (0.0) | 338         | (6.9)               | 89           | (1.8)  | 1664      | (33.9)             |
| Germany                              | 5 949                   | 4 067   | (68.4)  | 342    | (5.7)  | 2     | (0.0) | 153         | (2.6)               | 243          | (4.1)  | 1142      | (19.2)             |
| Greece                               | -                       | -       | -       | -      | -      | -     | _     | -           | _                   | -            | -      | -         | _                  |
| Hungary                              | 786                     | 544     | (69.2)  | 88     | (11.2) | 19    | (2.4) | 70          | (8.9)               | 42           | (5.3)  | 23        | (2.9)              |
| Iceland                              | 6                       | 5       | (83.3)  | 0      | (0.0)  | 0     | (0.0) | 0           | (0.0)               | 0            | (0.0)  | 1         | (16.7)             |
| Ireland                              | 315                     | 110     | (34.9)  | 18     | (5.7)  | 0     | (0.0) | 4           | (1.3)               | 11           | (3.5)  | 172       | (54.6)             |
| Italy                                | -                       | -       | (54.7)  | -      | (5.7)  | _     | (0.0) | -           | (1.5)               | -            | (3.3)  | -         | (3 ,.0)            |
| Latvia                               | 660                     | 512     | (77.6)  | 64     | (9.7)  | 1     | (0.2) | 34          | (5.2)               | 45           | (6.8)  | 4         | (0.6)              |
| Liechtenstein                        | 2                       | 2       | (100.0) | 0      | (0.0)  | 0     | (0.0) | 0           | (0.0)               | 0            | (0.0)  | 0         | (0.0)              |
| Lithuania                            | 1 442                   | 992     | (68.8)  | 163    | (11.3) | 14    | (1.0) | 97          | (6.7)               | 170          | (11.8) | 6         | (0.4)              |
| Luxembourg                           | 1 442                   | -       | (00.0)  | -      | (11.3) | -     | (1.0) | -           | (0.7)               | -            | (11.0) | -         | (0.4)              |
| Malta                                | _                       | -       | -       | -      | -      | -     | _     | _           | _                   | -            | _      | -         | _                  |
| Netherlands                          | 887                     | 753     | (84.9)  | 32     | (3.6)  | 0     | (0.0) | 38          | (4.3)               | 17           | (1.9)  | 47        | (5.3)              |
| Norway                               | 295                     | 249     | (84.4)  | 4      | (1.4)  | 3     | (1.0) | 13          | (4.4)               | 11           | (3.7)  | 15        | (5.1)              |
| Poland                               | 6 444                   | 3 432   | (53.3)  | 618    | (9.6)  | 4     | (0.1) | 394         | (6.1)               | 25           | (0.4)  | 1971      | (30.6)             |
| Portugal                             | 1936                    | 1347    | (69.6)  | 134    | (6.9)  | 0     | (0.0) | 66          | (3.4)               | 325          | (16.8) | 64        | (3.3)              |
| Romania                              | 13 601                  | 11 056  | (81.3)  | 1 169  | (8.6)  | 375   | (2.8) | 724         | (5.3)               | 256          | (1.9)  | 21        | (0.2)              |
| Slovakia                             | 296                     | 252     | (85.1)  | 31     | (10.5) | 0     | (0.0) | 3           | (1.0)               | 1            | (0.3)  | 9         | (3.0)              |
|                                      | 118                     |         | (71.2)  |        | (20.3) |       | (0.0) |             | (0.8)               |              |        | 2         | (1.7)              |
| Slovenia                             | 5 063                   | 84      |         | 24     |        | 0     |       | 26          |                     | 7            | (5.9)  |           |                    |
| Spain                                |                         | 3 445   | (68.0)  | 322    | (6.4)  | 1     | (0.0) |             | (0.5)               | 99           | (2.0)  | 1 170     | (23.1)             |
| Sweden                               | 714                     | 635     | (88.9)  | 15     | (2.1)  | 2     | (0.3) | 11          | (1.5)               | 15           | (2.1)  | 36        | (5.0)              |
| United Kingdom                       | 6 116                   | 4 857   | (79.4)  | 350    | (5.7)  | 0     | (0.0) | 288         | (4.7)               | 438          | (7.2)  | 183       | (3.0)              |
| Subtotal EU/EEA                      | 54 612                  | 38 614  | (70.7)  | 3 997  | (7.3)  | 457   | (0.8) | 2 518       | (4.6)               | 1 965        | (3.6)  | 7 061     | (12.9)             |
| Non-EU/EEA                           | (00                     | 257     | (07.2)  | 40     | (2.1)  | 2     | (0.7) | 20          | (( 0)               |              |        | 40        | (1.6)              |
| Albania                              | 409                     | 357     | (87.3)  | 10     | (2.4)  | 3     | (0.7) | 20          | (4.9)               | -            | -      | 19        | (4.6)              |
| Andorra                              | 4                       | 3       | (75.0)  | 1      | (25.0) | 0     | (0.0) | 0           | (0.0)               | -            | -      | 0         | (0.0)              |
| Armenia                              | 893                     | 720     | (80.6)  | 48     | (5.4)  | 18    | (2.0) | 106         | (11.9)              | -            | -      | 1         | (0.1)              |
| Azerbaijan                           | 3 684                   | 2 866   | (77.8)  | 121    | (3.3)  | 245   | (6.7) | 374         | (10.2)              | -            |        | 78        | (2.1)              |
| Belarus                              | 2 325                   | 2 050   | (88.2)  | 128    | (5.5)  | 53    | (2.3) | 89          | (3.8)               | -            | -      | 5         | (0.2)              |
| Bosnia and Herzegovina               | 907                     | 505     | (55.7)  | 64     | (7.1)  | 13    | (1.4) | 3           | (0.3)               | -            | -      | 322       | (35.5)             |
| Georgia                              | 2 941                   | 2 395   | (81.4)  | 131    | (4.5)  | 60    | (2.0) | 299         | (10.2)              | -            | -      | 56        | (1.9)              |
| Israel                               | 258                     | 203     | (78.7)  | 16     | (6.2)  | 1     | (0.4) | 15          | (5.8)               | -            | -      | 23        | (8.9)              |
| Kazakhstan                           | 7 021                   | 6 159   | (87.7)  | 466    | (6.6)  | 274   | (3.9) | 98          | (1.4)               | -            | -      | 24        | (0.3)              |
| Kyrgyzstan                           | 6 715                   | 5 397   | (80.4)  | 420    | (6.3)  | 129   | (1.9) | 741         | (11.0)              | -            | -      | 28        | (0.4)              |
| Monaco                               | -                       | -       | -       | -      | -      | -     | _     | -           | -                   | -            | -      | -         | , -                |
| Montenegro                           | 87                      | 70      | (80.5)  | 11     | (12.6) | 0     | (0.0) | 5           | (5.7)               | -            | -      | 1         | (1.1)              |
| North Macedonia                      | 267                     | 235     | (88.0)  | 18     | (6.7)  | 2     | (0.7) | 11          | (4.1)               | -            | -      | 1         | (0.4)              |
| Republic of Moldova                  | 3 390                   | 2 667   | (78.7)  | 388    | (11.4) | 97    | (2.9) | 178         | (5.3)               | -            | -      | 60        | (1.8)              |
| Russian Federation                   | 82 382                  | 56 881  | (69.0)  | 8 413  | (10.2) | 5 783 | (7.0) | 4 333       | (5.3)               | -            | -      | 6 972     | (8.5)              |
| San Marino                           | 0                       | -       | -       | -      | -      | -     | -     | -           | -                   | -            | -      | -         | -                  |
| Serbia                               | 1 4 6 4                 | 1203    | (82.2)  | 100    | (6.8)  | 9     | (0.6) | 93          | (6.4)               | -            | -      | 59        | (4.0)              |
| Serbia excluding Kosovo <sup>c</sup> | 751                     | 600     | (79.9)  | 65     | (8.7)  | 6     | (0.8) | 33          | (4.4)               |              |        | 47        | (6.3)              |
| Kosovo <sup>c</sup>                  | 713                     | 603     | (84.6)  | 35     | (4.9)  | 3     | (0.4) | 60          | (8.4)               |              |        | 12        | (1.7)              |
| Switzerland                          | 601                     | 404     | (67.2)  | 10     | (1.7)  | 2     | (0.3) | 10          | (1.7)               | -            | -      | 175       | (29.1)             |
| Tajikistan                           | 5 536                   | 4 923   | (88.9)  | 249    | (4.5)  | 107   | (1.9) | 214         | (3.9)               | -            | -      | 43        | (0.8)              |
| Turkey                               | 12 196                  | 10 554  | (86.5)  | 716    | (5.9)  | 35    | (0.3) | 379         | (3.1)               | -            | -      | 512       | (4.2)              |
| Turkmenistan                         | 2 340                   | 1964    | (83.9)  | 94     | (4.0)  | 94    | (4.0) | 120         | (5.1)               | -            | -      | 68        | (2.9)              |
| Ukraine                              | 26 351                  | 19 484  | (73.9)  | 2 670  | (10.1) | 2 188 | (8.3) | 1 895       | (7.2)               | -            | -      | 114       | (0.4)              |
| Uzbekistan                           | 16 408                  | 14 244  | (86.8)  | 773    | (4.7)  | 236   | (1.4) | 394         | (2.4)               | -            | -      | 761       | (4.6)              |
| Subtotal non-EU/EEA                  | 176 179                 | 133 284 | (75.7)  | 14 847 | (8.4)  | 9 349 | (5.3) | 9 377       | (5.3)               | 0            | (0.0)  | 9 322     | (5.3)              |
| Total European Region                | 230 791                 | 171 898 | (74.5)  | 18 844 | (8.2)  | 9 806 | (4.2) | 11 895      | (5.2)               | 1965         | (0.9)  | 16 383    | (7.1)              |
| Subtotal 18 HPCs                     | 189 681                 | 144 344 | (76.1)  | 16 179 | (8.5)  | 9 734 | (5.1) | 10 167      | (4.4)               | 501          | (0.2)  | 8 756     | (3.8)              |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcome are not reported.

HPCs = high-priority countries.

\* In previous reports defined as "defaulted".

\* In previous reports defined as "transferred out and unknown".

\* (In accordance with Security Council Resolution 1244 (1999)).

Table 19. Treatment outcome of new TB cases and relapses notified in 2016, European Region, 2017

| Country/area                          | New and relapsed TB cases notified | Succ    | ess           | Die      | d      | Faile    | d     | Lost to fol | low-up <sup>c</sup> | Still on tre | atment | Not eval | uated <sup>d</sup> |
|---------------------------------------|------------------------------------|---------|---------------|----------|--------|----------|-------|-------------|---------------------|--------------|--------|----------|--------------------|
| · · · · · · · · · · · · · · · · · · · | in 2016                            | N       | (%)           | N        | (%)    | N        | (%)   | N           | (%)                 | N            | (%)    | N        | (%)                |
| EU/EEA                                |                                    |         |               |          |        |          |       |             |                     |              |        |          |                    |
| Austria                               | 604                                | 450     | (74.5)        | 43       | (7.1)  | 0        | (0.0) | 10          | (1.7)               | 57           | (9.4)  | 44       | (7.3)              |
| Belgiume                              | 973                                | 793     | (81.5)        | 58       | (6.0)  | 0        | (0.0) | 67          | (6.9)               | 23           | (2.4)  | 32       | (3.3)              |
| Bulgaria                              | 1 510                              | 1 291   | (85.5)        | 122      | (8.1)  | 15       | (1.0) | 82          | (5.4)               | 0            | (0.0)  | 0        | (0.0)              |
| Croatia                               | 452                                | 264     | (58.4)        | 70       | (15.5) | 1        | (0.2) | 21          | (4.6)               | 17           | (3.8)  | 79       | (17.5)             |
| Cyprus                                | 56                                 | 37      | (66.1)        | 0        | (0.0)  | 0        | (0.0) | 1           | (1.8)               | 0            | (0.0)  | 18       | (32.1)             |
| Czech Republic                        | 505                                | 346     | (68.5)        | 83       | (16.4) | 1        | (0.2) | 54          | (10.7)              | 8            | (1.6)  | 13       | (2.6)              |
| Denmarke                              | 288                                | 108     | (37.5)        | 5        | (1.7)  | 7        | (2.4) | 1           | (0.3)               | 5            | (1.7)  | 162      | (56.3)             |
| Estonia                               | 166                                | 133     | (80.1)        | 26       | (15.7) | 3        | (1.8) | 2           | (1.2)               | 0            | (0.0)  | 2        | (1.2)              |
| Finland                               | 216                                | 70      | (32.4)        | 0        | (0.0)  | 0        | (0.0) | 5           | (2.3)               | 5            | (2.3)  | 136      | (63.0)             |
| France                                | -                                  | -       | -             | -        | -      | -        | -     | -           | -                   | -            | -      | -        | -                  |
| Germany                               | 5 659                              | 3 947   | (69.7)        | 331      | (5.8)  | 1        | (0.0) | 132         | (2.3)               | 207          | (3.7)  | 1 0 4 1  | (18.4)             |
| Greece                                | -                                  | -       | -             | -        | -      | -        | -     | -           | -                   | -            | -      | -        | -                  |
| Hungary                               | 722                                | 511     | (70.8)        | 86       | (11.9) | 19       | (2.6) | 58          | (8.0)               | 31           | (4.3)  | 17       | (2.4)              |
| Iceland                               | 6                                  | 5       | (83.3)        | 0        | (0.0)  | 0        | (0.0) | 0           | (0.0)               | 0            | (0.0)  | 1        | (16.7)             |
| Ireland <sup>e</sup>                  | 286                                | 103     | (36.0)        | 16       | (5.6)  | 0        | (0.0) | 2           | (0.7)               | 9            | (3.1)  | 156      | (54.5)             |
| Italy                                 | -                                  | -       | -             | -        | -      | -        | -     | -           | -                   | -            | -      | -        | -                  |
| Latvia                                | 592                                | 505     | (85.3)        | 53       | (9.0)  | 1        | (0.2) | 29          | (4.9)               | 1            | (0.2)  | 3        | (0.5)              |
| Liechtenstein                         | 2                                  | 2       | (100.0)       | 0        | (0.0)  | 0        | (0.0) | 0           | (0.0)               | 0            | (0.0)  | 0        | (0.0)              |
| Lithuania                             | 1 152                              | 967     | (83.9)        | 111      | (9.6)  | 12       | (1.0) | 57          | (4.9)               | 3            | (0.3)  | 2        | (0.2)              |
| Luxembourg                            | - 1,52                             | -       | -             | -        | -      | -        | -     | -           | -                   | -            | -      | -        |                    |
| Malta                                 | -                                  | -       | -             | -        | -      | -        | _     | -           | -                   | -            | -      | -        | -                  |
| Netherlands                           | 864                                | 747     | (86.5)        | 30       | (3.5)  | 0        | (0.0) | 37          | (4.3)               | 14           | (1.6)  | 36       | (4.2)              |
| Norwaye                               | 262                                | 230     | (87.8)        | 3        | (1.1)  | 1        | (0.4) | 12          | (4.6)               | 4            | (1.5)  | 12       | (4.6)              |
| Poland                                | 6 099                              | 3 300   | (54.1)        | 582      | (9.5)  | 3        | (0.0) | 364         | (6.0)               | 18           | (0.3)  | 1832     | (30.0)             |
| Portugal                              | 1872                               | 1316    | (70.3)        | 132      | (7.1)  | 0        | (0.0) | 60          | (3.2)               | 305          | (16.3) | 59       | (3.2)              |
| Romania                               | 12 459                             | 10 723  | (86.1)        | 1 002    | (8.0)  | 193      | (1.5) | 522         | (4.2)               | 5            | (0.0)  | 14       | (0.1)              |
| Slovakia                              | 279                                | 241     | (86.4)        | 27       | (9.7)  | 0        | (0.0) | 2           | (0.7)               | 0            | (0.0)  | 9        | (3.2)              |
| Slovenia                              | 118                                | 84      | (71.2)        | 24       | (20.3) | 0        | (0.0) | 1           | (0.8)               | 7            | (5.9)  | 2        | (1.7)              |
| Spain                                 | -                                  | -       | (/ 1.2)       | -        | (20.5) | _        | (0.0) |             | (0.0)               | -            | (3.7)  | _        | (1.7)              |
| Sweden                                | 669                                | 607     | (90.7)        | 14       | (2.1)  | 2        | (0.3) | 11          | (1.6)               | 2            | (0.3)  | 33       | (4.9)              |
| United Kingdom <sup>e</sup>           | 5 675                              | 4 570   | (80.5)        | 316      | (5.6)  | 0        | (0.0) | 264         | (4.7)               | 359          | (6.3)  | 166      | (2.9)              |
| Subtotal EU/EEA                       | 41 486                             | 31 350  | <b>(75.6)</b> | 3 134    | (7.6)  | 259      | (0.6) | 1794        | (4.3)               | 1080         | (2.6)  | 3 869    | (9.3)              |
| Non-EU/EEA                            | 41 400                             | 31 330  | (75.0)        | 3 134    | (7.0)  | 237      | (0.0) | 1 / 74      | (4.3)               | 1000         | (2.0)  | 3 007    | (7.3)              |
| Albania                               | 409                                | 357     | (87.3)        | 10       | (2.4)  | 3        | (0.7) | 20          | (4.9)               | -            | -      | 19       | (4.6)              |
| Andorra                               | 409                                | 3       | (75.0)        | 1        | (25.0) | 0        | (0.0) | 0           | (0.0)               | _            | _      | 0        | (0.0)              |
| Armenia                               |                                    | 703     | (80.9)        |          | (5.5)  |          | (2.1) | 99          | (11.4)              | _            | _      | 1        | (0.0)              |
| Azerbaijan                            | 869<br>1 464                       | 1 225   | (83.7)        | 48<br>26 | (1.8)  | 18<br>73 | (5.0) | 118         | (8.1)               | -            | -      | 22       | (1.5)              |
| Belarus                               | 2 123                              | 1894    | (89.2)        |          |        | 45       | (2.1) | 68          | (3.2)               | _            | _      | 4        | (0.2)              |
|                                       |                                    |         |               | 112      | (5.3)  |          |       |             |                     | -            | -      |          |                    |
| Bosnia and Herzegovina                | 907                                | 505     | (55.7)        | 64       | (7.1)  | 13       | (1.4) | 3           | (0.3)               |              |        | 322      | (35.5)             |
| Georgia                               | 2 715                              | 2 263   | (83.4)        | 113      | (4.2)  | 53       | (2.0) | 235         | (8.7)               | -            | -      | 51       | (1.9)              |
| Israel                                | 250                                | 198     | (79.2)        | 16       | (6.4)  | 1        | (0.4) | 12          | (4.8)               |              |        | 23       | (9.2)              |
| Kazakhstan                            | 6 775                              | 5 962   | (88.0)        | 442      | (6.5)  | 261      | (3.9) | 88          | (1.3)               | -            | -      | 22       | (0.3)              |
| Kyrgyzstan                            | 6 072                              | 4 968   | (81.8)        | 360      | (5.9)  | 112      | (1.8) | 609         | (10.0)              | -            | -      | 23       | (0.4)              |
| Monaco                                | -                                  | -       | (00.5)        | -        | (45.5) | -        | -     | -           | (5.7)               | -            | -      | 0        | - (                |
| Montenegro                            | 87                                 | 70      | (80.5)        | 11       | (12.6) | 0        | (0.0) | 5           | (5.7)               | -            | -      | 1        | (1.1)              |
| North Macedonia                       | 263                                | 232     | (88.2)        | 18       | (6.8)  | 1        | (0.4) | 11          | (4.2)               | -            | -      | 1        | (0.4)              |
| Republic of Moldova                   | 3 048                              | 2 515   | (82.5)        | 294      | (9.6)  | 77       | (2.5) | 123         | (4.0)               | -            | -      | 39       | (1.3)              |
| Russian Federation                    | 73 137                             | 52 335  | (71.6)        | 7 423    | (10.1) | 4 602    | (6.3) | 3 541       | (4.8)               | -            | -      | 5 236    | (7.2)              |
| San Marino                            | -                                  | -       | -             | -        | -      | -        | -     | -           | -                   | -            | -      | 0        | -                  |
| Serbia                                | 1 4 4 3                            | 1 191   | (82.5)        | 100      | (6.9)  | 9        | (0.6) | 88          | (6.1)               | -            | -      | 55       | (3.8)              |
| Serbia excluding Kosovo <sup>f</sup>  |                                    | 590     | (80.5)        | 65       | (8.9)  | 6        | (0.8) | 29          | (4.0)               |              |        | 43       | (5.9)              |
| Kosovo <sup>f</sup>                   | 710                                | 601     | (84.6)        | 35       | (4.9)  | 3        | (0.4) | 59          | (8.3)               | -            | -      | 12       | (1.7)              |
| Switzerland                           | 565                                | 384     | (68.0)        | 10       | (1.8)  | 1        | (0.2) | 9           | (1.6)               | -            | -      | 161      | (28.5)             |
| Tajikistan                            | 5 324                              | 4 751   | (89.2)        | 228      | (4.3)  | 104      | (2.0) | 198         | (3.7)               | -            | -      | 43       | (0.8)              |
| Turkey                                | 12 017                             | 10 462  | (87.1)        | 705      | (5.9)  | 32       | (0.3) | 325         | (2.7)               | -            | -      | 493      | (4.1)              |
| Turkmenistan                          | 2 068                              | 1738    | (84.0)        | 84       | (4.1)  | 85       | (4.1) | 102         | (4.9)               | -            | -      | 59       | (2.9)              |
| Ukraine                               | 22 615                             | 17 234  | (76.2)        | 2 140    | (9.5)  | 1760     | (7.8) | 1 387       | (6.1)               | -            | -      | 94       | (0.4)              |
| Uzbekistan                            | 14 743                             | 12 906  | (87.5)        | 639      | (4.3)  | 219      | (1.5) | 311         | (2.1)               | -            | -      | 668      | (4.5)              |
| Subtotal non-EU/EEA                   | 156 898                            | 121 896 | (77.7)        | 12 844   | (8.2)  | 7 469    | (4.8) | 7 352       | (4.7)               | -            | -      | 7 337    | (4.7)              |
| Total European Region                 | 198 384                            | 153 246 | (77.2)        | 15 978   | (8.1)  | 7728     | (3.9) | 9 146       | (4.6)               | 1080         | (0.5)  | 11 206   | (5.6)              |
| Subtotal 18 HPCs                      | 168 849                            | 132 575 | (78.5)        | 13 928   | (8.2)  | 7 6 6 5  | (4.5) | 7 896       | (4.7)               | 9            | (0.0)  | 6 776    | (4.0)              |

Wotes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (-) when data on treatment outcome are not reported.

HPCs = high-priority countries.

\* Cases with unknown previous TB history are included among new TB cases.

\* For non-EU/EEA countries: Patients started on second-line treatment are excluded. For EU/EEA countries: Rifampicin-resistant TB cases are excluded.

\* In previous reports classified as "defaulted".

\* In previous reports defined as "transferred out and unknown".

\* Previous TB history is defined by previous diagnosis.

\* (In accordance with Security Council Resolution 1244 (1999)).

Table 20. Treatment outcome of new and relapse TB cases in children (0-14 years) notified in 2016, European Region, 2017

| Country/area  | TB cases                         |                |                   |          |         |          | ı       |     | low-up <sup>c</sup> | Still on tre |        |     | uated <sup>d</sup> |
|---|----------------------------------|----------------|-------------------|----------|---------|----------|---------|-----|---------------------|--------------|--------|-----|--------------------|
|   | reported in<br>2016 <sup>b</sup> | N              | (%)               | N        | (%)     | N        | (%)     | N   | (%)                 | N            | (%)    | N   | (%)                |
| EU/EEA  | 2010                             |                |                   |          |         |          |         |     |                     |              |        |     |                    |
| Austria   | 29                               | 26             | (89.7)            | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               | 2            | (6.9)  | 1   | (3.4)              |
| Belgiume  | 57                               | 55             | (96.5)            | 0        | (0.0)   | 0        | (0.0)   | 1   | (1.8)               | 1            | (1.8)  | 0   | (0.0)              |
| Bulgaria  | 124                              | 117            | (94.4)            | 0        | (0.0)   | 0        | (0.0)   | 7   | (5.6)               | 0            | (0.0)  | 0   | (0.0)              |
| Croatia   | 5                                | 3              | (60.0)            | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               | 0            | (0.0)  | 2   | (40.0)             |
| Cyprus  | 0                                | 0              | -                 | 0        | -       | 0        | _       | 0   | -                   | 0            | _      | 0   | _                  |
| Czech Republic  | 10                               | 8              | (80.0)            | 0        | (0.0)   | 0        | (0.0)   | 2   | (20.0)              | 0            | (0.0)  | 0   | (0.0)              |
| Denmark <sup>e</sup>  | 18                               | 3              | (16.7)            | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               | 0            | (0.0)  | 15  | (83.3)             |
| Estonia   | 4                                | 4              | (100.0)           | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               | 0            | (0.0)  | 0   | (0.0)              |
| Finland   | 6                                | 1              | (16.7)            | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               | 0            | (0.0)  | 5   | (83.3)             |
| France  | _                                | -              | -                 | -        | -       | -        | _       | -   | _                   | _            | -      | -   | _                  |
| Germany   | 223                              | 168            | (75.3)            | 1        | (0.4)   | 0        | (0.0)   | 2   | (0.9)               | 4            | (1.8)  | 48  | (21.5)             |
| Greece  | -                                | -              | -                 | _        | -       | _        | -       | _   | -                   | _            | -      | -   | (=,                |
| Hungary   | 5                                | 5              | (100.0)           | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               | 0            | (0.0)  | 0   | (0.0)              |
| Iceland   | 0                                | 0              | _                 | 0        | -       | 0        | -       | 0   | -                   | 0            | -      | 0   | -                  |
| Ireland <sup>e</sup>  | 16                               | 4              | (25.0)            | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               | 2            | (12.5) | 10  | (62.5)             |
| Italy   | -                                | _              | -                 | _        | -       | _        | -       | _   | -                   | _            | -      | -   | (==.5)             |
| Latvia  | 23                               | 23             | (100.0)           | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               | 0            | (0.0)  | 0   | (0.0)              |
| Liechtenstein   | 0                                | 0              | -                 | 0        | -       | 0        | (0.0)   | 0   | (0.0)               | 0            | -      | 0   | (0.0)              |
| Lithuania   | 47                               | 47             | (100.0)           | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               | 0            | (0.0)  | 0   | (0.0)              |
| Luxembourg  | -                                | -              | (100.0)           | _        | (0.0)   | _        | (0.0)   | _   | (0.0)               | _            | (0.0)  | _   | (0.0)              |
| Malta   | 0                                | 0              | _                 | 0        | _       | 0        | _       | 0   | _                   | 0            | _      | 0   | _                  |
| Netherlands   | 48                               | 47             | (97.9)            | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               | 1            | (2.1)  | 0   | (0.0)              |
| Norwaye   | 14                               | 14             | (100.0)           | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               | 0            | (0.0)  | 0   | (0.0)              |
| Poland  | 102                              | 53             | (52.0)            | 3        | (2.9)   | 0        | (0.0)   | 5   | (4.9)               | 0            | (0.0)  | 41  | (40.2)             |
| Portugal  | 36                               | 27             | (75.0)            | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               | 9            | (25.0) | 0   | (0.0)              |
| Romania   | 595                              | 578            | (97.1)            | 5        | (0.8)   | 2        | (0.3)   | 9   | (1.5)               | 1            | (0.2)  | 0   | (0.0)              |
| Slovakia  | 60                               | 57             | (95.0)            | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               | 0            | (0.2)  | 3   | (5.0)              |
| Slovenia  | 3                                | 3              | (100.0)           | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               | 0            | (0.0)  | 0   | (0.0)              |
|   | 3                                | -              | (100.0)           | -        | (0.0)   | U        | (0.0)   | -   | (0.0)               | -            | (0.0)  | -   | (0.0)              |
| Spain<br>Sweden   |                                  |                | (0(2)             |          | (0.0)   | 2        | (3.7)   |     | (0, 0)              | 0            | (0, 0) | 0   | (0,0)              |
|   | 54<br>220                        | 52             | (96.3)            | 0        | (0.0)   |          | (0.0)   | 0 2 | (0.0)               | 9            | (0.0)  | 5   | (0.0)              |
| United Kingdom <sup>e</sup>                                 |                                  | 203            | (92.3)            |          | (0.5)   | 0        |         |     |                     |              | (4.1)  | 130 |                    |
| Subtotal EU/EEA   | 1 699                            | 1 498          | (88.2)            | 10       | (0.6)   | 4        | (0.2)   | 28  | (1.6)               | 29           | (1.7)  | 130 | (7.7)              |
| Non-EU/EEA<br>Albania                                       | 12                               | 11             | (0 ( ()           | 0        | (0, 0)  | 0        | (0.0)   | 1   | (7.7)               |              |        | 1   | (7.7)              |
| Andorra   | 13                               | 11             | (84.6)            | 0        | (0.0)   | 0        | (0.0)   | 1   | (7.7)               |              |        | 1   | (7.7)              |
| Armenia   |                                  |                | (0 ( 7)           | -        | (0, 0)  | 0        | (0,0)   | 0   | (5.2)               |              |        | 0   | (0,0)              |
|   | 19                               | 18             | (94.7)            | 0        | (0.0)   | 0        | (0.0)   | 1   | (5.3)               |              |        | -   | (0.0)              |
| Azerbaijan<br>Belarus                                       |                                  |                | (72.7)            |          | (0, 0)  |          | (0,0)   | 0   | (0, 0)              |              |        | 3   | (27.2)             |
|   | 11                               | 8              | (72.7)            | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               |              |        | 1   | (27.3)             |
| Bosnia and Herzegovina                                      | 10                               |                | (80.0)            | 1        | (10.0)  | 0        | (0.0)   |     | (0.0)               |              |        |     | (10.0)             |
| Georgia   | 115<br>12                        | 106            | (92.2)            | 0        | (0.0)   | 1        | (0.9)   | 5   | (4.3)               |              |        | 3   | (2.6)              |
| Israel<br>Kazakhstan  |                                  | 11             | (91.7)            |          | (0.0)   | 0        | (0.0)   |     | (0.0)               |              |        |     | (8.3)              |
|   | 560                              | 557            | (99.5)            | 0        | (0.0)   | 1        | (0.2)   | 1   | (0.2)               |              |        | 1   | (0.2)              |
| Kyrgyzstan  | 383                              | 359            | (93.7)            | 7        | (1.8)   | 4        | (1.0)   | 13  | (3.4)               |              |        | U   | (0.0)              |
| Monaco<br>Montenegro  | -                                | -              | -                 | -        | -       | -        | _       | -   | _                   |              |        | -   | _                  |
|   | -                                |                | (400.0)           |          | (0.0)   | -        |         | -   | (0.0)               |              |        | -   | (0.0)              |
| North Macedonia Republic of Moldova                         | 25                               | 25             | (100.0)<br>(95.5) | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               |              |        | 0   | (0.0)              |
| , ,   | 2 (77                            | 84             |                   | 2        |         | 1        | (1.1)   | 1   |                     |              |        | 0   | (0.0)              |
| Russian Federation  | 2 677                            | 2 574          | (96.2)            | 13       | (0.5)   | 15       | (0.6)   | 4   | (0.1)               |              |        | 71  | (2.7)              |
| San Marino  | 4=                               | 46             | (0/4)             | -        | (0.0)   | 4        | (5.0)   | _   | (0.0)               |              |        | _   | (0.0)              |
| Serbia Serbia Serbia Manager                                | 17                               | 16             | (94.1)            | 0        | (0.0)   | 1        | (5.9)   | 0   | (0.0)               |              |        | 0   | (0.0)              |
| Serbia excluding Kosovo <sup>f</sup><br>Kosovo <sup>f</sup> | 47                               | - 16           | (0/4)             | -        | (0.0)   | 4        | (5.0)   | _   | (0.0)               |              |        |     | (0.0)              |
|   | 17                               | 16             | (94.1)            | 0        | (0.0)   | 1        | (5.9)   | 0   | (0.0)               |              |        | 0   | (0.0)              |
| Switzerland   | 31                               | 21             | (67.7)            | 0        | (0.0)   | 0        | (0.0)   | 0   | (0.0)               |              |        | 10  | (32.3)             |
| Tajikistan  | 360                              | 343            | (95.3)            | 4        | (1.1)   | 3        | (0.8)   | 6   | (1.7)               |              |        | 4   | (1.1)              |
| Turkey  | 626                              | 536            | (85.6)            | 15       | (2.4)   | 0        | (0.0)   | 12  | (1.9)               |              |        | 63  | (10.1)             |
| Turkmenistan  | - (25                            | -              | (00.0)            | -        | - (4.4) | -        | -       | -   | -                   |              |        | -   | - /a - \           |
| Ukraine   | 435                              | 395            | (90.8)            | 5        | (1.1)   | 28       | (6.4)   | 6   | (1.4)               |              |        | 1   | (0.2)              |
| Uzbekistan  | -                                | -              | (01.5)            | -        | - (0.0) | -        | - (4.0) | -   | -                   |              | (0.0)  | -   | -                  |
| Subtotal non-EU/EEA   | 5 382<br>7 081                   | 5 072<br>6 570 | (94.2)<br>(92.8)  | 47<br>57 | (0.9)   | 54<br>58 | (1.0)   | 50  | (0.9)               | 0            | (0.0)  | 159 | (3.0)              |
| Total European Region                                       |                                  |                |                   | E7       | 10 21   | 69       | (0.8)   | 78  | (1.1)               | 29           | (0.4)  | 289 | (4.1)              |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs = high-priority countries.

\*\*PCS = high-priority countries.\*\*

\*\*Cases with unknown previous TB history are included among new TB cases.

\*\*For non-EU/EEA countries: Patients started on second-line treatment are excluded. For EU/EEA countries: Rifampicin-resistant TB cases are excluded.

\*\*In previous reports defined as "transferred out and unknown".\*\*

\*\*In previous reports defined as "transferred out and unknown".\*\*

\*\*Previous TB history is defined by previous diagnosis.\*\*

\*\*In previous Reports defined as "transferred out and unknown".\*\*

\*\*Previous TB history is defined by previous diagnosis.\*\*

\*\*In previous Reports defined as "transferred out and unknown".\*\*

\*\*Previous TB history is defined by previous diagnosis.\*\*

\*\*In previous Reports defined as "transferred out and unknown".\*\*

\*\*Previous TB history is defined by previous diagnosis.\*\*

\*\*In previous Reports defined as "transferred out and unknown".\*\*

\*\*Previous TB history is defined by previous diagnosis.\*\*

Table 21. Treatment outcome of HIV-positive new and relapse TB cases notified in 2016, European Region, 2017

| Country/area                         | HIV positive<br>TB cases         | Succ  | ess              | Die   | d       | Faile | d     | Lost to fol | low-up <sup>c</sup> | Still on tr | eatment | Not eval | uated   |
|--------------------------------------|----------------------------------|-------|------------------|-------|---------|-------|-------|-------------|---------------------|-------------|---------|----------|---------|
| Country/area                         | notified in<br>2016 <sup>b</sup> | N     | (%)              | N     | (%)     | N     | (%)   | N           | (%)                 | N           | (%)     | N        | (%)     |
| EU/EEA                               |                                  |       |                  |       |         |       |       |             |                     |             |         |          |         |
| Austria                              | -                                | -     | -                | -     | -       | -     | -     | -           | -                   | -           | -       | -        | -       |
| Belgiume                             | 32                               | 20    | (62.5)           | 3     | (9.4)   | 0     | (0.0) | 6           | (18.8)              | 2           | (6.3)   | 1        | (3.1)   |
| Bulgaria                             | 0                                | 0     | -                | 0     | -       | 0     | -     | 0           | -                   | 0           | -       | 0        | -       |
| Croatia                              | 0                                | 0     | -                | 0     | -       | 0     | -     | 0           | -                   | 0           | -       | 0        | -       |
| Cyprus                               | 0                                | 0     | -                | 0     | -       | 0     | -     | 0           | -                   | 0           | -       | 0        | -       |
| Czech Republic                       | 5                                | 1     | (20.0)           | 1     | (20.0)  | 0     | (0.0) | 3           | (60.0)              | 0           | (0.0)   | 0        | (0.0)   |
| Denmarke                             | 9                                | 2     | (22.2)           | 0     | (0.0)   | 0     | (0.0) | 0           | (0.0)               | 0           | (0.0)   | 7        | (77.8)  |
| Estonia                              | 18                               | 17    | (94.4)           | 1     | (5.6)   | 0     | (0.0) | 0           | (0.0)               | 0           | (0.0)   | 0        | (0.0)   |
| Finland                              | -                                | -     | -                | -     | -       | -     | -     | -           | -                   | -           | -       | -        | -       |
| France                               | -                                | -     | -                | -     | -       | -     | -     | -           | -                   | -           | -       | -        | -       |
| Germany                              | -                                | -     | -                | -     | -       | -     | -     | -           | -                   | -           | -       | -        | -       |
| Greece                               | -                                | -     | -                | -     | -       | -     | -     | -           | -                   | -           | -       | -        | -       |
| Hungary                              | 1                                | 1     | (100.0)          | 0     | (0.0)   | 0     | (0.0) | 0           | (0.0)               | 0           | (0.0)   | 0        | (0.0)   |
| Iceland                              | 0                                | 0     | -                | 0     | -       | 0     | _     | 0           | _                   | 0           | -       | 0        | _       |
| Irelande                             | 4                                | 1     | (25.0)           | 0     | (0.0)   | 0     | (0.0) | 0           | (0.0)               | 0           | (0.0)   | 3        | (75.0)  |
| Italy                                | -                                | -     | -                | -     | -       | -     | _     | -           | _                   | -           | -       | -        | _       |
| Latvia                               | 47                               | 28    | (59.6)           | 15    | (31.9)  | 0     | (0.0) | 3           | (6.4)               | 0           | (0.0)   | 1        | (2.1)   |
| Liechtenstein                        | -                                | -     | -                | -     | -       | -     | -     | -           | -                   | -           | -       | -        |         |
| Lithuania                            | 23                               | 13    | (56.5)           | 8     | (34.8)  | 1     | (4.3) | 1           | (4.3)               | 0           | (0.0)   | 0        | (0.0)   |
| Luxembourg                           | -                                | -     | -                | -     | -       | -     | -     | _           | -                   | -           | -       | -        | -       |
| Malta                                | _                                | -     | _                | -     | _       | -     | _     | -           | _                   | _           | _       | -        | _       |
| Netherlands                          | 19                               | 14    | (73.7)           | 0     | (0.0)   | 0     | (0.0) | 2           | (10.5)              | 0           | (0.0)   | 3        | (15.8)  |
| Norwaye                              | 4                                | 4     | (100.0)          | 0     | (0.0)   | 0     | (0.0) | 0           | (0.0)               | 0           | (0.0)   | 0        | (0.0)   |
| Poland                               | -                                | _     | (100.0)          | _     | (0.0)   | _     | (0.0) | _           | (0.0)               | _           | (0.0)   | _        | (0.0)   |
| Portugal                             | 173                              | 90    | (52.0)           | 15    | (8.7)   | 0     | (0.0) | 9           | (5.2)               | 49          | (28.3)  | 10       | (5.8)   |
| Romania                              | 243                              | 171   | (70.4)           | 43    | (17.7)  | 3     | (1.2) | 25          | (10.3)              | 1           | (0.4)   | 0        | (0.0)   |
| Slovakia                             | 0                                | 0     | (/ 0.4)          | 0     | (17.7)  | 0     | (1.2) | 0           | (10.5)              | 0           | (0.4)   | 0        | (0.0)   |
| Slovenia                             | 1                                | 0     | (0.0)            | 0     | (0.0)   | 0     | (0.0) | 0           | (0.0)               | 1           | (100.0) | 0        | (0.0)   |
| Spain                                | -                                | -     | (0.0)            | -     | (0.0)   | _     | (0.0) | _           | (0.0)               | -           | (100.0) | -        | (0.0)   |
| Sweden                               | _                                | -     | _                | -     | _       | -     | _     | _           | _                   | -           | -       | _        | _       |
| United Kingdome                      | 138                              | 90    | (65.2)           | 12    | (8.7)   | 0     | (0.0) | 4           | (2.9)               | 30          | (21.7)  | 2        | (1.4)   |
| Subtotal EU/EEA                      | 717                              | 452   | (63.0)           | 98    | (13.7)  | 4     | (0.6) | 53          | (7.4)               | 83          | (11.6)  | 27       | (3.8)   |
| Non-EU/EEA                           | 717                              | 772   | (03.0)           | 70    | (13.1)  | 7     | (0.0) | ,,,         | (1.7)               | 0,7         | (11.0)  | 21       | (5.6)   |
| Albania                              | 6                                | 4     | (66.7)           | 2     | (33.3)  | 0     | (0.0) | 0           | (0.0)               | -           | -       | 0        | (0.0)   |
| Andorra                              | -                                | -     | (00.7)           | -     | (55.5)  | _     | (0.0) | _           | (0.0)               | -           | -       | _        | (0.0)   |
| Armenia                              | 50                               | 30    | (60.0)           | 14    | (28.0)  | 4     | (8.0) | 2           | (4.0)               | _           | _       | 0        | (0.0)   |
| Azerbaijan                           | -                                | -     | (00.0)           | -     | (20.0)  | -     | (0.0) | _           | (4.0)               | _           | -       | -        | (0.0)   |
| Belarus                              | 132                              | 110   | (83.3)           | 15    | (11.4)  | 2     | (1.5) | 4           | (3.0)               | _           | -       | 1        | (0.8)   |
| Bosnia and Herzegovina               | 1                                | 0     | (0.0)            | 0     | (0.0)   | 0     | (0.0) | 0           | (0.0)               | _           | -       | 1        | (100.0) |
| -                                    | 44                               | 25    | (56.8)           | 5     | (11.4)  | 2     | (4.5) | 11          | (25.0)              | _           | _       | 1        | (2.3)   |
| Georgia<br>Israel                    | 18                               | 12    | (66.7)           | 0     | (0.0)   | 0     | (0.0) | 2           | (11.1)              | _           | -       | 4        | (22.2)  |
|                                      |                                  |       |                  |       |         |       |       |             |                     |             |         |          |         |
| Kazakhstan                           | 230<br>159                       | 142   | (61.7)<br>(57.2) | 62    | (27.0)  | 15    | (6.5) | 11          | (4.8)               | -           | -       | 0        | (0.0)   |
| Kyrgyzstan                           | 159                              | 91    | (57.2)           | 40    | (25.2)  | 4     | (2.5) | 23          | (14.5)              | -           | -       | 1        | (0.6)   |
| Monaco                               | -                                | -     | -                | -     | -       | -     | -     | -           | _                   | -           | -       | -        | _       |
| Montenegro<br>North Macedonia        | -                                | -     | -                | _     | -       | -     | -     | -           | _                   | -           | -       | -        | _       |
|                                      | - 2/7                            | 427   |                  | - 70  |         |       |       | -           | (0.4)               | -           | -       | -        | (2.1)   |
| Republic of Moldova                  | 247                              | 137   | (55.5)           | 70    | (28.3)  | 14    | (5.7) | 20          | (8.1)               |             | -       | 6        | (2.4)   |
| Russian Federation                   | 1 328                            | 702   | (52.9)           | 415   | (31.3)  | 55    | (4.1) | 79          | (5.9)               | -           | -       | 77       | (5.8)   |
| San Marino                           | _                                | -     | - (422           | -     | - (2.0) | -     | - ()  | -           |                     | -           | -       | -        |         |
| Serbia                               | 4                                | 4     | (100.0)          | 0     | (0.0)   | 0     | (0.0) | 0           | (0.0)               | -           | -       | 0        | (0.0)   |
| Serbia excluding Kosovo <sup>f</sup> | 4                                | 4     | (100.0)          | 0     | (0.0)   | 0     | (0.0) | 0           | (0.0)               | -           | -       | 0        | (0.0)   |
| Kosovo <sup>f</sup>                  | 0                                | -     |                  | -     |         | -     |       | -           |                     | -           |         | -        |         |
| Switzerland                          | -                                | -     | -                | -     | -       | -     | -     | -           | -                   | -           | -       | -        | _       |
| Tajikistan                           | 147                              | 102   | (69.4)           | 34    | (23.1)  | 2     | (1.4) | 9           | (6.1)               | -           | -       | 0        | (0.0)   |
| Turkey                               | 55                               | 44    | (80.0)           | 5     | (9.1)   | 0     | (0.0) | 2           | (3.6)               | -           | -       | 4        | (7.3)   |
| Turkmenistan                         | -                                | -     | -                | -     | -       | -     | -     | -           | -                   | -           | -       | -        | -       |
| Ukraine                              | 4 461                            | 2 923 | (65.5)           | 887   | (19.9)  | 277   | (6.2) | 353         | (7.9)               | -           | -       | 21       | (0.5)   |
| Uzbekistan                           | -                                | -     | -                | -     | -       | -     | -     | -           | -                   | -           | -       | -        | -       |
| Subtotal non-EU/EEA                  | 6 882                            | 4 326 | (62.9)           | 1549  | (22.5)  | 375   | (5.4) | 516         | (7.5)               | 0           | (0.0)   | 116      | (1.7)   |
| Total European Region                | 7 599                            | 4 778 | (62.9)           | 1 647 | (21.7)  | 379   | (5.0) | 569         | (7.5)               | 83          | (1.1)   | 143      | (1.9)   |
| Subtotal 18 HPCs                     | 7 184                            | 4 535 | (63.1)           | 1 614 | (22.5)  | 379   | (5.3) | 543         | (7.6)               | 1           | (0.0)   | 112      | (1.6)   |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcome or HIV status are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HIV = human immunodeficiency virus. HPCs = high-priority countries.

\*\*Cases with unknown previous TB history are included among new TB cases.

\*\*Cases with unknown previous TB history are included among new TB cases.

\*\*In previous reports defined as "defaulted".

\*\*In previous reports defined as "defaulted".

\*\*In previous reports defined as "transferred out and unknown".

\*\*Previous TB history is defined by previous diagnosis.

\*\*In accordance with Security Council Resolution 1244 (1999)).

Table 22. Treatment outcome after 24 months of RR/MDR-TB cases started on second-line treatment in 2015, European Region, 2017

| Country/area   | RR/MDR-TB<br>cases started<br>on second-   | Succ   | ess  | Died   |   | Faile   | d  | Lost to fol  | low-up <sup>b</sup>   | Still on tre     | eatment                         | Not eval  | uated  |
|--|--|--|--|--|---|---|--|--|---|------------------|---------------------------------|---|--|
| Country/area   | line treatment<br>in 2015  | N  | (%)  | N  | (%)   | N   | (%)  | N  | (%)   | N                | (%)                             | N   | (%   |
| EU/EEA   |  |  |  |  |   |   |  |  |   |                  |                                 |   |  |
| Austria  | 13   | 12   | (92.3)   | 0  | (0.0)   | 0   | (0.0)  | 0  | (0.0)   | 0                | (0.0)                           | 1   | (7.7   |
| Belgium  | 16   | 16   | (100.0)  | 0  | (0.0)   | 0   | (0.0)  | 0  | (0.0)   | 0                | (0.0)                           | 0   | (0.0)  |
| Bulgaria   | 28   | 17   | (60.7)   | 5  | (17.9)  | 2   | (7.1)  | 4  | (14.3)  | 0                | (0.0)                           | 0   | (0.0)  |
| Croatia  | 1  | 1  | (100.0)  | 0  | (0.0)   | 0   | (0.0)  | 0  | (0.0)   | 0                | (0.0)                           | 0   | (0.0)  |
| Cyprus   | 0  | 0  | -  | 0  | -   | 0   | -  | 0  | -   | 0                | -                               | 0   | (0.0   |
| Czech Republic   | 9  | 3  | (33.3)   | 1  | (11.1)  | 0   | (0.0)  | 1  | (11.1)  | 2                | (22.2)                          | 2   | (22.2  |
| Denmark  | 7  | 0  | (0.0)  | 0  | (0.0)   | 1   | (14.3)   | 0  | (0.0)   | 0                | (0.0)                           | 6   | (85.7)   |
| Estonia  | 40   | 25   | (62.5)   | 6  | (15.0)  | 3   | (7.5)  | 3  | (7.5)   | 3                | (7.5)                           | 0   | (0.0)  |
| Finland  | 9  | 4  | (44.4)   | 0  | (0.0)   | 0   | (0.0)  | 0  | (0.0)   | 1                | (11.1)                          | 4   | (44.4  |
| France   | _  | _  | -  | _  | -   | _   | (0.0)  | _  | (0.0)   | -                | -                               | _   | -  |
| Germany  | 128  | 54   | (42.2)   | 5  | (3.9)   | 0   | (0.0)  | 7  | (5.5)   | 11               | (8.6)                           | 51  | (39.8  |
| Greece   | -  | -  | (72.2)   | _  | (3.7)   | _   | (0.0)  | _  | (3.3)   | -                | (0.0)                           | -   | (37.0,   |
| Hungary  | 9  | 2  | (22.2)   | 4  | (44.4)  | 0   | (0.0)  | 2  | (22.2)  | 1                | (11.1)                          | 0   | (0.0)  |
| Iceland  | 0  | 0  | (22.2)   | 0  | (++++)  | 0   | (0.0)  | 0  | (22,2)  | 0                | (11.1)                          | 0   | (0.0)  |
| Ireland  | 1  | 0  | (0.0)  | 0  | (0.0)   | 0   | (0.0)  | 0  | (0.0)   | 1                | (100.0)                         | 0   | (0.0)  |
| Italy  | -  | _  | (0.0)  | _  | (0.0)   | _   | (0.0)  | _  | (0.0)   | _                | (100.0)                         | _   | (0.0)  |
| Latvia   | 63   | 39   | (61.9)   | 8  | (12.7)  | 0   | (0.0)  | 15   | (23.8)  | 1                | (1.6)                           | 0   | (0.0)  |
| Liechtenstein  | 0  | 0  | (01.2)   | 0  | (12./)  | 0   | (0.0)  | 0  | (23.0)  | 0                | (1.0)                           | 0   | (0.0)  |
| Lithuania  | 248  | 101  | (40.7)   | 55   | (22.2)  | 25  | (10.1)   | 52   | (21.0)  | 15               | (6.0)                           | 0   | (0.0)  |
| Luxembourg   | 0  | 0  | (40.7)   | 0  | (22.2)  | 0   | (10.1)   | 0  | (21.0)  | 0                | (0.0)                           | 0   | (0.0)  |
| Malta  | 1  | 0  | (0.0)  | 0  | (0.0)   | 0   | (0.0)  | 0  | (0.0)   | 0                | (0.0)                           | 1   | (100.0)  |
| Netherlands  | 10   | 6  | (60.0)   | 1  | (10.0)  | 0   | (0.0)  | 1  | (10.0)  | 0                | (0.0)                           | 2   | (20.0)   |
| Norway   | 6  | 6  | (100.0)  | 0  | (0.0)   | 0   | (0.0)  | 0  | (0.0)   | 0                | (0.0)                           | 0   | (0.0)  |
| Poland   |  | 16   | (35.6)   | 7  |   | 0   | (0.0)  |  | (2.2)   | 1                |                                 | 20  | (44.4)   |
| Portugal   | 45<br>26   | 9  | (34.6)   | 5  | (15.6)<br>(19.2)  | 0   | (0.0)  | 1  | (3.8)   | 5                | (2.2)                           | 6   |  |
| Romania  |  |  |  |  |   |   |  | 68   |   | 3                | (19.2)                          |   | (23.1)   |
|  | 588  | <i>259</i>   | (44.0)   | 95   | (16.2)  | 163   | (27.7)   | 0  | (11.6)  |                  | (0.5)                           | 0   | (0.0)  |
| Slovakia   |  |  | (33.3)   | 2  | (66.7)  |   | (0.0)  |  |   | 0                | (0.0)                           |   | (0.0)  |
| Slovenia   | 0  | 0  | -  | 0  | -   | 0   | -  | 0  | -   | 0                | -                               | 0   |  |
| Spain  | - 26   |  | (02.2)   |  | (0.0)   |   | (0.0)  | _  | (0.0)   |                  | (2.0)                           |   | (2.0)  |
| Sweden   | 26   | 24   | (92.3)   | 0  | (0.0)   | 0   | (0.0)  | 0  | (0.0)   | 1                | (3.8)                           | 1   | (3.8)  |
| United Kingdom   | 53<br><b>1330</b>  | 34<br><b>629</b>   | (64.2)   | 2  | (3.8)   | 0   | (0.0)  | 4  | (7.5)<br><b>(12.0)</b>  | 10               | (18.9)                          | 3<br><b>97</b>  | (5.7)  |
| Subtotal EU/EEA Non-EU/EEA   | 1 330  | 029  | (47.3)   | 196  | (14.7)  | 194   | (14.6)   | 159  | (12.0)  | 55               | (4.1)                           | 71  | (7.3)  |
| Albania  | 3  | 3  | (100.0)  | 0  | (0.0)   | 0   | (0.0)  | 0  | (0.0)   | _                | -                               | 0   | (0.0)  |
| Andorra  | J  | -  | (100.0)  | -  | (0.0)   | -   | (0.0)  | -  | (0.0)   | _                | _                               | -   | (0.0)  |
| Armenia  | 95   | 40   | (42.1)   | 7  | (7.4)   | 16  | (16.8)   | 31   | (32.6)  | _                | -                               | 1   | (1.1)  |
| Azerbaijan   | 800  | 473  | (59.1)   | 123  | (15.4)  | 143   | (17.9)   | 61   | (7.6)   | _                | _                               | 0   | (0.0)  |
| Belarus  | 1 400  | 899  | (64.2)   | 132  | (9.4)   | 218   | (17.9)   | 138  | (9.9)   | _                | -                               | 13  | (0.9)  |
| Bosnia and Herzegovina   | 1 400  | 1  | (100.0)  | 0  | (0.0)   | 0   | (0.0)  | 0 0  | (0.0)   | _                | -                               | 0   | (0.0)  |
| Georgia  | 412  | 231  | (56.1)   | 26   | (6.3)   | 42  | (10.2)   | 101  | (24.5)  | _                | -                               | 12  | (2.9)  |
| Israel   | 10   | 8  | (80.0)   |  |   |   |  |  | (0.0)   | _                | _                               |   | (20.0)   |
|  | 10   |  |  |  |   | 0   | (0 0)  |  |   |                  |                                 | 7   |  |
|  | 6 402  |  |  | 600  | (0.0)   | 205   | (0.0)  | 205  |   |                  |                                 | 120   |  |
| Kazakhstan   | 6 482  | 5 063  | (78.1)   | 609  | (9.4)   | 395   | (6.1)  | 285  | (4.4)   | -                | -                               | 130   | (2.0)  |
| Kyrgyzstan   | 6 482<br>1 162   | 5 063<br>624   |  |  |   | 395<br>124  |  |  |   |                  |                                 | 130   |  |
| <i>Kyrgyzstan</i><br>Monaco  | 1162   | 5 063<br>624<br>-  | (78.1)<br>(53.7)   | 609<br>145<br>-  | (9.4)<br>(12.5)   | 395<br>124<br>-   | (6.1)<br>(10.7)  | 285<br>269<br>-  | (4.4)<br>(23.1)   |                  |                                 | 130<br>0<br>-   | (2.0)  |
| Kyrgyzstan<br>Monaco<br>Montenegro   | 1162<br>-<br>1   | 5 063<br>624<br>-<br>1   | (78.1)<br>(53.7)<br>-<br>(100.0)   | 609<br>145<br>-<br>0   | (9.4)<br>(12.5)<br>-<br>(0.0)   | 395<br>124<br>-<br>0  | (6.1)<br>(10.7)<br>-<br>(0.0)  | 285<br>269<br>-<br>0   | (4.4)<br>(23.1)<br>-<br>(0.0)   | -<br>-<br>-      | -<br>-<br>-                     | 130<br>0<br>-<br>0  | (2.0)<br>(0.0)<br>(0.0)  |
| Kyrgyzstan<br>Monaco<br>Montenegro<br>North Macedonia  | 1162<br>-<br>1<br>5  | 5 063<br>624<br>-<br>1<br>2  | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)   | 609<br>145<br>-<br>0<br>1  | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)   | 395<br>124<br>-<br>0<br>0   | (6.1)<br>(10.7)<br>-<br>(0.0)<br>(0.0)   | 285<br>269<br>-<br>0<br>2  | (4.4)<br>(23.1)<br>-<br>(0.0)<br>(40.0)   | -<br>-<br>-<br>- | -                               | 130<br>0<br>-<br>0<br>0   | (2.0)<br>(0.0)<br>(0.0)<br>(0.0)   |
| Kyrgyzstan<br>Monaco<br>Montenegro<br>North Macedonia<br>Republic of Moldova   | 1162<br>-<br>1<br>5<br>996   | 5 063<br>624<br>-<br>1<br>2<br>487   | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)<br>(48.9)   | 609<br>145<br>-<br>0<br>1<br>120   | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)<br>(12.0)   | 395<br>124<br>-<br>0<br>0<br>177  | (6.1)<br>(10.7)<br>-<br>(0.0)<br>(0.0)<br>(17.8)   | 285<br>269<br>-<br>0<br>2<br>202   | (4.4)<br>(23.1)<br>-<br>(0.0)<br>(40.0)<br>(20.3)   | -                | -                               | 130<br>0<br>-<br>0<br>0<br>0  | (2.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)  |
| Kyrgyzstan<br>Monaco<br>Montenegro<br>North Macedonia<br>Republic of Moldova<br>Russian Federation   | 1162<br>-<br>1<br>5  | 5 063<br>624<br>-<br>1<br>2  | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)   | 609<br>145<br>-<br>0<br>1  | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)   | 395<br>124<br>-<br>0<br>0   | (6.1)<br>(10.7)<br>-<br>(0.0)<br>(0.0)   | 285<br>269<br>-<br>0<br>2  | (4.4)<br>(23.1)<br>-<br>(0.0)<br>(40.0)   | -                | -<br>-<br>-<br>-<br>-           | 130<br>0<br>-<br>0<br>0   | (2.0)<br>(0.0)<br>(0.0)<br>(0.0)   |
| Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino   | 1162<br>-<br>1<br>5<br>996<br>22 607   | 5 063<br>624<br>-<br>1<br>2<br>487<br>12 117   | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)<br>(48.9)<br>(53.6)   | 609<br>145<br>-<br>0<br>1<br>120<br>3 554  | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)<br>(12.0)<br>(15.7)   | 395<br>124<br>-<br>0<br>0<br>177<br>2 778   | (6.1)<br>(10.7)<br>-<br>(0.0)<br>(0.0)<br>(17.8)<br>(12.3)   | 285<br>269<br>-<br>0<br>2<br>202<br>1909   | (4.4)<br>(23.1)<br>-<br>(0.0)<br>(40.0)<br>(20.3)<br>(8.4)                                  | -                | -<br>-<br>-<br>-<br>-<br>-      | 130<br>0<br>-<br>0<br>0<br>0<br>10<br>2 249   | (2.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(1.0)<br>(9.9)  |
| Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia  | 1162<br>-<br>1<br>5<br>996<br>22 607<br>-<br>10                                      | 5 063<br>624<br>-<br>1<br>2<br>487<br>12 117<br>-<br>9   | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)<br>(48.9)   | 609<br>145<br>-<br>0<br>1<br>120<br>3 554<br>-<br>0  | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)<br>(12.0)   | 395<br>124<br>-<br>0<br>0<br>177  | (6.1)<br>(10.7)<br>-<br>(0.0)<br>(0.0)<br>(17.8)   | 285<br>269<br>-<br>0<br>2<br>202<br>1909<br>-<br>0   | (4.4)<br>(23.1)<br>-<br>(0.0)<br>(40.0)<br>(20.3)   | -                | -<br>-<br>-<br>-<br>-           | 130<br>0<br>-<br>0<br>0<br>10<br>2 249<br>-<br>0  | (2.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(1.0)<br>(9.9)  |
| Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding   | 1162<br>-<br>1<br>5<br>996<br>22 607   | 5 063<br>624<br>-<br>1<br>2<br>487<br>12 117   | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)<br>(48.9)<br>(53.6)   | 609<br>145<br>-<br>0<br>1<br>120<br>3 554  | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)<br>(12.0)<br>(15.7)   | 395<br>124<br>-<br>0<br>0<br>177<br>2 778   | (6.1)<br>(10.7)<br>-<br>(0.0)<br>(0.0)<br>(17.8)<br>(12.3)   | 285<br>269<br>-<br>0<br>2<br>202<br>1909   | (4.4)<br>(23.1)<br>-<br>(0.0)<br>(40.0)<br>(20.3)<br>(8.4)                                  | -                | -<br>-<br>-<br>-<br>-<br>-      | 130<br>0<br>-<br>0<br>0<br>0<br>10<br>2 249   | (2.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(1.0)<br>(9.9)  |
| Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo <sup>4</sup>   | 1162<br>-<br>1<br>5<br>996<br>22 607<br>-<br>10                                      | 5 063<br>624<br>-<br>1<br>2<br>487<br>12 117<br>-<br>9   | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)<br>(48.9)<br>(53.6)<br>-<br>(90.0)  | 609<br>145<br>-<br>0<br>1<br>120<br>3554<br>-<br>0   | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)<br>(12.0)<br>(15.7)<br>-<br>(0.0)   | 395<br>124<br>-<br>0<br>0<br>177<br>2778<br>-<br>1  | (6.1)<br>(10.7)<br>(0.0)<br>(0.0)<br>(17.8)<br>(12.3)<br>(10.0)  | 285<br>269<br>-<br>0<br>2<br>202<br>1909<br>-<br>0   | (4.4)<br>(23.1)<br>-<br>(0.0)<br>(40.0)<br>(20.3)<br>(8.4)<br>-<br>(0.0)                    | -                | -<br>-<br>-<br>-<br>-<br>-      | 130<br>0<br>-<br>0<br>0<br>10<br>2 249<br>-<br>0  | (2.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(1.0)<br>(9.9)<br>(0.0)  |
| Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo <sup>d</sup> Kosovo <sup>d</sup>   | 1162<br>-<br>1<br>5<br>996<br>22 607<br>-<br>10<br>5                                 | 5 063<br>624<br>-<br>1<br>2<br>487<br>12 117<br>-<br>9<br>4  | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)<br>(48.9)<br>(53.6)<br>-<br>(90.0)  | 609<br>145<br>-<br>0<br>1<br>120<br>3 554<br>-<br>0<br>0   | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)<br>(12.0)<br>(15.7)<br>-<br>(0.0)   | 395<br>124<br>-<br>0<br>0<br>177<br>2778<br>-<br>1<br>1                                       | (6.1)<br>(10.7)<br>-<br>(0.0)<br>(0.0)<br>(17.8)<br>(12.3)<br>-<br>(10.0)  | 285<br>269<br>-<br>0<br>2<br>202<br>1909<br>-<br>0<br>0  | (4.4)<br>(23.1)<br>-<br>(0.0)<br>(40.0)<br>(20.3)<br>(8.4)<br>-<br>(0.0)                    | -                | -                               | 130<br>0<br>-<br>0<br>0<br>10<br>2 249<br>-<br>0<br>0   | (2.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(1.0)<br>(9.9)<br>(0.0)  |
| Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo <sup>d</sup> Kosovo <sup>d</sup> Switzerland   | 1162<br>-<br>1<br>5<br>996<br>22 607<br>-<br>10<br>5<br>5                            | 5 063<br>624<br><br>1 1<br>2 2<br>487<br>12 117<br><br>9 4<br>5  | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)<br>(48.9)<br>(53.6)<br>-<br>(90.0)<br>(100.0)<br>(43.8)   | 609<br>145<br><br>0<br>1<br>120<br>3554<br><br>0<br>0  | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)<br>(12.0)<br>(15.7)<br>-<br>(0.0)   | 395<br>124<br>-<br>0<br>0<br>177<br>2778<br>-<br>1<br>1<br>0                                  | (6.1)<br>(10.7)<br>-<br>(0.0)<br>(0.0)<br>(17.8)<br>(12.3)<br>-<br>(10.0)<br>(0.0)   | 285<br>269<br>-<br>0<br>2<br>202<br>1909<br>-<br>0<br>0  | (4.4)<br>(23.1)<br>-<br>(0.0)<br>(40.0)<br>(20.3)<br>(8.4)<br>-<br>(0.0)<br>(6.3)           | -                | -<br>-<br>-<br>-<br>-<br>-<br>- | 130<br>0<br>-<br>0<br>0<br>10<br>2249<br>-<br>0<br>0  | (2.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(1.0)<br>(9.9)<br>-<br>(0.0)<br>(50.0)   |
| Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo <sup>d</sup> Kosovo <sup>d</sup> Switzerland Tajikistan  | 1162<br>-<br>1<br>5<br>996<br>22 607<br>-<br>10<br>5<br>5<br>16<br>682               | 5 063<br>624<br>-<br>1<br>2<br>487<br>12 117<br>-<br>9<br>4<br>5<br>7  | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)<br>(48.9)<br>(53.6)<br>-<br>(90.0)<br>(100.0)<br>(43.8)<br>(58.4)   | 609<br>145<br>-<br>0<br>1<br>120<br>3 554<br>-<br>0<br>0   | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)<br>(12.0)<br>(15.7)<br>-<br>(0.0)<br>(0.0)<br>(17.9)  | 395<br>124<br><br>0<br>0<br>177<br>2778<br><br>1<br>1<br>0<br>0<br>0<br>54                    | (6.1)<br>(10.7)<br>-<br>(0.0)<br>(0.0)<br>(17.8)<br>(12.3)<br>-<br>(10.0)<br>(0.0)<br>(0.0)<br>(7.9)                             | 285<br>269<br>-<br>0<br>2<br>202<br>1909<br>-<br>0<br>0  | (4.4)<br>(23.1)<br>-<br>(0.0)<br>(40.0)<br>(20.3)<br>(8.4)<br>-<br>(0.0)<br>(6.3)<br>(14.7) | -                | -                               | 130<br>0<br>-<br>0<br>0<br>10<br>2 249<br>-<br>0<br>0<br>0<br>8<br>8                              | (2.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(1.0)<br>(9.9)<br>-<br>(0.0)<br>(50.0)<br>(1.2)  |
| Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo <sup>4</sup> Kosovo <sup>4</sup> Switzerland Tajikistan Turkey                                 | 1162<br>-<br>1<br>5<br>996<br>22 607<br>-<br>10<br>5<br>5<br>16<br>682<br>230        | 5 063<br>624<br>-<br>1<br>2<br>487<br>12 117<br>-<br>9<br>4<br>5<br>7<br>398<br>156                            | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)<br>(48.9)<br>(53.6)<br>-<br>(90.0)<br>(100.0)<br>(43.8)<br>(58.4)<br>(67.8)                               | 609<br>145<br><br>0<br>1<br>120<br>3 554<br><br>0<br>0<br>0<br>0<br>122<br>15                        | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)<br>(12.0)<br>(15.7)<br>-<br>(0.0)<br>(0.0)<br>(17.9)<br>(6.5)                               | 395<br>124<br><br>0<br>0<br>177<br>2778<br><br>1<br>1<br>0<br>0<br>54                         | (6.1)<br>(10.7)<br>(0.0)<br>(0.0)<br>(17.8)<br>(12.3)<br>(10.0)<br>(0.0)<br>(0.0)<br>(7.9)<br>(7.8)                              | 285<br>269<br>-<br>0<br>2<br>202<br>1909<br>-<br>0<br>0<br>0<br>1<br>100<br>26                 | (4.4) (23.1) - (0.0) (40.0) (20.3) (8.4) - (0.0) (6.3) (14.7) (11.3)                        | -                | -                               | 130<br>0<br>-<br>0<br>0<br>10<br>2 249<br>-<br>0<br>0<br>0<br>8<br>8<br>15                        | (2.0, (0.0) (0.0) (0.0) (0.0) (0.0) (0.0) (50.0) (1.2, (6.5, 5.0) (6.5, 5.0) (6.6, 5.0)  |
| Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo <sup>d</sup> Kosovo <sup>d</sup> Switzerland Tajikistan Turkey Turkmenistan                    | 1162<br>-<br>1<br>5<br>996<br>22 607<br>-<br>10<br>5<br>5<br>16<br>682<br>230<br>210 | 5 063<br>624<br>-<br>1<br>2<br>487<br>12 117<br>-<br>9<br>4<br>5<br>7<br>398<br>156                            | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)<br>(48.9)<br>(53.6)<br>-<br>(90.0)<br>(100.0)<br>(43.8)<br>(58.4)<br>(67.8)<br>(67.6)                     | 609<br>145<br>-<br>0<br>1<br>120<br>3 554<br>-<br>0<br>0<br>0<br>0<br>122<br>15<br>23                | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)<br>(12.0)<br>(15.7)<br>-<br>(0.0)<br>(0.0)<br>(0.0)<br>(17.9)<br>(6.5)<br>(11.0)            | 395<br>124<br>-<br>0<br>0<br>177<br>2778<br>-<br>1<br>1<br>0<br>0<br>54<br>18<br>31           | (6.1)<br>(10.7)<br>-<br>(0.0)<br>(0.0)<br>(17.8)<br>(12.3)<br>-<br>(10.0)<br>(0.0)<br>(0.0)<br>(7.9)<br>(7.8)<br>(14.8)          | 285<br>269<br>-<br>0<br>2<br>202<br>1909<br>-<br>0<br>0<br>1<br>100<br>26<br>14                | (4.4) (23.1) - (0.0) (40.0) (20.3) (8.4) - (0.0) (6.3) (14.7) (11.3) (6.7)                  |                  | -                               | 130<br>0<br>-<br>0<br>0<br>10<br>2 249<br>-<br>0<br>0<br>0<br>8<br>8<br>15<br>0                   | (2.0, (0.0) (0.0) (0.0) (1.0, (0.0) (0.0) (1.0, (0.0) (1.2, (6.5, (0.0, 0.0) (1.2, (0.0) ( |
| Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo <sup>d</sup> Kosovo <sup>d</sup> Switzerland Tajikistan Turkey Turkmenistan Ukraine            | 1162<br>   | 5 063<br>624<br>-<br>1<br>2<br>487<br>12 117<br>-<br>9<br>4<br>5<br>7<br>7<br>398<br>156<br>142<br>3 855       | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)<br>(48.9)<br>(53.6)<br>-<br>(90.0)<br>(100.0)<br>(43.8)<br>(58.4)<br>(67.8)<br>(67.8)<br>(67.6)<br>(50.8) | 609<br>145<br>-<br>0<br>1<br>120<br>3 554<br>-<br>0<br>0<br>0<br>0<br>122<br>15<br>23<br>1193        | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)<br>(12.0)<br>(15.7)<br>-<br>(0.0)<br>(0.0)<br>(17.9)<br>(6.5)<br>(11.0)<br>(15.7)           | 395<br>124<br>-<br>0<br>0<br>177<br>2 778<br>-<br>1<br>1<br>0<br>0<br>54<br>18<br>31<br>1 220 | (6.1)<br>(10.7)<br>(0.0)<br>(0.0)<br>(17.8)<br>(12.3)<br>(10.0)<br>(0.0)<br>(0.0)<br>(7.9)<br>(7.8)<br>(14.8)<br>(16.1)          | 285<br>269<br>-<br>0<br>2<br>202<br>1909<br>-<br>0<br>0<br>1<br>100<br>26<br>14<br>1257        | (4.4) (23.1) - (0.0) (40.0) (20.3) (8.4) - (0.0) (6.3) (14.7) (11.3) (6.7) (16.6)           |                  | -                               | 130<br>0<br>-<br>0<br>0<br>10<br>10<br>2 249<br>-<br>0<br>0<br>0<br>8<br>8<br>8<br>15<br>0<br>67  | (2.0),<br>(0.0),<br>(0.0),<br>(0.0),<br>(1.0),<br>(0.0),<br>(0.0),<br>(50.0),<br>(6.5),<br>(0.0),<br>(0.9),  |
| Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo <sup>d</sup> Kosovo <sup>d</sup> Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan | 1162<br>   | 5 063<br>624<br>-<br>1 2<br>487<br>12 117<br>-<br>9<br>4<br>5<br>7<br>7<br>398<br>156<br>142<br>3 855<br>1 259 | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)<br>(48.9)<br>(53.6)<br>-<br>(90.0)<br>(100.0)<br>(43.8)<br>(58.4)<br>(67.8)<br>(67.8)<br>(50.8)<br>(58.6) | 609<br>145<br>-<br>0<br>1<br>120<br>3 554<br>-<br>0<br>0<br>0<br>0<br>122<br>15<br>23<br>1193<br>357 | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)<br>(12.0)<br>(15.7)<br>-<br>(0.0)<br>(0.0)<br>(17.9)<br>(6.5)<br>(11.0)<br>(15.7)<br>(16.6) | 395<br>124<br>-<br>0<br>0<br>177<br>2 778<br>-<br>1<br>1<br>0<br>0<br>54<br>18<br>31<br>1 220 | (6.1)<br>(10.7)<br>(0.0)<br>(0.0)<br>(17.8)<br>(12.3)<br>(10.0)<br>(0.0)<br>(0.0)<br>(7.9)<br>(7.8)<br>(14.8)<br>(16.1)<br>(7.1) | 285<br>269<br>-<br>0<br>2<br>202<br>1909<br>-<br>0<br>0<br>1<br>100<br>26<br>14<br>1257<br>167 | (4.4) (23.1) - (0.0) (40.0) (20.3) (8.4) - (0.0) (6.3) (14.7) (11.3) (6.7) (16.6) (7.8)     |                  |                                 | 130<br>0<br>-<br>0<br>0<br>10<br>2 249<br>-<br>0<br>0<br>0<br>8<br>8<br>8<br>15<br>0<br>67<br>213 | (2.0, (0.0, (0.0)  |
| Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosovo <sup>d</sup> Kosovo <sup>d</sup> Switzerland Tajikistan Turkey Turkmenistan Ukraine            | 1162<br>   | 5 063<br>624<br>-<br>1<br>2<br>487<br>12 117<br>-<br>9<br>4<br>5<br>7<br>7<br>398<br>156<br>142<br>3 855       | (78.1)<br>(53.7)<br>-<br>(100.0)<br>(40.0)<br>(48.9)<br>(53.6)<br>-<br>(90.0)<br>(100.0)<br>(43.8)<br>(58.4)<br>(67.8)<br>(67.8)<br>(67.6)<br>(50.8) | 609<br>145<br>-<br>0<br>1<br>120<br>3 554<br>-<br>0<br>0<br>0<br>0<br>122<br>15<br>23<br>1193        | (9.4)<br>(12.5)<br>-<br>(0.0)<br>(20.0)<br>(12.0)<br>(15.7)<br>-<br>(0.0)<br>(0.0)<br>(17.9)<br>(6.5)<br>(11.0)<br>(15.7)           | 395<br>124<br>-<br>0<br>0<br>177<br>2 778<br>-<br>1<br>1<br>0<br>0<br>54<br>18<br>31<br>1 220 | (6.1)<br>(10.7)<br>(0.0)<br>(0.0)<br>(17.8)<br>(12.3)<br>(10.0)<br>(0.0)<br>(0.0)<br>(7.9)<br>(7.8)<br>(14.8)<br>(16.1)          | 285<br>269<br>-<br>0<br>2<br>202<br>1909<br>-<br>0<br>0<br>1<br>100<br>26<br>14<br>1257        | (4.4) (23.1) - (0.0) (40.0) (20.3) (8.4) - (0.0) (6.3) (14.7) (11.3) (6.7) (16.6)           |                  | -                               | 130<br>0<br>-<br>0<br>0<br>10<br>10<br>2 249<br>-<br>0<br>0<br>0<br>8<br>8<br>8<br>15<br>0<br>67  | (2.0, (0.0, (0.0)  |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs are presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required.

HPCs = high-priority countries.

RR/MDR-TB = rifampicin-resistant and multidrug-resistant tuberculosis.

For EU/EEA countries, cases diagnosed postmortem are excluded, and cases with no treatment enrolment data reported are assumed to be enrolled to treatment.

In previous reports defined as "defaulted".

In previous reports defined as "transferred out and unknown".

(In accordance with Security Council Resolution 1244 (1999)).

Table 23. Treatment outcome after 24 months of laboratory-confirmed MDR-TB cases notified in 2015, EU/EEA, 2017

|                | All MDR-TB             | Succ | ess     | Die | d       | Faile | ed     | Lost to fol | low-up <sup>b</sup> | Still on tr | eatment | Not eval | uated <sup>c</sup> |
|----------------|------------------------|------|---------|-----|---------|-------|--------|-------------|---------------------|-------------|---------|----------|--------------------|
| Country        | cases notified in 2015 | N    | (%)     | N   | (%)     | N     | (%)    | N           | (%)                 | N           | (%)     | N        | (%)                |
| EU/EEA         |                        |      |         |     |         |       |        |             |                     |             |         |          |                    |
| Austria        | 12                     | 11   | (91.7)  | 0   | (0.0)   | 0     | (0.0)  | 0           | (0.0)               | 0           | (0.0)   | 1        | (8.3)              |
| Belgium        | 15                     | 15   | (100.0) | 0   | (0.0)   | 0     | (0.0)  | 0           | (0.0)               | 0           | (0.0)   | 0        | (0.0)              |
| Bulgaria       | 24                     | 14   | (58.3)  | 5   | (20.8)  | 2     | (8.3)  | 3           | (12.5)              | 0           | (0.0)   | 0        | (0.0)              |
| Croatia        | 1                      | 1    | (100.0) | 0   | (0.0)   | 0     | (0.0)  | 0           | (0.0)               | 0           | (0.0)   | 0        | (0.0)              |
| Cyprus         | 0                      | 0    | -       | 0   | -       | 0     | -      | 0           | -                   | 0           | -       | 0        | -                  |
| Czech Republic | 9                      | 3    | (33.3)  | 1   | (11.1)  | 0     | (0.0)  | 1           | (11.1)              | 2           | (22.2)  | 2        | (22.2)             |
| Denmark        | 6                      | 0    | (0.0)   | 0   | (0.0)   | 1     | (16.7) | 0           | (0.0)               | 0           | (0.0)   | 5        | (83.3)             |
| Estonia        | 38                     | 20   | (52.6)  | 8   | (21.1)  | 3     | (7.9)  | 4           | (10.5)              | 3           | (7.9)   | 0        | (0.0)              |
| Finland        | 8                      | 3    | (37.5)  | 0   | (0.0)   | 0     | (0.0)  | 0           | (0.0)               | 1           | (12.5)  | 4        | (50.0)             |
| France         | -                      | -    | -       | -   | -       | -     | -      | -           | -                   | -           | -       | -        | -                  |
| Germany        | 110                    | 44   | (40.0)  | 5   | (4.5)   | 0     | (0.0)  | 7           | (6.4)               | 11          | (10.0)  | 43       | (39.1)             |
| Greece         | _                      | -    | -       | -   | -       | -     | -      | -           | -                   | -           | -       | -        | _                  |
| Hungary        | 8                      | 2    | (25.0)  | 4   | (50.0)  | 0     | (0.0)  | 1           | (12.5)              | 1           | (12.5)  | 0        | (0.0)              |
| Iceland        | 0                      | 0    | -       | 0   | -       | 0     | -      | 0           | -                   | 0           | -       | 0        | _                  |
| Ireland        | 1                      | 0    | (0.0)   | 0   | (0.0)   | 0     | (0.0)  | 0           | (0.0)               | 1           | (100.0) | 0        | (0.0)              |
| Italy          | -                      | -    | -       | -   | -       | -     | -      | -           | -                   | -           | -       | -        | -                  |
| Latvia         | 63                     | 39   | (61.9)  | 8   | (12.7)  | 0     | (0.0)  | 15          | (23.8)              | 1           | (1.6)   | 0        | (0.0)              |
| Liechtenstein  | 0                      | 0    | -       | 0   | -       | 0     | -      | 0           | -                   | 0           | -       | 0        | -                  |
| Lithuania      | 241                    | 95   | (39.4)  | 55  | (22.8)  | 25    | (10.4) | 51          | (21.2)              | 15          | (6.2)   | 0        | (0.0)              |
| Luxembourg     | 0                      | 0    | -       | 0   | -       | 0     | -      | 0           | -                   | 0           | -       | 0        | -                  |
| Malta          | 1                      | 0    | (0.0)   | 0   | (0.0)   | 0     | (0.0)  | 0           | (0.0)               | 0           | (0.0)   | 1        | (100.0)            |
| Netherlands    | 8                      | 4    | (50.0)  | 1   | (12.5)  | 0     | (0.0)  | 1           | (12.5)              | 0           | (0.0)   | 2        | (25.0)             |
| Norway         | 5                      | 5    | (100.0) | 0   | (0.0)   | 0     | (0.0)  | 0           | (0.0)               | 0           | (0.0)   | 0        | (0.0)              |
| Poland         | 35                     | 11   | (31.4)  | 6   | (17.1)  | 0     | (0.0)  | 1           | (2.9)               | 1           | (2.9)   | 16       | (45.7)             |
| Portugal       | 23                     | 7    | (30.4)  | 5   | (21.7)  | 0     | (0.0)  | 1           | (4.3)               | 5           | (21.7)  | 5        | (21.7)             |
| Romania        | 537                    | 222  | (41.3)  | 94  | (17.5)  | 157   | (29.2) | 61          | (11.4)              | 3           | (0.6)   | 0        | (0.0)              |
| Slovakia       | 2                      | 0    | (0.0)   | 2   | (100.0) | 0     | (0.0)  | 0           | (0.0)               | 0           | (0.0)   | 0        | (0.0)              |
| Slovenia       | 0                      | 0    | -       | 0   | -       | 0     | _      | 0           | _                   | 0           | -       | 0        | _                  |
| Spain          | -                      | -    | -       | -   | -       | -     | -      | -           | -                   | -           | -       | -        | -                  |
| Sweden         | 22                     | 20   | (90.9)  | 0   | (0.0)   | 0     | (0.0)  | 0           | (0.0)               | 1           | (4.5)   | 1        | (4.5)              |
| United Kingdom | 48                     | 29   | (60.4)  | 3   | (6.3)   | 0     | (0.0)  | 3           | (6.3)               | 10          | (20.8)  | 3        | (6.3)              |
| Total EU/EEA   | 1 217                  | 545  | (44.8)  | 197 | (16.2)  | 188   | (15.4) | 149         | (12.2)              | 55          | (4.5)   | 83       | (6.8)              |

Notes: WHO European Region TB HPCs are presented in italics. Country data are shown as missing (–) when data on treatment outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required.

HPCs = high-priority countries.

MDR-TB = multidrug-resistant tuberculosis.

\* Laboratory-confirmed cases – culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases.

b In previous reports defined as "defaulted".

c In previous reports defined as "transferred out and unknown".

Table 24. Treatment outcome after 24 months of XDR-TB cases started on second-line treatment in 2015, European Region, 2017

| Country/area                         | XDR-TB cases<br>started on<br>second-line | Succ  | ess     | Die | d      | Faile | ed     | Lost to foll | low-up <sup>b</sup> | Still on tr | eatment | Not eval | uated   |
|--------------------------------------|---|-------|---------|-----|--------|-------|--------|--------------|---------------------|-------------|---------|----------|---------|
| Country/area                         | treatment in                              | N     | (%)     | N   | (%)    | N     | (%)    | N            | (%)                 | N           | (%)     | N        | (%)     |
| EU/EEA                               |   |       |         |     |        |       |        |              |                     |             |         |          |         |
| Austria                              | 1   | 1     | (100.0) | 0   | (0.0)  | 0     | (0.0)  | 0            | (0.0)               | 0           | (0.0)   | 0        | (0.0)   |
| Belgium                              | 2   | 2     | (100.0) | 0   | (0.0)  | 0     | (0.0)  | 0            | (0.0)               | 0           | (0.0)   | 0        | (0.0)   |
| Bulgaria                             | 4   | 2     | (50.0)  | 0   | (0.0)  | 0     | (0.0)  | 2            | (50.0)              | 0           | (0.0)   | 0        | (0.0)   |
| Croatia                              | 0   | 0     | -       | 0   | -      | 0     | _      | 0            | _                   | 0           | -       | 0        | _       |
| Cyprus                               | 0   | 0     | -       | 0   | -      | 0     | _      | 0            | _                   | 0           | -       | 0        | _       |
| Czech Republic                       | 1   | 0     | (0.0)   | 0   | (0.0)  | 0     | (0.0)  | 0            | (0.0)               | 1           | (100.0) | 0        | (0.0)   |
| Denmark                              | 1   | 0     | (0.0)   | 0   | (0.0)  | 0     | (0.0)  | 0            | (0.0)               | 0           | (0.0)   | 1        | (100.0) |
| Estonia                              | 9   | 3     | (33.3)  | 2   | (22.2) | 2     | (22.2) | 0            | (0.0)               | 2           | (22.2)  | 0        | (0.0)   |
| Finland                              | 1   | 0     | (0.0)   | 0   | (0.0)  | 0     | (0.0)  | 0            | (0.0)               | 0           | (0.0)   | 1        | (100.0) |
| France                               |   | _     | -       | _   | -      | _     | (0.0)  | _            | (0.0)               | _           | -       | _        | (.0010) |
| Germany                              | 9   | 3     | (33.3)  | 0   | (0.0)  | 0     | (0.0)  | 0            | (0.0)               | 1           | (11.1)  | 5        | (55.6)  |
| Greece                               | 0   | 0     | ()).))  | 0   | (0.0)  | 0     | (0.0)  | 0            | (0.0)               | 0           | (11.1)  | 0        | ()).0)  |
| Hungary                              | 1   | 0     | (0.0)   | 0   | (0.0)  | 0     | (0.0)  | 0            | (0.0)               | 1           | (100.0) | 0        | (0.0)   |
| Iceland                              | 0   | 0     | (0.0)   | 0   | (0.0)  | 0     | (0.0)  | 0            | (0.0)               | 0           | (100.0) | 0        | (0.0)   |
|                                      | 0   | 0     | -       | 0   | -      | 0     |        | 0            | _                   | 0           | -       | 0        |         |
| Ireland                              | 0   | 0     | _       |     | _      |       | -      |              |                     |             | _       |          |         |
| Italy                                | 16  | 8     | (50.0)  | 3   | (18.8) | 0     | (0.0)  | 5            | (31.3)              | - 0         | (0.0)   | 0        | (0.0)   |
| Latvia                               |   |       | (50.0)  |     | (18.8) |       | (0.0)  |              | (31.3)              |             | (0.0)   |          | (0.0)   |
| Liechtenstein                        | 0   | 0     | (2.1)   | 0   | (27.0) | 0     | (41.0) | 0            | (4:0)               | 0           | (25.1)  | 0        | (0.0)   |
| Lithuania                            | 59  | 2     | (3.4)   | 22  | (37.3) | 10    | (16.9) | 10           | (16.9)              | 15          | (25.4)  | 0        | (0.0)   |
| Luxembourg                           | 0   | 0     | -       | 0   | -      | 0     | -      | 0            | -                   | 0           | -       | 0        | _       |
| Malta                                | 0   | 0     | -       | 0   | -      | 0     | -      | 0            | -                   | 0           | -       | 0        | -       |
| Netherlands                          | 0   | 0     | -       | 0   | -      | 0     | -      | 0            | -                   | 0           | -       | 0        | -       |
| Norway                               | 0   | 0     | -       | 0   | -      | 0     | -      | 0            | -                   | 0           | -       | 0        | -       |
| Poland                               | 4   | 3     | (75.0)  | 0   | (0.0)  | 0     | (0.0)  | 0            | (0.0)               | 0           | (0.0)   | 1        | (25.0)  |
| Portugal                             | 6   | 1     | (16.7)  | 1   | (16.7) | 0     | (0.0)  | 1            | (16.7)              | 2           | (33.3)  | 1        | (16.7)  |
| Romania                              | 71  | 28    | (39.4)  | 10  | (14.1) | 28    | (39.4) | 5            | (7.0)               | 0           | (0.0)   | 0        | (0.0)   |
| Slovakia                             | 0   | 0     | -       | 0   | -      | 0     | -      | 0            | -                   | 0           | -       | 0        | -       |
| Slovenia                             | 0   | 0     | -       | 0   | -      | 0     | -      | 0            | -                   | 0           | -       | 0        | -       |
| Spain                                | -   | -     | -       | -   | -      | -     | -      | -            | -                   | -           | -       | -        | -       |
| Sweden                               | 1   | 0     | (0.0)   | 0   | (0.0)  | 0     | (0.0)  | 0            | (0.0)               | 1           | (100.0) | 0        | (0.0)   |
| United Kingdom                       | 8   | 2     | (25.0)  | 1   | (12.5) | 0     | (0.0)  | 0            | (0.0)               | 5           | (62.5)  | 0        | (0.0)   |
| Subtotal EU/EEA                      | 194                                       | 55    | (28.4)  | 39  | (20.1) | 40    | (20.6) | 23           | (11.9)              | 28          | (14.4)  | 9        | (4.6)   |
| Non-EU/EEA                           |   |       |         |     |        |       |        |              |                     |             |         |          |         |
| Albania                              | -   | -     | -       | -   | -      | -     | -      | -            | -                   | -           | -       | -        | _       |
| Andorra                              | -   | -     | -       | -   | -      | -     | _      | -            | _                   | _           | -       | _        | _       |
| Armenia                              | 8   | 4     | (50.0)  | 1   | (12.5) | 0     | (0.0)  | 1            | (12.5)              | -           | -       | 2        | (25.0)  |
| Azerbaijan                           | -   | _     | -       | -   | -      | -     | -      | -            | -                   | -           | -       | _        | _       |
| Belarus                              | 508                                       | 268   | (52.8)  | 52  | (10.2) | 150   | (29.5) | 31           | (6.1)               | -           | -       | 7        | (1.4)   |
| Bosnia and Herzegovina               | -   | -     | -       | -   | -      | -     | -      | -            | -                   | -           | -       | _        | -       |
| Georgia                              | 62  | 35    | (56.5)  | 6   | (9.7)  | 10    | (16.1) | 9            | (14.5)              | _           | -       | 2        | (3.2)   |
| Israel                               | 1   | 1     | (100.0) | 0   | (0.0)  | 0     | (0.0)  | 0            | (0.0)               | _           | -       | 0        | (0.0)   |
| Kazakhstan                           | 391                                       | 126   | (32.2)  | 85  | (21.7) | 129   | (33.0) | 21           | (5.4)               | _           | -       | 30       | (7.7)   |
| Kyrgyzstan                           | 51  | 9     | (17.6)  | 19  | (37.3) | 11    | (21.6) | 12           | (23.5)              | _           | _       | 0        | (0.0)   |
| Monaco                               | )1  | -     | (17.0)  | -   | (3/.3) |       | (21.0) | -            | (23.3)              |             | _       | U        | (0.0)   |
| Montenegro                           | _   | _     | _       | -   | _      | -     | _      | _            | _                   | _           | _       | -        | _       |
|                                      | _   | _     | -       | _   | _      | _     | -      | _            | _                   | _           | _       | _        | _       |
| North Macedonia                      | 32  | 5     |         | - 0 |        | 16    | (50.0) | 3            | (0.4)               | _           | -       | - 0      | (0.0)   |
| Republic of Moldova                  |   |       | (15.6)  | 8   | (25.0) |       | (50.0) |              | (9.4)               | -           |         |          | (0.0)   |
| Russian Federation                   | 2 882                                     | 960   | (33.3)  | 628 | (21.8) | 610   | (21.2) | 218          | (7.6)               | -           | -       | 466      | (16.2)  |
| San Marino                           | -   | -     | -       | -   | -      | -     | -      | -            | -                   | -           | -       | -        | -       |
| Serbia                               | -   | -     | -       | -   | -      | -     | -      | -            | -                   | -           | -       | -        | _       |
| Serbia excluding Kosovo <sup>d</sup> | -   | -     | -       | -   | -      | -     | -      | -            | -                   | -           | -       | -        | -       |
| Kosovo <sup>d</sup>                  | -   | -     | -       | -   | -      | -     | -      | -            | -                   | -           | -       | -        | -       |
| Switzerland                          | -   | -     | -       | -   | -      | -     | -      | -            | -                   | -           | -       | -        | -       |
| Tajikistan                           | -   | -     | -       | -   | -      | -     | -      | -            | -                   | -           | -       | -        | _       |
| Turkey                               | 3   | 2     | (66.7)  | -   | -      | 0     | (0.0)  | 0            | (0.0)               | -           | -       | 1        | (33.3)  |
| Turkmenistan                         | -   | -     | -       | -   | -      | -     | -      | -            | -                   | -           | -       | -        | -       |
| Ukraine                              | 1206                                      | 424   | (35.2)  | -   | -      | 434   | (36.0) | 145          | (12.0)              | -           | -       | 12       | (1.0)   |
| Uzbekistan                           | 147                                       | 34    | (23.1)  | -   | -      | 11    | (7.5)  | 15           | (10.2)              | -           | -       | 26       | (17.7)  |
| Subtotal non-EU/EEA                  | 5 291                                     | 1868  | (35.3)  | 799 | (15.1) | 1 371 | (25.9) | 455          | (8.6)               | 0           | (0.0)   | 546      | (10.3)  |
| Total European Region                | 5 485                                     | 1 923 | (35.1)  | 838 | (15.3) | 1 411 | (25.7) | 478          | (8.7)               | 28          | (0.5)   | 555      | (10.1)  |
| Subtotal 18 HPCs                     | 5 449                                     | 1 910 | (35.1)  | 836 | (15.3) | 1 411 | (25.9) | 477          | (8.8)               | 17          | (0.3)   | 546      | (10.0)  |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB high-priority countries are presented in Italics. EU/EEA: country data are shown as missing (–) when data on treatment outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required.

HPCs = high-priority countries.

XDR TB = extensively drug-resistant tuberculosis.

For EU/EEA countries, cases diagnosed postmortem are excluded, and cases with no treatment enrolment data reported are assumed to be enrolled to treatment.

In previous reports defined as "defaulted".

In previous reports defined as "transferred out and unknown".

(In accordance with Security Council Resolution 1244 (1999)).

Table 25. Treatment outcome after 36 months of XDR-TB notified in 2014, EU/EEA, 2017

| Country        | XDR-TB<br>notified in | Succe | ess     | Die | d       | Faile | ed     | Lost to fol | low-up <sup>a</sup> | Not eval | uated <sup>b</sup> |
|----------------|-----------------------|-------|---------|-----|---------|-------|--------|-------------|---------------------|----------|--------------------|
|                | 2014                  | N     | (%)     | N   | (%)     | N     | (%)    | N           | (%)                 | N        | (%)                |
| EU/EEA         |                       |       |         |     |         |       |        |             |                     |          |                    |
| Austria        | 2                     | 2     | (100.0) | 0   | (0.0)   | 0     | (0.0)  | 0           | (0.0)               | 0        | (0.0)              |
| Belgium        | 1                     | 1     | (100.0) | 0   | (0.0)   | 0     | (0.0)  | 0           | (0.0)               | 0        | (0.0)              |
| Bulgaria       | 3                     | 0     | (0.0)   | 2   | (66.7)  | 0     | (0.0)  | 0           | (0.0)               | 1        | (33.3)             |
| Croatia        | 0                     | 0     | -       | 0   | -       | 0     | -      | 0           | -                   | 0        | -                  |
| Cyprus         | 0                     | 0     | -       | 0   | -       | 0     | -      | 0           | -                   | 0        | -                  |
| Czech Republic | 0                     | 0     | -       | 0   | -       | 0     | -      | 0           | -                   | 0        | -                  |
| Denmark        | 0                     | 0     | -       | 0   | -       | 0     | -      | 0           | -                   | 0        | -                  |
| Estonia        | 8                     | 3     | (37.5)  | 1   | (12.5)  | 3     | (37.5) | 0           | (0.0)               | 1        | (12.5)             |
| Finland        | -                     | -     | -       | -   | -       | -     | -      | -           | -                   | -        | -                  |
| France         | _                     | -     | -       | -   | -       | -     | -      | -           | -                   | -        | -                  |
| Germany        | 11                    | 2     | (18.2)  | 0   | (0.0)   | 0     | (0.0)  | 0           | (0.0)               | 9        | (81.8)             |
| Greece         | _                     | -     | -       | -   | -       | -     | -      | -           | -                   | -        | -                  |
| Hungary        | 0                     | 0     | -       | 0   | -       | 0     | -      | 0           | -                   | 0        | -                  |
| Iceland        | 0                     | 0     | -       | 0   | -       | 0     | -      | 0           | -                   | 0        | -                  |
| Ireland        | 0                     | 0     | -       | 0   | -       | 0     | -      | 0           | -                   | 0        | -                  |
| Italy          | _                     | -     | -       | -   | -       | -     | -      | -           | -                   | -        | -                  |
| Latvia         | 13                    | 10    | (76.9)  | 2   | (15.4)  | 1     | (7.7)  | 0           | (0.0)               | 0        | (0.0)              |
| Liechtenstein  | 0                     | 0     | -       | 0   | -       | 0     | -      | 0           | -                   | 0        | -                  |
| Lithuania      | 61                    | 15    | (24.6)  | 21  | (34.4)  | 11    | (18.0) | 11          | (18.0)              | 3        | (4.9)              |
| Luxembourg     | 0                     | 0     | -       | 0   | -       | 0     | -      | 0           | -                   | 0        | -                  |
| Malta          | 0                     | 0     | -       | 0   | -       | 0     | -      | 0           | -                   | 0        | -                  |
| Netherlands    | 0                     | 0     | -       | 0   | -       | 0     | -      | 0           | -                   | 0        | -                  |
| Norway         | 1                     | 0     | (0.0)   | 0   | (0.0)   | 0     | (0.0)  | 0           | (0.0)               | 1        | (100.0)            |
| Poland         | 5                     | 1     | (20.0)  | 1   | (20.0)  | 0     | (0.0)  | 0           | (0.0)               | 3        | (60.0)             |
| Portugal       | 3                     | 2     | (66.7)  | 1   | (33.3)  | 0     | (0.0)  | 0           | (0.0)               | 0        | (0.0)              |
| Romania        | 58                    | 9     | (15.5)  | 15  | (25.9)  | 28    | (48.3) | 6           | (10.3)              | 0        | (0.0)              |
| Slovakia       | 0                     | 0     | -       | 0   | -       | 0     | -      | 0           | -                   | 0        | _                  |
| Slovenia       | 0                     | 0     | -       | 0   | -       | 0     | -      | 0           | -                   | 0        | -                  |
| Spain          | -                     | -     | -       | -   | _       | -     | _      | -           | -                   | _        | -                  |
| Sweden         | 1                     | 0     | (0.0)   | 1   | (100.0) | 0     | (0.0)  | 0           | (0.0)               | 0        | (0.0)              |
| United Kingdom | 3                     | 2     | (66.7)  | 0   | (0.0)   | 0     | (0.0)  | 1           | (33.3)              | 0        | (0.0)              |
| Total EU/EEA   | 170                   | 47    | (27.6)  | 44  | (25.9)  | 43    | (25.3) | 18          | (10.6)              | 18       | (10.6)             |

Notes: WHO European Region TB HPCs are presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required.

HPCs = high-priority countries.

XDR TB = extensively drug-resistant tuberculosis.

In previous reports defined as "defaulted".

In previous reports defined as "transferred out and unknown".



Table I. Estimated TB mortality per 100 000 population, European Region, 2008–2017<sup>a</sup>

| EU/EEA Austria Belgium Bulgaria Croatia   | N      | Rate per | N      | Rate per |        | Rate per |        | Data nav            |        |                    |        |                     |
|---|--------|----------|--------|----------|--------|----------|--------|---------------------|--------|--------------------|--------|---------------------|
| Austria<br>Belgium<br><i>Bulgaria</i>     |        |          |        | 100000   | N      | 100 000  | N      | Rate per<br>100 000 | N      | Rate per<br>100000 | N      | Rate per<br>100 000 |
| Belgium<br>B <i>ulgaria</i>               |        |          |        |          |        |          |        |                     |        |                    |        |                     |
| Belgium<br><i>Bulgaria</i>                | 49     | (0.6)    | 48     | (0.6)    | 39     | (0.5)    | 55     | (0.7)               | 42     | (0.5)              | 68     | (0.8)               |
| Bulgaria                                  | 78     | (0.7)    | 60     | (0.6)    | 60     | (0.6)    | 53     | (0.5)               | 59     | (0.5)              | 56     | (0.5)               |
|   | 240    | (3.2)    | 200    | (2.7)    | 200    | (2.8)    | 170    | (2.4)               | 170    | (2.4)              | 160    | (2.1)               |
| 1103113                                   | 100    | (2.3)    | 120    | (2.8)    | 83     | (1.9)    | 66     | (1.5)               | 60     | (1.4)              | 54     | (1.3)               |
| Cyprus                                    | 1      | (0.1)    | 0      | (0.0)    | 2      | (0.1)    | 5      | (0.4)               | 6      | (0.5)              | 2      | (0.1)               |
| Czech Republic                            | 54     | (0.5)    | 52     | (0.5)    | 40     | (0.4)    | 56     | (0.5)               | 30     | (0.3)              | 67     | (0.6)               |
| Denmark                                   | 17     | (0.3)    | 28     | (0.5)    | 36     | (0.4)    | 16     | (0.3)               | 23     | (0.4)              | 16     | (0.3)               |
| Estonia                                   | 56     | (4.2)    | 50     | (3.7)    | 42     | (3.1)    | 46     | (3.5)               | 36     | (2.7)              | 26     | (1.9)               |
| Finland                                   | 60     | (1.1)    | 54     | (1.0)    | 48     | (0.9)    | 61     | (1.1)               | 49     | (0.9)              | 31     | (0.6)               |
|   |        |          | 680    |          |        |          |        |                     | 550    |                    | 560    |                     |
| France                                    | 690    | (1.1)    |        | (1.1)    | 650    | (1.0)    | 640    | (1.0)               |        | (0.9)              |        | (0.9)               |
| Germany                                   | 370    | (0.5)    | 350    | (0.4)    | 360    | (0.5)    | 350    | (0.4)               | 370    | (0.5)              | 380    | (0.5)               |
| Greece                                    | 86     | (0.8)    | 94     | (0.8)    | 78     | (0.7)    | 75     | (0.7)               | 110    | (1.0)              | 78     | (0.7)               |
| Hungary                                   | 190    | (1.9)    | 170    | (1.7)    | 150    | (1.6)    | 130    | (1.3)               | 130    | (1.3)              | 98     | (1.0)               |
| Iceland                                   | 1      | (0.3)    | 7      | (2.2)    | 2      | (0.6)    | 1      | (0.3)               | 1      | (0.3)              | 0      | (0.0)               |
| Ireland                                   | 32     | (0.7)    | 36     | (0.8)    | 35     | (0.8)    | 29     | (0.6)               | 27     | (0.6)              | 23     | (0.5)               |
| Italy                                     | 400    | (0.7)    | 410    | (0.7)    | 380    | (0.6)    | 390    | (0.7)               | 340    | (0.6)              | 270    | (0.5)               |
| Latvia                                    | 120    | (5.7)    | 110    | (5.2)    | 91     | (4.3)    | 80     | (3.8)               | 62     | (3.0)              | 100    | (5.1)               |
| Liechtenstein                             | -      | -        | -      | -        | -      | -        | -      | -                   | -      | -                  | -      | -                   |
| Lithuania                                 | 360    | (11.0)   | 270    | (8.6)    | 220    | (7.2)    | 220    | (7.2)               | 260    | (8.6)              | 220    | (7.2)               |
| Luxembourg                                | 0      | (0.0)    | 0      | (0.0)    | 1      | (0.2)    | 2      | (0.4)               | 0      | (0.0)              | 0      | (0.0)               |
| Malta                                     | 1      | (0.2)    | 1      | (0.2)    | 1      | (0.3)    | 3      | (0.7)               | 1      | (0.2)              | 3      | (0.7)               |
| Netherlands                               | 53     | (0.3)    | 65     | (0.4)    | 56     | (0.3)    | 37     | (0.2)               | 35     | (0.2)              | 39     | (0.2)               |
| Norway                                    | 26     | (0.6)    | 28     | (0.6)    | 29     | (0.6)    | 30     | (0.6)               | 22     | (0.4)              | 21     | (0.4)               |
| Poland                                    | 880    | (2.3)    | 810    | (2.1)    | 630    | (1.6)    | 690    | (1.8)               | 680    | (1.8)              | 580    | (1.5)               |
| Portugal                                  | 260    | (2.5)    | 280    | (2.6)    | 230    | (2.1)    | 230    | (2.2)               | 230    | (2.2)              | 230    | (2.2)               |
| Romania                                   | 1 600  | (7.9)    | 1 500  | (7.4)    | 1 500  | (7.3)    | 1300   | (6.4)               | 1300   | (6.2)              | 1100   | (5.7)               |
| Slovakia                                  | 43     | (0.8)    | 43     | (0.8)    | 35     | (0.7)    | 26     | (0.5)               | 17     | (0.3)              | 20     | (0.4)               |
| Slovenia                                  | 35     | (1.7)    | 25     | (1.2)    | 20     | (1.0)    | 14     | (0.7)               | 11     | (0.5)              | 9      | (0.4)               |
| Spain                                     | 360    | (0.8)    | 410    | (0.9)    | 400    | (0.9)    | 300    | (0.6)               | 330    | (0.7)              | 300    | (0.4)               |
| Sweden                                    |        |          |        |          |        |          | 47     |                     |        |                    |        | (0.5)               |
|   | 64     | (0.7)    | 61     | (0.7)    | 36     | (0.4)    |        | (0.5)               | 39     | (0.4)              | 44     |                     |
| United Kingdom                            | 440    | (0.7)    | 410    | (0.7)    | 370    | (0.6)    | 330    | (0.5)               | 330    | (0.5)              | 350    | (0.5)               |
| Subtotal EU/EEA                           | 6 700  | (1.3)    | 6 400  | (1.3)    | 5 800  | (1.1)    | 5 500  | (1.1)               | 5 300  | (1.0)              | 4 900  | (1.0)               |
| Non-EU/EEA                                | 4.0    | (0.5)    | -      | (0.0)    |        | (0.0)    |        | (0.0)               | •      | (0.0)              |        | (0.0)               |
| Albania                                   | 16     | (0.5)    | 5      | (0.2)    | 9      | (0.3)    | 9      | (0.3)               | 9      | (0.3)              | 9      | (0.3)               |
| Andorra                                   | 0      | (0.0)    | 0      | (0.0)    | 0      | (0.0)    | 0      | (0.0)               | 0      | (0.0)              | 0      | (0.0)               |
| Armenia                                   | 180    | (6.2)    | 150    | (5.3)    | 160    | (5.7)    | 120    | (4.2)               | 140    | (4.8)              | 110    | (3.6)               |
| Azerbaijan                                | 480    | (5.5)    | 690    | (7.7)    | 800    | (8.9)    | 660    | (7.2)               | 420    | (4.6)              | 440    | (4.7)               |
| Belarus                                   | 1 000  | (11.0)   | 900    | (9.5)    | 910    | (9.6)    | 880    | (9.2)               | 780    | (8.3)              | 650    | (6.9)               |
| Bosnia and Herzegovina                    | 190    | (4.9)    | 180    | (4.9)    | 180    | (4.9)    | 180    | (4.9)               | 170    | (4.5)              | 150    | (4.1)               |
| Georgia                                   | 220    | (5.1)    | 230    | (5.4)    | 240    | (5.6)    | 240    | (5.8)               | 240    | (5.8)              | 230    | (5.8)               |
| Israel                                    | 28     | (0.4)    | 24     | (0.3)    | 28     | (0.4)    | 22     | (0.3)               | 22     | (0.3)              | 15     | (0.2)               |
| Kazakhstan                                | 3 000  | (19.0)   | 2 500  | (15.0)   | 2 200  | (13.0)   | 1900   | (11.0)              | 1800   | (11.0)             | 1200   | (6.8)               |
| Kyrgyzstan                                | 660    | (13.0)   | 620    | (12.0)   | 650    | (12.0)   | 680    | (12.0)              | 650    | (12.0)             | 650    | (11.0)              |
| Monaco                                    | 0      | (0.3)    | 0      | (0.3)    | 0      | (0.3)    | 0      | (0.2)               | 0      | (0.1)              | 0      | (0.1)               |
| Montenegro                                | 4      | (0.6)    | 1      | (0.2)    | 1      | (0.2)    | 1      | (0.2)               | 1      | (0.2)              | 1      | (0.2)               |
| North Macedonia                           | 48     | (2.3)    | 19     | (0.9)    | 34     | (1.7)    | 27     | (1.3)               | 23     | (1.1)              | 20     | (1.0)               |
| Republic of Moldova                       | 660    | (16.0)   | 690    | (17.0)   | 630    | (16.0)   | 550    | (13.0)              | 530    | (13.0)             | 390    | (9.5)               |
| Russian Federation                        | 27 000 | (19.0)   | 25 000 | (18.0)   | 23 000 | (16.0)   | 21 000 | (15.0)              | 19 000 | (14.0)             | 18 000 | (12.0)              |
| San Marino                                | 0      | (0.0)    | 0      | (0.0)    | 0      | (0.0)    | 0      | (0.0)               | 0      | (0.0)              | 0      | (0.0)               |
| Serbia                                    | 190    | (2.0)    | 180    | (2.0)    | 170    | (1.9)    | 150    | (1.6)               | 150    | (1.7)              | 140    | (1.5)               |
| Switzerland                               |        | (0.5)    | 27     | (0.4)    | 28     | (0.4)    | 25     | (0.3)               | 23     | (0.3)              | 20     | (0.2)               |
|   | 34     |          |        |          |        |          |        |                     |        |                    |        |                     |
| Tajikistan                                | 610    | (8.3)    | 570    | (7.6)    | 530    | (7.0)    | 510    | (6.5)               | 490    | (6.1)              | 480    | (5.8)               |
| Turkey                                    | 970    | (1.4)    | 1300   | (1.8)    | 1 000  | (1.5)    | 1 000  | (1.4)               | 880    | (1.2)              | 720    | (1.0)               |
| Turkmenistan                              | 740    | (15.0)   | 710    | (14.0)   | 680    | (13.0)   | 660    | (13.0)              | 650    | (12.0)             | 630    | (12.0)              |
| Ukraine                                   | 11 000 | (24.0)   | 9 000  | (20.0)   | 8 200  | (18.0)   | 7 500  | (16.0)              | 7 400  | (16.0)             | 6 600  | (15.0)              |
| Uzbekistan                                | 2 900  | (11.0)   | 2 800  | (9.9)    | 2 600  | (9.0)    | 2 400  | (8.3)               | 2 100  | (7.2)              | 2 100  | (6.9)               |
|   | 50 000 | (13.0)   | 46 000 | (11.9)   | 42 000 | (10.8)   | 39 000 | (10.0)              | 35 000 | (8.9)              | 33 000 | (8.4)               |
| Subtotal non-EU/EEA Total European Region | 56 000 | (6.3)    | 52 000 | (5.8)    | 48 000 | (5.4)    | 44 000 | (4.9)               | 41 000 | (4.5)              | 37 000 | (4.1)               |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics. HPCs = high-priority countries.

a Excludes HIV coinfected cases.

| 201   | 14  | 201   | 15  | 201  | 16   | 20:  | 17   | Mean annual   | Mean annual   |   |
|---|---|---|---|--|--|--|--|---|---|---|
| N   | Rate per<br>100 000   | N   | Rate per<br>100 000   | N  | Rate per<br>100 000  | N  | Rate per<br>100 000  | % change<br>in rate,<br>2013–2017   | % change<br>in rate,<br>2008–2017   | Country   |
|   |   |   |   |  |  |  |  |   |   | EU/EEA  |
| 71  | (0.8)   | 64  | (0.7)   | 38   | (0.4)  | 38   | (0.4)  | -13.6%  | -3.2%   | Austria   |
| 41  | (0.4)   | 61  | (0.5)   | 61   | (0.5)  | 61   | (0.5)  | 1.9%  | -   | Belgium   |
| 130   | (1.8)   | 120   | (1.6)   | 100  | (1.5)  | 91   | (1.3)  | -11.3%  | _   | Bulgaria  |
| 40  | (1.0)   | 46  | (1.1)   | 58   | (1.4)  | 41   | (1.0)  | -7.1%   |   | Croatia   |
| 6   | (0.5)   | 3   | (0.2)   | 3  | (0.3)  | 3  | (0.3)  | 18.9%   |   | Cyprus  |
|   |   |   |   |  |  |  |  |   |   | 7.1   |
| 39  | (0.4)   | 57  | (0.5)   | 43   | (0.4)  | 43   | (0.4)  | -10.7%  |   | Czech Republic  |
| 13  | (0.2)   | 17  | (0.3)   | 17   | (0.3)  | 18   | (0.3)  | 1.7%  |   | Denmark   |
| 29  | (2.2)   | 22  | (1.6)   | 17   | (1.3)  | 12   | (0.9)  | -16.4%  |   | Estonia   |
| 41  | (0.7)   | 33  | (0.6)   | 30   | (0.5)  | 26   | (0.5)  | -5.1%   |   | Finland   |
| 480   | (0.8)   | 450   | (0.7)   | 400  | (0.6)  | 350  | (0.6)  | -10.8%  | -7.4%   | France  |
| 320   | (0.4)   | 320   | (0.4)   | 320  | (0.4)  | 320  | (0.4)  | -4.0%   | -1.8%   | Germany   |
| 55  | (0.5)   | 45  | (0.4)   | 45   | (0.4)  | 45   | (0.4)  | -12.7%  | -6.7%   | Greece  |
| 87  | (0.9)   | 110   | (1.1)   | 66   | (0.7)  | 54   | (0.6)  | -13.9%  | -12.9%  | Hungary   |
| 0   | (0.0)   | 2   | (0.6)   | 0  | (0.0)  | 0  | (0.0)  | _   | -100.0%   | Iceland   |
| 24  | (0.5)   | 24  | (0.5)   | 24   | (0.5)  | 24   | (0.5)  | 1.0%  |   | Ireland   |
| 290   | (0.5)   | 340   | (0.6)   | 340  | (0.6)  | 340  | (0.6)  | 6.1%  | -1.8%   |   |
| 67  | (3.3)   | 96  | (4.8)   | 72   | (3.7)  | 62   | (3.2)  | -11.0%  |   | Latvia  |
| -   | (3.3)   | 70  | (4.0)   | -  | (3.7)  | -  | (5.2)  | -11.0 /0  |   | Liechtenstein   |
|   |   | 100   |   |  |  |  |  |   |   |   |
| 230   | (7.9)   | 190   | (6.6)   | 180  | (6.0)  | 170  | (5.8)  | -5.3%   |   | Lithuania   |
| 1   | (0.2)   | 1   | (0.2)   | 1  | (0.2)  | 1  | (0.2)  | -   | _   | Luxembourg  |
| 1   | (0.2)   | 2   | (0.5)   | 2  | (0.5)  | 2  | (0.5)  | -10.9%  |   | Malta   |
| 35  | (0.2)   | 39  | (0.2)   | 30   | (0.2)  | 30   | (0.2)  | -5.9%   |   | Netherlands   |
| 13  | (0.3)   | 12  | (0.2)   | 12   | (0.2)  | 12   | (0.2)  | -13.9%  | -9.7%   |   |
| 580   | (1.5)   | 580   | (1.5)   | 490  | (1.3)  | 450  | (1.2)  | -5.4%   | -7.0%   | Poland  |
| 220   | (2.1)   | 220   | (2.1)   | 210  | (2.0)  | 210  | (2.0)  | -2.4%   | -2.4%   | Portugal  |
| 1 100   | (5.7)   | 1 100   | (5.4)   | 980  | (5.0)  | 920  | (4.7)  | -4.7%   | -5.6%   | Romania   |
| 35  | (0.6)   | 35  | (0.6)   | 35   | (0.6)  | 35   | (0.6)  | 13.9%   |   | Slovakia  |
| 21  | (1.0)   | 11  | (0.5)   | 13   | (0.6)  | 12   | (0.6)  | 7.6%  |   | Slovenia  |
| 290   | (0.6)   | 250   | (0.5)   | 250  | (0.5)  | 250  | (0.5)  | -4.2%   |   | Spain   |
| 30  | (0.3)   | 25  | (0.3)   | 26   | (0.3)  | 26   | (0.3)  | -12.8%  |   | Sweden  |
| 360   | (0.6)   | 350   | (0.5)   | 350  | (0.5)  | 350  | (0.5)  |   | _   |   |
|   |   |   |   |  |  |  |  | -0.5%   | _   | United Kingdom  |
| 4 600   | (0.9)   | 4 600   | (0.9)   | 4 200  | (0.8)  | 4 000  | (0.8)  | -5.8%   | -5.7%   | Subtotal EU/EEA   |
| 0   | (0.2)   | 0   | (0.2)   | 0  | (0.2)  | 0  | (0.2)  | a a 0/  | C = 0/  | Non-EU/EEA  |
| 9   | (0.3)   | 9   | (0.3)   | 9  | (0.3)  | 9  | (0.3)  | 0.0%  | -6.5%   | Albania   |
| 0   | (0.0)   | 0   | (0.0)   | 0  | (0.0)  | 0  | (0.0)  | _   | -   | Andorra   |
|   |   |   |   |  |  |  |  |   |   |   |
| 81  | (2.8)   | 68  | (2.3)   | 56   | (1.9)  | 36   | (1.2)  | -24.0%  |   | Armenia   |
| 430   | (4.5)   | 570   | (5.9)   | 710  | (7.3)  | 860  | (8.7)  | 16.6%   | 5.2%  | Azerbaijan  |
| 430<br>510  | (4.5)<br>(5.4)  | 570<br>370  | (5.9)<br>(3.9)  | 710<br>220   | (7.3)<br>(2.3)   | 860<br>76  | (8.7)<br>(0.8)   | 16.6%<br>-41.5%   | 5.2%<br>-25.2%  | Azerbaijan<br>Belarus   |
| 430   | (4.5)<br>(5.4)<br>(3.7)   | 570   | (5.9)<br>(3.9)<br>(3.7)   | 710  | (7.3)<br>(2.3)<br>(3.7)  | 860  | (8.7)  | 16.6%<br>-41.5%<br>-2.5%  | 5.2%<br>-25.2%  | Azerbaijan  |
| 430<br>510  | (4.5)<br>(5.4)  | 570<br>370  | (5.9)<br>(3.9)  | 710<br>220   | (7.3)<br>(2.3)   | 860<br>76  | (8.7)<br>(0.8)   | 16.6%<br>-41.5%   | 5.2%<br>-25.2%<br>-3.1%   | Azerbaijan<br>Belarus   |
| 430<br>510<br>130   | (4.5)<br>(5.4)<br>(3.7)   | 570<br>370<br>130   | (5.9)<br>(3.9)<br>(3.7)   | 710<br>220<br>130  | (7.3)<br>(2.3)<br>(3.7)  | 860<br>76<br>130   | (8.7)<br>(0.8)<br>(3.7)  | 16.6%<br>-41.5%<br>-2.5%  | 5.2%<br>-25.2%<br>-3.1%   | Azerbaijan<br>Belarus<br>Bosnia and Herzegovina<br>Georgia  |
| 430<br>510<br>130<br>230  | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)   | 570<br>370<br>130<br>220  | (5.9)<br>(3.9)<br>(3.7)<br>(5.6)<br>(0.2)   | 710<br>220<br>130<br>210<br>15   | (7.3)<br>(2.3)<br>(3.7)<br>(5.5)<br>(0.2)  | 860<br>76<br>130<br>210  | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)  | 16.6%<br>-41.5%<br>-2.5%<br>-2.2%<br>-1.3%  | 5.2%<br>-25.2%<br>-3.1%<br>0.4%<br>-8.5%  | Azerbaijan<br>Belarus<br>Bosnia and Herzegovina<br>Georgia<br>Israel  |
| 430<br>510<br>130<br>230<br>15<br>1 000   | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)  | 570<br>370<br>130<br>220<br>15<br>820   | (5.9)<br>(3.9)<br>(3.7)<br>(5.6)<br>(0.2)<br>(4.6)  | 710<br>220<br>130<br>210<br>15<br>460  | (7.3)<br>(2.3)<br>(3.7)<br>(5.5)<br>(0.2)<br>(2.6)   | 860<br>76<br>130<br>210<br>15  | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)   | 16.6%<br>-41.5%<br>-2.5%<br>-2.2%<br>-1.3%<br>-39.9%  | 5.2%<br>-25.2%<br>-3.1%<br>0.4%<br>-8.5%<br>-28.8%  | Azerbaijan<br>Belarus<br>Bosnia and Herzegovina<br>Georgia<br>Israel<br>Kazakhstan  |
| 430<br>510<br>130<br>230<br>15<br>1000<br>540   | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)   | 570<br>370<br>130<br>220<br>15<br>820<br>480  | (5.9)<br>(3.9)<br>(3.7)<br>(5.6)<br>(0.2)<br>(4.6)<br>(8.3)   | 710<br>220<br>130<br>210<br>15<br>460<br>440   | (7.3)<br>(2.3)<br>(3.7)<br>(5.5)<br>(0.2)<br>(2.6)<br>(7.5)  | 860<br>76<br>130<br>210<br>15<br>160<br>400  | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)  | 16.6%<br>-41.5%<br>-2.5%<br>-2.2%<br>-1.3%<br>-39.9%<br>-11.7%  | 5.2%<br>-25.2%<br>-3.1%<br>0.4%<br>-8.5%<br>-28.8%  | Azerbaijan<br>Belarus<br>Bosnia and Herzegovina<br>Georgia<br>Israel<br>Kazakhstan<br>Kyrgyzstan  |
| 430<br>510<br>130<br>230<br>15<br>1000<br>540   | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)  | 570<br>370<br>130<br>220<br>15<br>820<br>480  | (5.9)<br>(3.9)<br>(3.7)<br>(5.6)<br>(0.2)<br>(4.6)<br>(8.3)<br>(0.0)  | 710<br>220<br>130<br>210<br>15<br>460<br>440   | (7.3)<br>(2.3)<br>(3.7)<br>(5.5)<br>(0.2)<br>(2.6)<br>(7.5)<br>(0.0)   | 860<br>76<br>130<br>210<br>15<br>160<br>400  | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)<br>(0.0)   | 16.6%<br>-41.5%<br>-2.5%<br>-2.2%<br>-1.3%<br>-39.9%<br>-11.7%<br>-100.0%   | 5.2%<br>-25.2%<br>-3.1%<br>0.4%<br>-8.5%<br>-28.8%<br>-7.1%<br>-100.0%  | Azerbaijan<br>Belarus<br>Bosnia and Herzegovina<br>Georgia<br>Israel<br>Kazakhstan<br>Kyrgyzstan<br>Monaco  |
| 430<br>510<br>130<br>230<br>15<br>1000<br>540<br>0  | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)<br>(0.2)   | 570<br>370<br>130<br>220<br>15<br>820<br>480<br>0   | (5.9)<br>(3.9)<br>(3.7)<br>(5.6)<br>(0.2)<br>(4.6)<br>(8.3)<br>(0.0)<br>(0.2)   | 710<br>220<br>130<br>210<br>15<br>460<br>440<br>0  | (7.3)<br>(2.3)<br>(3.7)<br>(5.5)<br>(0.2)<br>(2.6)<br>(7.5)<br>(0.0)<br>(0.2)  | 860<br>76<br>130<br>210<br>15<br>160<br>400<br>0   | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)<br>(0.0)<br>(0.2)  | 16.6% -41.5% -2.5% -2.2% -1.3% -39.9% -11.7% -100.0%  | 5.2%<br>-25.2%<br>-3.1%<br>0.4%<br>-8.5%<br>-28.8%<br>-7.1%<br>-100.0%<br>-11.8%  | Azerbaijan<br>Belarus<br>Bosnia and Herzegovina<br>Georgia<br>Israel<br>Kazakhstan<br>Kyrgyzstan<br>Monaco<br>Montenegro  |
| 430<br>510<br>130<br>230<br>15<br>1 000<br>540<br>0   | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)<br>(0.2)<br>(1.0)  | 570<br>370<br>130<br>220<br>15<br>820<br>480<br>0<br>1  | (5.9)<br>(3.9)<br>(3.7)<br>(5.6)<br>(0.2)<br>(4.6)<br>(8.3)<br>(0.0)<br>(0.2)<br>(1.0)  | 710<br>220<br>130<br>210<br>15<br>460<br>440<br>0  | (7.3) (2.3) (3.7) (5.5) (0.2) (2.6) (7.5) (0.0) (0.2) (1.0)  | 860<br>76<br>130<br>210<br>15<br>160<br>400<br>0   | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)<br>(0.0)<br>(0.2)<br>(1.0)   | 16.6% -41.5% -2.5% -2.2% -1.3% -39.9% -11.7% -100.0% 0.0%   | 5.2% -25.2% -3.1% 0.4% -8.5% -28.8% -7.1% -100.0% -11.8%  | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia  |
| 430<br>510<br>130<br>230<br>15<br>1 000<br>540<br>0<br>1<br>1<br>20   | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)<br>(0.2)<br>(1.0)<br>(9.5)   | 570<br>370<br>130<br>220<br>15<br>820<br>480<br>0<br>1<br>1<br>20   | (5.9)<br>(3.9)<br>(3.7)<br>(5.6)<br>(0.2)<br>(4.6)<br>(8.3)<br>(0.0)<br>(0.2)<br>(1.0)<br>(8.2)   | 710<br>220<br>130<br>210<br>15<br>460<br>440<br>0<br>1<br>20<br>300  | (7.3)<br>(2.3)<br>(3.7)<br>(5.5)<br>(0.2)<br>(2.6)<br>(7.5)<br>(0.0)<br>(0.2)<br>(1.0)<br>(7.4)                            | 860<br>76<br>130<br>210<br>15<br>160<br>400<br>0<br>1<br>20<br>250   | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)<br>(0.0)<br>(0.2)<br>(1.0)<br>(6.1)  | 16.6% -41.5% -2.5% -2.2% -1.3% -39.9% -11.7% -100.0% 0.0% -10.5%  | 5.2% -25.2% -3.1% 0.4% -8.5% -28.8% -7.1% -100.0% -11.8% -9.0% -10.2%   | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova  |
| 430<br>510<br>130<br>230<br>15<br>1000<br>540<br>0<br>1<br>20<br>390<br>16 000  | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)<br>(0.2)<br>(1.0)<br>(9.5)<br>(11.0)   | 570<br>370<br>130<br>220<br>15<br>820<br>480<br>0<br>1<br>1<br>20<br>330<br>14 000  | (5.9)<br>(3.9)<br>(3.7)<br>(5.6)<br>(0.2)<br>(4.6)<br>(8.3)<br>(0.0)<br>(0.2)<br>(1.0)<br>(8.2)   | 710<br>220<br>130<br>210<br>15<br>460<br>440<br>0<br>1<br>1<br>20<br>300<br>12 000   | (7.3)<br>(2.3)<br>(3.7)<br>(5.5)<br>(0.2)<br>(2.6)<br>(7.5)<br>(0.0)<br>(0.2)<br>(1.0)<br>(7.4)<br>(8.6)                   | 860<br>76<br>130<br>210<br>15<br>160<br>400<br>0<br>1<br>1<br>20<br>250<br>10 000  | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)<br>(0.0)<br>(0.2)<br>(1.0)<br>(6.1)<br>(7.3)   | 16.6% -41.5% -2.5% -2.2% -1.3% -39.9% -11.7% -100.0% 0.0%   | 5.2% -25.2% -3.1% 0.4% -8.5% -28.8% -7.1% -100.0% -11.8% -9.0% -10.2% -10.1%  | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation   |
| 430<br>510<br>130<br>230<br>15<br>1000<br>540<br>0<br>1<br>20<br>390<br>16 000  | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)<br>(0.2)<br>(1.0)<br>(9.5)<br>(11.0)<br>(0.0)  | 570<br>370<br>130<br>220<br>15<br>820<br>480<br>0<br>1<br>20<br>330<br>14 000<br>0  | (5.9)<br>(3.9)<br>(3.7)<br>(5.6)<br>(0.2)<br>(4.6)<br>(8.3)<br>(0.0)<br>(0.2)<br>(1.0)<br>(8.2)<br>(10.0)<br>(0.0)                            | 710<br>220<br>130<br>210<br>15<br>460<br>440<br>0<br>1<br>1<br>20<br>300<br>12 000   | (7.3)<br>(2.3)<br>(3.7)<br>(5.5)<br>(0.2)<br>(2.6)<br>(7.5)<br>(0.0)<br>(0.2)<br>(1.0)<br>(7.4)<br>(8.6)<br>(0.0)          | 860<br>76<br>130<br>210<br>15<br>160<br>400<br>0<br>1<br>1<br>20<br>250<br>10 000  | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)<br>(0.0)<br>(0.2)<br>(1.0)<br>(6.1)<br>(7.3)<br>(0.0)  | 16.6% -41.5% -2.5% -2.2% -1.3% -39.9% -11.7% -100.0% -0.0% -10.5% -11.7%  | 5.2%<br>-25.2%<br>-3.1%<br>0.4%<br>-8.5%<br>-28.8%<br>-7.1%<br>-100.0%<br>-11.8%<br>-9.0%<br>-10.2%                     | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino  |
| 430<br>510<br>130<br>230<br>15<br>1000<br>540<br>0<br>1<br>1<br>20<br>390<br>16 000<br>0<br>110   | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)<br>(0.2)<br>(1.0)<br>(9.5)<br>(11.0)<br>(0.0)<br>(1.3)   | 570<br>370<br>130<br>220<br>15<br>820<br>480<br>0<br>1<br>20<br>330<br>14 000<br>0<br>83  | (5.9)<br>(3.9)<br>(3.7)<br>(5.6)<br>(0.2)<br>(4.6)<br>(8.3)<br>(0.0)<br>(0.2)<br>(1.0)<br>(8.2)<br>(10.0)<br>(0.0)<br>(0.9)                   | 710<br>220<br>130<br>210<br>15<br>460<br>440<br>0<br>1<br>1<br>20<br>300<br>12 000<br>0<br>81  | (7.3)<br>(2.3)<br>(3.7)<br>(5.5)<br>(0.2)<br>(2.6)<br>(7.5)<br>(0.0)<br>(0.2)<br>(1.0)<br>(7.4)<br>(8.6)<br>(0.0)<br>(0.9) | 860<br>76<br>130<br>210<br>15<br>160<br>400<br>0<br>1<br>20<br>250<br>10 000<br>0<br>66  | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)<br>(0.0)<br>(0.2)<br>(1.0)<br>(6.1)<br>(7.3)<br>(0.0)<br>(0.8)                                     | 16.6% -41.5% -2.5% -2.2% -1.3% -39.9% -11.7% -100.0% 0.0% -10.5%  | 5.2% -25.2% -3.1% 0.4% -8.5% -28.8% -7.1% -100.0% -9.0% -10.2% -10.1%   | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia   |
| 430<br>510<br>130<br>230<br>15<br>1000<br>540<br>0<br>1<br>20<br>390<br>16 000  | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)<br>(0.2)<br>(1.0)<br>(9.5)<br>(11.0)<br>(0.0)  | 570<br>370<br>130<br>220<br>15<br>820<br>480<br>0<br>1<br>20<br>330<br>14 000<br>0  | (5.9)<br>(3.9)<br>(3.7)<br>(5.6)<br>(0.2)<br>(4.6)<br>(8.3)<br>(0.0)<br>(0.2)<br>(1.0)<br>(8.2)<br>(10.0)<br>(0.0)                            | 710<br>220<br>130<br>210<br>15<br>460<br>440<br>0<br>1<br>1<br>20<br>300<br>12 000   | (7.3)<br>(2.3)<br>(3.7)<br>(5.5)<br>(0.2)<br>(2.6)<br>(7.5)<br>(0.0)<br>(0.2)<br>(1.0)<br>(7.4)<br>(8.6)<br>(0.0)          | 860<br>76<br>130<br>210<br>15<br>160<br>400<br>0<br>1<br>1<br>20<br>250<br>10 000  | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)<br>(0.0)<br>(0.2)<br>(1.0)<br>(6.1)<br>(7.3)<br>(0.0)  | 16.6% -41.5% -2.5% -2.2% -1.3% -39.9% -11.7% -100.0% -0.0% -10.5% -11.7%  | 5.2% -25.2% -3.1% 0.4% -8.5% -28.8% -7.1% -100.0% -9.0% -10.2% -10.1%   | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino  |
| 430<br>510<br>130<br>230<br>15<br>1000<br>540<br>0<br>1<br>1<br>20<br>390<br>16 000<br>0<br>110   | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)<br>(0.2)<br>(1.0)<br>(9.5)<br>(11.0)<br>(0.0)<br>(1.3)   | 570<br>370<br>130<br>220<br>15<br>820<br>480<br>0<br>1<br>20<br>330<br>14 000<br>0<br>83  | (5.9)<br>(3.9)<br>(3.7)<br>(5.6)<br>(0.2)<br>(4.6)<br>(8.3)<br>(0.0)<br>(0.2)<br>(1.0)<br>(8.2)<br>(10.0)<br>(0.0)<br>(0.9)                   | 710<br>220<br>130<br>210<br>15<br>460<br>440<br>0<br>1<br>1<br>20<br>300<br>12 000<br>0<br>81  | (7.3)<br>(2.3)<br>(3.7)<br>(5.5)<br>(0.2)<br>(2.6)<br>(7.5)<br>(0.0)<br>(0.2)<br>(1.0)<br>(7.4)<br>(8.6)<br>(0.0)<br>(0.9) | 860<br>76<br>130<br>210<br>15<br>160<br>400<br>0<br>1<br>20<br>250<br>10 000<br>0<br>66  | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)<br>(0.0)<br>(0.2)<br>(1.0)<br>(6.1)<br>(7.3)<br>(0.0)<br>(0.8)                                     | 16.6% -41.5% -2.5% -2.2% -1.3% -39.9% -11.7% -100.0% 0.0% 0.0% -10.5% -11.7% -  | 5.2% -25.2% -3.1% 0.4% -8.5% -28.8% -7.1% -100.0% -11.8% -9.0% -10.1%10.3% -8.6%  | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia   |
| 430<br>510<br>130<br>230<br>15<br>1 000<br>540<br>0<br>1<br>1<br>20<br>390<br>16 000<br>0<br>110  | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)<br>(0.2)<br>(1.0)<br>(9.5)<br>(11.0)<br>(0.0)<br>(1.3)<br>(0.2)<br>(5.6)                             | 570<br>370<br>130<br>220<br>15<br>820<br>480<br>0<br>1<br>20<br>330<br>14 000<br>0<br>83<br>17  | (5.9)<br>(3.9)<br>(3.7)<br>(5.6)<br>(0.2)<br>(4.6)<br>(8.3)<br>(0.0)<br>(0.2)<br>(1.0)<br>(8.2)<br>(10.0)<br>(0.0)<br>(0.9)<br>(0.2)<br>(5.5) | 710<br>220<br>130<br>210<br>15<br>460<br>440<br>0<br>1<br>20<br>300<br>12 000<br>0<br>81<br>17<br>460                                      | (7.3) (2.3) (3.7) (5.5) (0.2) (2.6) (7.5) (0.0) (0.2) (1.0) (7.4) (8.6) (0.0) (0.9) (0.2) (5.3)                            | 860<br>76<br>130<br>210<br>15<br>160<br>400<br>0<br>1<br>20<br>250<br>10 000<br>0<br>66  | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)<br>(0.0)<br>(0.2)<br>(1.0)<br>(6.1)<br>(7.3)<br>(0.0)<br>(0.8)<br>(0.2)<br>(5.2)                   | 16.6% -41.5% -2.5% -2.2% -1.3% -39.9% -11.7% -100.0% 0.0% -10.5% -11.7%15.9% -4.5% -2.7%  | 5.2% -25.2% -3.1% 0.4% -8.5% -7.1% -100.0% -11.8% -9.0% -10.1% -10.3% -8.6% -5.1%                                       | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan  |
| 430<br>510<br>130<br>230<br>15<br>1000<br>540<br>0<br>1<br>1<br>20<br>390<br>16 000<br>0<br>110<br>13<br>470<br>670                     | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)<br>(0.2)<br>(1.0)<br>(9.5)<br>(11.0)<br>(0.0)<br>(1.3)<br>(0.2)<br>(5.6)<br>(0.9)                    | 570<br>370<br>130<br>220<br>15<br>820<br>480<br>0<br>1<br>20<br>330<br>14 000<br>0<br>83<br>17<br>470<br>610                          | (5.9)<br>(3.9)<br>(3.7)<br>(5.6)<br>(0.2)<br>(4.6)<br>(8.3)<br>(0.0)<br>(0.2)<br>(1.0)<br>(0.9)<br>(0.9)<br>(0.2)<br>(5.5)<br>(0.8)           | 710<br>220<br>130<br>210<br>15<br>460<br>440<br>0<br>1<br>20<br>300<br>12 000<br>0<br>81<br>17<br>460<br>510                               | (7.3) (2.3) (3.7) (5.5) (0.2) (2.6) (7.5) (0.0) (0.2) (1.0) (7.4) (8.6) (0.0) (0.9) (0.2) (5.3) (0.6)                      | 860<br>76<br>130<br>210<br>15<br>160<br>400<br>0<br>1<br>20<br>250<br>10 000<br>0<br>66<br>17<br>460<br>410                          | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(6.7)<br>(0.0)<br>(0.2)<br>(1.0)<br>(6.1)<br>(7.3)<br>(0.0)<br>(0.8)<br>(0.2)<br>(5.2)<br>(0.5)                   | 16.6% -41.5% -2.5% -2.2% -1.3% -39.9% -11.7% -100.0% 0.0% -10.5% -11.7% -1.5.5% -1.7,5% -1.7,5% -1.7,7% -1.5.9% | 5.2% -25.2% -3.1% 0.4% -8.5% -28.8% -7.1% -100.0% -11.8% -9.0% -10.1%10.3% -8.6% -5.1% -10.6%                           | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey                                 |
| 430<br>510<br>130<br>230<br>15<br>1000<br>0<br>1<br>20<br>390<br>16 000<br>0<br>110<br>13<br>470<br>670<br>620                          | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)<br>(0.2)<br>(1.0)<br>(9.5)<br>(11.0)<br>(0.0)<br>(1.3)<br>(0.2)<br>(5.6)<br>(0.9)<br>(11.0)          | 570<br>370<br>130<br>220<br>15<br>820<br>480<br>0<br>1<br>20<br>330<br>14 000<br>0<br>83<br>17<br>470<br>610<br>600                   | (5.9) (3.9) (3.7) (5.6) (0.2) (4.6) (8.3) (0.0) (0.2) (1.0) (8.2) (10.0) (0.9) (0.2) (5.5) (0.8) (11.0)                                       | 710<br>220<br>130<br>210<br>15<br>460<br>440<br>0<br>1<br>20<br>300<br>12 000<br>0<br>81<br>17<br>460<br>510                               | (7.3) (2.3) (3.7) (5.5) (0.2) (2.6) (7.5) (0.0) (0.2) (1.0) (7.4) (8.6) (0.0) (0.9) (0.2) (5.3) (0.6) (10.0)               | 860<br>76<br>130<br>210<br>15<br>160<br>400<br>0<br>1<br>20<br>250<br>10 000<br>0<br>66<br>17<br>460<br>410<br>570                   | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)<br>(0.0)<br>(6.1)<br>(7.3)<br>(0.0)<br>(0.8)<br>(0.2)<br>(5.2)<br>(0.5)<br>(9.9)                   | 16.6% -41.5% -2.5% -2.2% -1.3% -39.9% -11.7% -100.0% 0.0% -10.5% -11.7%   | 5.2% -25.2% -3.1% 0.4% -8.5% -28.8% -7.1% -100.0% -11.8% -9.0% -10.1%10.3% -8.6% -5.1% -10.6% -4.5%                     | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan                    |
| 430<br>510<br>130<br>230<br>15<br>1 000<br>0<br>1<br>20<br>390<br>16 000<br>0<br>110<br>13<br>470<br>670<br>620<br>5 800                | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)<br>(0.2)<br>(1.0)<br>(9.5)<br>(11.0)<br>(0.0)<br>(1.3)<br>(0.2)<br>(5.6)<br>(0.9)<br>(11.0)          | 570<br>370<br>130<br>220<br>15<br>820<br>480<br>0<br>1<br>20<br>330<br>14 000<br>0<br>83<br>17<br>470<br>610<br>600<br>5 100          | (5.9) (3.9) (3.7) (5.6) (0.2) (4.6) (8.3) (0.0) (0.2) (1.0) (8.2) (10.0) (0.9) (0.2) (5.5) (0.8) (11.0) (11.0)                                | 710<br>220<br>130<br>210<br>15<br>460<br>440<br>0<br>1<br>20<br>300<br>12 000<br>0<br>81<br>17<br>460<br>510<br>590<br>4 500               | (7.3) (2.3) (3.7) (5.5) (0.2) (2.6) (7.5) (0.0) (0.2) (1.0) (7.4) (8.6) (0.0) (0.9) (0.2) (5.3) (0.6) (10.0) (10.0)        | 860<br>76<br>130<br>210<br>15<br>160<br>400<br>0<br>1<br>20<br>250<br>10 000<br>0<br>66<br>17<br>460<br>410<br>570<br>3 800          | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)<br>(0.0)<br>(6.1)<br>(7.3)<br>(0.0)<br>(0.8)<br>(0.2)<br>(5.2)<br>(0.5)<br>(9.9)<br>(8.7)          | 16.6% -41.5% -2.5% -2.2% -1.3% -39.9% -10.0% -0.0% -10.5% -11.7%15.9% -2.7% -14.4% -4.7% -12.7%   | 5.2% -25.2% -3.1% 0.4% -8.5% -28.8% -100.0% -11.8% -9.0% -10.1%10.3% -5.1% -10.6% -4.5% -10.7%                          | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan Ukraine            |
| 430<br>510<br>130<br>230<br>15<br>1000<br>540<br>0<br>1<br>20<br>390<br>16 000<br>0<br>110<br>13<br>470<br>670<br>620<br>5 800<br>2 100 | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)<br>(0.2)<br>(1.0)<br>(9.5)<br>(11.0)<br>(0.0)<br>(1.3)<br>(0.2)<br>(5.6)<br>(0.9)<br>(11.0)<br>(6.8) | 570<br>370<br>130<br>220<br>15<br>820<br>480<br>0<br>1<br>20<br>330<br>14 000<br>0<br>83<br>17<br>470<br>610<br>600<br>5 100<br>2 000 | (5.9) (3.9) (3.7) (5.6) (0.2) (4.6) (8.3) (0.0) (0.2) (1.0) (8.2) (10.0) (0.9) (0.2) (5.5) (0.8) (11.0) (11.0) (6.3)                          | 710<br>220<br>130<br>210<br>15<br>460<br>440<br>0<br>1<br>1<br>20<br>300<br>12 000<br>0<br>81<br>17<br>460<br>510<br>590<br>4 500<br>1 800 | (7.3) (2.3) (3.7) (5.5) (0.2) (2.6) (7.5) (0.0) (0.2) (1.0) (7.4) (8.6) (0.0) (0.9) (0.2) (5.3) (0.6) (10.0) (5.9)         | 860<br>76<br>130<br>210<br>15<br>160<br>400<br>0<br>1<br>20<br>250<br>10 000<br>0<br>66<br>17<br>460<br>410<br>570<br>3 800<br>1 700 | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)<br>(0.0)<br>(6.1)<br>(7.3)<br>(0.0)<br>(0.8)<br>(0.2)<br>(5.2)<br>(5.2)<br>(9.9)<br>(8.7)<br>(5.4) | 16.6% -41.5% -2.5% -2.2% -1.3% -39.9% -10.0% -0.0% -10.5% -11.7%15.9% -4.5% -4.4.5% -4.7% -12.7% -5.9%  | 5.2% -25.2% -3.1% 0.4% -8.5% -28.8% -100.0% -11.8% -9.0% -10.1%10.3% -8.6% -5.1% -10.6% -4.5% -10.7% -7.6%              | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan |
| 430<br>510<br>130<br>230<br>15<br>1 000<br>0<br>1<br>20<br>390<br>16 000<br>0<br>110<br>13<br>470<br>670<br>620<br>5 800                | (4.5)<br>(5.4)<br>(3.7)<br>(5.7)<br>(0.2)<br>(5.9)<br>(9.4)<br>(0.0)<br>(0.2)<br>(1.0)<br>(9.5)<br>(11.0)<br>(0.0)<br>(1.3)<br>(0.2)<br>(5.6)<br>(0.9)<br>(11.0)          | 570<br>370<br>130<br>220<br>15<br>820<br>480<br>0<br>1<br>20<br>330<br>14 000<br>0<br>83<br>17<br>470<br>610<br>600<br>5 100          | (5.9) (3.9) (3.7) (5.6) (0.2) (4.6) (8.3) (0.0) (0.2) (1.0) (8.2) (10.0) (0.9) (0.2) (5.5) (0.8) (11.0) (11.0)                                | 710<br>220<br>130<br>210<br>15<br>460<br>440<br>0<br>1<br>20<br>300<br>12 000<br>0<br>81<br>17<br>460<br>510<br>590<br>4 500               | (7.3) (2.3) (3.7) (5.5) (0.2) (2.6) (7.5) (0.0) (0.2) (1.0) (7.4) (8.6) (0.0) (0.9) (0.2) (5.3) (0.6) (10.0) (10.0)        | 860<br>76<br>130<br>210<br>15<br>160<br>400<br>0<br>1<br>20<br>250<br>10 000<br>0<br>66<br>17<br>460<br>410<br>570<br>3 800          | (8.7)<br>(0.8)<br>(3.7)<br>(5.3)<br>(0.2)<br>(0.9)<br>(6.7)<br>(0.0)<br>(6.1)<br>(7.3)<br>(0.0)<br>(0.8)<br>(0.2)<br>(5.2)<br>(0.5)<br>(9.9)<br>(8.7)          | 16.6% -41.5% -2.5% -2.2% -1.3% -39.9% -10.0% -0.0% -10.5% -11.7%15.9% -2.7% -14.4% -4.7% -12.7%   | 5.2% -25.2% -3.1% 0.4% -8.5% -28.8% -7.1% -100.0% -11.8% -9.0% -10.1%10.3% -8.6% -5.1% -10.6% -4.5% -10.7% -7.6% -10.7% | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Switzerland Tajikistan Turkey Turkmenistan Ukraine            |

Table II. Estimated TB incidence per 100 000 population, European Region, 2008–2017

|                               | 20      | 08       | 20      | 09       | 20      | 10       | 20      | 11       | 20                                      | 12       | 20      | 13       |
|-------------------------------|---------|----------|---------|----------|---------|----------|---------|----------|---|----------|---------|----------|
| Country                       | N       | Rate per | N                                       | Rate per | N       | Rate per |
| EU/EEA                        |         |          |         |          |         |          |         |          |   |          |         |          |
| Austria                       | 870     | (10.0)   | 760     | (9.1)    | 760     | (9.1)    | 770     | (9.1)    | 710                                     | (8.4)    | 720     | (8.4)    |
| Belgium                       | 1100    | (10.0)   | 1100    | (9.7)    | 1200    | (11.0)   | 1100    | (10.0)   | 1000                                    | (9.4)    | 1000    | (9.3)    |
| Bulgaria                      | 3 700   | (49.0)   | 3 300   | (45.0)   | 3 000   | (41.0)   | 2700    | (37.0)   | 2 600                                   | (36.0)   | 2 400   | (33.0)   |
| Croatia                       | 1100    | (26.0)   | 960     | (22.0)   | 790     | (18.0)   | 710     | (17.0)   | 620                                     | (14.0)   | 590     | (14.0)   |
| Cyprus                        | 55      | (5.1)    | 59      | (5.3)    | 70      | (6.3)    | 59      | (5.2)    | 72                                      | (6.4)    | 47      | (4.1)    |
| Czech Republic                | 930     | (8.9)    | 730     | (6.9)    | 710     | (6.8)    | 650     | (6.2)    | 650                                     | (6.1)    | 540     | (5.1)    |
| Denmark                       | 380     | (6.9)    | 340     | (6.1)    | 380     | (6.9)    | 410     | (7.4)    | 390                                     | (7.0)    | 380     | (6.7)    |
| Estonia                       | 460     | (34.0)   | 410     | (31.0)   | 330     | (25.0)   | 340     | (25.0)   | 300                                     | (22.0)   | 300     | (23.0)   |
| Finland                       | 380     | (7.2)    | 460     | (8.7)    | 350     | (6.6)    | 360     | (6.7)    | 300                                     | (5.5)    | 310     | (5.6)    |
| France                        | 6 600   | (11.0)   | 6 000   | (9.5)    | 5 800   | (9.2)    | 5 700   | (9.0)    | 5 700                                   | (8.9)    | 5 700   | (8.9)    |
|                               | 4 800   | (5.9)    | 4 800   | (5.9)    | 4 700   | (5.8)    | 4 700   | (5.8)    | 4 600                                   | (5.7)    | 4800    | (5.9)    |
| Germany                       |         |          |         |          |         |          |         |          |   |          |         |          |
| Greece                        | 670     | (5.9)    | 620     | (5.4)    | 510     | (4.5)    | 520     | (4.6)    | 600                                     | (5.2)    | 570     | (5.0)    |
| Hungary                       | 1600    | (16.0)   | 1500    | (15.0)   | 1800    | (18.0)   | 1500    | (15.0)   | 1300                                    | (14.0)   | 1200    | (12.0)   |
| Iceland                       | 7       | (2.2)    | 10      | (3.3)    | 25      | (7.9)    | 9       | (2.8)    | 12                                      | (3.5)    | 13      | (3.9)    |
| Ireland                       | 490     | (11.0)   | 490     | (11.0)   | 450     | (9.6)    | 450     | (9.6)    | 390                                     | (8.4)    | 410     | (8.7)    |
| Italy                         | 4700    | (8.0)    | 4 700   | (7.9)    | 5 200   | (8.7)    | 3 900   | (6.6)    | 3 600                                   | (6.0)    | 3 500   | (5.8)    |
| Latvia                        | 1 200   | (55.0)   | 1 100   | (51.0)   | 1 000   | (50.0)   | 990     | (47.0)   | 1 100                                   | (53.0)   | 1 000   | (49.0)   |
| Liechtenstein                 | -       | -        | -       | -        | -       | -        | -       | -        | -                                       | -        | -       | -        |
| Lithuania                     | 2 400   | (75.0)   | 2 200   | (69.0)   | 2 000   | (64.0)   | 2 000   | (65.0)   | 1900                                    | (62.0)   | 1 800   | (60.0)   |
| Luxembourg                    | 32      | (6.6)    | 31      | (6.3)    | 33      | (6.6)    | 29      | (5.5)    | 52                                      | (9.7)    | 44      | (8.0)    |
| Malta                         | 55      | (13.0)   | 48      | (12.0)   | 33      | (8.0)    | 34      | (8.2)    | 48                                      | (11.0)   | 58      | (14.0)   |
| Netherlands                   | 1100    | (6.7)    | 1300    | (7.8)    | 1200    | (7.1)    | 1100    | (6.7)    | 1100                                    | (6.3)    | 960     | (5.7)    |
| Norway                        | 340     | (7.2)    | 380     | (7.8)    | 340     | (6.9)    | 370     | (7.4)    | 390                                     | (7.9)    | 420     | (8.2)    |
| Poland                        | 8 500   | (22.0)   | 8 800   | (23.0)   | 8 100   | (21.0)   | 9 100   | (24.0)   | 8 100                                   | (21.0)   | 8 10 0  | (21.0)   |
| Portugal                      | 3 200   | (30.0)   | 3 100   | (29.0)   | 3 000   | (28.0)   | 2 900   | (27.0)   | 2 900                                   | (27.0)   | 2 700   | (26.0)   |
| Romania                       | 25 000  | (120.0)  | 24 000  | (115.0)  | 21 000  | (105.0)  | 20 000  | (97.0)   | 19 000                                  | (92.0)   | 18 000  | (89.0)   |
| Slovakia                      | 670     | (12.0)   | 520     | (9.6)    | 470     | (8.7)    | 430     | (8.0)    | 370                                     | (6.8)    | 460     | (8.4)    |
| Slovenia                      | 240     | (12.0)   | 210     | (11.0)   | 190     | (9.5)    | 210     | (10.0)   | 150                                     | (7.5)    | 160     | (7.7)    |
| Spain                         | 8 900   | (19.0)   | 8 300   | (18.0)   | 7 900   | (17.0)   | 7 400   | (16.0)   | 6 500                                   | (14.0)   | 6 000   | (13.0)   |
| Sweden                        | 590     | (6.4)    | 660     | (7.1)    | 710     | (7.5)    | 620     | (6.5)    | 680                                     | (7.1)    | 700     | (7.3)    |
| United Kingdom                | 9 300   | (15.0)   | 9 100   | (15.0)   | 8 800   | (14.0)   | 9 500   | (15.0)   | 9 300                                   | (14.0)   | 8 300   | (13.0)   |
| Subtotal EU/EEA               | 89 000  | (17.6)   | 86 000  | (16.9)   | 81 000  | (15.9)   | 79 000  | (15.5)   | 74 000                                  | (14.5)   | 71 000  | (13.9)   |
| Non-EU/EEA                    | 0,000   | (1)10)   |         | (1015)   | 0.000   | (1515)   | 7,7000  | (1515)   | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | (110)    | ,       | (1515)   |
| Albania                       | 490     | (16.0)   | 510     | (17.0)   | 500     | (17.0)   | 490     | (17.0)   | 470                                     | (16.0)   | 550     | (19.0)   |
| Andorra                       | 5       | (5.5)    | 9       | (11.0)   | 8       | (9.5)    | 3       | (4.1)    | 10                                      | (13.0)   | 6       | (7.1)    |
| Armenia                       | 2 100   | (71.0)   | 2 000   | (68.0)   | 1 800   | (61.0)   | 1 600   | (55.0)   | 1 500                                   | (53.0)   | 1700    | (60.0)   |
| Azerbaijan                    | 9 500   | (108.0)  | 12 000  | (133.0)  | 9 400   | (104.0)  | 11 000  | (125.0)  | 8 000                                   | (86.0)   | 7300    | (78.0)   |
| Belarus                       | 6 400   | (67.0)   | 6 600   | (69.0)   | 6 400   | (67.0)   | 5 900   | (62.0)   | 6 000                                   | (63.0)   | 5 600   | (59.0)   |
|                               |         | (57.0)   |         |          |         |          |         |          |   |          |         |          |
| Bosnia and Herzegovina        | 2 100   |          | 2 200   | (58.0)   | 1700    | (44.0)   | 1700    | (46.0)   | 1800                                    | (48.0)   | 1600    | (44.0)   |
| Georgia                       | 6 100   | (140.0)  | 5 700   | (133.0)  | 5 400   | (127.0)  | 5 100   | (122.0)  | 4 900                                   | (119.0)  | 4700    | (116.0)  |
| Israel                        | 370     | (5.2)    | 400     | (5.5)    | 390     | (5.3)    | 470     | (6.3)    | 580                                     | (7.6)    | 350     | (4.5)    |
| Kazakhstan                    | 25 000  | (156.0)  | 24 000  | (151.0)  | 24 000  | (145.0)  | 23 000  | (135.0)  | 20 000                                  | (120.0)  | 18 000  | (104.0)  |
| Kyrgyzstan                    | 8 700   | (165.0)  | 8 200   | (153.0)  | 7 800   | (145.0)  | 7700    | (141.0)  | 7 800                                   | (140.0)  | 8 000   | (141.0)  |
| Monaco                        | 1       | (3.2)    | 1       | (3.3)    | 1       | (3.1)    | 1       | (2.4)    | 1                                       | (1.5)    | 0       | (0.6)    |
| Montenegro                    | 150     | (24.0)   | 130     | (21.0)   | 130     | (20.0)   | 130     | (20.0)   | 110                                     | (18.0)   | 140     | (22.0)   |
| North Macedonia               | 560     | (27.0)   | 560     | (27.0)   | 480     | (23.0)   | 420     | (20.0)   | 430                                     | (21.0)   | 400     | (19.0)   |
| Republic of Moldova           | 5 100   | (125.0)  | 5 100   | (126.0)  | 4 800   | (116.0)  | 4 900   | (119.0)  | 5 100                                   | (124.0)  | 5 200   | (127.0)  |
| Russian Federation San Marino | 130 000 | (91.0)   | 127 000 | (89.0)   | 123 000 | (86.0)   | 116 000 | (81.0)   | 110 000                                 | (77.0)   | 105 000 | (73.0)   |
| Serbia                        | 3 100   | (34.0)   | 2 900   | (32.0)   | 2 700   | (30.0)   | 2 500   | (28.0)   | 2 200                                   | (24.0)   | 2 400   | (27.0)   |
| Switzerland                   | 530     | (7.0)    | 580     | (7.5)    | 580     | (7.5)    | 600     | (7.6)    | 480                                     | (6.0)    | 540     | (6.6)    |
|                               |         |          |         |          |         |          |         |          |   |          |         |          |
| Tajikistan                    | 11 000  | (155.0)  | 11 000  | (141.0)  | 9 800   | (128.0)  | 9 100   | (117.0)  | 8 600                                   | (108.0)  | 8 100   | (100.0)  |
| Turkey                        | 20 000  | (29.0)   | 19 000  | (27.0)   | 18 000  | (25.0)   | 17 000  | (24.0)   | 16 000                                  | (22.0)   | 15 000  | (20.0)   |
| Turkmenistan                  | 4700    | (95.0)   | 3 900   | (79.0)   | 4 000   | (79.0)   | 3 400   | (66.0)   | 3 700                                   | (70.0)   | 3 800   | (71.0)   |
| Ukraine                       | 55 000  | (119.0)  | 53 000  | (115.0)  | 50 000  | (110.0)  | 48 000  | (105.0)  | 46 000                                  | (101.0)  | 44 000  | (96.0)   |
| Uzbekistan                    | 29 000  | (105.0)  | 29 000  | (101.0)  | 28 000  | (97.0)   | 27 000  | (93.0)   | 26 000                                  | (89.0)   | 26 000  | (86.0)   |
| Subtotal non-EU/EEA           | 320 000 | (83.3)   | 314 000 | (81.4)   | 299 000 | (77.1)   | 286 000 | (73.3)   | 270 000                                 | (68.8)   | 258 000 | (65.3)   |
| Total European Region         | 409 000 | (46.0)   | 400 000 | (44.8)   | 380 000 | (42.4)   | 365 000 | (40.5)   | 344 000                                 | (38.1)   | 329 000 | (36.3)   |
| Subtotal 18 HPCs              | 345 000 | (89.5)   | 338 000 | (87.3)   | 320 000 | (82.4)   | 306 000 | (78.4)   | 289 000                                 | (73.7)   | 276 000 | (70.0)   |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics. HPCs = high-priority countries.

| 20:         | 14                  | 20      | 15                        | 201               | .6                  | 20                | 17                 | Mean annual                       | Mean annual                       |                        |
|-------------|---------------------|---------|---------------------------|-------------------|---------------------|-------------------|--------------------|-----------------------------------|-----------------------------------|------------------------|
| N           | Rate per<br>100 000 | N       | Rate per<br>100 000       | N                 | Rate per<br>100 000 | N                 | Rate per<br>100000 | % change<br>in rate,<br>2013–2017 | % change<br>in rate,<br>2008–2017 | Country                |
|             |                     |         |                           |                   |                     |                   |                    |                                   |                                   | EU/EEA                 |
| 650         | (7.5)               | 650     | (7.5)                     | 710               | (8.2)               | 650               | (7.4)              | -3.1%                             | -3.3%                             | Austria                |
| 1000        | (9.1)               | 1100    | (9.5)                     | 1100              | (10.0)              | 1100              | (9.2)              | -0.3%                             | -0.9%                             | Belgium                |
| 2 300       | (32.0)              | 2 000   | (28.0)                    | 1900              | (27.0)              | 1 800             | (25.0)             | -6.7%                             | -7.2%                             | Bulgaria               |
| 570         | (13.0)              | 560     | (13.0)                    | 520               | (12.0)              | 420               | (10.0)             | -8.1%                             | -10.1%                            | Croatia                |
| 45          | (3.9)               | 72      | (6.2)                     | 66                | (5.6)               | 60                | (5.1)              | 5.6%                              | 0.0%                              | Cyprus                 |
| 550         | (5.1)               | 580     | (5.5)                     | 590               | (5.5)               | 570               | (5.4)              | 1.4%                              | -5.4%                             | Czech Republic         |
| 340         | (5.9)               | 370     | (6.5)                     | 340               | (5.9)               | 290               | (5.1)              | -6.6%                             |                                   | Denmark                |
| 270         | (21.0)              | 240     | (18.0)                    | 220               | (16.0)              | 200               | (15.0)             | -10.1%                            |                                   | Estonia                |
| 290         | (5.3)               | 310     | (5.6)                     | 260               | (4.7)               | 270               | (4.9)              | -3.3%                             |                                   | Finland                |
| 5 500       | (8.5)               | 5 400   | (8.4)                     | 5 700             | (8.7)               | 5 900             | (9.0)              | 0.3%                              |                                   | France                 |
| 5 000       | (6.1)               | 6 500   | (8.0)                     | 6 600             | (8.1)               | 6 200             | (7.5)              | 6.2%                              |                                   | Germany                |
| 560         | (4.9)               | 500     | (4.5)                     | 470               | (4.2)               | 500               | (4.5)              | -2.6%                             |                                   | Greece                 |
| 920         | (9.4)               | 990     | (10.0)                    | 850               | (8.7)               | 750               | (7.7)              | -10.5%                            |                                   | Hungary                |
| 9           |                     | 8       |                           | 7                 |                     |                   |                    |                                   |                                   |                        |
|             | (2.8)               |         | (2.4)                     |                   | (2.1)               | 15                | (4.5)              | 3.6%                              |                                   | Iceland                |
| 340         | (7.3)               | 340     | (7.2)                     | 340               | (7.1)               | 350               | (7.3)              | -4.3%                             |                                   | Ireland                |
| 4 000       | (6.7)               | 4 000   | (6.7)                     | 4 300             | (7.3)               | 4 400             | (7.4)              | 6.3%                              | -0.9%                             |                        |
| 850         | (42.0)              | 800     | (40.0)                    | 740               | (37.0)              | 620               | (32.0)             | -10.1%                            |                                   | Latvia                 |
| - 4 700     | (50.0)              | - 4.600 | (55.0)                    | - 4.500           | (50.0)              | - 4.500           | (50.0)             | - 0/                              |                                   | Liechtenstein          |
| 1700        | (58.0)              | 1 600   | (55.0)                    | 1 500             | (53.0)              | 1 500             | (50.0)             | -4.5%                             |                                   | Lithuania              |
| 28          | (5.0)               | 34      | (6.1)                     | 33                | (5.8)               | 37                | (6.3)              | -5.8%                             |                                   | Luxembourg             |
| 52          | (12.0)              | 37      | (8.6)                     | 58                | (13.0)              | 48                | (11.0)             | -5.9%                             |                                   | Malta                  |
| 940         | (5.5)               | 980     | (5.8)                     | 1000              | (5.9)               | 890               | (5.2)              | -2.3%                             |                                   | Netherlands            |
| 350         | (6.8)               | 330     | (6.3)                     | 320               | (6.1)               | 270               | (5.1)              | -11.2%                            | -3.8%                             | Norway                 |
| 7 500       | (20.0)              | 7 200   | (19.0)                    | 7 100             | (18.0)              | 6 400             | (17.0)             | -5.1%                             | -2.8%                             | Poland                 |
| 2 500       | (24.0)              | 2 400   | (23.0)                    | 2 100             | (20.0)              | 2 000             | (20.0)             | -6.3%                             | -4.4%                             | Portugal               |
| 17 000      | (86.0)              | 16 000  | (82.0)                    | 15 000            | (74.0)              | 14 000            | (72.0)             | -5.2%                             |                                   | Romania                |
| 370         | (6.8)               | 350     | (6.5)                     | 320               | (5.9)               | 260               | (4.8)              | -13.1%                            | -9.7%                             | Slovakia               |
| 160         | (7.9)               | 150     | (7.2)                     | 140               | (6.5)               | 130               | (6.2)              | -5.3%                             | -7.1%                             | Slovenia               |
| 5 500       | (12.0)              | 4 600   | (10.0)                    | 5 400             | (12.0)              | 5 000             | (11.0)             | -4.1%                             |                                   | Spain                  |
| 730         | (7.5)               | 900     | (9.2)                     | 810               | (8.2)               | 560               | (5.7)              | -6.0%                             |                                   | Sweden                 |
| 7 400       | (11.0)              | 6 600   | (10.0)                    | 6 500             | (9.9)               | 5 900             | (8.9)              | -9.0%                             | _                                 | United Kingdom         |
| 67 000      | (13.1)              | 66 000  | (12.9)                    | 65 000            | (12.7)              | 61 000            | (11.9)             | -3.9%                             |                                   | Subtotal EU/EEA        |
| 0,000       | (1511)              |         | (1217)                    | .,                | (1217)              | 0.000             | (1117)             | 3.9.0                             | 7.5.0                             | Non-EU/EEA             |
| 470         | (16.0)              | 480     | (16.0)                    | 480               | (16.0)              | 580               | (20.0)             | 1.3%                              | 2.5%                              | Albania                |
| 7           | (8.7)               | 5       | (5.9)                     | 5                 | (6.0)               | 1                 | (1.5)              | -32.2%                            |                                   | Andorra                |
| 1 700       | (57.0)              | 1 500   | (50.0)                    | 1300              | (44.0)              | 1 100             | (36.0)             | -12.0%                            |                                   | Armenia                |
|             |                     |         |                           |                   |                     |                   | (67.0)             |                                   |                                   |                        |
| 7 2 0 0     | (76.0)              | 6 800   | (71.0)                    | 6 400             | (66.0)              | 6 500             |                    | -3.7%                             |                                   | Azerbaijan             |
| 4 800       | (51.0)              | 4 700   | (50.0)                    | 4 000             | (42.0)              | 3 500             | (37.0)             | -11.0%                            |                                   | Belarus                |
| 1500        | (42.0)              | 1400    | (39.0)                    | 1100              | (32.0)              | 960               | (27.0)             | -11.5%                            |                                   | Bosnia and Herzegovina |
| 4 200       | (106.0)             | 3 900   | (99.0)                    | 3 600             | (92.0)              | 3 400             | (86.0)             | -7.2%                             |                                   | Georgia                |
| 420         | (5.2)               | 320     | (4.0)                     | 290               | (3.5)               | 270               | (3.2)              | -8.2%                             |                                   | Israel                 |
| 16 000      | (91.0)              | 14 000  | (80.0)                    | 13 000            | (72.0)              | 12 000            | (66.0)             | -10.7%                            |                                   | Kazakhstan             |
| 8 200       | (142.0)             | 8 400   | (144.0)                   | 8 600             | (144.0)             | 8 700             | (144.0)            | 0.5%                              |                                   | Kyrgyzstan             |
| 0           | (0.0)               | 0       | (0.0)                     | 0                 | (0.0)               | 0                 | (0.0)              | -100.0%                           | -100.0%                           |                        |
| 130         | (21.0)              | 92      | (15.0)                    | 100               | (16.0)              | 86                | (14.0)             | -10.7%                            | -5.8%                             | Montenegro             |
| 350         | (17.0)              | 350     | (17.0)                    | 330               | (16.0)              | 270               | (13.0)             | -9.1%                             | -7.8%                             | North Macedonia        |
| 4 700       | (115.0)             | 4 100   | (102.0)                   | 4 100             | (101.0)             | 3 900             | (95.0)             | -7.0%                             | -3.0%                             | Republic of Moldova    |
| 101 000     | (70.0)              | 97 000  | (67.0)                    | 92 000            | (64.0)              | 86 000            | (60.0)             | -4.8%                             | -4.5%                             | Russian Federation     |
| _           | -                   | -       | -                         | -                 | -                   | _                 | -                  | _                                 | -                                 | San Marino             |
| 2 100       | (24.0)              | 1900    | (21.0)                    | 1700              | (19.0)              | 1700              | (19.0)             | -8.4%                             |                                   | Serbia                 |
| 490         | (5.9)               | 610     | (7.3)                     | 660               | (7.8)               | 610               | (7.2)              | 2.2%                              |                                   | Switzerland            |
| 7 600       | (91.0)              | 7 400   | (86.0)                    | 7 500             | (85.0)              | 7 500             | (85.0)             | -4.0%                             | -                                 | Tajikistan             |
| 15 000      | (20.0)              | 14 000  | (18.0)                    | 14 000            | (18.0)              | 14 000            | (17.0)             | -4.0%                             | _                                 | Turkey                 |
| 3 200       | (58.0)              | 2 700   | (49.0)                    | 2 600             | (46.0)              | 2 500             | (43.0)             | -11.8%                            | -                                 | Turkmenistan           |
| 42 000      | (94.0)              | 41 000  | (91.0)                    | 39 000            | (87.0)              | 37 000            | (84.0)             | -3.3%                             |                                   | Ukraine                |
| 25 000      | (82.0)              | 25 000  | (79.0)                    | 24 000            | (76.0)              | 23 000            | (73.0)             |                                   | -                                 | Uzbekistan             |
| 246 000     | (61.9)              |         | (79.0)<br>( <b>59.0</b> ) | 24 000<br>225 000 |                     | 23 000<br>214 000 |                    | -4.0%                             |                                   |                        |
|             |                     | 236 000 |                           |                   | (55.9)              |                   | (52.9)             | -5.1%                             |                                   | Subtotal non-EU/EEA    |
| <br>313 000 | (34.4)              | 302 000 | (33.1)                    | 290 000           | (31.6)              | 275 000           | (29.9)             | -4.7%                             |                                   | Total European Region  |
| 263 000     | (66.3)              | 251 000 | (62.9)                    | 239 000           | (59.6)              | 227 000           | (56.3)             | -5.3%                             | -5.0%                             | Subtotal 18 HPCs       |

Table III. TB cases in children under 15 years, European Region, 2013–2017<sup>a</sup>

|   |                 | 2013                                |                        |                 | 2014                                |                        |                      | 2015                                |                        |                 | 2016                                |                        |                | 2017                                |                        |
|---|-----------------|-------------------------------------|------------------------|-----------------|-------------------------------------|------------------------|----------------------|-------------------------------------|------------------------|-----------------|-------------------------------------|------------------------|----------------|-------------------------------------|------------------------|
| Country/area                              | N               | Percentage<br>among all<br>TB cases | Rate<br>per<br>100 000 | N               | Percentage<br>among all<br>TB cases | Rate<br>per<br>100 000 | N                    | Percentage<br>among all<br>TB cases | Rate<br>per<br>100 000 | N               | Percentage<br>among all<br>TB cases | Rate<br>per<br>100 000 | N              | Percentage<br>among all<br>TB cases | Rate<br>per<br>100 000 |
| EU/EEA                                    |                 |                                     |                        |                 |                                     |                        |                      |                                     |                        |                 |                                     |                        |                |                                     |                        |
| Austria                                   | 23              | (3.5)                               | 1.9                    | 14              | (2.4)                               | 1.1                    | 20                   | (3.4)                               | 1.6                    | 30              | (4.7)                               | 2.4                    | 21             | (3.7)                               | 1.7                    |
| Belgium                                   | 58              | (6.0)                               | 3.1                    | 60              | (6.3)                               | 3.2                    | 69                   | (7.1)                               | 3.6                    | 59              | (5.7)                               | 3.1                    | 68             | (7.0)                               |                        |
| Bulgaria                                  | 146             | (7.6)                               | 14.7                   | 145             | (7.7)                               | 14.6                   | 118                  | (7.1)                               | 11.8                   | 126             | (7.9)                               | 12.6                   | 108            | (7.4)                               | 10.8                   |
| Croatia                                   | 4               | (0.8)                               | 0.6                    | 2               | (0.4)                               | 0.3                    | 8                    | (1.6)                               | 1.3                    | 5               | (1.1)                               | 0.8                    | 3              | (0.8)                               |                        |
| Cyprus                                    | 0               | (0.0)                               | 0.0                    | 0               | (0.0)                               | 0.0                    | 0                    | (0.0)                               | 0.0                    | 0               | (0.0)                               | 0.0                    | 3              | (5.7)                               | 2.2                    |
| Czech Republic                            | 5               | (1.0)                               | 0.3                    | 6               | (1.2)                               | 0.4                    | 5                    | (1.0)                               | 0.3                    | 10              | (1.9)                               | 0.6                    | 6              | (1.2)                               | 0.4                    |
| Denmark                                   | 22              | (6.2)                               | 2.3                    | 9               | (2.8)                               | 0.9                    | 15                   | (4.2)                               | 1.6                    | 18              | (5.5)                               | 1.9                    | 12             | (4.4)                               | 1.2                    |
| Estonia                                   | 1               | (0.3)                               | 0.5                    | 1               | (0.4)                               | 0.5                    | 2                    | (0.9)                               | 1.0                    | 4               | (2.1)                               | 1.9                    | 0              | (0.0)                               | 0.0                    |
| Finland                                   | 2               | (0.7)                               | 0.2                    | 10              | (3.8)                               | 1.1                    | 11                   | (4.1)                               | 1.2                    | 6               | (2.6)                               | 0.7                    | 6              | (2.5)                               | 0.7                    |
| France                                    | 257             | (5.2)                               | 2.1                    | 257             | (5.3)                               | 2.1                    | 339                  | (7.1)                               | 2.7                    | 258             | (5.3)                               | 2.1                    | 400            | (7.8)                               |                        |
| Germany                                   | 171             | (3.9)                               | 1.6                    | 142             | (3.1)                               | 1.3                    | 192                  | (3.3)                               | 1.8                    | 228             | (3.8)                               | 2.1                    | 238            | (4.3)                               |                        |
| Greece                                    | 30              | (5.6)                               | 1.9                    | 10              | (1.9)                               | 0.6                    | 11                   | (2.3)                               | 0.7                    | 21              | (4.8)                               | 1.3                    | 11             | (2.4)                               | 0.7                    |
| Hungary                                   | 8               | (0.8)                               | 0.6                    | 4               | (0.5)                               | 0.3                    | 9                    | (1.0)                               | 0.6                    | 6               | (0.8)                               | 0.4                    | 6              | (0.9)                               |                        |
| Iceland                                   | 0               | (0.0)                               | 0.0                    | 0               | (0.0)                               | 0.0                    | 0                    | (0.0)                               | 0.0                    | 0               | (0.0)                               | 0.0                    | 0              | (0.0)                               |                        |
| Ireland                                   | 9               | (2.4)                               | 0.9                    | 7               | (2.3)                               | 0.7                    | 14                   | (4.9)                               | 1.4                    | 17              | (5.4)                               | 1.7                    | 9              | (2.8)                               | 0.9                    |
| Italy                                     | 205             | (5.2)                               | 2.5                    | 201             | (5.1)                               | 2.4                    | 177                  | (4.7)                               | 2.1                    | 158             | (3.9)                               | 1.9                    | 168            | (4.3)                               |                        |
| Latvia                                    | 45              | (5.0)                               | 15.4                   | 41              | (5.4)                               | 13.9                   | 25                   | (3.5)                               | 8.4                    | 23              | (3.5)                               | 7.7                    | 10             | (1.8)                               | 3.3                    |
| Liechtenstein                             | 0               | -                                   | 0.0                    | 0               | (0.0)                               | 0.0                    | 0                    | (0.0)                               | 0.0                    | 0               | (0.0)                               | 0.0                    | 0              | (0.0)                               |                        |
| Lithuania                                 | 37              | (2.2)                               | 8.5                    | 22              | (1.4)                               | 5.1                    | 36                   | (2.4)                               | 8.5                    | 47              | (3.3)                               | 11.1                   | 44             | (3.2)                               |                        |
| Luxembourg                                | 1               | (2.6)                               | 1.1                    | 0               | (0.0)                               | 0.0                    | 2                    | (6.7)                               | 2.1                    | 1               | (3.4)                               | 1.1                    | 1              |                                     |                        |
| Malta                                     | 0               | (0.0)                               | 0.0                    | 0               | (0.0)                               | 0.0                    | 0                    | (0.0)                               | 0.0                    | 0               | (0.0)                               | 0.0                    | 0              | (0.0)                               |                        |
| Netherlands                               | 33              | (3.9)                               | 1.1                    | 48              | (5.9)                               | 1.7                    | 42                   | (4.9)                               | 1.5                    | 49              | (5.5)                               | 1.8                    | 34             | (4.3)                               |                        |
| Norway                                    | 16              | (4.1)                               | 1.7                    | 14              | (4.3)                               | 1.5                    | 20                   | (6.4)                               | 2.1                    | 14              | (4.7)                               | 1.5                    | 19             | (7.3)                               |                        |
| Poland                                    | 116             | (1.6)                               | 2.0                    | 70              | (1.0)                               | 1.2                    | 81                   | (1.3)                               | 1.4                    | 103             | (1.6)                               | 1.8                    | 68             | (1.2)                               |                        |
| Portugal                                  | 51              | (2.1)                               | 3.3                    | 42              | (1.8)                               | 2.8                    | 43                   | (2.0)                               | 2.9                    | 36              | (1.9)                               | 2.5                    | 43             | (2.4)                               |                        |
| Romania                                   | 695             | (4.2)                               | 22.1                   | 639             | (4.0)                               | 20.6                   | 655                  | (4.3)                               | 21.3                   | 596             | (4.4)                               | 19.4                   | 533            | (4.1)                               |                        |
| Slovakia                                  | 38              | (9.5)                               | 4.6                    | 46              | (13.7)                              | 5.5                    | 67                   | (21.1)                              | 8.1                    | 61              | (20.6)                              | 7.3                    | 46             | (18.5)                              | 5.5                    |
| Slovenia                                  | 2               | (1.4)                               | 0.7                    | 3               | (2.1)                               | 1.0                    | 1                    | (0.8)                               | 0.3                    | 3               | (2.5)                               | 1.0                    | 2              | (1.8)                               | 0.6                    |
| Spain                                     | 382             | (6.8)                               | 5.4                    | 295             | (6.0)                               | 4.2                    | 366                  | (7.3)                               | 5.2                    | 321             | (6.3)                               | 4.6                    | 276            | (6.0)                               | 3.9                    |
| Sweden                                    | 49              | (7.7)                               | 3.0                    | 54              | (8.2)                               | 3.3                    | 47                   | (5.8)                               | 2.8                    | 58              | (8.1)                               | 3.4                    | 26             | (5.0)                               |                        |
| United Kingdom                            | 315             | (4.0)                               | 2.8                    | 280             | (4.0)                               | 2.5                    | 226                  | (3.6)                               | 2.0                    | 225             | (3.7)                               | 1.9                    | 197            | (3.5)                               |                        |
| Subtotal EU/EEA                           | 2 721           | (4.1)                               | 3.4                    | 2 422           | (3.9)                               | 3.0                    | 2 601                | (4.3)                               | 3.2                    | 2 483           | (4.2)                               | 3.1                    | 2 358          | (4.3)                               |                        |
| Non-EU/EEA                                | -,-:            | (11.7                               | 5.1                    | _ ,             | (5.5)                               | 510                    |                      | (115)                               | 512                    | _ 105           | (11-)                               | <b>J</b> 11            |                | (11.5)                              | ,,                     |
| Albania                                   | 19              | (4.0)                               | 3.3                    | 21              | (5.1)                               | 3.8                    | 11                   | (2.7)                               | 2.1                    | 13              | (3.1)                               | 2.5                    | 14             | (2.8)                               | 2.7                    |
| Andorra                                   | 0               | (0.0)                               | 0.0                    | 0               | (0.0)                               | 0.0                    | 1                    | (25.0)                              | 0.0                    | 0               | (0.0)                               | 9.5                    | 0              | (0.0)                               |                        |
| Armenia                                   | 42              | (3.0)                               | 7.4                    | 32              | (2.4)                               | 5.6                    | 24                   | (2.0)                               | 4.1                    | 21              | (1.9)                               | 3.6                    | 20             | (2.2)                               | 3.4                    |
| Azerbaijan                                | 215             | (2.5)                               | 10.1                   | 179             | (2.4)                               | 8.3                    | 179                  | (2.4)                               | 8.1                    | 175             | (2.6)                               | 7.8                    | 166            | (2.3)                               |                        |
| Belarus                                   | 14              | (0.3)                               | 1.0                    | 24              | (0.6)                               | 1.6                    | 18                   | (0.4)                               | 1.2                    | 13              | (0.4)                               | 0.8                    | 13             | (0.4)                               |                        |
| Bosnia and Herzegovina                    | 12              | (1.0)                               | 2.2                    | 15              | (1.3)                               | 2.9                    | 14                   | (1.3)                               | 2.7                    | 10              | (1.1)                               | 2.0                    | 11             | (1.4)                               |                        |
| Georgia                                   | 183             | (4.2)                               | 24.7                   | 129             | (3.4)                               | 17.5                   | 139                  | (3.8)                               | 18.8                   | 123             | (3.7)                               | 16.5                   | 94             | (3.2)                               |                        |
| Israel                                    | 15              | (4.9)                               | 0.7                    | 31              | (8.6)                               | 1.4                    | 6                    | (2.1)                               | 0.3                    | 13              | (5.2)                               | 0.6                    | 16             | (6.8)                               |                        |
| Kazakhstan                                | 511             | (2.6)                               | 11.6                   | 452             | (2.9)                               | 9.9                    | 392                  | (2.7)                               | 8.2                    | 326             | (2.6)                               | 6.6                    | 404            | (3.1)                               |                        |
| Kyrgyzstan                                | 594             | (8.2)                               | 34.3                   | 438             | (5.9)                               | 24.7                   | 537                  | (6.9)                               | 29.4                   | 407             | (5.1)                               | 21.7                   | 436            | (5.7)                               | 22.6                   |
| Monaco                                    | J/4             | (0.2)                               | 74.7                   | 0               | (3.7)                               | 27./                   | -                    | (0.9)                               | 27.7                   | 707             | (5.1)                               | 21./                   | -              | (3.7)                               |                        |
| Montenegro                                | 1               | (0.8)                               | 0.8                    | 0               | (0.0)                               | 0.0                    | 1                    | (1.3)                               | 0.9                    | 0               | (0.0)                               | 0.0                    | 0              | (0.0)                               | 0.0                    |
| North Macedonia                           | 23              | (7.1)                               | 6.5                    | 19              | (6.7)                               | 5.4                    | 14                   | (4.9)                               | 4.0                    | 25              | (9.4)                               | 7.2                    | 10             |                                     |                        |
| Republic of Moldova                       | 134             | (7.1)                               | -                      | 114             | (0.7)                               | -                      | 114                  | (0.0)                               | 0.0                    | 103             | (0.0)                               | 0.0                    | 123            | (4.0)                               | 2.7                    |
| Russian Federation                        | 3 298           | (2.3)                               | 14.4                   | 3 195           | (2.3)                               | 13.5                   | 3 061                | (2.3)                               | 12.6                   | 2 876           | (2.4)                               | 11.6                   | 2 494          | (2.2)                               | 9.8                    |
| San Marino                                | 3270            | (2.2)                               | -                      | J 1/J           | (2.5)                               | -                      | -                    | (2.5)                               | -                      | 2 0/0           | (2.7)                               | -                      |                | (2.2)                               | <i></i>                |
| Serbia                                    | 14              | (0.7)                               | 0.9                    | 41              | (2.2)                               | 2.7                    | 29                   | (1.7)                               | 2.0                    | 17              | (1.1)                               | 1.2                    | 22             | (1.5)                               | 1.5                    |
| Serbia excluding Kosovo <sup>b</sup>      | 14              | (1.2)                               | 0.9                    | 21              | (2.2)                               | 2.7                    | 8                    | (0.9)                               | 0.8                    | 0               | (0.0)                               | 0.0                    | 7              | (0.9)                               |                        |
| Kosovo <sup>b</sup>                       | 14              | (1,2)                               | 0.9                    | 20              | (2.4)                               | 4.1                    | 21                   | (0.9)                               | 4.3                    | 17              | (2.4)                               | 2.9                    | 15             | (2.1)                               |                        |
| Switzerland                               | 22              | (4.2)                               | 1.8                    | 11              | (2.4)                               | 0.9                    | 32                   |                                     | 2.6                    | 30              |                                     | 2.4                    | 23             | (4.1)                               |                        |
| Tajikistan                                | 389             | (6.0)                               | 13.5                   | 334             |                                     | 11.4                   | 328                  | (5.7)<br>(5.3)                      | 10.9                   | 389             | (4.9)                               | 12.7                   | 353            | (5.6)                               |                        |
| Turkey                                    | 581             | (4.3)                               | 2.9                    | 550             | (5.3)<br>(4.1)                      | 2.8                    | 633                  |                                     | 3.2                    | 628             | (6.2)                               | 3.1                    | 551            | (4.6)                               |                        |
| Turkmenistan                              | 581             | (4.3)                               | 2.9                    | 550             | (4.1)                               | 2.8                    | 033                  | (5.0)                               | 3.2                    | 5               | (5.1)                               | 0.3                    | 39             |                                     |                        |
| Ukraine                                   |                 | (1.3)                               | 0.7                    | F22             | (1.3)                               |                        | F / C                | (1.6)                               |                        |                 | (0.2)                               |                        |                | (1.7)                               |                        |
| UKTUIIIE                                  | 638             | (7.8)                               | 9.7<br>23.1            | 532             | (8.4)                               | 8.0<br>22.3            | 568<br>1 <i>7</i> 95 | (9.4)                               | 8.4<br>20.7            | 571<br>2 010    | (1.7)<br>(10.9)                     | 8.4<br>22.8            | 611<br>1 989   |                                     |                        |
| Uzhakistan                                |                 |                                     |                        |                 |                                     |                        |                      |                                     | /0//                   | 7 (11()         | 110.91                              | 22.8                   | 1 989          | (10.3)                              | 22.3                   |
| Uzbekistan                                | 1960            |                                     |                        | 1 913           |                                     |                        |                      |                                     |                        |                 |                                     |                        |                |                                     | 0.1                    |
| Subtotal non-EU/EEA Total European Region | 8 665<br>11 386 | (2.9)                               | 11.0                   | 8 030<br>10 452 | (3.0)                               | 10.0                   | 7 896<br>10 497      | (3.1)                               | 9.7                    | 7 755<br>10 238 | (3.3)                               | 9.2                    | 7 389<br>9 747 | (3.2)                               |                        |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics.

HPCs = high-priority countries.

For non-EU/EEA countries and areas, new and relapse cases under 15 years of age are included; for EU/EEA countries, all TB cases under 15 years of age are included.

For the purposes of this publication, all references to "Kosovo" in the tables and annexes, should be understood/read as "Kosovo (in accordance with Security Council resolution 1244 (1999))".

Table IV. TB cases by origin, European Region, 2013–2017

|                                  |                        |                            |                        | 2013                       |                     |                            |                        |              |                            |                        | 2014                       |                     |                            |                        |                        |                            |                       | 2015                       |                     |                            |                        |
|----------------------------------|------------------------|----------------------------|------------------------|----------------------------|---------------------|----------------------------|------------------------|--------------|----------------------------|------------------------|----------------------------|---------------------|----------------------------|------------------------|------------------------|----------------------------|-----------------------|----------------------------|---------------------|----------------------------|------------------------|
|                                  | Fore                   | ign                        | Nati                   | ve                         | Unkn<br>orig        |                            |                        | Fore         | ign                        | Nativ                  | re                         | Unkn<br>oris        |                            |                        | Forei                  | gn                         | Nativ                 | re                         | Unkno<br>orig       |                            |                        |
| Country/area                     | N                      | Percentage<br>among all TB | N                      | Percentage<br>among all TB | N                   | Percentage<br>among all TB | All TB<br>cases<br>(N) | N            | Percentage<br>among all TB | N                      | Percentage<br>among all TB |                     | Percentage<br>among all TB | All TB<br>cases<br>(N) | N                      | Percentage<br>among all TB | N                     | Percentage<br>among all TB |                     | Percentage<br>among all TB | All TB<br>cases<br>(N) |
|                                  |                        | 교등                         |                        | 교등                         |                     | 교                          |                        |              | 교                          |                        | ᆲ                          |                     | 교                          |                        |                        | a P                        |                       | a E                        |                     | 교등                         |                        |
| EU/EEA                           |                        |                            |                        | , ,                        |                     |                            |                        |              |                            |                        | , ,                        |                     | , ,                        |                        |                        | , ,                        |                       | , ,                        |                     |                            |                        |
| Austria                          | 335                    | (51.3)                     | 318                    | (48.7)                     | 0                   | (0.0)                      | 653                    | 336          | (57.3)                     | 250                    | (42.7)                     | 0                   | (0.0)                      | 586                    | 364                    | (62.4)                     | 219                   | (37.6)                     | 0                   | (0.0)                      | 583                    |
| Belgium <sup>a</sup>             | 508                    | (52.8)                     | 453                    | (47.0)                     | 2                   | (0.2)                      | 963                    | 499          | (52.6)                     | 450                    | (47.4)                     | 0                   | (0.0)                      | 949                    | 512                    | (52.4)                     | 465                   | (47.6)                     | 0                   | (0.0)                      | 977                    |
| Bulgaria                         | 10                     | (0.5)                      | 1 922                  | (99.5)                     | 0                   | (0.0)                      | 1 932                  | 12           | (0.6)                      | 1860                   | (99.4)                     | 0                   | (0.0)                      | 1 872                  | 10                     | (0.6)                      | 1 650                 | (99.4)                     | 0                   | (0.0)                      | 1 660                  |
| Croatia                          | 66                     | (12.8)                     | 296                    | (57.3)                     |                     |                            | 517                    | 63           | (12.6)                     | 272                    | (54.5)                     | 164                 | (32.9)                     | 499                    | 79                     | (16.2)                     | 244                   | (50.0)                     |                     | (33.8)                     | 488                    |
| Cyprus                           | 35                     | (85.4)                     | 6                      | (14.6)                     | 0                   | (0.0)                      | 41                     | 34           | (82.9)                     | /                      | (17.1)                     | 0                   | (0.0)                      | 41                     | 52                     | (82.5)                     | 11                    | (17.5)                     | 0                   | (0.0)                      | 63                     |
| Czech Republic                   | 78                     | (15.7)                     | 419                    | (84.3)                     | 0                   | (0.0)                      | 497                    | 96           | (18.8)                     | 415                    | (81.2)                     | 0                   | (0.0)                      | 511                    | 110                    | (21.3)                     | 407                   | (78.7)                     | 0                   | (0.0)                      | 517                    |
| Denmark<br>Estania               | 215                    | (60.4)                     | 141                    | (39.6)                     | 0                   | (0.0)                      | 356<br>290             | 223          | (69.7)<br>(16.5)           | 97<br>207              | (30.3)                     | 0                   | (0.0)                      | 320<br>248             | 242<br>38              | (67.8)                     | 115<br>179            | (32.2)                     | 0                   | (0.0)                      | 357<br>217             |
| <i>Estonia</i><br>Finland        | 45<br>85               | (15.5)<br>(31.1)           | 245<br>184             | (84.5)<br>(67.4)           | 0                   | (0.0)                      | 273                    | 41<br>88     | (33.5)                     | 171                    | (83.5)                     | 4                   | (1.5)                      | 263                    | 112                    | (17.5)<br>(41.5)           | 151                   | (55.9)                     | 7                   | (2.6)                      | 270                    |
| France                           | 2 574                  | (52.0)                     | 2 017                  | (40.8)                     | 356                 | (7.2)                      | 4 947                  | 2 736        | (56.0)                     | 1845                   | (37.7)                     | 307                 | (6.3)                      | 4 888                  | 2 655                  | (56.0)                     | 1826                  | (38.5)                     | 263                 | (5.5)                      | 4 744                  |
| Germany                          | 2 350                  | (54.1)                     | 1741                   | (40.8)                     | 249                 | (5.7)                      | 4 340                  | 2 694        | (59.5)                     | 1 611                  | (35.6)                     | 219                 | (4.8)                      | 4 524                  | 4 085                  | (70.0)                     | 1586                  | (27.2)                     | 163                 | (2.8)                      | 5 834                  |
| Greece <sup>a</sup>              | 229                    | (42.4)                     | 306                    | (56.7)                     | 5                   | (0.9)                      | 540                    | 197          | (38.0)                     | 320                    | (61.7)                     | 2                   | (0.4)                      | 519                    | 189                    | (39.2)                     | 289                   | (60.0)                     | 4                   | (0.8)                      | 482                    |
| Hungarya                         | 34                     | (3.3)                      | 1 011                  | (96.7)                     | 0                   | (0.0)                      | 1 0 4 5                | 32           | (3.8)                      | 819                    | (96.2)                     | 0                   | (0.0)                      | 851                    | 27                     | (3.0)                      | 879                   | (97.0)                     | 0                   | (0.0)                      | 906                    |
| Iceland                          | 5                      | (45.5)                     | 6                      | (54.5)                     | 0                   | (0.0)                      | 11                     |              | (100.0)                    | 0                      | (0.0)                      | 0                   | (0.0)                      | 9                      | 6                      | (85.7)                     | 1                     | (14.3)                     | 0                   | (0.0)                      | 700                    |
| Ireland                          | 169                    | (45.2)                     | 202                    | (54.0)                     | 3                   | (0.8)                      | 374                    | 135          | (43.4)                     | 175                    | (56.3)                     | 1                   | (0.3)                      | 311                    | 129                    | (45.6)                     | 144                   | (50.9)                     | 10                  | (3.5)                      | 283                    |
| Italy                            | 1731                   | (43.6)                     | 1356                   | (34.1)                     | 886                 | (22.3)                     | 3 973                  | 1806         | (46.1)                     | 1 352                  | (34.5)                     | 758                 | (19.4)                     | 3 916                  | 1764                   | (46.8)                     | 1 227                 | (32.6)                     |                     | (20.6)                     | 3 769                  |
| Latvia                           | 40                     | (4.4)                      | 864                    | (95.6)                     | 0                   | (0.0)                      | 904                    | 37           | (4.9)                      | 724                    | (95.1)                     | 0                   | (0.0)                      | 761                    | 45                     | (6.2)                      | 676                   | (93.8)                     | 0                   | (0.0)                      | 72                     |
| Liechtenstein                    | 0                      | -                          | 0                      | -                          | 0                   | -                          | 0                      | 0            | (0.0)                      |                        | (100.0)                    | 0                   | (0.0)                      | 1                      | 0                      | (0.0)                      | 0                     | (0.0)                      |                     | 100.0)                     | 2                      |
| Lithuania                        | 40                     | (2.3)                      | 1 665                  | (97.7)                     | 0                   | (0.0)                      | 1 705                  | 42           | (2.6)                      | 1 565                  | (97.4)                     | 0                   | (0.0)                      | 1 607                  | 15                     | (1.0)                      | 1 492                 | (99.0)                     | 0                   | (0.0)                      | 1 507                  |
| Luxembourg                       | 36                     | (94.7)                     | 2                      | (5.3)                      | 0                   | (0.0)                      | 38                     | 20           | (83.3)                     | 4                      | (16.7)                     | 0                   | (0.0)                      | 24                     | 20                     | (66.7)                     | 10                    | (33.3)                     | 0                   | (0.0)                      | 30                     |
| Malta                            | 44                     | (88.0)                     | 6                      | (12.0)                     | 0                   | (0.0)                      | 50                     | 42           | (91.3)                     | 4                      | (8.7)                      | 0                   | (0.0)                      | 46                     | 24                     | (75.0)                     | 8                     | (25.0)                     | 0                   | (0.0)                      | 32                     |
| Netherlands                      | 623                    | (73.7)                     | 222                    | (26.3)                     | 0                   | (0.0)                      | 845                    | 601          | (73.8)                     | 213                    | (26.2)                     | 0                   | (0.0)                      | 814                    | 625                    | (72.5)                     | 236                   | (27.4)                     | 1                   | (0.1)                      | 862                    |
| Norway                           | 345                    | (88.0)                     | 47                     | (12.0)                     | 0                   | (0.0)                      | 392                    | 302          | (93.5)                     | 21                     | (6.5)                      | 0                   | (0.0)                      | 323                    | 277                    | (88.5)                     | 36                    | (11.5)                     | 0                   | (0.0)                      | 313                    |
| Polanda                          | 52                     | (0.7)                      | 7 198                  | (99.3)                     | 0                   | (0.0)                      | 7 250                  | 49           | (0.7)                      | 6 649                  | (99.3)                     | 0                   | (0.0)                      | 6 698                  | 52                     | (0.8)                      | 6 378                 | (99.2)                     | 0                   | (0.0)                      | 6 430                  |
| Portugal                         | 392                    | (16.3)                     | 2 001                  | (83.0)                     | 17                  | (0.7)                      | 2 410                  | 359          | (15.8)                     | 1 916                  | (84.1)                     | 3                   | (0.1)                      | 2 278                  | 368                    | (16.8)                     | 1825                  | (83.1)                     | 3                   | (0.1)                      | 2 196                  |
| Romania                          | 48                     | (0.3)                      | 16 641                 | (99.7)                     | 0                   | (0.0)                      | 16 689                 | 44           | (0.3)                      | 15 835                 | (99.7)                     | 0                   | (0.0)                      | 15 879                 | 36                     | (0.2)                      | 15 145                | (99.7)                     | 2                   | (0.0)                      | 15 183                 |
| Slovakia                         | 6                      | (1.5)                      | 395                    | (98.5)                     | 0                   | (0.0)                      | 401                    | 8            | (2.4)                      | 328                    | (97.6)                     | 0                   | (0.0)                      | 336                    | 11                     | (3.5)                      | 306                   | (96.5)                     | 0                   | (0.0)                      | 317                    |
| Slovenia                         | 46                     | (32.9)                     | 94                     | (67.1)                     | 0                   | (0.0)                      | 140                    | 36           | (25.0)                     | 108                    | (75.0)                     | 0                   | (0.0)                      | 144                    | 50                     | (38.5)                     | 80                    | (61.5)                     | 0                   | (0.0)                      | 130                    |
| Spain                            | 1550                   | (27.5)                     | 3 213                  | (57.0)                     | 869                 | (15.4)                     | 5 632                  | 1 425        | (29.0)                     | 2 851                  | (58.0)                     | 637                 | (13.0)                     | 4 913                  | 1562                   | (31.1)                     | 3 292                 | (65.6)                     | 167                 | (3.3)                      | 5 021                  |
| Sweden<br>United Kingdom         | 569                    | (89.0)                     | 70                     | (11.0)                     | 101                 | (0.0)                      | 639                    | 604<br>4 893 | (91.7)<br>(69.6)           | 2.019                  | (8.3)                      | -                   | (0.0)                      | 659<br>7 029           | 729                    | (89.4)                     | 1760                  | (10.6)                     | 120                 | (0.0)                      | 815<br>6 224           |
| United Kingdom Subtotal EU/EEA   | 5 568<br><b>17 828</b> | (70.7) <b>(27.1)</b>       | 2 121<br><b>45 162</b> | (27.0)<br>( <b>68.7</b> )  | 181<br><b>2 727</b> | (2.3)<br>(4.1)             | 7 870                  | 17 463       | (28.2)                     | 2 018<br><b>42 143</b> | (68.2)                     | 118<br><b>2 213</b> | (1.7)<br>(3.6)             | 61 819                 | 4 356<br><b>18 544</b> | (70.0)<br>(30.4)           | 1748<br><b>40 711</b> | (28.1)<br>(66.8)           | 120<br>1 <b>685</b> | (2.8)                      | 60 940                 |
| Non-EU/EEA                       | 17 020                 | (2).1)                     | 75 102                 | (00.7)                     | - 1-1               | (4.1)                      | 03 / 1/                | 17 403       | (20.2)                     | 72 173                 | (00.2)                     | 2 2 1 3             | (3.0)                      | 01017                  | 10 544                 | (50.4)                     | 70 / 11               | (00.0)                     | 1005                | (2.0)                      | 00 740                 |
| Albania                          | 0                      | (0.0)                      | 474                    | (100.0)                    | -                   | -                          | 474                    | 0            | (0.0)                      | 408                    | (100.0)                    | -                   | -                          | 408                    | 4                      | (1.0)                      | 411                   | (99.0)                     | -                   | -                          | 415                    |
| Andorra                          | 4                      | (80.0)                     | 1                      | (20.0)                     | -                   | -                          | 5                      |              | (100.0)                    | 0                      | (0.0)                      | -                   | -                          | 6                      | 0                      | (0.0)                      |                       | (100.0)                    | -                   | -                          | 4                      |
| Armenia                          | 6                      | (0.4)                      | 1 411                  | (99.6)                     | -                   | -                          | 1 417                  | 0            | (0.0)                      | 1342                   | (100.0)                    | -                   | -                          | 1342                   | 1                      | (0.1)                      | 1 184                 | (99.9)                     | -                   | -                          | 1 185                  |
| Azerbaijan                       | 9                      | (0.1)                      | 8 588                  |                            | -                   | -                          | 8 597                  | 11           | (0.1)                      | 7 528                  | (99.9)                     | -                   | -                          | 7 539                  | 15                     | (0.2)                      | 7 486                 | (99.8)                     | -                   | -                          | 7 501                  |
| Belarus                          | 0                      | (0.0)                      | 4 859                  | (100.0)                    | -                   | -                          | 4 859                  | 0            | (0.0)                      | 4 274                  | (100.0)                    | -                   | -                          | 4 274                  | 0                      | (0.0)                      | 4 177                 | (100.0)                    | -                   | -                          | 4 177                  |
| Bosnia and Herzegovina           | 0                      | (0.0)                      | 1 261                  | (100.0)                    | -                   | -                          | 1 261                  | 0            | (0.0)                      | 1196                   | (100.0)                    | -                   | -                          | 1 196                  | 0                      | (0.0)                      | 1095                  | (100.0)                    | -                   | -                          | 109                    |
| Georgia                          | 0                      | (0.0)                      | 4 319                  | (100.0)                    | -                   | -                          | 4 319                  | 0            | (0.0)                      |                        | (100.0)                    | -                   | -                          | 3 850                  | 0                      | (0.0)                      | 3 611                 | (100.0)                    | -                   | -                          | 3 61                   |
| Israel                           | 254                    | (82.5)                     | 54                     | (17.5)                     | -                   | -                          | 308                    | 298          | (82.5)                     | 63                     | (17.5)                     | -                   | -                          | 361                    | 233                    |                            | 47                    |                            | -                   | -                          | 280                    |
| Kazakhstan                       | 43                     | (0.2)                      | 19 814                 |                            | -                   | -                          | 19 857                 | 43           | (0.3)                      | 15 675                 | (99.7)                     | -                   | -                          | 15 718                 | 78                     | (0.5)                      | 14 553                |                            | -                   | -                          | 14 63                  |
| Kyrgyzstan                       | 0                      | (0.0)                      | 7 209                  | (100.0)                    | -                   | -                          | 7209                   | 0            | (0.0)                      | 7 423                  | (100.0)                    | -                   | -                          | 7 423                  | 0                      | (0.0)                      | 7 833                 | (100.0)                    | -                   | -                          | 7 833                  |
| Monaco                           | -                      | -                          | -                      | -                          | -                   | -                          | -                      | -            | -                          | -                      | -                          | -                   | -                          | -                      | -                      | -                          | -                     | -                          | -                   | -                          |                        |
| Montenegro                       | 2                      | (1.7)                      | 118                    |                            | -                   | -                          | 120                    | 3            | (2.7)                      | 110                    | (97.3)                     | -                   | -                          | 113                    | 3                      | (3.8)                      | 77                    |                            | -                   | -                          | 80                     |
| North Macedonia                  | 15                     | (4.6)                      | 308                    |                            | -                   | -                          | 323                    | 17           | (6.0)                      | 268                    | (94.0)                     | -                   | -                          | 285                    | 10                     | (3.5)                      | 274                   |                            | -                   | -                          | 284                    |
| Republic of Moldova              | 39                     | (0.8)                      |                        | (99.2)                     | _                   | _                          | 5 051                  | 2600         | (0.0)                      |                        | (100.0)                    | -                   | -                          | 4 636                  | 37                     | (0.9)                      | 4 174                 | (99.1)                     | -                   | -                          | 4 21                   |
| Russian Federation<br>San Marino | 2432                   | (1.7)                      | 140 101                | (98.3)                     | -                   | _                          | 142 533                | 2690         | (2.0)                      | 133 478                | (98.0)                     | _                   | -                          | 136 168                | 0                      | (0.0)                      | 130 904               | (100.0)                    | -                   | _                          | 130 90                 |
| San Marino<br>Serbia             | - 8                    | (0.4)                      | 2 119                  | (99.6)                     | -                   | _                          | 2 127                  | 4            | (0.2)                      | 1828                   | (99.8)                     |                     |                            | 1832                   | 7                      | (0.4)                      | 1 651                 | (99.6)                     | _                   | _                          | 1 4 5                  |
| Serbia excluding                 | ŏ                      | (0.4)                      | 2 119                  | (33.0)                     |                     |                            | 2 12/                  | 4            | (0.2)                      | 1 6 2 8                | (77.8)                     |                     | _                          | 1 652                  | /                      | (0.4)                      | 1001                  | (77.0)                     |                     |                            | 165                    |
| Kosovo <sup>b</sup>              | -                      | -                          | -                      | -                          | -                   | -                          | -                      | -            | -                          | -                      | -                          | -                   | -                          | -                      | -                      | -                          | -                     | -                          | -                   | -                          |                        |
| Kosovob                          | -                      | -                          | -                      | -                          | -                   | -                          | -                      | -            | -                          | -                      | -                          | -                   | -                          | -                      | -                      | -                          | -                     | -                          | -                   | -                          |                        |
| Switzerland                      | 396                    | (75.3)                     | 130                    | (24.7)                     | -                   | -                          | 526                    | 359          | (75.9)                     | 114                    | (24.1)                     | -                   | -                          | 473                    | 428                    | (75.9)                     | 136                   | (24.1)                     | -                   | -                          | 564                    |
| Tajikistan                       | 0                      | (0.0)                      |                        | (100.0)                    | -                   | -                          | 6 495                  | 6260         | (100.0)                    | 0                      | (0.0)                      | -                   | -                          | 6 260                  | 0                      | (0.0)                      | 6 232                 | (100.0)                    | -                   | -                          | 6 23.                  |
| Turkey                           | 491                    | (3.7)                      |                        | (96.3)                     | -                   | -                          | 13 409                 | 809          | (6.0)                      | 12 569                 | (94.0)                     | -                   | -                          | 13 378                 | 872                    | (6.8)                      |                       | (93.2)                     | -                   | -                          | 12 77                  |
| Turkmenistan                     | 0                      | (0.0)                      |                        | (100.0)                    | -                   | -                          | 3 676                  | 0            | (0.0)                      |                        | (100.0)                    | -                   | -                          | 2 854                  | 0                      | (0.0)                      |                       | (100.0)                    | -                   | -                          | 2 47                   |
| Ukraine                          | 0                      | (0.0)                      | 48 134                 | (100.0)                    | -                   | -                          | 48 134                 | 22           | (0.1)                      | 40 280                 | (99.9)                     | -                   | -                          | 40 302                 | 10                     | (0.0)                      | 35 294                | (100.0)                    | -                   | -                          | 35 30                  |
| Uzbekistan                       | 29                     | (0.1)                      | 25 139                 | (99.9)                     | -                   | -                          | 25 168                 | 86           | (0.4)                      | 22 718                 | (99.6)                     | -                   | -                          | 22 804                 | 47                     | (0.2)                      | 19 008                |                            | -                   | -                          | 19 05                  |
| OLUCINISTAN                      |                        | (4.2)                      | 292 140                | (98.7)                     | 0                   | (0.0)                      | 295 868                | 10 608       | (3.9)                      | 260 614                | (96.1)                     | -                   | (0.0)                      | 271 222                | 1745                   | (0.7)                      |                       |                            | -                   | -                          | 254 268                |
| Subtotal non-EU/EEA              | 3 728                  | (1.3)                      | 2/2 170                | (,,,,,,                    |                     |                            |                        |              |                            |                        |                            |                     |                            |                        |                        |                            |                       |                            |                     |                            |                        |
|                                  | 3 728<br>21 556        |                            | 337 302                | -                          |                     | (0.8)                      |                        |              | (8.4)                      | 302 757                | (90.9)                     | -                   | (0.0)                      | 333 041                | 20 289                 | (6.4)                      | 293 234               |                            | -                   | -                          | 315 208                |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics. HPCs = high-priority countries.

\*\*Origin is defined as nationality (citizenship), and if not reported it is defined as country of birth.

\*\*(In accordance with Security Council Resolution 1244 (1999)).

|  |  |   | 2016  | Hales                           |                            |  |  |   |  | 2017  | Hadea            |                            |   |  |
|--|--|---|---|---------------------------------|----------------------------|--|--|---|--|---|------------------|----------------------------|---|--|
| Fore   |  | Nati  | /e  | Unkr<br>ori                     |                            | ==   | Fore   | ign   | Nati   | ve  | Unkn<br>ori      |                            |   |  |
| N  | Percentage<br>among all TB   | N   | Percentage<br>among all TB  | N                               | Percentage<br>among all TB | All TB<br>cases<br>(N)   | N  | Percentage<br>among all TB  | N  | Percentage<br>among all TB  | N                | Percentage<br>among all TB | All TB<br>cases (N)   | Country  |
|  |  |   |   |                                 |                            |  |  |   |  |   |                  |                            |   | EU/EEA   |
| 424  | (66.9)   | 210   | (33.1)  | 0                               | (0.0)                      | 634  | 373  | (65.4)  | 197  | (34.6)  | 0                | (0.0)                      |   | Austria  |
| 545  | (52.3)   | 497   | (47.7)  | 0                               | (0.0)                      | 1042   | 506  | (52.1)  | 466  | (47.9)  | 0                | (0.0)                      |   | Belgium <sup>a</sup>   |
| 4  | (0.2)  | 1 599   | (99.8)  | 0                               | (0.0)                      | 1 603  | 6  | (0.4)   | 1 457  | (99.6)  | 0                | (0.0)                      |   | Bulgaria   |
| 1  | (0.2)  | 463   | (99.8)  | 0                               | (0.0)                      | 464  | 0  | (0.0)   | 371  | (100.0)   | 0                | (0.0)                      |   | Croatia  |
| 56<br>151  | (93.3)<br>(29.3)   | 245   | (6.7)<br>(70.7)   | 0                               | (0.0)                      | 60<br>516  | 38<br>159  | (71.7)  | 15<br>346  | (28.3)<br>(68.5)  | 0                | (0.0)                      |   | Cyprus<br>Czech Republic   |
| 221  | (67.0)   | 365<br>109  | (33.0)  | 0                               | (0.0)                      | 330  | 184  | (66.9)  | 90   | (32.7)  | 1                | (0.4)                      |   | Denmark  |
| 42   | (21.8)   | 151   | (78.2)  | 0                               | (0.0)                      | 193  | 23   | (13.1)  | 152  | (86.9)  | 0                | (0.0)                      |   | Estonia  |
| 112  | (48.1)   | 116   | (49.8)  | 5                               | (2.1)                      | 233  | 95   | (40.1)  | 132  | (55.7)  | 10               | (4.2)                      |   | Finland  |
| 2 729  | (55.6)   | 1856  | (37.8)  | 322                             | (6.6)                      | 4 9 0 7  | 3 019  | (58.8)  | 1 815  | (35.4)  | 297              | (5.8)                      |   | France   |
| 4 331  | (72.8)   | 1500  | (25.2)  | 118                             | (2.0)                      | 5 949  | 3 820  | (69.6)  | 1 4 4 1  | (26.3)  | 225              | (4.1)                      | 5 486   | Germany  |
| 188  | (42.7)   | 252   | (57.3)  | 0                               | (0.0)                      | 440  | 197  | (42.2)  | 270  | (57.8)  | 0                | (0.0)                      | 467   | Greecea  |
| 30   | (3.8)  | 756   | (96.2)  | 0                               | (0.0)                      | 786  | 25   | (3.6)   | 660  | (96.4)  | 0                | (0.0)                      |   | Hungarya   |
| 4  | (66.7)   | 2   | (33.3)  | 0                               | (0.0)                      | 6  | 8  | (57.1)  | 6  | (42.9)  | 0                | (0.0)                      |   | Iceland  |
| 161  | (51.1)   | 142   | (45.1)  | 12                              | (3.8)                      | 315  | 144  | (45.3)  | 154  | (48.4)  | 20               | (6.3)                      |   | Ireland  |
| 2 5 0 9  | (62.2)   | 1180  | (29.3)  | 343                             | (8.5)                      | 4 032  | 2 611  | (66.2)  | 1333   | (33.8)  | 0                | (0.0)                      | 3 944   | ,  |
| 43   | (6.5)  | 617   | (93.5)  | 0                               | (0.0)                      | 660  | 41   | (7.4)   | 511  | (92.6)  | 0                | (0.0)                      |   | Latvia   |
| 2  | (100.0)  | 0   | (0.0)   | 0                               | (0.0)                      | 2  | 0  | (0.0)   | 1 272  | (100.0)   | 0                | (0.0)                      |   | Liechtenstein  |
| 13   | (0.9)  | 1 429   | (99.1)  | 0                               | (0.0)                      | 1 4 4 2  | 15   | (1.1)   | 1 372  | (98.9)  | 0                | (0.0)                      |   | Lithuania  |
| 22<br>48   | (75.9)<br>(96.0)   | 7 2   | (24.1)  | 0                               | (0.0)                      | 29<br>50   | 25<br>39   | (78.1)<br>(92.9)  | 7  | (21.9)<br>(7.1)   | 0                | (0.0)                      |   | Luxembourg<br>Malta  |
| 670  | (75.5)   | 215   | (24.2)  | 2                               | (0.0)                      | 887  | 586  | (74.5)  | 198  | (25.2)  | 3                | (0.4)                      |   | Netherlands  |
| 262  | (88.8)   | 33  | (11.2)  | 0                               | (0.0)                      | 295  | 231  | (88.5)  | 30   | (11.5)  | 0                | (0.0)                      |   | Norway   |
| 92   | (1.4)  | 6 352   | (98.6)  | 0                               | (0.0)                      | 6 444  | 108  | (1.9)   | 5 679  | (98.1)  | 0                | (0.0)                      |   | Poland <sup>a</sup>  |
| 363  | (18.8)   | 1572  | (81.2)  | 1                               | (0.1)                      | 1936   | 351  | (19.5)  | 1448   | (80.4)  | 1                | (0.1)                      |   | Portugal   |
| 24   | (0.2)  | 13 577  | (99.8)  | 0                               | (0.0)                      | 13 601   | 27   | (0.2)   | 12 977   | (99.8)  | 0                | (0.0)                      |   | Romania  |
| 11   | (3.7)  | 285   | (96.3)  | 0                               | (0.0)                      | 296  | 5  | (2.0)   | 244  | (98.0)  | 0                | (0.0)                      |   | Slovakia   |
| 43   | (36.4)   | 75  | (63.6)  | 0                               | (0.0)                      | 118  | 46   | (41.1)  | 66   | (58.9)  | 0                | (0.0)                      | 112   | Slovenia   |
| 1 4 4 8  | (28.6)   | 2 920   | (57.7)  | 695                             | (13.7)                     | 5 063  | 1 352  | (29.6)  | 2 319  | (50.7)  | 899              | (19.7)                     | 4 570   | Spain  |
| 642  | (89.9)   | 72  | (10.1)  | 0                               | (0.0)                      | 714  | 468  | (90.0)  | 52   | (10.0)  | 0                | (0.0)                      | 520   | Sweden   |
| 4 373  | (71.5)   | 1658  | (27.1)  | 85                              | (1.4)                      | 6 116  | 3 797  | (68.2)  | 1634   | (29.4)  | 136              | (2.4)                      |   | United Kingdom   |
| 19 564   | (33.1)   | 38 016  | (64.3)  | 1583                            | (2.7)                      | 59 163   | 18 299   | (33.1)  | 35 446   | (64.1)  | 1592             | (2.9)                      | 55 337  | Subtotal EU/EEA Non-EU/EEA   |
| 0  | (0.0)  | 415   | (100.0)   | -                               | -                          | 415  | 0  | (0.0)   | 503  | (100.0)   | -                | -                          | 503   | Albania  |
| 0  | (0.0)  | 4   | (100.0)   | -                               | -                          | 4  | 0  | (0.0)   | 1  | (100.0)   | -                | -                          | 1   | Andorra  |
|  | (0.0)  |   | (100 0)   |                                 |                            |  |  |   |  | (99.2)  | -                | -                          | 026   | 4  |
| 0  | (0.0)  | 1 080   | (100.0)   | -                               | -                          | 1 080  | 7  | (0.8)   | 919  |   |                  |                            | 720   | Armenia  |
| 0 12   | (0.0)  | 1 080<br>6 695  | (99.8)  | -                               | -                          | 1 080<br>6 707   | 7<br>0   | (0.8)   | 919<br>7 129   | (100.0)   | -                | -                          |   | Azerbaijan   |
| 12<br>0  | (0.2)  | 6 695<br>3 598  | (99.8)<br>(100.0)   | -<br>-<br>-                     | -<br>-                     |  |  | (0.0)<br>(0.0)  | 7 129<br>3 052   | (100.0)<br>(100.0)  | -                | -                          | 7 129<br>3 052  | Azerbaijan<br>Belarus  |
| 12<br>0<br>0   | (0.2)<br>(0.0)<br>(0.0)  | 6 695<br>3 598<br>907   | (99.8)<br>(100.0)<br>(100.0)  | -<br>-<br>-                     | -                          | 6 707<br>3 598<br>907  | 0<br>0<br>0  | (0.0)<br>(0.0)<br>(0.0)   | 7 129<br>3 052<br>768  | (100.0)<br>(100.0)<br>(100.0)   | -<br>-<br>-      |                            | 7 129<br>3 052<br>768   | Azerbaijan<br>Belarus<br>Bosnia and Herzegovina  |
| 12<br>0<br>0<br>0  | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)   | 6 695<br>3 598<br>907<br>3 330  | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)   | -                               | -                          | 6 707<br>3 598<br>907<br>3 330   | 0<br>0<br>0  | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)  | 7 129<br>3 052<br>768<br>2 927   | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)  | -<br>-<br>-      | -                          | 7 129<br>3 052<br>768<br>2 927  | Azerbaijan<br>Belarus<br>Bosnia and Herzegovina<br>Georgia   |
| 12<br>0<br>0<br>0<br>0<br>202  | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)  | 6 695<br>3 598<br>907<br>3 330<br>48  | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)   | -<br>-<br>-                     | -<br>-<br>-<br>-           | 6707<br>3598<br>907<br>3330<br>250   | 0<br>0<br>0<br>0<br>0  | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(81.2)  | 7 129<br>3 052<br>768<br>2 927<br>44   | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)  | -<br>-<br>-      | -<br>-<br>-                | 7 129<br>3 052<br>768<br>2 927<br>234   | Azerbaijan<br>Belarus<br>Bosnia and Herzegovina<br>Georgia<br>Israel   |
| 12<br>0<br>0<br>0<br>202<br>153  | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)  | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505  | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)   | -<br>-<br>-<br>-                | -<br>-<br>-<br>-           | 6 707<br>3 598<br>907<br>3 330<br>250<br>12 658  | 0<br>0<br>0<br>0<br>190  | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(81.2)<br>(0.0)   | 7 129<br>3 052<br>768<br>2 927<br>44<br>12 942   | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)   | -                | -<br>-<br>-<br>-           | 7 129<br>3 052<br>768<br>2 927<br>234<br>12 942   | Azerbaijan<br>Belarus<br>Bosnia and Herzegovina<br>Georgia<br>Israel<br>Kazakhstan   |
| 12<br>0<br>0<br>0<br>202<br>153<br>0   | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)   | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>7 995   | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)  | -<br>-<br>-<br>-<br>-           | -<br>-<br>-<br>-<br>-      | 6 707<br>3 598<br>907<br>3 330<br>250<br>12 658<br>7 995   | 0<br>0<br>0<br>0<br>190<br>0   | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(81.2)<br>(0.0)<br>(0.0)  | 7 129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695  | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(100.0)  | -<br>-<br>-<br>- | -<br>-<br>-<br>-           | 7 129<br>3 052<br>768<br>2 927<br>234<br>12 942<br>7 695  | Azerbaijan<br>Belarus<br>Bosnia and Herzegovina<br>Georgia<br>Israel<br>Kazakhstan<br>Kyrgyzstan   |
| 12<br>0<br>0<br>0<br>202<br>153<br>0   | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)   | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>7 995   | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)  | -<br>-<br>-<br>-                | -<br>-<br>-<br>-           | 6707<br>3598<br>907<br>3330<br>250<br>12658<br>7995  | 0<br>0<br>0<br>0<br>190<br>0   | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(81.2)<br>(0.0)<br>(0.0)  | 7 129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695  | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(100.0)  | -<br>-<br>-      | -<br>-<br>-<br>-           | 7 129<br>3 052<br>768<br>2 927<br>234<br>12 942<br>7 695  | Azerbaijan<br>Belarus<br>Bosnia and Herzegovina<br>Georgia<br>Israel<br>Kazakhstan<br>Kyrgyzstan<br>Monaco   |
| 12<br>0<br>0<br>0<br>202<br>153<br>0<br>-  | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)<br>(2.3)  | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>7 995<br>0  | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)<br>-<br>(97.7)   | -<br>-<br>-<br>-<br>-           | -                          | 6707<br>3598<br>907<br>3330<br>250<br>12658<br>7995<br>-   | 0<br>0<br>0<br>0<br>190<br>0<br>0<br>-   | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(81.2)<br>(0.0)<br>(0.0)<br>-<br>(3.9)  | 7 129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695<br>0   | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(100.0)<br>-<br>(96.1)   | -                | -<br>-<br>-<br>-<br>-      | 7 129<br>3 052<br>768<br>2 927<br>234<br>12 942<br>7 695<br>-<br>77   | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro   |
| 12<br>0<br>0<br>0<br>202<br>153<br>0<br><br>2<br>8   | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)<br>-<br>(2.3)<br>(3.0)  | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>7 995<br>0<br>85<br>259   | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)<br>-<br>(97.7)<br>(97.0)   | -<br>-<br>-<br>-<br>-<br>-<br>- | -                          | 6707<br>3598<br>907<br>3330<br>250<br>12658<br>7995<br>-<br>87<br>267  | 0<br>0<br>0<br>0<br>190<br>0<br>0<br>3<br>3  | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(81.2)<br>(0.0)<br>(0.0)<br>-<br>(3.9)<br>(1.4)   | 7 129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695<br>0<br>74<br>216  | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(100.0)<br>-<br>(96.1)<br>(98.6)   | -<br>-<br>-<br>- | -<br>-<br>-<br>-           | 7 129<br>3 052<br>768<br>2 927<br>234<br>12 942<br>7 695<br>-<br>77<br>219  | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia   |
| 12<br>0<br>0<br>0<br>202<br>153<br>0<br>-<br>2<br>8<br>39  | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)<br>-<br>(2.3)<br>(3.0)<br>(0.9)   | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>7 995<br>0<br>85<br>259<br>4 095  | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)<br>-<br>(97.7)<br>(97.0)<br>(99.1)   | -                               | -                          | 6707<br>3598<br>907<br>3330<br>250<br>12658<br>7995<br>-<br>87<br>267<br>4134  | 0<br>0<br>0<br>0<br>190<br>0<br>0<br>-<br>3<br>3<br>3  | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(81.2)<br>(0.0)<br>(0.0)<br>-<br>(3.9)<br>(1.4)<br>(0.6)  | 7 129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695<br>0<br>74<br>216<br>3 834   | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(100.0)<br>-<br>(96.1)<br>(98.6)<br>(99.4)   | -                | -<br>-<br>-<br>-<br>-      | 7 129<br>3 052<br>768<br>2 927<br>234<br>12 942<br>7 695<br>-<br>77<br>219<br>3 858   | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova   |
| 12<br>0<br>0<br>0<br>202<br>153<br>0<br><br>2<br>8   | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)<br>-<br>(2.3)<br>(3.0)  | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>7 995<br>0<br>85<br>259   | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)<br>-<br>(97.7)<br>(97.0)   | -<br>-<br>-<br>-<br>-<br>-<br>- | -                          | 6707<br>3598<br>907<br>3330<br>250<br>12658<br>7995<br>-<br>87<br>267  | 0<br>0<br>0<br>0<br>190<br>0<br>0<br>3<br>3  | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(81.2)<br>(0.0)<br>(0.0)<br>-<br>(3.9)<br>(1.4)   | 7 129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695<br>0<br>74<br>216  | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(100.0)<br>-<br>(96.1)<br>(98.6)   | -                | -                          | 7 129<br>3 052<br>768<br>2 927<br>234<br>12 942<br>7 695<br>-<br>77<br>219<br>3 858<br>114 187  | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation  |
| 12<br>0<br>0<br>0<br>202<br>153<br>0<br>-<br>2<br>8<br>39<br>2797  | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)<br>(2.3)<br>(3.0)<br>(0.9)<br>(2.3)   | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>7 995<br>0<br>85<br>259<br>4 095<br>118 249   | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)<br>(97.7)<br>(97.0)<br>(99.1)<br>(97.7)  | -                               | -                          | 6707<br>3598<br>907<br>3330<br>250<br>12658<br>7995<br>-<br>87<br>267<br>4134<br>121046  | 0<br>0<br>0<br>0<br>190<br>0<br>0<br>-<br>3<br>3<br>3  | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(81.2)<br>(0.0)<br>(0.0)<br>-<br>(3.9)<br>(1.4)<br>(0.6)<br>(2.2)   | 7129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695<br>0<br>74<br>216<br>3 834<br>111 689   | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(100.0)<br>(96.1)<br>(98.6)<br>(99.4)<br>(97.8)  | -                | -                          | 7 129<br>3 052<br>768<br>2 927<br>234<br>12 942<br>7 695<br>-<br>77<br>219<br>3 858<br>114 187  | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino   |
| 12<br>0<br>0<br>0<br>202<br>153<br>0<br>-<br>2<br>8<br>39  | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)<br>-<br>(2.3)<br>(3.0)<br>(0.9)   | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>7 995<br>0<br>85<br>259<br>4 095  | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)<br>-<br>(97.7)<br>(97.0)<br>(99.1)   | -                               | -                          | 6707<br>3598<br>907<br>3330<br>250<br>12658<br>7995<br>-<br>87<br>267<br>4134  | 0<br>0<br>0<br>190<br>0<br>0<br>-<br>3<br>3<br>24<br>2498  | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(81.2)<br>(0.0)<br>(0.0)<br>-<br>(3.9)<br>(1.4)<br>(0.6)  | 7 129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695<br>0<br>74<br>216<br>3 834   | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(100.0)<br>-<br>(96.1)<br>(98.6)<br>(99.4)   | -                | -                          | 7 129<br>3 052<br>768<br>2 927<br>234<br>12 942<br>7 695<br>-<br>77<br>219<br>3 858<br>114 187  | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia  |
| 12<br>0<br>0<br>0<br>202<br>153<br>0<br><br>2<br>8<br>39<br>2797<br>-5   | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)<br>(2.3)<br>(3.0)<br>(0.9)<br>(2.3)   | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>7 995<br>0<br>85<br>259<br>4 095<br>118 249   | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)<br>(97.7)<br>(97.0)<br>(99.1)<br>(97.7)  | -                               | -                          | 6707<br>3598<br>907<br>3330<br>250<br>12658<br>7995<br>-<br>87<br>267<br>4134<br>121046  | 0<br>0<br>0<br>190<br>0<br>0<br>-<br>3<br>3<br>24<br>2498  | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(81.2)<br>(0.0)<br>(0.0)<br>-<br>(3.9)<br>(1.4)<br>(0.6)<br>(2.2)   | 7129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695<br>0<br>74<br>216<br>3 834<br>111 689   | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(100.0)<br>(96.1)<br>(98.6)<br>(99.4)<br>(97.8)  | -                | -                          | 7 129<br>3 052<br>768<br>2 927<br>234<br>12 942<br>7 695<br>-<br>77<br>219<br>3 858<br>114 187<br>-<br>1 466  | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino   |
| 12<br>0<br>0<br>0<br>202<br>153<br>0<br><br>2<br>8<br>39<br>2797<br>-<br>5                                     | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)<br>(2.3)<br>(3.0)<br>(0.9)<br>(2.3)   | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>7 995<br>0<br>85<br>259<br>4 095<br>118 249   | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)<br>(97.7)<br>(97.0)<br>(99.1)<br>(97.7)  | -                               | -                          | 6 707<br>3 598<br>907<br>3 330<br>250<br>12 658<br>7 995<br>-<br>87<br>267<br>4 134<br>121 046<br>-<br>1 488                           | 0<br>0<br>0<br>190<br>0<br>0<br>-<br>3<br>3<br>24<br>2498  | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(81.2)<br>(0.0)<br>(0.0)<br>-<br>(3.9)<br>(1.4)<br>(0.6)<br>(2.2)   | 7129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695<br>0<br>74<br>216<br>3 834<br>111 689   | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(100.0)<br>(96.1)<br>(98.6)<br>(99.4)<br>(97.8)  | -                | -                          | 7 129<br>3 052<br>768<br>2 927<br>234<br>12 942<br>7 695<br>-<br>77<br>219<br>3 858<br>114 187<br>-<br>1 466  | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia  |
| 12<br>0<br>0<br>0<br>202<br>153<br>0<br>-<br>2<br>8<br>39<br>2797<br>-<br>5                                    | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)<br>(2.3)<br>(3.0)<br>(0.9)<br>(2.3)<br>(0.3)  | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>0<br>85<br>259<br>4 095<br>118 249<br>-<br>1 483  | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)<br>-<br>(97.7)<br>(97.0)<br>(99.1)<br>(97.7)<br>-<br>(99.7)<br>-<br>(20.2)<br>(100.0)                            | -                               | -                          | 6 707<br>3 598<br>907<br>3 330<br>250<br>12 658<br>7 995<br>-<br>87<br>267<br>4 134<br>121 046<br>-<br>1 488                           | 0<br>0<br>0<br>0<br>190<br>0<br>0<br><br>3<br>3<br>3<br>24<br>2498<br><br>0                            | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(81.2)<br>(0.0)<br>(0.0)<br>-<br>(3.9)<br>(1.4)<br>(0.6)<br>(2.2)<br>-<br>(0.0)   | 7 129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695<br>0<br>74<br>216<br>3 834<br>111 689<br>-<br>1 466  | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>-<br>(96.1)<br>(98.6)<br>(99.4)<br>(97.8)<br>-<br>(100.0)<br>-<br>(34.1)<br>(100.0)                                      | -                | -                          | 7 129<br>3 052<br>768<br>2 927<br>234<br>12 942<br>7 695<br>-<br>77<br>219<br>3 858<br>114 187<br>-<br>1 466<br>-<br>-  | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov Kosovo <sup>b</sup>   |
| 12<br>0<br>0<br>0<br>202<br>153<br>0<br>-<br>2<br>8<br>39<br>2797<br>-<br>5<br>-<br>486<br>0<br>904            | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)<br>(2.3)<br>(3.0)<br>(0.9)<br>(2.3)<br>(0.3)<br>(0.3)<br>(0.7)<br>(0.7)                                   | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>7 995<br>0<br>85<br>259<br>4 095<br>118 249<br>-<br>1 483<br>-<br>1 23<br>6 241<br>11 513                               | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)<br>-<br>(97.7)<br>(97.0)<br>(99.1)<br>(99.7)<br>-<br>(99.7)<br>-<br>(20.2)<br>(100.0)<br>(92.7)                  |                                 |                            | 6 707<br>3 598<br>907<br>3 330<br>250<br>12 658<br>7 995<br>267<br>4 134<br>121 046<br>-<br>1 1488<br>-<br>-<br>609<br>6 241<br>12 417 | 0<br>0<br>0<br>190<br>0<br>0<br>-<br>3<br>3<br>24<br>2498<br>-<br>0<br>-<br>-<br>3<br>366<br>0         | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(81.2)<br>(0.0)<br>(0.0)<br>(1.4)<br>(0.6)<br>(2.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)   | 7 129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695<br>0 74<br>216<br>3 834<br>111 689<br>- 1 466<br>189<br>6 279<br>10 939  | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(100.0)<br>(96.1)<br>(98.6)<br>(99.4)<br>(97.8)<br>(100.0)<br>(34.1)<br>(100.0)<br>(90.8)                                | -                | -                          | 7 129<br>3 052<br>768<br>2 927<br>234<br>12 942<br>7 695<br>- 77<br>219<br>3 858<br>114 187<br>- 1 466<br>555<br>6 279<br>12 046  | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov Kosovo <sup>b</sup> Switzerland Tajikistan Turkey                                 |
| 12<br>0<br>0<br>0<br>202<br>153<br>0<br>2<br>8<br>39<br>2797<br>5<br>5<br>486<br>0<br>904                      | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)<br>-<br>(2.3)<br>(3.0)<br>(0.9)<br>(2.3)<br>-<br>(0.3)<br>-<br>(79.8)<br>(0.0)<br>(7.3)<br>(0.0)          | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>7 995<br>0<br>85<br>259<br>4 095<br>118 249<br>-<br>1 483<br>-<br>123<br>6 241<br>11 513<br>2 340                       | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)<br>(97.7)<br>(97.7)<br>(99.7)<br>(99.7)<br>(20.2)<br>(100.0)<br>(92.7)<br>(100.0)                                |                                 |                            | 6707<br>3598<br>907<br>3330<br>250<br>12658<br>7995<br>  | 0<br>0<br>0<br>190<br>0<br>0<br>-<br>3<br>3<br>24<br>2498<br>-<br>0<br>-<br>3<br>366<br>0              | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(1.4)<br>(0.6)<br>(2.2)<br>(0.0)<br>(65.9)<br>(0.0)<br>(9.2)<br>(0.0)   | 7 129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695<br>0<br>74<br>216<br>3 834<br>111 689<br>-<br>1 466<br>-<br>189<br>6 279<br>10 939<br>2 232                    | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(100.0)<br>(96.1)<br>(98.6)<br>(99.4)<br>(97.8)<br>(100.0)<br>(34.1)<br>(100.0)<br>(90.8)<br>(100.0)                     | -                | -                          | 7 129<br>3 052<br>768<br>2 927<br>234<br>12 942<br>7 695<br>-<br>77<br>219<br>3 858<br>114 187<br>-<br>1 466<br>-<br>555<br>6 279<br>12 046<br>2 232                      | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov Kosovo <sup>b</sup> Switzerland Tajikistan Turkey Turkmenistan                    |
| 12<br>0<br>0<br>0<br>202<br>153<br>0<br>-<br>2<br>8<br>39<br>2797<br>-<br>5<br>-<br>486<br>0<br>904<br>0<br>20 | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)<br>-<br>(2.3)<br>(3.0)<br>(0.9)<br>(2.3)<br>-<br>(0.3)<br>-<br>(79.8)<br>(0.0)<br>(7.3)<br>(0.0)<br>(0.0) | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>7 995<br>0<br>85<br>259<br>4 095<br>118 249<br>-<br>-<br>1 1483<br>-<br>-<br>1 23<br>6 241<br>11 513<br>2 340<br>34 068 | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)<br>(97.7)<br>(97.7)<br>(99.7)<br>(99.7)<br>(20.2)<br>(100.0)<br>(92.7)<br>(100.0)<br>(99.9)                      |                                 |                            | 6707<br>3598<br>907<br>3330<br>250<br>12658<br>7995<br>  | 0<br>0<br>0<br>190<br>0<br>0<br>-<br>3<br>3<br>24<br>2498<br>-<br>0<br>-<br>3<br>366<br>0<br>1107<br>0 | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(1.4)<br>(0.6)<br>(2.2)<br>(0.0)<br>(65.9)<br>(0.0)<br>(9.2)<br>(0.0)<br>(0.0)  | 7 129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695<br>0<br>74<br>216<br>3 834<br>111 689<br>-<br>1 1466<br>-<br>189<br>6 279<br>10 939<br>2 232<br>31 558         | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(96.1)<br>(98.6)<br>(99.4)<br>(97.8)<br>(100.0)<br>(34.1)<br>(100.0)<br>(90.8)<br>(100.0)<br>(99.9)                      |                  | -                          | 7129<br>3052<br>768<br>2927<br>234<br>12942<br>7695<br>-<br>77<br>219<br>3858<br>114187<br>-<br>1466<br>-<br>555<br>6279<br>12046<br>2232<br>31584                        | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov Kosovob Switzerland Tajikistan Turkey Turkmenistan Ukraine                        |
| 12<br>0<br>0<br>0<br>202<br>153<br>0<br><br>2<br>8<br>39<br>2797<br>-<br>5<br>-<br>486<br>0<br>904<br>0        | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)<br>-<br>(2.3)<br>(3.0)<br>(0.9)<br>(2.3)<br>-<br>(0.3)<br>-<br>(79.8)<br>(0.0)<br>(7.7)<br>(0.0)<br>(0.0) | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>0<br>85<br>259<br>4 095<br>118 249<br>-<br>1 1 483<br>-<br>123<br>6 241<br>1 23<br>6 241<br>3 4 068<br>18 441           | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)<br>(97.7)<br>(97.7)<br>(99.1)<br>(99.7)<br>(99.7)<br>(20.2)<br>(100.0)<br>(92.7)<br>(100.0)<br>(99.9)<br>(100.0) |                                 |                            | 6 707 3 598 907 3 330 250 12 658 7 995 - 87 267 4 134 121 046 - 1 488 - 609 6 241 7 2 340 34 088 18 441                                | 0<br>0<br>0<br>190<br>0<br>0<br><br>3<br>3<br>24<br>2498<br><br>0<br><br>366<br>0<br>1107<br>0         | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0) | 7 129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695<br>0<br>74<br>216<br>3 834<br>111 689<br>-<br>1 466<br>-<br>189<br>6 279<br>10 93<br>2 232<br>31 558<br>19 329 | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(96.1)<br>(98.6)<br>(99.4)<br>(97.8)<br>(100.0)<br>(34.1)<br>(100.0)<br>(90.8)<br>(100.0)<br>(99.9)<br>(100.0)           |                  | -                          | 7129<br>3052<br>768<br>2927<br>234<br>12942<br>7695<br>-<br>77<br>219<br>3858<br>114187<br>-<br>1466<br>-<br>555<br>6279<br>6279<br>6292<br>31584<br>19329                | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov Kosovo <sup>b</sup> Switzerland Tajikistan Turkey Turkmenistan Ukraine Uzbekistan |
| 12<br>0<br>0<br>0<br>202<br>153<br>0<br>-<br>2<br>8<br>39<br>2797<br>-<br>5<br>-<br>486<br>0<br>904<br>0<br>20 | (0.2)<br>(0.0)<br>(0.0)<br>(0.0)<br>(80.8)<br>(1.2)<br>(0.0)<br>-<br>(2.3)<br>(3.0)<br>(0.9)<br>(2.3)<br>-<br>(0.3)<br>-<br>(79.8)<br>(0.0)<br>(7.3)<br>(0.0)<br>(0.0) | 6 695<br>3 598<br>907<br>3 330<br>48<br>12 505<br>7 995<br>0<br>85<br>259<br>4 095<br>118 249<br>-<br>-<br>1 1483<br>-<br>-<br>1 23<br>6 241<br>11 513<br>2 340<br>34 068 | (99.8)<br>(100.0)<br>(100.0)<br>(100.0)<br>(19.2)<br>(98.8)<br>(100.0)<br>(97.7)<br>(97.7)<br>(99.7)<br>(99.7)<br>(20.2)<br>(100.0)<br>(92.7)<br>(100.0)<br>(99.9)                      |                                 |                            | 6707<br>3598<br>907<br>3330<br>250<br>12658<br>7995<br>  | 0<br>0<br>0<br>190<br>0<br>0<br>-<br>3<br>3<br>24<br>2498<br>-<br>0<br>-<br>3<br>366<br>0<br>1107<br>0 | (0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(0.0)<br>(1.4)<br>(0.6)<br>(2.2)<br>(0.0)<br>(65.9)<br>(0.0)<br>(9.2)<br>(0.0)<br>(0.0)  | 7 129<br>3 052<br>768<br>2 927<br>44<br>12 942<br>7 695<br>0<br>74<br>216<br>3 834<br>111 689<br>-<br>1 1466<br>-<br>189<br>6 279<br>10 939<br>2 232<br>31 558         | (100.0)<br>(100.0)<br>(100.0)<br>(100.0)<br>(18.8)<br>(100.0)<br>(96.1)<br>(98.6)<br>(99.4)<br>(97.8)<br>(100.0)<br>(34.1)<br>(100.0)<br>(90.8)<br>(100.0)<br>(99.9)<br>(100.0)<br>(98.1) |                  | -                          | 7129<br>3 052<br>768<br>2 927<br>234<br>12 942<br>7 695<br>- 77<br>219<br>3 858<br>114 187<br>- 1 466<br>555<br>6 2 796<br>12 046<br>2 232<br>31 584<br>19 329<br>228 009 | Azerbaijan Belarus Bosnia and Herzegovina Georgia Israel Kazakhstan Kyrgyzstan Monaco Montenegro North Macedonia Republic of Moldova Russian Federation San Marino Serbia Serbia excluding Kosov Kosovo <sup>b</sup> Switzerland Tajikistan Turkey Turkmenistan Ukraine            |

Table V. MDR-TB notification among new bacteriologically confirmed pulmonary TB cases with available DST results, European Region, 2013-2017

|                                       |        | 2013   |                        |        | 2014   |                        |        | 2015   |                        |        | 2016   |                        |        | 2017   |                        | Mean   |
|---------------------------------------|--------|--------|------------------------|--------|--------|------------------------|--------|--------|------------------------|--------|--------|------------------------|--------|--------|------------------------|--|
| Country/area                          | N      | %      | Rate<br>per<br>100 000 | annual<br>%<br>change<br>in rate,<br>2013–<br>2017 |
| EU/EEA                                |        |        |                        |        |        |                        |        |        |                        |        |        |                        |        |        |                        |  |
| Austria                               | 7      | (2.5)  | 0.1                    | 7      | (2.6)  | 0.1                    | 5      | (1.9)  | 0.1                    | 8      | (3.0)  | 0.1                    | 11     | (4.2)  | 0.1                    | 10.9%  |
| Belgium <sup>b</sup>                  | 7      | (1.8)  | 0.1                    | 6      | (1.5)  | 0.1                    | 6      | (1.4)  | 0.1                    | 6      | (1.4)  | 0.1                    | 1      | (0.2)  | 0.0                    | -38.8%   |
| Bulgaria                              | 12     | (1.9)  | 0.2                    | 17     | (2.7)  | 0.2                    | 4      | (0.7)  | 0.1                    | 5      | (0.9)  | 0.1                    | 13     | (2.5)  | 0.2                    | 2.7%   |
| Croatia                               | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | -  |
| Cyprus                                | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 1      | (3.0)  | 0.1                    | -  |
| Czech Republic                        | 0      | (0.0)  | 0.0                    | 3      | (1.0)  | 0.0                    | 7      | (2.2)  | 0.1                    | 4      | (1.3)  | 0.0                    | 3      | (1.0)  | 0.0                    | -  |
| Denmark <sup>b</sup>                  | 1      | (0.5)  | 0.0                    | 1      | (0.5)  | 0.0                    | 4      | (1.9)  | 0.1                    | 3      | (1.7)  | 0.1                    | 1      | (0.6)  | 0.0                    | -0.6%  |
| Estonia                               | 29     | (17.2) | 2.2                    | 30     | (19.4) | 2.3                    | 18     | (13.5) | 1.4                    | 17     | (12.9) | 1.3                    | 26     | (21.8) | 2.0                    | -2.6%  |
| Finland                               | 2      | (1.2)  | 0.0                    | 5      | (3.3)  | 0.1                    | 7      | (4.5)  | 0.1                    | 2      | (1.6)  | 0.0                    | 4      | (3.0)  | 0.1                    | 18.5%  |
| France                                | -      | -      | -                      | 25     | (1.0)  | 0.0                    | -      | -      | -                      | 33     | (1.4)  | 0.0                    | -      | -      | -                      | _  |
| Germany                               | 10     | (1.9)  | 0.0                    | 9      | (3.0)  | 0.0                    | 4      | (1.4)  | 0.0                    | 4      | (2.1)  | 0.0                    | 5      | (7.8)  | 0.0                    | -16.4%   |
| Greece                                | 7      | (4.0)  | 0.1                    | 3      | (2.5)  | 0.0                    | 3      | (1.9)  | 0.0                    | 2      | (2.0)  | 0.0                    | 5      | (3.5)  | 0.0                    | -7.6%  |
| Hungary                               | 6      | (1.8)  | 0.1                    | 1      | (0.4)  | 0.0                    | 6      | (1.7)  | 0.1                    | 12     | (4.0)  | 0.1                    | 7      | (2.5)  | 0.1                    | 4.2%   |
| Iceland                               | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | -  |
| Ireland <sup>b</sup>                  | 2      | (1.4)  | 0.0                    | 2      | (1.6)  | 0.0                    | 1      | (1.0)  | 0.0                    | 4      | (3.1)  | 0.1                    | 2      | (2.1)  | 0.0                    | -0.9%  |
| Italy                                 | 21     | (3.2)  | 0.0                    | 24     | (2.0)  | 0.0                    | 18     | (2.3)  | 0.0                    | 24     | (3.1)  | 0.0                    | 45     | (2.4)  | 0.1                    | 20.5%  |
| Latvia                                | 48     | (8.8)  | 2.4                    | 38     | (8.2)  | 1.9                    | 36     | (7.9)  | 1.8                    | 32     | (7.6)  | 1.6                    | 28     | (7.7)  | 1.4                    | -11.8%   |
| Liechtenstein                         | 0      | -      | 0.0                    | 0      | -      | 0.0                    | 0      | -      | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | -  |
| Lithuania                             | 116    | (11.5) | 3.9                    | 128    | (13.6) | 4.3                    | 104    | (11.6) | 3.6                    | 117    | (13.3) | 4.1                    | 110    | (12.9) | 3.9                    | -0.3%  |
| Luxembourg                            | _      | -      | -                      | -      | -      | -                      | -      | -      | _                      | -      | -      | -                      | _      | -      | -                      | -  |
| Malta                                 | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | -  |
| Netherlands                           | 7      | (2.0)  | 0.0                    | 4      | (1.2)  | 0.0                    | 5      | (1.4)  | 0.0                    | 6      | (1.7)  | 0.0                    | 5      | (1.4)  | 0.0                    | -8.5%  |
| Norwayb                               | 4      | (2.2)  | 0.1                    | 5      | (3.2)  | 0.1                    | 4      | (2.6)  | 0.1                    | 7      | (5.1)  | 0.1                    | 6      | (4.6)  | 0.1                    | 9.6%   |
| Poland                                | 19     | (0.5)  | 0.0                    | 17     | (0.4)  | 0.0                    | 19     | (0.5)  | 0.0                    | 27     | (0.7)  | 0.1                    | 30     | (0.9)  | 0.1                    | 12.2%  |
| Portugal                              | 9      | (0.8)  | 0.1                    | 17     | (1.6)  | 0.2                    | 12     | (1.2)  | 0.1                    | 11     | (1.2)  | 0.1                    | 9      | (1.5)  | 0.1                    | 0.4%   |
| Romania                               | 160    | (3.2)  | 0.8                    | 125    | (2.1)  | 0.6                    | 129    | (2.0)  | 0.6                    | 128    | (2.1)  | 0.6                    | 97     | (1.6)  | 0.5                    | -11.3%   |
| Slovakia                              | 1      | (0.7)  | 0.0                    | 1      | (0.8)  | 0.0                    | 1      | (0.7)  | 0.0                    | 2      | (2.1)  | 0.0                    | 4      | (4.1)  | 0.5                    | 41.3%  |
| Slovenia                              | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 1      | (1.2)  | 0.0                    | 41.7/0   |
| Spain                                 | 27     | (1.9)  | 0.0                    | 26     | (1.7)  | 0.0                    | 30     | (3.9)  | 0.0                    | 34     | (4.0)  | 0.0                    | 13     | (1.7)  | 0.0                    | -16.6%   |
| Sweden                                | 5      | (1.8)  | 0.1                    | 9      |        | 0.1                    | 14     |        |                        | 11     |        |                        | 8      | (3.2)  | 0.0                    | 11.2%  |
|                                       | 35     |        |                        |        | (3.0)  |                        |        | (3.3)  | 0.1                    |        | (3.0)  | 0.1                    |        |        | 0.0                    |  |
| United Kingdom <sup>b</sup>           |        | (1.4)  | 0.1                    | 29     | (1.2)  | 0.0                    | 28     | (1.3)  | 0.0                    | 34     | (1.5)  | 0.1                    | 24     | (1.2)  |                        | -9.7%  |
| Subtotal EU/EEA                       | 535    | (2.6)  | 0.1                    | 532    | (2.2)  | 0.1                    | 465    | (2.3)  | 0.1                    | 533    | (2.4)  | 0.1                    | 459    | (2.4)  | 0.1                    | -4.0%  |
| Non-EU/EEA                            | 4      | (2.7)  | 0.0                    | 1      | (( 0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0, 0) | 0.0                    | 400.00/  |
| Albania                               | 1      | (3.7)  | 0.0                    | 1      | (4.8)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | -100.0%  |
| Andorra                               | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    |  |
| Armenia                               | 43     | (11.6) | 1.5                    | 57     | (16.6) | 2.0                    | 42     | (14.6) | 1.4                    | 55     | (15.4) | 1.9                    | 40     | (12.5) | 1.4                    | -2.1%  |
| Azerbaijan                            | 187    | (15.2) | 2.0                    | 158    | (12.8) | 1.7                    | 195    | (15.9) | 2.0                    | 161    | (15.4) | 1.7                    | 170    | (12.8) | 1.7                    | -3.5%  |
| Belarus                               | 755    | (35.2) | 8.0                    | 667    | (34.1) | 7.0                    | 678    | (35.8) | 7.1                    | 654    | (37.1) | 6.9                    | 629    | (37.2) | 6.6                    | -4.4%  |
| Bosnia and Herzegovina                | 0      | (0.0)  | 0.0                    | 2      | (25.0) | 0.1                    | 2      | (0.3)  | 0.1                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | -100.0%  |
| Georgia                               | 183    | (11.2) | 4.5                    | 172    | (11.6) | 4.3                    | 168    | (11.6) | 4.3                    | 142    | (10.2) | 3.6                    | 129    | (10.5) | 3.3                    | -  |
| Israel                                | 6      | (3.8)  | 0.1                    | 13     | (6.6)  | 0.2                    | 10     | (6.8)  | 0.1                    | 9      | (7.4)  | 0.1                    | 7      | (5.4)  | 0.1                    | 2.3%   |
| Kazakhstan                            | 1997   | (26.3) | 11.6                   | 1 110  | (23.8) | 6.3                    | 1 310  | (24.0) | 7.4                    | 832    | (25.5) | 4.6                    | 710    | (32.9) | 3.9                    | -23.9%   |
| Kyrgyzstan                            | 613    | (28.4) | 10.8                   | 456    | -      | 7.9                    | 426    | (25.0) | 7.3                    | 398    | (21.9) | 6.7                    | 392    | (22.4) | 6.5                    | -11.9%   |
| Monaco                                | -      | -      | -                      | -      | -      | -                      | -      | -      | -                      | -      | -      | -                      | -      | -      | -                      | _  |
| Montenegro                            | -      | _      | -                      | -      | -      | -                      | -      | -      | -                      | -      | -      | -                      | -      | -      | -                      | -  |
| North Macedonia                       | 0      | (0.0)  | 0.0                    | 2      | (1.4)  | 0.1                    | 3      | (1.8)  | 0.1                    | 2      | (1.5)  | 0.1                    | 0      | (0.0)  | 0.0                    | -  |
| Republic of Moldova                   | 343    | (24.5) | 8.4                    | 398    | (27.1) | 9.8                    | 402    | (31.1) | 9.9                    | 304    | (25.6) | 7.5                    | 308    | (26.6) | 7.6                    | -2.5%  |
| Russian Federation                    | 6 726  | (21.2) | 4.7                    | 7 634  | (24.4) | 5.3                    | 8 603  | (26.7) | 6.0                    | 8 463  | (27.3) | 5.9                    | 8 206  | (28.2) | 5.7                    | 5.0%   |
| San Marino                            | -      | -      | -                      | -      | -      | -                      | -      | -      | -                      | -      | -      | -                      | -      | -      | -                      | -  |
| Serbia                                | 6      | (0.9)  | 0.1                    | 10     | (1.7)  | 0.1                    | 4      | (1.0)  | 0.0                    | 3      | (0.8)  | 0.0                    | 1      | (0.3)  | 0.0                    | -35.9%   |
| Serbia excluding Kosovo <sup>c</sup>  | -      | -      | -                      | 9      | (1.7)  | 0.1                    | 2      | (0.9)  | 0.0                    | 3      | (0.8)  | 0.0                    | 1      | (0.3)  | 0.0                    |  |
| Kosovo <sup>c</sup>                   | -      | -      | -                      | 1      | (0.6)  | 0.1                    | 2      | (1.0)  | 0.1                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    |  |
| Switzerland                           | 3      | (1.5)  | 0.0                    | 5      | (3.1)  | 0.1                    | 7      | (3.2)  | 0.1                    | 12     | (4.3)  | 0.1                    | 6      | (2.2)  | 0.1                    | 17.7%  |
| Tajikistan                            | 143    | (34.5) | 1.7                    | 158    | (8.1)  | 1.9                    | 484    | (24.2) | 5.7                    | 495    | (20.8) | 5.7                    | 413    | (83.3) | 4.6                    | 27.6%  |
| Turkey                                | 123    | (2.5)  | 0.2                    | 116    | (2.5)  | 0.2                    | 122    | (2.6)  | 0.2                    | 110    | (2.2)  | 0.1                    | 121    | (2.5)  | 0.1                    | -2.0%  |
| Turkmenistan                          | -      | -      | 0.0                    | 32     | (10.3) | 0.6                    | _      | -      | 0.0                    | -      | -      | 0.0                    | -      | -      | 0.0                    | -  |
| Ukraine                               | 2 479  | (19.2) | 5.5                    | 2 753  | (21.0) | 6.1                    | 2 856  | (21.3) | 6.4                    | 2 881  | (22.0) | 6.5                    | 2 594  | (21.4) | 5.9                    | 1.6%   |
| Uzbekistan                            | 1 535  | (36.3) | 5.1                    | 2 112  | (66.1) | 6.9                    | 211    | (44.6) | 0.7                    | 292    | (38.6) | 0.9                    | 351    | (9.9)  | 1.1                    | -31.9%   |
| Subtotal non-EU/EEA                   | 15 143 | (20.8) | 3.8                    | 15 856 | (23.8) | 4.0                    | 15 523 | (22.9) | 3.9                    | 14 813 | (22.9) | 3.7                    | 14 077 | (23.1) | 3.5                    | -2.4%  |
| · · · · · · · · · · · · · · · · · · · | 15 678 | (16.8) | 1.9                    | 16 388 |        |                        |        |        | 1.9                    | 15 346 |        |                        |        | (18.1) | 1.7                    | -2.3%  |
| Total European Region                 | 12 0/6 | ימ.מן) | 1.9                    | 10.300 | (18.1) | 1.8                    | 15 988 | (18.1) | 1.9                    | 10.540 | (17.6) | 1.7                    | 14 536 | (18.11 | 1./                    |  |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics.

DST = drug-susceptibility testing.

HPCs = high-priority countries.

MDR-TB = multidrug-resistant tuberculosis.

Bacteriologically confirmed cases – cases with positive identification for M. tuberculosis complex confirmed by culture and/or line probe assay for non-EU/EEA countries and areas, culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases for EU/EEA countries.

Previous TB history is defined as previous diagnosis.

(In accordance with Security Council Resolution 1244 (1999)).

Table VI. MDR-TB notification among previously treated bacteriologically confirmed pulmonary TB cases with available DST results, European Region, 2013–2017

| Country/area                         |         |         |                        |       | 2014   |                       |                         | 2015                       |                        |                         | 2016                       |                        |                                       | 2017                       |                                 | Mean   |
|--------------------------------------|---------|---------|------------------------|-------|--------|-----------------------|-------------------------|----------------------------|------------------------|-------------------------|----------------------------|------------------------|---------------------------------------|----------------------------|---------------------------------|--|
| esanti y arca                        | N       | %       | Rate<br>per<br>100 000 | N     | %      | Rate<br>per<br>100000 | N                       | %                          | Rate<br>per<br>100 000 | N                       | %                          | Rate<br>per<br>100 000 | N                                     | %                          | Rate<br>per<br>100 000          | annual<br>%<br>change<br>in rate,<br>2013-<br>2017 |
| EU/EEA                               |         |         |                        |       |        |                       |                         |                            |                        |                         |                            |                        |                                       |                            |                                 |  |
| Austria                              | 9       | (37.5)  | 0.1                    | 7     | (36.8) | 0.1                   | 2                       | (16.7)                     | 0.0                    | 3                       | (17.6)                     | 0.0                    | 2                                     | (13.3)                     | 0.0                             | -32.0%   |
| Belgium <sup>b</sup>                 | 1       | (2.4)   | 0.0                    | 2     | (4.2)  | 0.0                   | 2                       | (5.9)                      | 0.0                    | 2                       | (5.7)                      | 0.0                    | 2                                     | (5.1)                      | 0.0                             | 18.4%  |
| Bulgaria                             | 14      | (12.7)  | 0.2                    | 19    | (19.2) | 0.3                   | 19                      | (20.7)                     | 0.3                    | 14                      | (17.3)                     | 0.2                    | 11                                    | (13.3)                     | 0.2                             | -5.3%  |
| Croatia                              | 0       | (0.0)   | 0.0                    | 2     | (6.9)  | 0.0                   | 0                       | (0.0)                      | 0.0                    | 0                       | (0.0)                      | 0.0                    | 0                                     | (0.0)                      | 0.0                             | -  |
| Cyprus                               | 1       | (100.0) | 0.1                    | 0     | (0.0)  | 0.0                   | 0                       | -                          | 0.0                    | 0                       | (0.0)                      | 0.0                    | 0                                     | -                          | 0.0                             | -100.0%  |
| Czech Republic                       | 0       | (0.0)   | 0.0                    | 2     | (13.3) | 0.0                   | 2                       | (8.0)                      | 0.0                    | 2                       | (16.7)                     | 0.0                    | 3                                     | (18.8)                     | 0.0                             | -  |
| Denmark <sup>b</sup>                 | 1       | (5.0)   | 0.0                    | 0     | (0.0)  | 0.0                   | 1                       | (4.5)                      | 0.0                    | 0                       | (0.0)                      | 0.0                    | 0                                     | (0.0)                      | 0.0                             | -100.0%  |
| Estonia                              | 25      | (52.1)  | 1.9                    | 19    | (63.3) | 1.4                   | 18                      | (51.4)                     | 1.4                    | 6                       | (42.9)                     | 0.5                    | 10                                    | (50.0)                     | 0.8                             | -20.4%   |
| Finland                              | 0       | (0.0)   | 0.0                    | 1     | (20.0) | 0.0                   | 0                       | (0.0)                      | 0.0                    | 0                       | (0.0)                      | 0.0                    | 1                                     | (33.3)                     | 0.0                             | -  |
| France                               | -       | -       | -                      | 30    | (10.4) | 0.0                   | -                       | -                          | -                      | 18                      | (6.8)                      | 0.0                    | -                                     | -                          | -                               | _  |
| Germany                              | 27      | (16.0)  | 0.0                    | 21    | (15.1) | 0.0                   | 26                      | (16.6)                     | 0.0                    | 17                      | (12.3)                     | 0.0                    | 17                                    | (17.7)                     | 0.0                             | -11.5%   |
| Greece                               | 2       | (11.8)  | 0.0                    | 0     | (0.0)  | 0.0                   | 5                       | (18.5)                     | 0.0                    | 2                       | (20.0)                     | 0.0                    | 1                                     | (5.9)                      | 0.0                             | -15.5%   |
| Hungary                              | 4       | (19.0)  | 0.0                    | 2     | (8.7)  | 0.0                   | 2                       | (5.0)                      | 0.0                    | 6                       | (15.8)                     | 0.1                    | 4                                     | (14.3)                     | 0.0                             | 0.3%   |
| Iceland                              | 0       | _       | 0.0                    | 0     | (0.0)  | 0.0                   | 0                       | -                          | 0.0                    | 0                       | -                          | 0.0                    | 0                                     | (0.0)                      | 0.0                             | _  |
| Ireland <sup>b</sup>                 | 0       | (0.0)   | 0.0                    | 0     | (0.0)  | 0.0                   | 0                       | (0.0)                      | 0.0                    | 2                       | (18.2)                     | 0.0                    | 0                                     | (0.0)                      | 0.0                             | -  |
| Italy                                | 7       | (4.2)   | 0.0                    | 16    | (7.2)  | 0.0                   | 14                      | (12.5)                     | 0.0                    | 9                       | (9.3)                      | 0.0                    | 11                                    | (14.7)                     | 0.0                             | 11.5%  |
| Latvia                               | 27      | (25.7)  | 1.3                    | 32    | (29.9) | 1.6                   | 26                      | (29.9)                     | 1.3                    | 21                      | (23.3)                     | 1.1                    | 17                                    | (28.8)                     | 0.9                             | -10.1%   |
| Liechtenstein                        | 0       | (23.7)  | 0.0                    | 0     | (0.0)  | 0.0                   | 0                       | (0.0)                      | 0.0                    | 0                       | (23.3)                     | 0.0                    | 0                                     | (20.0)                     | 0.0                             | 10.170   |
| Lithuania                            | 135     | (44.1)  | 4.5                    | 138   | (48.9) | 4.7                   | 134                     | (46.5)                     | 4.6                    | 125                     | (43.0)                     | 4.3                    | 138                                   | (51.5)                     | 4.8                             | 1.6%   |
| Luxembourg                           | -       | (44.1)  | 4.7                    | 150   | (40.2) | 4./                   | 154                     | (40.3)                     | 4.0                    | 123                     | (43.0)                     | 4.5                    | 150                                   | (51.5)                     | 4.0                             | 1.0 /0   |
| Malta                                | 0       | _       | 0.0                    | 0     | (0.0)  | 0.0                   | 0                       | _                          | 0.0                    | 0                       | _                          | 0.0                    | 0                                     | _                          | 0.0                             | _  |
| Netherlands                          |         | (30.0)  | 0.0                    | 1     | (12.5) | 0.0                   | 2                       | (8.7)                      | 0.0                    |                         | (30.8)                     | 0.0                    | 1                                     | (6.3)                      | 0.0                             |  |
|                                      | 6       |         |                        |       |        |                       |                         |                            |                        | 4                       |                            |                        |                                       |                            |                                 | -36.4%<br>-100.0%                                  |
| Norway <sup>b</sup>                  |         | (6.3)   | 0.0                    | 4     | (23.5) | 0.1                   | 0                       | (0.0)                      | 0.0                    | 0                       | (0.0)                      | 0.0                    | 0                                     | (0.0)                      | 0.0                             |  |
| Poland                               | 21      | (4.3)   | 0.1                    | 18    | (4.3)  | 0.0                   | 13                      | (3.0)                      | 0.0                    | 18                      | (4.0)                      | 0.0                    | 14                                    | (3.6)                      | 0.0                             | -9.6%  |
| Portugal                             | 5       | (6.1)   | 0.0                    | 5     | (5.7)  | 0.0                   | 7                       | (8.2)                      | 0.1                    | 2                       | (2.9)                      | 0.0                    | 1                                     | (2.0)                      | 0.0                             | -32.8%   |
| Romania                              | 410     | (17.6)  | 2.0                    | 400   | (17.9) | 2.0                   | 400                     | (17.2)                     | 2.0                    | 336                     | (15.6)                     | 1.7                    | 259                                   | (13.6)                     | 1.3                             | -10.4%   |
| Slovakia                             | 1       | (2.9)   | 0.0                    | 2     | (7.7)  | 0.0                   | 1                       | (6.3)                      | 0.0                    | 1                       | (5.6)                      | 0.0                    | 1                                     | (3.8)                      | 0.0                             | -0.1%  |
| Slovenia                             | 0       | (0.0)   | 0.0                    | 0     | (0.0)  | 0.0                   | 0                       | (0.0)                      | 0.0                    | 0                       | (0.0)                      | 0.0                    | 0                                     | (0.0)                      | 0.0                             | _  |
| Spain                                | 7       | (6.8)   | 0.0                    | 9     | (8.2)  | 0.0                   | 10                      | (16.4)                     | 0.0                    | 5                       | (12.2)                     | 0.0                    | 3                                     | (6.5)                      | 0.0                             | -19.0%   |
| Sweden                               | 2       | (12.5)  | 0.0                    | 2     | (10.5) | 0.0                   | 2                       | (11.8)                     | 0.0                    | 3                       | (15.8)                     | 0.0                    | 1                                     | (4.8)                      | 0.0                             | -16.8%   |
| United Kingdom <sup>b</sup>          | 9       | (4.4)   | 0.0                    | 6     | (3.6)  | 0.0                   | 5                       | (3.3)                      | 0.0                    | 8                       | (5.1)                      | 0.0                    | 4                                     | (3.1)                      | 0.0                             | -18.9%   |
| Subtotal EU/EEA                      | 715     | (16.3)  | 0.2                    | 738   | (16.6) | 0.1                   | 691                     | (16.8)                     | 0.2                    | 604                     | (14.8)                     | 0.1                    | 501                                   | (15.0)                     | 0.1                             | -8.8%  |
| Non-EU/EEA                           |         |         |                        |       |        |                       |                         |                            |                        |                         |                            |                        |                                       |                            |                                 |  |
| Albania                              | -       | -       | -                      | 1     | (12.5) | 0.0                   | 4                       | (66.7)                     | 0.1                    | 1                       | (50.0)                     | 0.0                    | -                                     | -                          | -                               | -  |
| Andorra                              | -       | -       | -                      | -     | -      | -                     | -                       | -                          | -                      | -                       | -                          | -                      | -                                     | -                          | -                               | -  |
| Armenia                              | 23      | (34.3)  | 0.8                    | 43    | (86.0) | 1.5                   | 47                      | (87.0)                     | 1.6                    | 60                      | (57.7)                     | 2.1                    | 41                                    | (38.0)                     | 1.4                             | 15.2%  |
| Azerbaijan                           | 778     | (48.8)  | 8.3                    | 682   | (35.0) | 7.2                   | 711                     | (29.7)                     | 7.4                    | 616                     | (39.3)                     | 6.3                    | 495                                   | (29.0)                     | 5.0                             | -11.7%   |
| Belarus                              | 598     | (54.5)  | 6.3                    | 584   | (69.1) | 6.2                   | 597                     | (68.4)                     | 6.3                    | 568                     | (71.6)                     | 6.0                    | 459                                   | (65.6)                     | 4.8                             | -6.4%  |
| Bosnia and Herzegovina               | 1       | (1.6)   | 0.0                    | 1     | (50.0) | 0.0                   | 0                       | (0.0)                      | 0.0                    | 0                       | (0.0)                      | 0.0                    | 0                                     | (0.0)                      | 0.0                             | -100.0%  |
| Georgia                              | 201     | (38.1)  | 5.0                    | 197   | (39.2) | 4.9                   | 186                     | (38.8)                     | 4.7                    | 154                     | (38.0)                     | 3.9                    | 133                                   | (35.5)                     | 3.4                             | -9.0%  |
| Israel                               | 1       | (100.0) | 0.0                    | 2     | (50.0) | 0.0                   | 1                       | (16.7)                     | 0.0                    | 0                       | (0.0)                      | 0.0                    | 1                                     | (50.0)                     | 0.0                             | -1.5%  |
| Kazakhstan                           | 4 035   | (57.8)  | 23.4                   | 1 152 | (39.9) | 6.6                   | 1 411                   | (40.0)                     | 7.9                    | 399                     | (20.5)                     | 2.2                    | 953                                   | (46.7)                     | 5.2                             | -31.3%   |
| Kyrgyzstan                           | 547     | (55.1)  | 9.6                    | 194   | -      | 3.4                   | 450                     | (56.3)                     | 7.7                    | 466                     | (56.3)                     | 7.8                    | 435                                   | (50.2)                     | 7.2                             | -7.0%  |
| Monaco                               | -       | -       | -                      | -     | -      | -                     | -                       | -                          | -                      | -                       | -                          | -                      | -                                     | -                          | -                               | _  |
| Montenegro                           | -       | -       | -                      | 2     | (40.0) | 0.3                   | -                       | -                          | -                      | -                       | -                          | -                      | 1                                     | (14.3)                     | 0.2                             | -  |
| North Macedonia                      | 1       | (6.3)   | 0.0                    | 0     | (0.0)  | 0.0                   | 1                       | (6.7)                      | 0.0                    | 0                       | (0.0)                      | 0.0                    | 1                                     | (5.3)                      | 0.0                             | -0.1%  |
| Republic of Moldova                  | 561     | (62.1)  | 13.8                   | 453   | (65.9) | 11.1                  | 501                     | (71.9)                     | 12.3                   | 221                     | (57.4)                     | 5.4                    | 178                                   | (54.4)                     | 4.4                             | -24.9%   |
| Russian Federation                   | 6 795   | (56.3)  | 4.7                    | 7 951 | (57.1) | 5.5                   | 8 529                   | (59.1)                     | 5.9                    | 17 508                  | (65.2)                     | 12.2                   | 14 611                                | (58.9)                     | 10.1                            | 21.0%  |
| San Marino                           | _       | _       | _                      | -     | -      | -                     | _                       | _                          | _                      | -                       | -                          | _                      | _                                     | _                          | _                               | _  |
| Serbia                               | 4       | (4.7)   | 0.0                    | 4     | (7.5)  | 0.0                   | 1                       | (2.8)                      | 0.0                    | 5                       | (12.5)                     | 0.1                    | 4                                     | (13.3)                     | 0.0                             | 0.4%   |
| Serbia excluding Kosovo <sup>c</sup> | -       | -       | -                      | -     | -      | -                     | _                       | (2.0)                      | -                      | 3                       | (7.5)                      | 0.0                    | 4                                     | (13.3)                     | 0.0                             | -  |
| Kosovo <sup>c</sup>                  | _       | _       | _                      | _     | _      | _                     | -                       | _                          | -                      | 2                       | (6.3)                      | 0.1                    | 0                                     | (0.0)                      | 0.0                             | _  |
| Switzerland                          | 8       | (23.5)  | 0.1                    | 4     | (14.3) | 0.0                   | 4                       | (21.1)                     | 0.0                    | 1                       | (7.1)                      | 0.0                    | 2                                     | (22.2)                     | 0.0                             | -30.0%   |
| Tajikistan                           | 16      | (34.8)  | 0.2                    | 213   | (52.2) | 2.5                   | 97                      | (48.7)                     | 1.1                    | 151                     | (46.3)                     | 1.7                    | 133                                   | (86.4)                     | 1.5                             | 66.1%  |
| Turkey                               | 105     | (17.8)  | 0.2                    | 130   | (21.1) | 0.2                   | 102                     | (17.9)                     | 0.1                    | 80                      | (13.7)                     | 0.1                    | 61                                    | (11.2)                     | 0.1                             | -14.1%   |
| Turney                               | 105     | (17.0)  | 0.1                    | 32    | (72.7) | 0.2                   | 102                     | (1/.7)                     | 0.1                    | -                       | (13.7)                     | 0.1                    | 01                                    | (11.2)                     | 0.1                             | -14.170  |
| Turkmenistan                         |         | (40.7)  | 7.5                    | 3 562 | (41.5) | 7.9                   | 3 169                   | (41.5)                     | 7.1                    | 2 875                   | (40.8)                     | 6.5                    | 2 414                                 | (37.1)                     | 5.5                             | 0/   |
| Turkmenistan                         | 3 2 2 5 |         | /.)                    | 2 202 | (41.0) | 1.9                   | 2 107                   | (41.3)                     | /.1                    | 20/0                    | (40.0)                     | 0.0                    | 2 414                                 | (2/.1)                     | 5.5                             | -7.5%  |
| Ukraine                              | 3 365   |         |                        |       |        | 2 /                   | 100                     | (56.2)                     | 0.0                    | 211                     | (25 2)                     | 1 0                    | 100                                   | (12 E)                     | 0/                              | -/11 20/   |
| Ukraine<br>Uzbekistan                | 1 495   | (56.1)  | 5.0                    | 720   | (79.8) | 2.4                   | 185                     | (56.2)                     | 0.6                    | 311                     | (25.3)                     | 1.0                    | 189                                   | (12.5)                     | 0.6                             | -41.3%   |
| Ukraine                              |         |         |                        |       |        | 2.4<br>4.0<br>2.0     | 185<br>15 996<br>16 687 | (56.2)<br>(49.8)<br>(46.1) | 0.6<br>4.0<br>2.0      | 311<br>23 416<br>24 020 | (25.3)<br>(55.5)<br>(51.9) | 1.0<br>5.8<br>2.6      | 189<br><b>20 111</b><br><b>20 612</b> | (12.5)<br>(50.6)<br>(47.9) | 0.6<br><b>5.0</b><br><b>2.4</b> | 1.4%   |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics.

DST = drug-susceptibility testing.

HPCs = high-priority countries.

MDR-TB = multidrug-resistant tuberculosis.

Bacteriologically-confirmed cases – cases with positive identification for M. tuberculosis complex confirmed by culture and/or line probe assay for non-EU/EEA countries and areas, culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases for EU/EEA countries.

Previous TB history is defined as previous diagnosis.

(In accordance with Security Council Resolution 1244 (1999)).

Table VII. MDR-TB notification among all bacteriologically confirmed a TB cases with available DST results, European Region, 2013-2017

|                          |        | 2013   |                        |        | 2014    |                       |        | 2015    | ı                      |        | 2016   |                        |        | 2017   |                        | Mean                                       |
|--------------------------|--------|--------|------------------------|--------|---------|-----------------------|--------|---------|------------------------|--------|--------|------------------------|--------|--------|------------------------|--|
| Country/area             | N      | %      | Rate<br>per<br>100 000 | N      | %       | Rate<br>per<br>100000 | N      | %       | Rate<br>per<br>100 000 | N      | %      | Rate<br>per<br>100 000 | N      | %      | Rate<br>per<br>100 000 | annual<br>%<br>change<br>in rate,<br>2013- |
| EU/EEA                   |        |        |                        |        |         |                       |        |         |                        |        |        |                        |        |        |                        | 2017                                       |
| Austria                  | 16     | (3.5)  | 0.2                    | 20     | (4.8)   | 0.2                   | 12     | (2.8)   | 0.1                    | 17     | (3.6)  | 0.2                    | 18     | (4.2)  | 0.2                    | 2.0%                                       |
| Belgium                  | 13     | (1.8)  | 0.1                    | 11     | (1.6)   | 0.1                   | 15     | (2.0)   | 0.1                    | 10     | (1.3)  | 0.1                    | 5      | (0.7)  | 0.0                    | -21.69                                     |
| Bulgaria                 | 27     | (3.6)  | 0.4                    | 37     | (5.0)   | 0.5                   | 24     | (3.6)   | 0.3                    | 19     | (2.8)  | 0.3                    | 24     | (4.0)  | 0.3                    | -2.3%                                      |
| Croatia                  | 0      | (0.0)  | 0.0                    | 2      | (0.5)   | 0.0                   | 1      | (0.3)   | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    |  |
| Cyprus                   | 1      | (3.3)  | 0.1                    | 0      | (0.0)   | 0.0                   | 0      | (0.0)   | 0.0                    | 1      | (2.4)  | 0.1                    | 1      | (2.6)  | 0.1                    | 0.3%                                       |
| Czech Republic           | 0      | (0.0)  | 0.0                    | 5      | (1.5)   | 0.0                   | 9      | (2.4)   | 0.1                    | 6      | (1.6)  | 0.1                    | 8      | (2.3)  | 0.1                    |  |
| Denmark                  | 2      | (0.7)  | 0.0                    | 2      | (0.7)   | 0.0                   | 6      | (2.2)   | 0.1                    | 4      | (1.6)  | 0.1                    | 2      | (0.9)  | 0.0                    | -0.69                                      |
| Estonia                  | 54     | (24.0) | 4.1                    | 50     | (26.0)  | 3.8                   | 38     | (21.2)  | 2.9                    | 24     | (15.7) | 1.8                    | 36     | (25.4) | 2.7                    | -9.69                                      |
| Finland                  | 2      | (1.0)  | 0.0                    | 8      | (3.8)   | 0.1                   | 8      | (3.8)   | 0.1                    | 6      | (3.3)  | 0.1                    | 5      | (2.6)  | 0.1                    | 25.39                                      |
| France                   | 83     | (1.9)  | 0.1                    | 111    | (2.6)   | 0.2                   | _      | (5.0)   | -                      | 71     | (1.7)  | 0.1                    | _      | (210)  | -                      | 25157                                      |
| Germany                  | 97     | (3.2)  | 0.1                    | 93     | (3.0)   | 0.1                   | 110    | (2.8)   | 0.1                    | 104    | (2.6)  | 0.1                    | 105    | (3.0)  | 0.1                    | 1.4%                                       |
| Greece                   | 10     | (4.3)  | 0.1                    | 4      | (2.4)   | 0.0                   | 9      | (4.3)   | 0.1                    | 4      | (3.4)  | 0.0                    | 7      | (3.7)  | 0.1                    | -8.0%                                      |
| Hungary                  | 10     | (2.8)  | 0.1                    | 3      | (1.0)   | 0.0                   | 8      | (2.1)   | 0.1                    | 18     | (5.2)  | 0.0                    | 11     | (3.5)  | 0.1                    | 2.7%                                       |
| Iceland                  | 0      | (0.0)  | 0.0                    | 0      | (0.0)   | 0.0                   | 0      | (0.0)   | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | 2./ //                                     |
| Ireland                  | 4      | (1.5)  | 0.0                    | 2      | (0.0)   | 0.0                   | 1      | (0.5)   | 0.0                    | 6      | (2.6)  | 0.0                    | 5      | (2.6)  | 0.0                    | 4.8%                                       |
|                          | 78     | (3.3)  | 0.1                    | 78     | (3.1)   | 0.0                   | 70     | (2.7)   | 0.0                    | 70     | (2.6)  | 0.1                    | 66     | (2.5)  | 0.1                    |  |
| Italy                    |        |        |                        |        |         |                       |        |         |                        |        |        |                        |        |        |                        | -4.5%                                      |
| Latvia                   | 79     | (11.6) | 3.9                    | 70     | (11.9)  | 3.5                   | 63     | (11.1)  | 3.2                    | 56     | (10.4) | 2.8                    | 46     | (10.6) | 2.4                    | -11.8%                                     |
| Liechtenstein            | 0      | -      | 0.0                    | 0      | (0.0)   | 0.0                   | 0      | (0.0)   | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | -  |
| Lithuania                | 256    | (18.9) | 8.6                    | 271    | (21.5)  | 9.2                   | 241    | (19.7)  | 8.2                    | 244    | (20.3) | 8.4                    | 249    | (21.7) | 8.7                    | 0.4%                                       |
| Luxembourg               | 0      | (0.0)  | 0.0                    | 1      | (6.3)   | 0.2                   | 0      | (0.0)   | 0.0                    | 1      | (4.0)  | 0.2                    | 1      | (4.3)  | 0.2                    | -  |
| Malta                    | 1      | (3.7)  | 0.2                    | 0      | (0.0)   | 0.0                   | 1      | (4.5)   | 0.2                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | -100.0%                                    |
| Netherlands              | 16     | (2.6)  | 0.1                    | 7      | (1.3)   | 0.0                   | 8      | (1.4)   | 0.0                    | 14     | (2.4)  | 0.1                    | 10     | (1.8)  | 0.1                    | -11.5%                                     |
| Norway                   | 6      | (1.9)  | 0.1                    | 11     | (4.2)   | 0.2                   | 5      | (2.0)   | 0.1                    | 11     | (4.8)  | 0.2                    | 9      | (4.2)  | 0.2                    | 9.6%                                       |
| Poland                   | 40     | (0.9)  | 0.1                    | 35     | (0.8)   | 0.1                   | 35     | (0.8)   | 0.1                    | 46     | (1.1)  | 0.1                    | 44     | (1.2)  | 0.1                    | 2.5%                                       |
| Portugal                 | 15     | (1.1)  | 0.1                    | 25     | (2.0)   | 0.2                   | 23     | (1.8)   | 0.2                    | 15     | (1.3)  | 0.1                    | 10     | (1.4)  | 0.1                    | -9.3%                                      |
| Romania                  | 579    | (7.8)  | 2.9                    | 532    | (6.4)   | 2.7                   | 537    | (6.0)   | 2.7                    | 469    | (5.5)  | 2.4                    | 361    | (4.4)  | 1.8                    | -10.7%                                     |
| Slovakia                 | 3      | (1.4)  | 0.1                    | 3      | (1.9)   | 0.1                   | 2      | (1.3)   | 0.0                    | 3      | (2.7)  | 0.1                    | 6      | (4.5)  | 0.1                    | 18.8%                                      |
| Slovenia                 | 0      | (0.0)  | 0.0                    | 0      | (0.0)   | 0.0                   | 0      | (0.0)   | 0.0                    | 0      | (0.0)  | 0.0                    | 1      | (0.9)  | 0.0                    | -  |
| Spain                    | 34     | (2.2)  | 0.1                    | 35     | (2.2)   | 0.1                   | 40     | (4.8)   | 0.1                    | 39     | (4.4)  | 0.1                    | 19     | (2.0)  | 0.0                    | -13.4%                                     |
| Sweden                   | 8      | (1.5)  | 0.1                    | 15     | (2.9)   | 0.2                   | 22     | (3.2)   | 0.2                    | 22     | (3.7)  | 0.2                    | 11     | (2.6)  | 0.1                    | 7.1%                                       |
| United Kingdom           | 74     | (1.6)  | 0.1                    | 57     | (1.3)   | 0.1                   | 48     | (1.3)   | 0.1                    | 58     | (1.5)  | 0.1                    | 47     | (1.4)  | 0.1                    | -11.4%                                     |
| Subtotal EU/EEA          | 1508   | (4.1)  | 0.3                    | 1 488  | (4.0)   | 0.3                   | 1336   | (4.0)   | 0.3                    | 1338   | (3.6)  | 0.3                    | 1 107  | (3.7)  | 0.2                    | -4.5%                                      |
| Non-EU/EEA               |        |        |                        |        |         |                       |        |         |                        |        |        |                        |        |        |                        |  |
| Albania                  | 1      | (3.2)  | 0.0                    | 3      | (10.3)  | 0.1                   | 4      | (30.8)  | 0.1                    | 4      | (10.0) | 0.1                    | 4      | (5.1)  | 0.1                    | 41.3%                                      |
| Andorra                  | 1      | (25.0) | 1.2                    | 2      | (40.0)  | 2.5                   | 0      | (0.0)   | 0.0                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | -  |
| Armenia                  | 112    | (25.6) | 3.9                    | 111    | (18.2)  | 3.8                   | 101    | (23.2)  | 3.5                    | 128    | (27.8) | 4.4                    | 104    | (16.5) | 3.5                    | -2.1%                                      |
| Azerbaijan               | 970    | (25.4) | 10.3                   | 495    | (8.3)   | 5.2                   | 1 171  | (31.8)  | 12.2                   | 925    | (31.3) | 9.5                    | 1 007  | (20.5) | 10.2                   | -0.2%                                      |
| Belarus                  | 1 353  | (41.7) | 14.3                   | 1 251  | (44.6)  | 13.2                  | 1 340  | (47.4)  | 14.1                   | 1 543  | (57.1) | 16.3                   | 1 117  | (45.6) | 11.8                   | -4.7%                                      |
| Bosnia and Herzegovina   | 1      | (50.0) | 0.0                    | 4      | (0.6)   | 0.1                   | 3      | (0.4)   | 0.1                    | 0      | (0.0)  | 0.0                    | 0      | (0.0)  | 0.0                    | -100.0%                                    |
| Georgia                  | 400    | (17.5) | 9.9                    | 441    | (18.9)  | 11.0                  | 418    | (17.9)  | 10.6                   | 401    | (17.1) | 10.2                   | 339    | (16.1) | 8.7                    | -3.2%                                      |
| Israel                   | 8      | (3.8)  | 0.1                    | 17     | (6.5)   | 0.2                   | 15     | (7.7)   | 0.2                    | 11     | (7.1)  | 0.1                    | 8      | (4.7)  | 0.1                    | -1.5%                                      |
| Kazakhstan               | 6 032  | (40.5) | 35.1                   | 5 877  | (36.8)  | 33.6                  | 6 497  | (60.4)  | 36.6                   | 5 817  | (55.4) | 32.3                   | 4 626  | (42.3) | 25.4                   | -7.7%                                      |
| Kyrgyzstan               | 1 160  | (36.8) | 20.4                   | 1267   | -       | 21.9                  | 1 116  | (37.9)  | 19.0                   | 1236   | (35.4) | 20.8                   | 1 372  | (36.5) | 22.7                   | 2.7%                                       |
| Monaco                   | -      | (50.0) | -                      | 0      | _       | -                     | 0      | (3/1.)/ | -                      | 0      | (33.4) | -                      | 0      | (50.5) |                        | , //                                       |
| Montenegro               | _      | -      | _                      | 2      | (2.9)   | 0.3                   | 1      | (1.8)   | 0.2                    | 0      | (0.0)  | 0.0                    | 1      | (1.7)  | 0.2                    | -  |
| North Macedonia          | 1      | (0.6)  | 0.0                    | 3      | (1.7)   | 0.5                   | 5      | (2.7)   | 0.2                    | 2      | (1.2)  | 0.0                    | 1      | (0.6)  | 0.0                    | -0.1%                                      |
| Republic of Moldova      | 1 042  | (39.8) | 25.6                   | 925    | (35.6)  | 22.7                  | 1 042  | (43.6)  | 25.6                   | 1 031  | (41.4) | 25.4                   | 853    | (38.5) | 21.1                   | -4.8%                                      |
| Russian Federation       | 12 069 | (27.7) | 8.4                    | 15 585 | (34.5)  | 10.8                  | 17 132 | (36.7)  | 11.9                   | 27 363 | (47.3) | 19.0                   | 26 602 | (48.1) | 18.5                   | 21.8%                                      |
| San Marino               | 12 069 | (2/./) | 0.4                    | 0      | (54.5)  | 10.8                  | 1/ 132 | (30.7)  | 11.9                   | 2/ 363 | (47.3) | 19.0                   | 26 602 | (40.1) | 18.5                   | 21.0%                                      |
|                          |        | (4.2)  | 0.4                    |        | (2.0)   |                       |        | (4.4)   |                        |        |        |                        |        | (1 1)  |                        | 0.00                                       |
| Serbia evaluding Kasayah | 10     | (1.3)  | 0.1                    | 14     | (2.0)   | 0.2                   | 5      | (1.1)   | 0.1                    | 12     | (1.8)  | 0.1                    | 9      | (1.4)  | 0.1                    | -2.2%                                      |
| Serbia excluding Kosovob |        | -      | _                      | -      | -       | -                     | -      | -       | -                      | 8      | (1.8)  | 0.1                    | 5      | (1.3)  | 0.1                    |  |
| Kosovo <sup>b</sup>      | - 42   | (2.4)  | -                      | -      | - (( 2) | -                     | -      | (2.4)   | -                      | 4      | (1.8)  | 0.2                    | 4      | (1.5)  | 0.2                    | -  |
| Switzerland              | 13     | (3.1)  | 0.2                    | 17     | (4.2)   | 0.2                   | 16     | (3.6)   | 0.2                    | 18     | (3.8)  | 0.2                    | 0      | (0.0)  | 0.0                    |  |
| Tajikistan               | 872    | (30.7) | 10.7                   | 902    | (27.9)  | 10.8                  | 675    | (20.9)  | 7.9                    | 748    | (23.5) | 8.6                    | 936    | (30.4) | 10.5                   | -0.4%                                      |
| Turkey                   | 228    | (4.1)  | 0.3                    | 349    | (6.4)   | 0.5                   | 304    | (5.4)   | 0.4                    | 256    | (4.2)  | 0.3                    | 252    | (4.3)  | 0.3                    | 0.9%                                       |
| Turkmenistan             | 81     | -      | 1.5                    | 209    | (99.5)  | 3.8                   | 268    | -       | 4.8                    | 560    | -      | 9.9                    | 343    | -      | 6.0                    |  |
| Ukraine                  | 9 929  | (46.9) | 22.0                   | 7735   | (32.9)  | 17.2                  | 9 397  | (39.8)  | 21.0                   | 8 651  | (40.0) | 19.5                   | 6 564  | (32.9) | 14.8                   | -9.4%                                      |
| Uzbekistan               | 4 366  | (63.3) | 14.5                   | 3 844  | (21.4)  | 12.6                  | 2 149  | (28.4)  | 6.9                    | 1 986  | (35.5) | 6.3                    | 2 265  | (16.3) | 7.1                    | -16.4%                                     |
| Subtotal non-EU/EEA      | 38 649 | (34.4) | 9.8                    | 39 053 | (30.5)  | 9.8                   | 41 659 | (36.5)  | 10.4                   | 50 692 | (41.7) | 12.6                   | 46 403 | (36.3) | 11.5                   | 4.0%                                       |
| Total European Region    | 40 157 | (26.9) | 4.4                    | 40 541 | (24.5)  | 4.5                   | 42 995 | (29.2)  | 5.1                    | 52 030 | (32.8) | 5.7                    | 47 510 | (30.1) | 5.6                    | 5.8%                                       |
| Subtotal 18 HPCs         | 39 609 | (32.7) | 10.0                   | 39 951 | (29.2)  | 10.1                  | 42 513 | (34.4)  | 10.7                   | 51 457 | (39.4) | 12.8                   | 47 096 | (34.4) | 11.7                   | 3.9%                                       |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics. Data for non-EU/EEA countries and areas includes all confirmed RR/MDR-TB cases.
DST = drug-susceptibility testing,
HPCs = high-priority countries.
MDR-TB = multidrug-resistant tuberculosis.

\* Bacteriologically-confirmed cases – cases with positive identification for M. tuberculosis complex confirmed by culture and/or line probe assay for non-EU/EEA countries and areas, culture-positive OR microscopy-positive and nucleic acid amplification test-positive cases for EU/EEA countries.

\* (In accordance with Security Council Resolution 1244 (1999)).

Table VIII. XDR-TB notification among pulmonary MDR-TB cases with second-line DST results, European Region, 2013-2017ª

|                          |                                    | 2013          |   |                                    | 2014          |   |                                    | 2015          |   |                                    | 2016          |   |                                    | 2017          |   |
|--------------------------|------------------------------------|---------------|---|------------------------------------|---------------|---|------------------------------------|---------------|---|------------------------------------|---------------|---|------------------------------------|---------------|---|
| Country/area             | MDR-TB<br>tested<br>for SLD<br>(N) | XDR-TB<br>(N) | Percent-<br>age<br>among<br>tested<br>for SLD |
| EU/EEA                   |                                    |               | 101 525                                       |                                    |               | 10.020  |                                    |               | 525   |                                    |               | .0.525  |                                    |               |   |
| Austria                  | 16                                 | 3             | (18.8)  | 18                                 | 2             | (11.1)  | 9                                  | 1             | (11.1)  | 15                                 | 2             | (13.3)  | 16                                 | 3             | (18.8)  |
| Belgium                  | 10                                 | 0             | (0.0)   | 10                                 | 1             | (10.0)  | 11                                 | 2             | (18.2)  | 9                                  | 0             | (0.0)   | 3                                  | 0             | (0.0)   |
| Bulgaria                 | 26                                 | 4             | (15.4)  | 36                                 | 3             | (8.3)   | 21                                 | 4             | (19.0)  | 19                                 | 0             | (0.0)   | 23                                 | 1             | (4.3)   |
| Croatia                  | 0                                  | -             | _   | 2                                  | 0             | (0.0)   | 1                                  | 0             | (0.0)   | 0                                  | _             | _   | 0                                  | _             | _   |
| Cyprus                   | 1                                  | 1             | (100.0)                                       | 0                                  | -             | -   | 0                                  | -             | -   | 0                                  | -             | -   | 1                                  | 0             | (0.0)   |
| Czech Republic           | 0                                  | -             | -   | 5                                  | 0             | (0.0)   | 6                                  | 1             | (16.7)  | 5                                  | 0             | (0.0)   | 6                                  | 2             | (33.3)  |
| Denmark                  | 2                                  | 1             | (50.0)  | 1                                  | 0             | (0.0)   | 5                                  | 1             | (20.0)  | 3                                  | 0             | (0.0)   | 1                                  | 0             | (0.0)   |
| Estonia                  | 53                                 | 10            | (18.9)  | 48                                 | 8             | (16.7)  | 35                                 | 8             | (22.9)  | 23                                 | 7             | (30.4)  | 34                                 | 9             | (26.5)  |
| Finland                  | 2                                  | 0             | (0.0)   | 6                                  | 1             | (16.7)  | 8                                  | 1             | (12.5)  | 3                                  | 1             | (33.3)  | 5                                  | 1             | (20.0)  |
| France                   | 81                                 | 21            | (25.9)  | 70                                 | 30            | (42.9)  | 76                                 | 8             | (10.5)  | 69                                 | 6             | (0.0)   | -                                  | -             | -   |
| Germany                  | 41                                 | 3             | (7.3)   | 59                                 | 11            | (18.6)  | 71                                 | 9             | (12.7)  | 65                                 | 6             | (9.2)   | 70                                 | 4             | (5.7)   |
| Greece                   | 10                                 | 0             | (0.0)   | 2                                  | 1             | (50.0)  | 0                                  | -             | -   | 0                                  | -             | -   | 6                                  | 1             | (16.7)  |
| Hungary                  | 9                                  | 1             | (11.1)  | 2                                  | 0             | (0.0)   | 7                                  | 1             | (14.3)  | 15                                 | 7             | (46.7)  | 10                                 | 4             | (40.0)  |
| Iceland                  | 0                                  | -             | -   | 0                                  | -             | -   | 0                                  | -             | -   | 0                                  | -             | -   | 0                                  | -             | -   |
| Ireland                  | 3                                  | 1             | (33.3)  | 2                                  | 0             | (0.0)   | 0                                  | -             | -   | 5                                  | 0             | (0.0)   | 5                                  | 1             | (20.0)  |
| Italy                    | 55                                 | 7             | (12.7)  | 64                                 | 9             | (14.1)  | 31                                 | 6             | (19.4)  | 43                                 | 5             | (11.6)  | 46                                 | 5             | (10.9)  |
| Latvia                   | 69                                 | 15            | (21.7)  | 70                                 | 13            | (18.6)  | 62                                 | 16            | (25.8)  | 53                                 | 20            | (37.7)  | 45                                 | 17            | (37.8)  |
| Liechtenstein            | 0                                  | -             | -   | 0                                  | -             | -   | 0                                  | -             | -   | 0                                  | -             | -   | 0                                  | -             | -   |
| Lithuania                | 186                                | 46            | (24.7)  | 232                                | 60            | (25.9)  | 238                                | 58            | (24.4)  | 242                                | 58            | (24.0)  | 248                                | 87            | (35.1)  |
| Luxembourg               | 0                                  | -             | -   | 0                                  | -             | -   | 0                                  | -             | -   | 0                                  | -             | -   | 0                                  | -             | -   |
| Malta                    | 1                                  | 1             | (100.0)                                       | 0                                  | -             | -   | 0                                  | -             | -   | 0                                  | -             | -   | 0                                  | -             | -   |
| Netherlands              | 0                                  | -             | -   | 5                                  | 0             | (0.0)   | 0                                  | -             | -   | 0                                  | -             | -   | 5                                  | 0             | (0.0)   |
| Norway                   | 5                                  | 1             | (20.0)  | 9                                  | 1             | (11.1)  | 4                                  | 0             | (0.0)   | 8                                  | 0             | (0.0)   | 6                                  | 0             | (0.0)   |
| Poland                   | 4                                  | 1             | (25.0)  | 25                                 | 5             | (20.0)  | 23                                 | 4             | (17.4)  | 38                                 | 8             | (21.1)  | 35                                 | 5             | (14.3)  |
| Portugal                 | 11                                 | 4             | (36.4)  | 13                                 | 2             | (15.4)  | 16                                 | 5             | (31.3)  | 12                                 | 3             | (25.0)  | 7                                  | 0             | (0.0)   |
| Romania                  | 309                                | 56            | (18.1)  | 301                                | 58            | (19.3)  | 317                                | 68            | (21.5)  | 215                                | 67            | (31.2)  | 142                                | 43            | (30.3)  |
| Slovakia                 | 2                                  | 0             | (0.0)   | 3                                  | 0             | (0.0)   | 2                                  | 0             | (0.0)   | 3                                  | 0             | (0.0)   | 5                                  | 2             | (40.0)  |
| Slovenia                 | 0                                  | -             | -   | 0                                  | -             | -   | 0                                  | -             | -   | 0                                  | -             | -   | 1                                  | 0             | (0.0)   |
| Spain                    | 34                                 | 2             | (5.9)   | 35                                 | 2             | (5.7)   | 42                                 | 1             | (2.4)   | 39                                 | 0             | (0.0)   | 5                                  | 0             | (0.0)   |
| Sweden                   | 7                                  | 2             | (28.6)  | 11                                 | 1             | (9.1)   | 16                                 | 1             | (6.3)   | 14                                 | 4             | (28.6)  | 9                                  | 0             | (0.0)   |
| United Kingdom           | 42                                 | 2             | (4.8)   | 35                                 | 2             | (5.7)   | 34                                 | 9             | (26.5)  | 42                                 | 5             | (11.9)  | 30                                 | 3             | (10.0)  |
| Subtotal EU/EEA          | 979                                | 182           | (18.6)  | 1064                               | 210           | (19.7)  | 1 035                              | 204           | (19.7)  | 940                                | 199           | (21.2)  | 764                                | 188           | (24.6)  |
| Non-EU/EEA               |                                    |               |   |                                    |               |   |                                    |               |   |                                    |               |   |                                    |               |   |
| Albania                  | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   |
| Andorra                  | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   |
| Armenia                  | 66                                 | 7             | (10.6)  | 100                                | 8             | (8.0)   | 89                                 | 8             | (9.0)   | 53                                 | 6             | (11.3)  | 81                                 | 13            | (16.0)  |
| Azerbaijan               | 0                                  | 0             | (0.0)   | 840                                | 100           | (11.9)  | 670                                | 125           | (18.7)  | 0                                  | 71            | (0.0)   | 0                                  | 0             | (0.0)   |
| Belarus                  | 1 353                              | 80            | (5.9)   | 1 251                              | 366           | (29.3)  | 1 275                              | 453           | (35.5)  | 1246                               | 572           | (45.9)  | 1 088                              | 343           | (31.5)  |
| Bosnia and Herzegovina   | 0                                  | 0             | (0.0)   | 3                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   |
| Georgia                  | 369                                | 71            | (19.2)  | 357                                | 54            | (15.1)  | 347                                | 62            | (17.9)  | 296                                | 52            | (17.6)  | 246                                | 44            | (17.9)  |
| Israel                   | 7                                  | 1             | (14.3)  | 15                                 | 0             | (0.0)   | 11                                 | 1             | (9.1)   | 9                                  | 2             | (22.2)  | 8                                  | 1             | (12.5)  |
| Kazakhstan               | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   |
| Kyrgyzstan               | 0                                  | 0             | (0.0)   | -                                  | -             | -   | 235                                | 44            | (18.7)  | 407                                | 72            | (17.7)  | 353                                | 127           | (36.0)  |
| Monaco                   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   |
| Montenegro               | 0                                  | 0             | (0.0)   | 2                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 1                                  | 1             | (100.0)                                       |
| North Macedonia          | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   |
| Republic of Moldova      | 782                                | 35            | (4.5)   | 277                                | 11            | (4.0)   | 0                                  | 0             | (0.0)   | 514                                | 42            | (8.2)   | 475                                | 30            | (6.3)   |
| Russian Federation       | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 25 258                             | 3 402         | (13.5)  | 20 477                             | 3 562         | (17.4)  |
| San Marino               | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   |
| Serbia                   | 6                                  | 0             | (0.0)   | 7                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 14                                 | 1             | (7.1)   | 0                                  | 0             | (0.0)   |
| Serbia excluding Kosovob | -                                  | -             | -   | _                                  | -             | -   | _                                  | -             | -   | _                                  | -             | -   | -                                  | -             | _   |
| Kosovo <sup>b</sup>      | -                                  | -             | -   | _                                  | -             | _   | -                                  | -             | -   | -                                  | -             | -   | -                                  | -             | _   |
| Switzerland              | 12                                 | 1             | (8.3)   | 11                                 | 1             | (9.1)   | 11                                 | 2             | (18.2)  | 13                                 | 0             | (0.0)   | 0                                  | 0             | (0.0)   |
| Tajikistan               | 159                                | 28            | (17.6)  | 371                                | 54            | (14.6)  | 561                                | 54            | (9.6)   | 697                                | 59            | (8.5)   | 508                                | 279           | (54.9)  |
| Turkey                   | 114                                | 3             | (2.6)   | 169                                | 2             | (1.2)   | 133                                | 3             | (2.3)   | 130                                | 9             | (6.9)   | 100                                | 2             | (2.0)   |
| Turkmenistan             | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   |
| Ukraine                  | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 0                                  | 0             | (0.0)   | 7 519                              | 247           | (3.3)   | 5 008                              | 1 001         | (20.0)  |
| Uzbekistan               | 528                                | 167           | (31.6)  | 927                                | 181           | (19.5)  | 0                                  | 0             | (0.0)   | 1986                               | 184           | (9.3)   | 540                                | 0             | (0.0)   |
| Subtotal non-EU/EEA      | 3 396                              | 393           | (11.6)  | 4 330                              | 777           | (17.9)  | 3332                               | 752           | (22.6)  | 38 142                             | 4 719         | (12.4)  | 28 885                             | 5 403         | (18.7)  |
| Total European Region    | 4 375                              | 575           | (13.1)  | 5 394                              | 987           | (18.3)  | 4 367                              | 956           | (21.9)  | 39 082                             | 4 918         | (12.6)  | 29 649                             | 5 591         | (18.9)  |
| Subtotal 18 HPCs         | 4 014                              | 522           | (13.0)  | 4 979                              | 918           | (18.4)  | 3 983                              | 903           | (22.7)  | 38 658                             | 4 868         | (12.6)  | 29 368                             | 5 558         | (18.9)  |

Wotes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics.

DST = drug-susceptibility testing.

HPCs = high-priority countries.

MDR-TB = multidrug-resistant tuberculosis.

SLD = susceptibility to second-line anti-TB drugs.

XDR-TB = extensively drug-resistant tuberculosis.

SLD = susceptibility to second-line anti-TB to drugs.

XDR-TB = extensively drug-resistant tuberculosis.

3 Includes only countries reporting second-line anti-TB testing for at least one fluoroquinolone (ciprofloxacin, gatifloxacin, levofloxacin, moxifloxacin, and ofloxacin) and one injectable drug (amikacin, capreomycin, and kanamycin).

b (In accordance with Security Council Resolution 1244 (1999)).

Table IX. TB cases with HIV infection, European Region, 2013–2017<sup>a</sup>

|                                      |              |           | 2013    |                  |                |              |           | 2014     |                  |                |                    |            | 2015    |                  |                |
|--------------------------------------|--------------|-----------|---------|------------------|----------------|--------------|-----------|----------|------------------|----------------|--------------------|------------|---------|------------------|----------------|
| Country/area                         | All TB       | Cases wit |         | HIV po           | sitive         | All TB       | Cases wit |          | HIV po:          | sitive         | All TB             | Cases witl |         | HIV pos          | sitive         |
|                                      | cases<br>(N) | HIV st    | atus %  | N                | % <sup>b</sup> | cases<br>(N) | HIV st    | atus %   | N                | % <sup>b</sup> | cases<br>(N)       | HIV st     | atus %  | N                | % <sup>b</sup> |
| U/EEA                                | (11)         | N         | /0      | N                | /0             | (11)         | N         | /6       | N                | /0             | (11)               | IN .       | /0      | N N              | /0             |
| ustria                               | _            | _         | -       | -                | -              | _            | -         | -        | -                | -              | _                  | -          | _       | -                | -              |
| Belgium                              | 963          | 482       | (50.1)  | 36               | (7.5)          | 949          | 494       | (52.1)   | 38               | (7.7)          | 977                | 432        | (44.2)  | 31               | (7.2)          |
|                                      | 1 932        | 1 874     | (97.0)  | 4                | (0.2)          | 1872         | 1377      | (73.6)   | 3                | (0.2)          | 1660               |            | (79.0)  | 1                | (0.1)          |
| Bulgaria                             |              |           | (97.0)  |                  |                |              |           |          |                  |                |                    | 1 311      | (79.0)  |                  |                |
| Croatia                              | -            | -         | -       | -                | -              | -            | -         | - ((0.0) | -                | - (2.6)        | -                  | -          | (7( 0)  | -                | - (4.0)        |
| Cyprus                               | -            |           | -       | -                |                | 41           | 28        | (68.3)   | 1                | (3.6)          | 63                 | 48         | (76.2)  | 2                | (4.2)          |
| Zzech Republic                       | 497          | 122       | (24.5)  | 0                | (0.0)          | 511          | 146       | (28.6)   | 3                | (2.1)          | 517                | 182        | (35.2)  | 2                | (1.1)          |
| Denmark                              | 356          | 8         | (2.2)   | 8                | (100.0)        | 320          | 6         | (1.9)    | 5                | (83.3)         | 357                | 9          | (2.5)   | 8                | (88.9)         |
| Estonia                              | 290          | 280       | (96.6)  | 37               | (13.2)         | 248          | 239       | (96.4)   | 24               | (10.0)         | 217                | 210        | (96.8)  | 26               | (12.4)         |
| inland                               | -            | -         | -       | -                | -              | -            | -         | -        | -                | -              | -                  | -          | -       | -                | -              |
| rance                                | -            | -         | -       | -                | -              | -            | -         | -        | -                | -              | -                  | -          | -       | -                | -              |
| Germany                              | -            | -         | -       | -                | -              | -            | -         | -        | -                | -              | -                  | -          | -       | -                | -              |
| Greece                               | 540          | 363       | (67.2)  | 35               | (9.6)          | 519          | 336       | (64.7)   | 18               | (5.4)          | 482                | 343        | (71.2)  | 22               | (6.4)          |
| lungary                              | -            | -         | _       | _                | _              | 851          | 30        | (3.5)    | 2                | (6.7)          | 906                | 20         | (2.2)   | 1                | (5.0)          |
| celand                               | 11           | 8         | (72.7)  | 0                | (0.0)          | 9            | 7         | (77.8)   | 0                | (0.0)          | 7                  | 7          | (100.0) | 0                | (0.0)          |
| reland                               | 374          | 124       | (33.2)  | 9                | (7.3)          | 311          | 119       | (38.3)   | 17               | (14.3)         | 283                | 135        | (47.7)  | 8                | (5.9)          |
| taly                                 | -            | - 124     | (33.2)  | _                | (7.5)          | -            | - 117     | (50.5)   | -                | (17.5)         | 205                | -          | (47.77) | -                | (3.3)          |
| Latvia                               | 904          | 420       | (46.5)  | 95               | (22.6)         | 761          | 488       | (64.1)   | 95               | (19.5)         | 721                | 449        | (62.3)  | 78               | (17.4)         |
| iechtenstein.                        | 904          | 420       | (40.3)  | 70               | (22.6)         | /61          | 488       | (04.1)   | 95               | (19.5)         | /21                | 449        | (02.3)  | /0               | (17.4)         |
|                                      | 1 705        |           | ((71)   | 20               |                |              |           | (70.4)   |                  |                | 1 507              | 1.003      | (74.0)  | 20               | (2 ()          |
| Lithuania                            | 1705         | 1144      | (67.1)  | 39               | (3.4)          | 1 607        | 1 135     | (70.6)   | 36               | (3.2)          | 1 507              | 1 082      | (71.8)  | 39               | (3.6)          |
| Luxembourg                           | 38           | 36        | (94.7)  | 1                | (2.8)          | 24           | 13        | (54.2)   | 1                | (7.7)          | -                  | -          | (0:0)   | -                | (45.1)         |
| Malta                                | 50           | 44        | (88.0)  | 0                | (0.0)          | 46           | 35        | (76.1)   | 6                | (17.1)         | 32                 | 26         | (81.3)  | 4                | (15.4)         |
| Netherlands                          | 845          | 481       | (56.9)  | 17               | (3.5)          | 814          | 495       | (60.8)   | 22               | (4.4)          | 862                | 637        | (73.9)  | 36               | (5.7)          |
| Norway                               | 392          | 31        | (7.9)   | 8                | (25.8)         | 323          | 260       | (80.5)   | 17               | (6.5)          | 313                | 260        | (83.1)  | 8                | (3.1)          |
| Poland                               | -            | -         | -       | -                | -              | -            | -         | -        | -                | -              | -                  | -          | -       | -                | -              |
| Portugal                             | 2 410        | 2 091     | (86.8)  | 252              | (12.1)         | 2 278        | 1 959     | (86.0)   | 226              | (11.5)         | 2 196              | 1 985      | (90.4)  | 232              | (11.7)         |
| Romania                              | 16 689       | 10 403    | (62.3)  | 271              | (2.6)          | 15 879       | 11 178    | (70.4)   | 314              | (2.8)          | 15 183             | 11 533     | (76.0)  | 308              | (2.7)          |
| Slovakia                             | 401          | 368       | (91.8)  | 0                | (0.0)          | 336          | 282       | (83.9)   | 0                | (0.0)          | 317                | 201        | (63.4)  | 0                | (0.0)          |
| Slovenia                             | 140          | 105       | (75.0)  | 1                | (1.0)          | 144          | 110       | (76.4)   | 0                | (0.0)          | 130                | 108        | (83.1)  | 0                | (0.0)          |
| ipain                                | 5 632        | 3 609     | (64.1)  | 285              | (7.9)          | 4 913        | 3 201     | (65.2)   | 228              | (7.1)          | 5 021              | 3 156      | (62.9)  | 223              | (7.1)          |
| Sweden                               | 7 0 7 2      | 7 009     | (07.1)  | 20)              | (7.9)          | 4717         | 7 201     | (03.2)   | -                | (7.1)          | 7 021              | 7 170      | (02.9)  |                  | (7.1)          |
| Jnited Kingdom                       | 7 870        | 5 942     | (75.5)  | 224              | (3.8)          | 7 029        | 5 674     | (80.7)   | 203              | (3.6)          | 6 224              | 5 206      | (83.6)  | 205              | (3.9)          |
| Subtotal EU/EEA                      | 42 039       | 27 935    | (66.5)  | 1322             | (4.7)          | 39 785       | 27 612    | (69.4)   | 1 259            | (4.6)          | 37 975             | 27 340     | (72.0)  | 1234             | (3.9)<br>(4.5) |
| ion-EU/EEA                           | 72 037       | 21 733    | (00.5)  | 1 322            | (4-1)          | 37 103       | 27 012    | (07.7)   | 1237             | (4.0)          | 31 713             | 21 340     | (12.0)  | 1 2 2 7          | (4.3)          |
| Albania                              | 474          | 109       | (23.0)  | 2                | (1.8)          | 408          | 41        | (10.0)   | 2                | (4.9)          | 415                | 183        | (44.1)  | 6                | (3.3)          |
|                                      | 5            | 109       |         |                  | (100.0)        |              | 0         | (0.0)    | _                | (4.7)          |                    |            |         | 0                | (5.5)          |
| Andorra                              |              |           | (20.0)  | 1                |                | 6            |           |          |                  |                | 4 4 4 2 5          | 0          | (0.0)   |                  |                |
| Armenia                              | 1 417        | 1 417     | (100.0) | 67               | (4.7)          | 1342         | 1 342     | (100.0)  | 84               | (6.3)          | 1 185              | 1 090      | (92.0)  | 99               | (9.1)          |
| Azerbaijan                           | 8 597        | 8 329     | (96.9)  | 131              | (1.6)          | 7 539        | 7 004     | (92.9)   | 148              | (2.1)          | 7 501              | 6 964      | (92.8)  | 112              | (1.6)          |
| Belarus                              | 4 859        | 4 859     | (100.0) | 250              | (5.1)          | 4 274        | 4 274     | (100.0)  | 271              | (6.3)          | 4 177              | 3 740      | (89.5)  | 206              | (5.5)          |
| Bosnia and Herzegovina               | 1 261        | 74        | (5.9)   | 0                | (0.0)          | 1 196        | -         | -        | -                | -              | 1 0 9 5            | 209        | (19.1)  | 0                | (0.0)          |
| Georgia                              | 4 319        | 2 739     | (63.4)  | 55               | (2.0)          | 3 850        | 2 591     | (67.3)   | 57               | (2.2)          | 3 611              | 2 809      | (77.8)  | 79               | (2.8)          |
| srael                                | 308          | 299       | (97.1)  | 14               | (4.7)          | 361          | 367       | (101.7)  | 25               | (6.8)          | 280                | 280        | (100.0) | 14               | (5.0)          |
| Kazakhstan                           | 19 857       | 18 104    | (91.2)  | 466              | (2.6)          | 15 718       | 15 435    | (98.2)   | 625              | (4.0)          | 14 631             | 13 838     | (94.6)  | 376              | (2.7)          |
| Kyrgyzstan                           | _            | -         | _       | _                | _              | _            | _         | _        | -                | _              | 7 833              | 6745       | (86.1)  | 206              | (3.1)          |
| Monaco                               | -            | -         | -       | -                | -              | -            | -         | -        | -                | -              | -                  | -          | -       | -                | _              |
| Montenegro                           | 120          | 98        | (81.7)  | 2                | (2.0)          | 113          | 94        | (83.2)   | 0                | (0.0)          | 80                 | 73         | (91.3)  | 1                | (1.4)          |
| North Macedonia                      | 323          | 207       | (64.1)  | 0                | (0.0)          | 285          | 171       | (60.0)   | 1                | (0.6)          | 284                | 185        | (65.1)  | 0                | (0.0)          |
| Republic of Moldova                  | 5 051        |           | (80.9)  |                  |                |              | 4 426     | (95.5)   |                  |                | 4 211              |            |         |                  | (8.7)          |
| , ,                                  |              | 4 085     |         | 250              | (6.1)          | 4 636        |           |          | 338              | (7.6)          |                    | 3 439      | (81.7)  | 300              |                |
| Russian Federation                   | 142 533      | 69 724    | (48.9)  | 4 990            | (7.2)          | 136 168      | 67 425    | (49.5)   | 5 251            | (7.8)          | 130 904            | 65 585     | (50.1)  | 6 407            | (9.8)          |
| San Marino                           | -            | -         | -       | -                | - (***         | -            | -         | -        | -                | -              | _                  | -          | ()      | -                | -              |
| Serbia                               | 2 127        | 132       | (6.2)   | 19               | (14.4)         | 1832         | 127       | (6.9)    | 8                | (6.3)          | 1 658              | 91         | (5.5)   | 4                | (4.4)          |
| Serbia excluding Kosovo <sup>c</sup> | 2 127        | 132       | (6.2)   | 19               | (14.4)         | 1832         | 127       | (6.9)    | 8                | (6.3)          | 888                | 91         | (10.2)  | 4                | (4.4)          |
| Kosovo <sup>c</sup>                  | -            | -         | -       | -                | -              | -            | -         | -        | -                | -              | 770                | 0          | (0.0)   | -                | -              |
| witzerland                           | -            | -         | -       | -                | -              | -            | -         | -        | -                | -              | -                  | -          | -       | -                | -              |
| Tajikistan                           | 6 495        | 6 3 6 7   | (98.0)  | 135              | (2.1)          | 6 2 6 0      | 5 656     | (90.4)   | 161              | (2.8)          | 6 232              | 5 627      | (90.3)  | 152              | (2.7)          |
| Turkey                               | 13 409       | 8 787     | (65.5)  | 32               | (0.4)          | 13 378       | 9 344     | (69.8)   | 45               | (0.5)          | 12 772             | 8 759      | (68.6)  | 59               | (0.7)          |
| Turkmenistan                         | -            | -         | -       | -                | -              | -            | -         | -        | -                | (0.5)          | -                  | -          | _       | -                | -              |
| Ukraine                              | 48 134       | 42 213    | (87.7)  | 8 290            | (19.6)         | 40 302       | 39 057    | (96.9)   | 7 640            | (19.6)         | 35 304             | 29 749     | (84.3)  | 6 637            | (22.3)         |
| Jzbekistan                           | 25 168       | 24 670    | (98.0)  | 1 097            | (4.4)          | 22 804       | 22 347    | (98.0)   | 780              | (3.5)          | 19 055             | 13 058     | (68.5)  | 841              | (6.4)          |
| Subtotal non-EU/EEA                  | 284 457      | 192 214   | (67.6)  |                  | (8.2)          | 260 472      | 179 701   | (69.0)   |                  | (8.6)          |                    | 162 424    | (64.7)  |                  | (9.5)          |
| Total European Region                | 326 496      | 220 149   | (67.4)  | 15 801<br>17 123 | (7.8)          | 300 257      | 207 313   | (69.0)   | 15 436<br>16 695 | (8.6)          | 251 232<br>289 207 | 189 764    |         | 15 499<br>16 733 | (8.8)          |
|                                      |              | 7711 1/19 | 10/41   | 17 174           | 17.81          | 500 /5/      | 7117 414  | 104.01   | 10.095           | 18.11          | 784 707            | 167 / 64   | (65.6)  | ID / 55          | IX XI          |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics.

HIV = human immunodeficiency virus.

HPCs = high-priority countries.

a HIV prevalence may be underestimated due to incomplete HIV testing and/or reporting of HIV serostatus. Countries/areas were only included in this analysis if the total number of cases tested for HIV and test results were provided.

b Percentages calculated from TB cases with known HIV test results.

c (In accordance with Security Council Resolution 1244 (1999)).

|              |           | 2016             |          |         | 2017            |                        |                  |               |                |   |
|--------------|-----------|------------------|----------|---------|-----------------|------------------------|------------------|---------------|----------------|---|
| All TB       | Cases wit |                  | HIV po:  | sitive  | All TB          | Cases wit              |                  | HIV po        | sitive         | Country                                     |
| cases        | HIV st    |                  |          |         | cases           | HIV st                 |                  |               | % <sup>b</sup> |   |
| (N)          | N         | %                | N        | %⁵      | (N)             | N                      | %                | N             | <u>%</u> "     | FILERA                                      |
|              |           |                  |          |         |                 |                        |                  |               |                | EU/EEA                                      |
| - 4.0/2      | - (77     | - ((5.0)         | -        | - (( 0) | 072             | -                      | (52.2)           | -             |                | Austria                                     |
| 1042         | 477       | (45.8)           | 33       | (6.9)   | 972             | 517                    | (53.2)           | 43            |                | Belgium                                     |
| 1 603        | 1260      | (78.6)           | 0        | (0.0)   | 1 463           | 1 204                  | (82.3)           | 3             |                | Bulgaria                                    |
| 464          | 4         | (0.9)            | 0        | (0.0)   | 371             | 4                      | (1.1)            | 1             |                | Croatia                                     |
| 60           | 48        | (80.0)           | 0        | (0.0)   | 53              | 49                     | (92.5)           | 0             |                | Cyprus                                      |
| 516          | 205       | (39.7)           | 5        | (2.4)   | 505             | 197                    | (39.0)           | 8             |                | Czech Republic<br>Denmark                   |
| 330          | 150       | (45.5)           | 9        | (6.0)   | 275             | 211                    | (76.7)           | 3             |                |   |
| 193          | 186       | (96.4)           | 22       | (11.8)  | 175             | 163                    | (93.1)           | 14            |                | Estonia<br>Finland                          |
| -            | -         | -                | -        | -       | -               | -                      | -                | _             |                | France                                      |
| _            | _         | _                | -        | _       | _               | _                      | _                | _             |                | Germany                                     |
| 440          | 296       | (67.3)           | 8        | (2.7)   | 467             | 389                    | (83.3)           | 13            |                | Greece                                      |
| 786          | 19        | (2.4)            | 1        | (5.3)   | 685             | 18                     | (2.6)            | 1             |                | Hungary                                     |
|              |           |                  |          |         |                 |                        |                  |               |                | Iceland                                     |
| 6            | 127       | (100.0)          | 0        | (0.0)   | 14              | 13                     | (92.9)           | 0             |                |   |
| 315          | 137       | (43.5)           | 4        | (2.9)   | 318             | 102                    | (32.1)           | 14            |                | Ireland                                     |
| 660          | 507       |                  | -<br>57  |         | -<br>552        | -<br>/ <sub>1</sub> 71 |                  | 52            |                | Italy                                       |
| 660          | 507       | (76.8)           | 5/       | (11.2)  | 552             | 471                    | (85.3)           | 52            |                | Latvia<br>Liechtenstein                     |
|              |           |                  |          |         |                 |                        |                  |               |                |   |
| 1 4 4 2      | 1 138     | (78.9)           | 41       | (3.6)   | 1 387           | 1 125                  | (81.1)           | 42            |                | Lithuania                                   |
| 29           | 5         | (17.2)           | 2        | (40.0)  | 32              | 3                      | (9.4)            | 1             |                | Luxembourg                                  |
| 50           | 46        | (92.0)           | 8        | (17.4)  | 42              | 37                     | (88.1)           | 0             |                | Malta                                       |
| 887          | 639       | (72.0)           | 20       | (3.1)   | 787             | 526                    | (66.8)           | 22            |                | Netherlands                                 |
| 295          | 255       | (86.4)           | 10       | (3.9)   | 261             | 228                    | (87.4)           | 7             |                | Norway<br>Poland                            |
| 1026         | 1 ( 0 7   |                  | 100      |         | 1 000           |                        |                  | 125           |                |   |
| 1936         | 1697      | (87.7)           | 183      | (10.8)  | 1800            | 1183                   | (65.7)           | 135           |                | Portugal                                    |
| 13 601       | 10 844    | (79.7)           | 305      | (2.8)   | 13 004          | 10 760                 | (82.7)           | 232           |                | Romania                                     |
| 296          | 132       | (44.6)           | 0        | (0.0)   | 249             | 227                    | (91.2)           | 0             |                | Slovakia                                    |
| 118          | 95        | (80.5)           | 1        | (1.1)   | 112             | 77                     | (68.8)           | 0             |                | Slovenia                                    |
| 5 063        | 3 781     | (74.7)           | 234      | (6.2)   | 4 570           | 3 408                  | (74.6)           | 277           |                | Spain                                       |
| -            |           | (05.6)           | -        | (2.4)   | -               | - (74                  | (02.0)           | - 420         | (2.0)          | *******                                     |
| 6 116        | 5 233     | (85.6)           | 161      | (3.1)   | 5 5 6 7         | 4 671                  | (83.9)           | 138           |                | United Kingdom                              |
| 36 248       | 27 160    | (74.9)           | 1 104    | (4.1)   | 33 661          | 25 583                 | (76.0)           | 1 006         | (3.9)          | Subtotal EU/EEA Non-EU/EEA                  |
| 415          | 223       | (53.7)           | 6        | (2.7)   | 503             | 235                    | (46.7)           | 4             | (1.7)          | Albania                                     |
| 415          | 0         | (0.0)            | 0        | (2.7)   | 1               | -                      | (40.7)           | -             |                | Andorra                                     |
| 1 080        | 1 027     | (95.1)           | 57       | (5.6)   | 926             | 838                    | (90.5)           | 66            |                | Armenia                                     |
| 6 707        | 4 722     | (70.4)           | 99       | (2.1)   | 7 129           | 5 889                  | (82.6)           | 95            |                | Azerbaijan                                  |
| 3 598        | 3 148     | (87.5)           | 275      | (8.7)   | 3 052           | 2 781                  | (91.1)           | 202           |                | Belarus                                     |
| 907          | 1         | (0.1)            | 1        | (100.0) | 768             | 18                     | (2.3)            | 0             |                | Bosnia and Herzegovina                      |
|              |           | (86.1)           |          |         | 2 927           |                        | (83.4)           |               |                | Georgia                                     |
| 3 330<br>250 | 2866      | (100.0)          | 61<br>18 | (2.1)   | 2927            | 2 442                  | (100.0)          | 43<br>12      |                | Israel                                      |
|              | 250       | (83.9)           |          | (7.2)   |                 |                        |                  |               |                | Kazakhstan                                  |
| 12 658       | 10 616    | (78.2)           | 576      | (5.4)   | 12 942<br>7 695 | 11 056                 | (85.4)<br>(77.5) | 443           |                |   |
| 7 995        | 6 254     | (/0.2)           | 210      | (3.4)   | / 075           | 5 966                  | (77.5)           | 216           |                | Kyrgyzstan<br>Monaco                        |
| 07           | 60        | (69.0)           | 0        | (0.0)   | 77              | - 62                   | (81.8)           | 0             |                | Montenegro                                  |
| 87<br>267    |           |                  |          |         |                 | 178                    |                  |               |                | North Macedonia                             |
| 267<br>4.134 | 207       | (77.5)<br>(81.4) | 203      | (0.0)   | 219             | 178                    | (81.3)           | 277           |                |   |
| 4 134        | 3 366     | (81.4)           | 293      | (8.7)   | 3 858           | 3 352                  | (86.9)           | 277<br>15 695 |                | Republic of Moldova<br>Russian Federation   |
| 121 046      | 79 935    | (66.0)           | 16 570   | (20.7)  | 114 187         | 81 443                 | (71.3)           | כלס כו        |                | San Marino                                  |
| 1 / 0 0      | 402       | (22.4)           | _        |         | 1 447           | 272                    | (25 4)           | 0             |                |   |
| 1488         | 482<br>84 | (32.4)           | 5        | (1.0)   | 1 466<br>745    | 372<br>71              | (25.4)           | 8             |                | Serbia Serbia excluding Kosovo <sup>c</sup> |
| 771          |           | (10.9)           |          | (6.0)   |                 |                        | (9.5)            | 8             | (11.3)         | Kosovo <sup>c</sup>                         |
| 717          | 398       | (55.5)           | 0        | (0.0)   | 721             | 301                    | (41.7)           | 0             | (0.0)          |   |
|              |           | (02.7)           |          | (2 4)   | 6 270           | F 027                  |                  | 210           |                |   |
| 6 241        | 5 850     | (93.7)           | 201      | (3.4)   | 6 279           | 5 937                  | (94.6)           | 219           |                | Tajikistan                                  |
| 12 417       | 8 549     | (68.8)           | 56       | (0.7)   | 12 046          | 8 423                  | (69.9)           | 65            |                | Turkey                                      |
| 24.000       | 20104     | (02.7)           | -<br>-   | (20.7)  | 21 50%          | 26 622                 | (04.2)           |               | (22.4)         |   |
| 34 088       | 28 194    | (82.7)           | 5 832    | (20.7)  | 31 584          | 26 623                 | (84.3)           | 5 955         |                | Ukraine                                     |
| 18 441       | 18 441    | (100.0)          | 758      | (4.1)   | 19 329          | 16 842                 | (87.1)           | 935           |                | Uzbekistan                                  |
| 235 153      | 174 191   | (74.1)           | 25 018   | (14.4)  | 225 222         | 172 692                | (76.7)           | 24 235        |                | Subtotal non-EU/EEA                         |
| 271 401      | 201 351   | (74.2)           | 26 122   | (13.0)  | 258 883         | 198 275                | (76.6)           | 25 241        |                | Total European Region                       |
| 249 234      | 186 903   | (75.0)           | 25 413   | (13.6)  | 238 535         | 185 315                | (77.7)           | 24 554        | (13.2)         | Subtotal 18 HPCs                            |

Table X. Treatment success after 12 months for new<sup>a</sup> TB cases and relapses, European Region, 2012–2016<sup>b</sup>

|  |  | 2012   |                                      | 2013   |  | 2014                                 |  | 2015   |                                      | 2016                                |                                     |                                      |                                     |                                     |  |
|--|--|--|--------------------------------------|--|--|--------------------------------------|--|--|--------------------------------------|-------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------|-------------------------------------|--|
| Country/area   | Cases  | Succ   |                                      | Cases  | Succ   |                                      | Cases  | Succ   |                                      | Cases                               | Succ                                |                                      | Cases                               | Succ                                |  |
|  | reported                                     | N  | (%)                                  | reported                                     | N  | (%)                                  | reported                                     | N  | (%)                                  | reported                            | N                                   | (%)                                  | reported                            | N                                   | (%)  |
| EU/EEA   |  |  | (====)                               |  |  | (== =)                               |  |  | (=, .)                               |                                     |                                     | (== 1)                               |                                     |                                     | (-, -)   |
| Austria  | 608  | 427  | (70.2)                               | 621  | 452  | (72.8)                               | 553  | 410  | (74.1)                               | 553                                 | 404                                 | (73.1)                               | 604                                 | 450                                 | (74.5)   |
| Belgium <sup>c</sup>   | 880  | 681  | (77.4)                               | 876  | 690  | (78.8)                               | 867  | 700  | (80.7)                               | 905                                 | 719                                 | (79.4)                               | 973                                 | 793                                 | (81.5)   |
| Bulgaria   | 2 172  | 1886   | (86.8)                               | 1 893  | 1 620  | (85.6)                               | 1789   | 1 530  | (85.5)                               | 1 598                               | 1 350                               | (84.5)                               | 1 510                               | 1 291                               | (85.5)   |
| Croatia  | 538  | 51   | (9.5)                                | 511  | 225  | (44.0)                               | 496  | 354  | (71.4)                               | 484                                 | 275                                 | (56.8)                               | 452                                 | 264                                 | (58.4)   |
| Cyprus   | 65   | 28   | (43.1)                               | 40   | 20   | (50.0)                               | 39   | 23   | (59.0)                               | 63                                  | 35                                  | (55.6)                               | 56                                  | 37                                  | (66.1)   |
| Czech Republic   | 554  | 414  | (74.7)                               | 468  | 321  | (68.6)                               | 467  | 355  | (76.0)                               | 499                                 | 343                                 | (68.7)                               | 505                                 | 346                                 | (68.5)   |
| Denmark <sup>c</sup>   | 341  | 230  | (67.4)                               | 329  | 239  | (72.6)                               | 291  | 156  | (53.6)                               | 314                                 | 157                                 | (50.0)                               | 288                                 | 108                                 | (37.5)   |
| Estonia  | 217  | 163  | (75.1)                               | 222  | 193  | (86.9)                               | 194  | 162  | (83.5)                               | 172                                 | 143                                 | (83.1)                               | 166                                 | 133                                 | (80.1)   |
| Finland  | 261  | 116  | (44.4)                               | 265  | 140  | (52.8)                               | 249  | 115  | (46.2)                               | 258                                 | 100                                 | (38.8)                               | 216                                 | 70                                  | (32.4)   |
| France   | 2.004  | 2.027  | (72.0)                               |  | 2 (04  | ((7.0)                               | 1 261  | 2 707  | ((2.5)                               |                                     | 2.507                               | ((5.4)                               | F (FO                               | 2017                                | ((0.7)   |
| Germany  | 3 981  | 2 937  | (73.8)                               | 4 0 0 3                                      | 2 681  | (67.0)                               | 4 264  | 2 707  | (63.5)                               | 5 523                               | 3 597                               | (65.1)                               | 5 659                               | 3 947                               | (69.7)   |
| Greece   | 4460   | - 024  | (70.2)                               | 4.020  | 750  | (72.0)                               | 705  | -  | (72.6)                               | -                                   | -                                   | (70.5)                               | 722                                 |                                     | (70.0)   |
| Hungary  | 1 169  | 821  | (70.2)                               | 1029   | 759  | (73.8)                               | 795  | 577  | (72.6)                               | 851                                 | 600                                 | (70.5)                               | 722                                 | 511                                 | (70.8)   |
| Iceland  | 10   | 9  | (90.0)                               | 11   | 10   | (90.9)                               | 9  | 8  | (88.9)                               | 7                                   | 7                                   | (100.0)                              | 6                                   | 5                                   | (83.3)   |
| Ireland <sup>c</sup>   | 328  | 203  | (61.9)                               | 346  | 213  | (61.6)                               | 288  | 162  | (56.3)                               | 265                                 | 191                                 | (72.1)                               | 286                                 | 103                                 | (36.0)   |
| Italy  | - 072  | 750  | (0( 0)                               | -  | -  | (02.2)                               | - (75  | -  | (02.4)                               | - (42                               | - 510                               | (0 ( 1)                              | - 502                               | -                                   | (05.0)   |
| Latvia   | 872  | 758  | (86.9)                               | 804  | 669  | (83.2)                               | 675  | 561  | (83.1)                               | 642                                 | 540                                 | (84.1)                               | 592                                 | 505                                 | (85.3)   |
| Liechtenstein  |  |  | (02.0)                               | 0  | 0  | (00.0)                               | 0  | 0  | (00 ()                               | 1 240                               | 0                                   | (0.0)                                | 2                                   | 2                                   | (100.0)  |
| Lithuania  | 1 447  | 1 186  | (82.0)                               | 1374   | 1 111  | (80.9)                               | 1 282  | 1 033  | (80.6)                               | 1 219                               | 978                                 | (80.2)                               | 1 152                               | 967                                 | (83.9)   |
| Luxembourg   | -  | -  | - (21.1)                             | 38   | 0  | (0.0)                                | -  | -  | -                                    | -                                   | -                                   | -                                    | _                                   | -                                   |  |
| Malta  | 41   | 10   | (24.4)                               | 48   | 36   | (75.0)                               | -  | -  | (00.0)                               | -                                   | -                                   | - (07.4)                             | -                                   | -                                   | (6:-   |
| Netherlands  | 921  | 783  | (85.0)                               | 814  | 728  | (89.4)                               | 797  | 708  | (8.88)                               | 838                                 | 732                                 | (87.4)                               | 864                                 | 747                                 | (86.5)   |
| Norway   | 335  | 293  | (87.5)                               | 348  | 316  | (90.8)                               | 292  | 251  | (86.0)                               | 277                                 | 244                                 | (88.1)                               | 262                                 | 230                                 | (87.8)   |
| Poland   | 7 253  | 4 383  | (60.4)                               | 7 005  | 4 161  | (59.4)                               | 6 500  | 3 783  | (58.2)                               | 6 196                               | 3 293                               | (53.1)                               | 6 099                               | 3 300                               | (54.1)   |
| Portugal   | 2 535  | 1 981  | (78.1)                               | 2 341  | 1748   | (74.7)                               | 2 197  | 1592   | (72.5)                               | 2 131                               | 1 5 5 7                             | (73.1)                               | 1872                                | 1 316                               | (70.3)   |
| Romania  | 16 351                                       | 13 844                                       | (84.7)                               | 15 115                                       | 12 814                                       | (84.8)                               | 14 525                                       | 12 304                                       | (84.7)                               | 13 908                              | 11 831                              | (85.1)                               | 12 459                              | 10 723                              | (86.1)   |
| Slovakia   | 343  | 302  | (88.0)                               | 395  | 370  | (93.7)                               | 318  | 280  | (88.1)                               | 305                                 | 263                                 | (86.2)                               | 279                                 | 241                                 | (86.4)   |
| Slovenia   | 138  | 112  | (81.2)                               | 139  | 107  | (77.0)                               | 142  | 110  | (77.5)                               | 129                                 | 105                                 | (81.4)                               | 118                                 | 84                                  | (71.2)   |
| Spain  | -  | -  | -                                    | -  | -  | -                                    | -  | -  | -                                    | -                                   | -                                   | -                                    | -                                   | -                                   | ()   |
| Sweden   | 578  | 481  | (83.2)                               | 595  | 537  | (90.3)                               | 610  | 535  | (87.7)                               | 754                                 | 659                                 | (87.4)                               | 669                                 | 607                                 | (90.7)   |
| United Kingdom <sup>c</sup>  | 8 100  | 6 512  | (80.4)                               | 7 272  | 6 022  | (82.8)                               | 6 516  | 5 347  | (82.1)                               | 5 791                               | 4 647                               | (80.2)                               | 5 675                               | 4 570                               | (80.5)   |
| Subtotal EU/EEA  | 50 038                                       | 38 611                                       | (77.2)                               | 46 902                                       | 36 182                                       | (77.1)                               | 44 155                                       | 33 763                                       | (76.5)                               | 43 683                              | 32 770                              | (75.0)                               | 41 486                              | 31 350                              | (75.6)   |
| Non-EU/EEA   | 407  | 272  | (01.6)                               | 472  | 616  | (00.1)                               | 407  | 250  | (00.2)                               | 400                                 | 25.4                                | (0( ()                               | 400                                 | 257                                 | (07.2)   |
| Albania  | 407  | 373  | (91.6)                               | 472  | 416  | (88.1)                               | 406  | 358  | (88.2)                               | 409                                 | 354                                 | (86.6)                               | 409                                 | 357                                 | (87.3)   |
| Andorra  | 1 250  | 1 002  | (100.0)                              | 5  | 1 000  | (60.0)                               | 1 220  | 5  | (83.3)                               | 4                                   | 4                                   | (100.0)                              | 4                                   | 3                                   | (75.0)   |
| Armenia  | 1 350  | 1 093  | (81.0)                               | 1 251  | 1008   | (80.6)                               | 1 228  | 959  | (78.1)                               | 910                                 | 721                                 | (79.2)                               | 869                                 | 703                                 | (80.9)   |
| Azerbaijan   | 4 616  | 3 831  | (83.0)                               | 4 294  | 3 504  | (81.6)                               | 1 623  | 1 349  | (83.1)                               | 1 475                               | 1 221                               | (82.8)                               | 1 464                               | 1 225                               | (83.7)   |
| Belarus  | 3 425<br>1 301                               | 2 902<br>1 096                               | (84.7)                               | <i>3 034</i> 1 261                           | 2 626<br>1 040                               | (86.6)<br>(82.5)                     | 2 706<br>1 196                               | 2 381  | (88.0)                               | 2 525<br>1 092                      | 2 243<br>707                        | (88.8)                               | 2 123<br>907                        | 1 894<br>505                        | (89.2)<br>(55.7)                               |
| Bosnia and Herzegovina   |  | 3 103  | (84.2)<br>(85.3)                     | 3 098  | 2 465  | (79.6)                               | 2 862  | 923<br>2 377                                 | (77.2)<br>(83.1)                     | 2 841                               | 2 386                               | (64.7)<br>(84.0)                     | 2 715                               | 2 263                               | (83.4)   |
| Georgia  | 3 638  |  |                                      |  |  |                                      | 322  |  |                                      |                                     |                                     |                                      |                                     |                                     |  |
| Israel<br>Kazakhstan   | 509<br>16 275                                | 412<br>14 068                                | (80.9)                               | 305<br>14 456                                | 257<br>12 841                                | (84.3)                               | 12 473                                       | 285<br>11 186                                | (88.5)<br>(89.7)                     | 263<br>14 006                       | 218<br>12 691                       | (82.9)<br>(90.6)                     | 250<br>6 775                        | 198<br>5 962                        | (79.2)<br>(88.0)                               |
|  | 0  | 0 14 068                                     | (00.4)                               | 5 658  | 4 797  | (84.8)                               | 5 731  | 4 837  | (84.4)                               | 6 139                               | 5 063                               | (82.5)                               | 6 072                               | 4 968                               | (81.8)   |
| Kyrgyzstan<br>Monaco   | 0  | 0  | _                                    | 3  | 4 /9/  | (100.0)                              | 0  | 4 837  | (04.4)                               | 0                                   | 0 063                               | (02.3)                               | 0 0/2                               | 4 968                               | (01.8)   |
| Montenegro   | 107  | 90   | (84.1)                               | 119  | 104  | (87.4)                               | 113  | 101  | (89.4)                               | 80                                  | 74                                  | (92.5)                               | 87                                  | 70                                  | (80.5)   |
| North Macedonia  |  |  | (86.1)                               | 317  |  | (90.5)                               | 281  |  | (86.8)                               | 282                                 |                                     |                                      | 263                                 | 232                                 | (88.2)   |
| Republic of Moldova  | 346<br>4 203                                 | 298<br>3 205                                 | (76.3)                               | 3 889  | 287<br>3 095                                 | (79.6)                               | 3 459  | 244<br>2724                                  | (78.8)                               | 2 992                               | 243                                 | (86.2)<br>(79.5)                     |                                     | 2 515                               | (82.5)   |
| Russian Federation   | 89 666                                       | 61 765                                       | (68.9)                               | 83 301                                       | 56 980                                       | (68.4)                               | 77 136                                       | 53 266                                       |                                      | 80 424                              | 2 379<br>57 060                     | (70.9)                               | 3 048<br>73 137                     | 52 335                              |  |
| San Marino   |  |  |                                      |  |  | (00.4)                               |  |  | (69.1)                               |                                     |                                     |                                      |                                     |                                     | (71.6)   |
| San Marino<br>Serbia   | 1 051  | 15/6   | (2 50)                               | 1 / 27                                       | 1 110  | (70 2)                               | 1 201  | 1042   | (01 2)                               | 1647                                | 1 471                               | (00.2)                               | 1 / / / 2                           | 1 101                               | (02 5)   |
|  | 1 851  | 1546   | (83.5)                               | 1 427  | 1 118  | (78.3)                               | 1 281  |  | (81.3)                               |                                     | 1 471                               | (89.3)                               | 1443                                | 1191                                | (82.5)   |
| Serbia excluding Kosovo <sup>d</sup>   | 1 197  | 968  | (80.9)<br>(88.4)                     | 1184   | 928  | (78.4)                               | 1045   | 828  | (79.2)                               | 882                                 | 733                                 | (83.1)                               | 733<br>710                          | 590<br>601                          | (80.5)   |
| Kacayad  | 654  | 578  | (00.4)                               | 243  | 190  | (78.2)                               | 236  | 214  | (90.7)                               | 765                                 | 738                                 | (96.5)                               |                                     |                                     | (84.6)   |
| Kosovo <sup>d</sup>  | 0  | 0  |                                      |  |  | _                                    | U  | 0  | _                                    | 0                                   | 0                                   | -                                    | 565                                 | 384                                 | (68.0)<br>(89.2)                               |
| Switzerland  | 0  | 0  | (02 4)                               | 0  |  | (07.0)                               |  |  | (00 r)                               | E 200                               | 1.721                               | (00 /)                               | E 22/                               | 1.754                               | 1X4 //   |
| Switzerland<br>Tajikistan  | 5 811  | 4 845  | (83.4)                               | 5 263  | 4 619  | (87.8)                               | 5 149  | 4 606  | (89.5)                               | 5 298                               | 4734                                | (89.4)                               | 5 324                               | 4 751                               |  |
| Switzerland<br>Tajikistan<br>Turkey  | 5 811<br>13 535                              | 4 845<br>11 946                              | (88.3)                               | 5 263<br>13 170                              | 4 619<br>11 373                              | (86.4)                               | 5 149<br>12 933                              | 4 606<br>11 245                              | (86.9)                               | 12 362                              | 10 735                              | (86.8)                               | 12 017                              | 10 462                              | (87.1)   |
| Switzerland<br>Tajikistan<br>Turkey<br>Turkmenistan                          | 5 811<br>13 535<br>2 804                     | 4 845<br>11 946<br>2 369                     | (88.3)<br>(84.5)                     | 5 263<br>13 170<br>3 046                     | 4 619<br>11 373<br>2 199                     | (86.4)<br>(72.2)                     | 5 149<br>12 933<br>2 122                     | 4 606<br>11 245<br>1 797                     | (86.9)<br>(84.7)                     | 12 362<br>1 669                     | 10 735<br>1 451                     | (86.8)<br>(86.9)                     | 12 017<br>2 068                     | 10 462<br>1 738                     | (87.1)<br>(84.0)                               |
| Switzerland<br>Tajikistan<br>Turkey<br>Turkmenistan<br>Ukraine               | 5 811<br>13 535<br>2 804<br>30 928           | 4 845<br>11 946<br>2 369<br>21 922           | (88.3)<br>(84.5)<br>(70.9)           | 5 263<br>13 170<br>3 046<br>29 726           | 4 619<br>11 373<br>2 199<br>20 959           | (86.4)<br>(72.2)<br>(70.5)           | 5 149<br>12 933<br>2 122<br>22 294           | 4 606<br>11 245<br>1 797<br>16 109           | (86.9)<br>(84.7)<br>(72.3)           | 12 362<br>1 669<br>23 892           | 10 735<br>1 451<br>17 939           | (86.8)<br>(86.9)<br>(75.1)           | 12 017<br>2 068<br>22 615           | 10 462<br>1 738<br>17 234           | (87.1)<br>(84.0)<br>(76.2)                     |
| Switzerland<br>Tajikistan<br>Turkey<br>Turkmenistan<br>Ukraine<br>Uzbekistan | 5 811<br>13 535<br>2 804<br>30 928<br>14 132 | 4 845<br>11 946<br>2 369<br>21 922<br>11 905 | (88.3)<br>(84.5)<br>(70.9)<br>(84.2) | 5 263<br>13 170<br>3 046<br>29 726<br>17 373 | 4 619<br>11 373<br>2 199<br>20 959<br>14 457 | (86.4)<br>(72.2)<br>(70.5)<br>(83.2) | 5 149<br>12 933<br>2 122<br>22 294<br>16 328 | 4 606<br>11 245<br>1 797<br>16 109<br>14 215 | (86.9)<br>(84.7)<br>(72.3)<br>(87.1) | 12 362<br>1 669<br>23 892<br>15 220 | 10 735<br>1 451<br>17 939<br>13 536 | (86.8)<br>(86.9)<br>(75.1)<br>(88.9) | 12 017<br>2 068<br>22 615<br>14 743 | 10 462<br>1 738<br>17 234<br>12 906 | (87.1)<br>(84.0)<br>(76.2)<br>(87.5)           |
| Switzerland<br>Tajikistan<br>Turkey<br>Turkmenistan<br>Ukraine               | 5 811<br>13 535<br>2 804<br>30 928           | 4 845<br>11 946<br>2 369<br>21 922           | (88.3)<br>(84.5)<br>(70.9)           | 5 263<br>13 170<br>3 046<br>29 726           | 4 619<br>11 373<br>2 199<br>20 959           | (86.4)<br>(72.2)<br>(70.5)           | 5 149<br>12 933<br>2 122<br>22 294           | 4 606<br>11 245<br>1 797<br>16 109           | (86.9)<br>(84.7)<br>(72.3)           | 12 362<br>1 669<br>23 892           | 10 735<br>1 451<br>17 939           | (86.8)<br>(86.9)<br>(75.1)           | 12 017<br>2 068<br>22 615<br>14 743 | 10 462<br>1 738<br>17 234           | (87.1)<br>(84.0)<br>(76.2)<br>(87.5)<br>(77.7) |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs = high-priority countries.

For EU/EEA countries, cases with unknown TB history are considered as new cases.

Excluding rifampic in-resistant cases.

Previous TB history is defined as previous diagnosis.

(In accordance with Security Council Resolution 1244 (1999)).

Table XI. Treatment success after 12 months of all TB cases, European Region, 2012–2016

|                                      | 2012      |         |         | 2013     |         | 2014    |          | 2015    |        | 2016     |         |         |          |         |                  |
|--------------------------------------|-----------|---------|---------|----------|---------|---------|----------|---------|--------|----------|---------|---------|----------|---------|------------------|
| Country/area                         | Cases     | Succ    | ess     | Cases    | Succ    | ess     | Cases    | Succ    | ess    | Cases    | Succe   | ess     | Cases    | Succ    | ess              |
|                                      | reported⁵ | N       | (%)     | reported | N       | (%)     | reported | N       | (%)    | reported | N       | (%)     | reported | N       | (%)              |
| EU/EEA                               |           |         |         |          |         |         |          |         |        |          |         |         |          |         |                  |
| Austria                              | 646       | 432     | (66.9)  | 653      | 464     | (71.1)  | 586      | 423     | (72.2) | 583      | 418     | (71.7)  | 634      | 461     | (72.7)           |
| Belgium                              | 976       | 736     | (75.4)  | 963      | 743     | (77.2)  | 949      | 752     | (79.2) | 977      | 762     | (78.0)  | 1042     | 844     | (81.0)           |
| Bulgaria                             | 2 280     | 1 917   | (84.1)  | 1 932    | 1 626   | (84.2)  | 1 872    | 1 5 6 5 | (83.6) | 1 660    | 1 385   | (83.4)  | 1 603    | 1 3 4 5 | (83.9)           |
| Croatia                              | 575       | 59      | (10.3)  | 517      | 226     | (43.7)  | 499      | 354     | (70.9) | 488      | 278     | (57.0)  | 464      | 269     | (58.0)           |
| Cyprus                               | 69        | 30      | (43.5)  | 41       | 20      | (48.8)  | 41       | 24      | (58.5) | 63       | 35      | (55.6)  | 60       | 39      | (65.0)           |
| Czech Republic                       | 597       | 444     | (74.4)  | 497      | 345     | (69.4)  | 511      | 379     | (74.2) | 517      | 350     | (67.7)  | 516      | 348     | (67.4)           |
| Denmark                              | 389       | 265     | (68.1)  | 356      | 252     | (70.8)  | 320      | 174     | (54.4) | 357      | 171     | (47.9)  | 330      | 129     | (39.1)           |
| Estonia                              | 289       | 168     | (58.1)  | 290      | 203     | (70.0)  | 248      | 167     | (67.3) | 217      | 150     | (69.1)  | 193      | 135     | (69.9)           |
| Finland                              | 274       | 122     | (44.5)  | 273      | 141     | (51.6)  | 263      | 118     | (44.9) | 270      | 102     | (37.8)  | 233      | 73      | (31.3)           |
| France                               | 5 003     | 2 277   | (45.5)  | 4 9 4 7  | 2 474   | (50.0)  | 4 888    | 2 592   | (53.0) | 4 744    | 2 535   | (53.4)  | 4 9 0 7  | 2 629   | (53.6)           |
| Germany                              | 4 213     | 3 073   | (72.9)  | 4 3 4 0  | 2 838   | (65.4)  | 4 524    | 2 819   | (62.3) | 5 834    | 3 725   | (63.8)  | 5 949    | 4 067   | (68.4)           |
| Greece                               | -         | -       | -       | -        | -       | -       | -        | -       | -      | -        | -       | -       | -        | -       | -                |
| Hungary                              | 1 223     | 847     | (69.3)  | 1 0 4 5  | 765     | (73.2)  | 851      | 607     | (71.3) | 906      | 631     | (69.6)  | 786      | 544     | (69.2)           |
| Iceland                              | 11        | 9       | (81.8)  | 11       | 10      | (90.9)  | 9        | 8       | (88.9) | 7        | 7       | (100.0) | 6        | 5       | (83.3)           |
| Ireland                              | 359       | 218     | (60.7)  | 374      | 232     | (62.0)  | 311      | 173     | (55.6) | 283      | 198     | (70.0)  | 315      | 110     | (34.9)           |
| Italy                                | -         | -       | -       | -        | -       | -       | -        | -       | -      | -        | -       | -       | -        | -       | -                |
| Latvia                               | 993       | 765     | (77.0)  | 904      | 688     | (76.1)  | 761      | 593     | (77.9) | 721      | 551     | (76.4)  | 660      | 512     | (77.6)           |
| Liechtenstein                        | -         | -       | -       | 0        | 0       | -       | -        | -       | -      | 2        | 1       | (50.0)  | 2        | 2       | (100.0)          |
| Lithuania                            | 1 781     | 1 222   | (68.6)  | 1 705    | 1 132   | (66.4)  | 1 607    | 1 054   | (65.6) | 1 507    | 1 004   | (66.6)  | 1 4 4 2  | 992     | (68.8)           |
| Luxembourg                           | -         | -       | -       | 38       | 0       | (0.0)   | -        | -       | _      | -        | -       | _       | -        | -       | _                |
| Malta                                | 42        | 10      | (23.8)  | 50       | 37      | (74.0)  | -        | -       | -      | -        | -       | -       | -        | -       | -                |
| Netherlands                          | 956       | 801     | (83.8)  | 845      | 737     | (87.2)  | 814      | 717     | (88.1) | 862      | 742     | (86.1)  | 887      | 753     | (84.9)           |
| Norway                               | 374       | 319     | (85.3)  | 392      | 346     | (88.3)  | 323      | 268     | (83.0) | 313      | 268     | (85.6)  | 295      | 249     | (84.4)           |
| Poland                               | 7 542     | 4 501   | (59.7)  | 7 250    | 4 252   | (58.6)  | 6 698    | 3 865   | (57.7) | 6 430    | 3 387   | (52.7)  | 6 444    | 3 432   | (53.3)           |
| Portugal                             | 2 606     | 2 015   | (77.3)  | 2 410    | 1779    | (73.8)  | 2 278    | 1625    | (71.3) | 2 196    | 1580    | (71.9)  | 1936     | 1347    | (69.6)           |
| Romania                              | 18 190    | 14 388  | (79.1)  | 16 689   | 13 272  | (79.5)  | 15 879   | 12 679  | (79.8) | 15 183   | 12 181  | (80.2)  | 13 601   | 11 056  | (81.3)           |
| Slovakia                             | 345       | 303     | (87.8)  | 401      | 372     | (92.8)  | 336      | 291     | (86.6) | 317      | 271     | (85.5)  | 296      | 252     | (85.1)           |
| Slovenia                             | 138       | 112     | (81.2)  | 140      | 108     | (77.1)  | 144      | 111     | (77.1) | 130      | 106     | (81.5)  | 118      | 84      | (71.2)           |
| Spain                                | 6 070     | 4 286   | (70.6)  | 5 632    | 4 582   | (81.4)  | 4 913    | 2 827   | (57.5) | 5 021    | 3 583   | (71.4)  | 5 063    | 3 445   | (68.0)           |
| Sweden                               | 623       | 504     | (80.9)  | 639      | 566     | (88.6)  | 659      | 570     | (86.5) | 815      | 688     | (84.4)  | 714      | 635     | (88.9)           |
| United Kingdom                       | 8 712     | 6 895   | (79.1)  | 7 870    | 6 414   | (81.5)  | 7 029    | 5 675   | (80.7) | 6 224    | 4 920   | (79.0)  | 6 116    | 4 857   | (79.4)           |
| Subtotal EU/EEA                      | 65 276    | 46 718  | (71.6)  | 61 204   | 44 624  | (72.9)  | 57 313   | 40 430  | (70.5) | 56 627   | 40 029  | (70.7)  | 54 612   | 38 614  | (70.7)           |
| Non-EU/EEA                           | 03210     | 40 / 10 | (71.0)  | 01204    | 77 027  | (12.7)  | 37 313   | 70 730  | (10.3) | 30 021   | 70 027  | (10.1)  | 34 012   | 30 017  | (10.1)           |
| Albania                              | 413       | 377     | (91.3)  | 472      | 416     | (88.1)  | 406      | 358     | (88.2) | 409      | 354     | (86.6)  | 409      | 357     | (87.3)           |
| Andorra                              | 9         | 9       | (100.0) | 5        | 3       | (60.0)  | 6        | 5       | (83.3) | 409      | 4       | (100.0) | 409      | 3       | (75.0)           |
| Armenia                              | 1365      | 1 100   | (80.6)  | 1 269    | 1 022   | (80.5)  | 1 242    | 966     | (77.8) | 923      | 731     | (79.2)  | 893      | 720     | (80.6)           |
| Azerbaijan                           | 7 495     | 5 951   | (79.4)  | 6 946    | 5 436   | (78.3)  | 3 997    | 3 109   | (77.8) | 4 213    | 3 230   | (76.7)  | 3 684    | 2866    |                  |
| Belarus                              | 3 613     | 3 031   | (83.9)  | 3 256    | 2784    | (85.5)  |          | 2 562   |        | 2 788    | 2 444   | (87.7)  | 2 325    |         | (77.8)<br>(88.2) |
|                                      |           |         |         |          |         |         | 2 955    |         | (86.7) |          |         |         |          | 2 050   |                  |
| Bosnia and Herzegovina               | 1 420     | 1 188   | (83.7)  | 1 261    | 1040    | (82.5)  | 1196     | 923     | (77.2) | 1095     | 707     | (64.6)  | 907      | 505     | (55.7)           |
| Georgia                              | 4 524     | 3 757   | (83.0)  | 3 877    | 3 006   | (77.5)  | 3 371    | 2 727   | (80.9) | 3 144    | 2 582   | (82.1)  | 2 941    | 2 395   | (81.4)           |
| Israel                               | 509       | 412     | (80.9)  | 305      | 257     | (84.3)  | 322      | 285     | (88.5) | 263      | 218     | (82.9)  | 258      | 203     | (78.7)           |
| Kazakhstan                           | 19 446    | 16 556  | (85.1)  | 14 920   | 13 133  | (88.0)  | 12 803   | 11 441  | (89.4) | 14 631   | 13 172  | (90.0)  | 7 021    | 6 159   | (87.7)           |
| Kyrgyzstan                           | 0         | 0       | -       | 6 788    | 5 656   | (83.3)  | 6 646    | 5 563   | (83.7) | 6 686    | 5 423   | (81.1)  | 6 715    | 5 397   | (80.4)           |
| Monaco                               | 0         | 0       | (0 ( 4) | 3        | 3       | (100.0) | 0        | 0       | (00 () | 0        | 0       | (02.5)  | 0        | 0       | (00 =)           |
| Montenegro                           | 107       | 90      | (84.1)  | 120      | 104     | (86.7)  | 113      | 101     | (89.4) | 80       | 74      | (92.5)  | 87       | 70      | (80.5)           |
| North Macedonia                      | 355       | 305     | (85.9)  | 322      | 292     | (90.7)  | 282      | 245     | (86.9) | 284      | 245     | (86.3)  | 267      | 235     | (88.0)           |
| Republic of Moldova                  | 4 658     | 3 382   | (72.6)  | 4 246    | 3 234   | (76.2)  | 3 751    | 2 861   | (76.3) | 3 209    | 2 480   | (77.3)  | 3 390    | 2 667   | (78.7)           |
| Russian Federation                   | 97 627    | 64 731  | (66.3)  | 90 235   | 59 691  | (66.2)  | 82 926   | 55 673  | (67.1) | 88 718   | 61 238  | (69.0)  | 82 382   | 56 881  | (69.0)           |
| San Marino                           | 0         | 0       | _       | 0        | 0       | -       | 0        | 0       | _      | 0        | 0       | -       | 0        | 0       | _                |
| Serbia                               | 1888      | 1573    | (83.3)  | 1 476    | 1 152   | (78.0)  | 1 295    | 1049    | (81.0) | 1669     | 1484    | (88.9)  | 1464     | 1203    | (82.2)           |
| Serbia excluding Kosovo <sup>a</sup> | -         | -       | -       | -        | -       | -       | -        | -       | -      | 897      | 739     | (82.4)  | 751      | 600     | (79.9)           |
| Kosovo <sup>a</sup>                  | -         | -       | -       | -        | -       | -       | -        | -       | -      | 772      | 745     | (96.5)  | 713      | 603     | (84.6)           |
| Switzerland                          | 0         | 0       | -       | 0        | 0       | -       | 0        | 0       | -      | 0        | 0       | -       | 601      | 404     | (67.2)           |
| Tajikistan                           | 6 929     | 5 682   | (82.0)  | 6 075    | 5 282   | (86.9)  | 5 504    | 4 896   | (89.0) | 5 584    | 4 964   | (88.9)  | 5 536    | 4 923   | (88.9)           |
| Turkey                               | 14 691    | 12 714  | (86.5)  | 13 409   | 11 465  | (85.5)  | 13 125   | 11 341  | (86.4) | 12 520   | 10 807  | (86.3)  | 12 196   | 10 554  | (86.5)           |
| Turkmenistan                         | 3 422     | 2 758   | (80.6)  | 3 675    | 2 364   | (64.3)  | 2 265    | 1 890   | (83.4) | 1 880    | 1 621   | (86.2)  | 2 340    | 1 964   | (83.9)           |
| Ukraine                              | 36 514    | 24 790  | (67.9)  | 38 875   | 26 014  | (66.9)  | 27 563   | 19 586  | (71.1) | 27 548   | 20 034  | (72.7)  | 26 351   | 19 484  | (73.9)           |
| Uzbekistan                           | 16 765    | 13 799  | (82.3)  | 21 713   | 17 843  | (82.2)  | 20 275   | 17 402  | (85.8) | 17 837   | 15 694  | (88.0)  | 16 408   | 14 244  | (86.8)           |
| Subtotal non-EU/EEA                  | 221 750   | 162 205 | (73.1)  | 219 248  | 160 197 | (73.1)  | 190 043  | 142 983 | (75.2) | 193 485  | 147 506 | (76.2)  | 176 179  | 133 284 | (75.7)           |
| Total European Region                | 287 026   | 208 923 | (72.8)  | 280 452  | 204 821 | (73.0)  | 247 356  | 183 413 | (74.1) | 250 112  | 187 535 | (75.0)  | 230 791  | 171 898 | (74.5)           |
|                                      |           |         |         |          |         | (73.4)  | 206 790  |         | (75.5) |          |         | (76.4)  |          | 144 344 | (76.1)           |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs = high-priority countries.

a (In accordance with Security Council Resolution 1244 (1999)).

Table XII. Treatment success after 24 months of RR/MDR-TB cases started on treatment, European Region, 2011–2015

|                                      |             | 2011   |         | 2012     |        | 2013    |          | 2014   |         | 2015     |        |         |          |        |         |
|--------------------------------------|-------------|--------|---------|----------|--------|---------|----------|--------|---------|----------|--------|---------|----------|--------|---------|
| Country/area                         | Cases       | Succ   |         | Cases    | Succ   |         | Cases    | Succ   |         | Cases    | Succ   |         | Cases    | Succ   |         |
|                                      | reported    | N      | (%)     | reported | N      | (%)     | reported | N      | (%)     | reported | N      | (%)     | reported | N      | (%      |
| EU/EEA                               |             |        |         |          |        |         |          |        | , ,     |          |        |         |          |        |         |
| Austria                              | 22          | 15     | (68.2)  | 27       | 14     | (51.9)  | 16       | 12     | (75.0)  | 21       | 13     | (61.9)  | 13       | 12     | (92.3)  |
| Belgium                              | 17          | 13     | (76.5)  | 25       | 17     | (68.0)  | 14       | 11     | (78.6)  | 13       | 7      | (53.8)  | 16       | 16     | (100.0) |
| Bulgaria                             | 65          | 37     | (56.9)  | 58       | 38     | (65.5)  | 37       | 17     | (45.9)  | 44       | 22     | (50.0)  | 28       | 17     | (60.7)  |
| Croatia                              | 0           | 0      | -       | 1        | 0      | (0.0)   | 0        | 0      | -       | 1        | 0      | (0.0)   | 1        | 1      | (100.0) |
| Cyprus                               | -           | -      |         | 0        | 0      | -       | -        | -      | -       | 0        | 0      | -       | 0        | 0      | -       |
| Czech Republic                       | 13          | 7      | (53.8)  | 5        | 2      | (40.0)  | 0        | 0      | -       | 7        | 3      | (42.9)  | 9        | 3      | (33.3)  |
| Denmark                              | 3           | 0      | (0.0)   | 1        | 0      | (0.0)   | 2        | 1      | (50.0)  | 2        | 1      | (50.0)  | 7        | 0      | (0.0)   |
| Estonia                              | 70          | 40     | (57.1)  | 57       | 42     | (73.7)  | 54       | 34     | (63.0)  | 51       | 32     | (62.7)  | 40       | 25     | (62.5)  |
| Finland                              | 0           | 0      | -       | 0        | 0      | -       | 0        | 0      | -       | 7        | 2      | (28.6)  | 9        | 4      | (44.4)  |
| France                               | -           | -      | -       | -        | -      | -       | -        | -      | -       | -        | -      | -       | -        | -      | -       |
| Germany                              | 65          | 34     | (52.3)  | 71       | 35     | (49.3)  | 114      | 41     | (36.0)  | 105      | 35     | (33.3)  | 128      | 54     | (42.2)  |
| Greece                               | -           | -      | -       | -        | -      | -       | -        | -      | -       | -        | -      | -       | -        | -      | -       |
| Hungary                              | 8           | 4      | (50.0)  | 13       | 6      | (46.2)  | 11       | 4      | (36.4)  | 4        | 4      | (100.0) | 9        | 2      | (22.2)  |
| Iceland                              | 0           | 0      | -       | -        | -      | -       | 0        | 0      | -       | 0        | 0      | -       | 0        | 0      | -       |
| Ireland                              | 3           | 1      | (33.3)  | 4        | 4      | (100.0) | 4        | 3      | (75.0)  | 2        | 1      | (50.0)  | 1        | 0      | (0.0)   |
| Italy                                | -           | -      | -       | -        | -      | -       | -        | -      | -       | -        | -      | -       | -        | -      | -       |
| Latvia                               | 96          | 52     | (54.2)  | 107      | 66     | (61.7)  | 79       | 54     | (68.4)  | 71       | 52     | (73.2)  | 63       | 39     | (61.9)  |
| Liechtenstein                        | 0           | 0      | _       | 0        | 0      | _       | 0        | 0      | _       | 0        | 0      | _       | 0        | 0      | -       |
| Lithuania                            | 306         | 111    | (36.3)  | 285      | 101    | (35.4)  | 274      | 90     | (32.8)  | 279      | 91     | (32.6)  | 248      | 101    | (40.7)  |
| Luxembourg                           | -           | -      | _       | 0        | 0      | _       | 0        | 0      | _       | -        | -      | -       | 0        | 0      | -       |
| Malta                                | 0           | 0      | -       | 0        | 0      | -       | 2        | 1      | (50.0)  | 0        | 0      | -       | 1        | 0      | (0.0)   |
| Netherlands                          | 17          | 11     | (64.7)  | 14       | 10     | (71.4)  | 17       | 17     | (100.0) | 7        | 6      | (85.7)  | 10       | 6      | (60.0)  |
| Norway                               | 4           | 3      | (75.0)  | 7        | 3      | (42.9)  | 7        | 5      | (71.4)  | 11       | 9      | (81.8)  | 6        | 6      | (100.0) |
| Poland                               | 49          | 16     | (32.7)  | 41       | 7      | (17.1)  | 47       | 10     | (21.3)  | 49       | 9      | (18.4)  | 45       | 16     | (35.6)  |
| Portugal                             | 40          | 22     | (55.0)  | 27       | 13     | (48.1)  | 18       | 10     | (55.6)  | 28       | 15     | (53.6)  | 26       | 9      | (34.6)  |
| Romania                              | 618         | 184    | (29.8)  | 777      | 290    | (37.3)  | 657      | 258    | (39.3)  | 597      | 246    | (41.2)  | 588      | 259    | (44.0)  |
| Slovakia                             | 4           | 2      | (50.0)  | 1        | 0      | (0.0)   | 2        | 0      | (0.0)   | 4        | 2      | (50.0)  | 3        | 1      | (33.3)  |
| Slovenia                             | 0           | 0      | (50.0)  | 0        | 0      | (0.0)   | 0        | 0      | (0.0)   | 0        | 0      | (50.0)  | 0        | 0      | ()).)   |
| Spain                                | _           | -      | _       | _        | -      | _       | _        | _      | _       | _        | -      | _       | _        | _      | _       |
| Sweden                               | 18          | 14     | (77.8)  | 15       | 13     | (86.7)  | 10       | 7      | (70.0)  | 17       | 15     | (88.2)  | 26       | 24     | (92.3)  |
| United Kingdom                       | 92          | 49     | (53.3)  | 85       | 55     | (64.7)  | 79       | 52     | (65.8)  | 57       | 34     | (59.6)  | 53       | 34     | (64.2)  |
| Subtotal EU/EEA                      | 1 510       | 615    | (40.7)  | 1 621    | 716    | (44.2)  | 1444     | 627    | (43.4)  | 1377     | 599    | (43.5)  | 1330     | 629    | (47.3)  |
| Non-EU/EEA                           | 1 310       | 015    | (40.7)  | 1021     | 710    | (77.2)  | 1777     | 021    | (43.4)  | 1 3/1    | 377    | (43.3)  | 1 330    | 029    | (41.3)  |
| Albania                              | 0           | 0      |         | 0        | 0      |         | 0        | 0      |         | 0        | 0      |         | 3        | 3      | (100.0) |
| Andorra                              | 0           | 0      |         | 0        | 0      |         | 0        | 0      |         | 0        | 0      |         | 0        | 0      | (100.0) |
| Armenia                              | 121         | 61     | (50.4)  | 115      | 51     | (44.3)  | 104      | 45     | (43.3)  | 118      | 68     | (57.6)  | 95       | 40     | (42.1)  |
| Azerbaijan                           | 565         | 339    | (60.0)  | 373      | 225    | (60.3)  | 647      | 382    | (59.0)  | 745      | 441    | (59.2)  | 800      | 473    | (59.1)  |
| Belarus                              | 1 600       | 807    | (50.4)  | 2 509    | 1 366  | (54.4)  | 2 136    | 1 152  | (53.9)  | 1 472    | 872    | (59.2)  | 1 400    | 899    | (64.2)  |
| Bosnia and Herzegovina               | 5           | 1      | (20.0)  |          | 3      | (42.9)  | 1        | 1 132  | (100.0) | 3        | 2      | (66.7)  | 1 400    | 1      | (100.0) |
|                                      | 611         | 305    | (49.9)  | 623      | 296    | (47.5)  | 411      | 176    | (42.8)  | 411      | 201    | (48.9)  | 412      | 231    |         |
| Georgia                              |             |        |         |          |        |         |          |        |         |          |        |         |          |        | (56.1)  |
| Israel                               | 11<br>5 241 | 2.010  | (63.6)  | 7 212    | 12     | (92.3)  | 7        | 4 720  | (57.1)  | 16       | 12     | (75.0)  | 10       | 8      | (80.0)  |
| Kazakhstan                           | 5 261       | 3 910  | (74.3)  | 7 213    | 5 265  | (73.0)  | 6 527    | 4 730  | (72.5)  | 6 320    | 4 813  | (76.2)  | 6 482    | 5 063  | (78.1)  |
| Kyrgyzstan                           | 492         | 280    | (56.9)  | 775      | 486    | (62.7)  | 1064     | 611    | (57.4)  | 1 157    | 650    | (56.2)  | 1 162    | 624    | (53.7)  |
| Monaco                               | 0           | 0      | (0.0)   | 0        | 0      | (1000)  | 0        | 0      |         | 0        | 0      | (2.0)   | 0        | 0      | (400 -) |
| Montenegro                           | 1           | 0      | (0.0)   | 1        | 1      | (100.0) | 0        | 0      | (===)   | 2        | 0      | (0.0)   | 1        | 1      | (100.0) |
| North Macedonia                      | 1           | 1      | (100.0) | 3        | 2      | (66.7)  | 2        | 1      | (50.0)  | 3        | 1      | (33.3)  | 5        | 2      | (40.0)  |
| Republic of Moldova                  | 761         | 413    | (54.3)  | 856      | 504    | (58.9)  | 943      | 538    | (57.1)  | 919      | 457    | (49.7)  | 996      | 487    | (48.9)  |
| Russian Federation                   | 15 896      | 5 895  | (37.1)  | 16 021   | 6 427  | (40.1)  | 18 213   | 8 802  | (48.3)  | 20 089   | 10 170 | (50.6)  | 22 607   | 12 117 | (53.6)  |
| San Marino                           | 0           | 0      | -       | 0        | 0      | -       | 0        | 0      | -       | 0        | 0      | -       | 0        | 0      |         |
| Serbia                               | 14          | 9      | (64.3)  | 7        | 4      | (57.1)  | 19       | 15     | (78.9)  | 19       | 12     | (63.2)  | 10       | 9      | (90.0)  |
| Serbia excluding Kosovo <sup>b</sup> | -           | -      | -       | 6        | 3      | (50.0)  | 13       | 10     | (76.9)  | 13       | 7      | (53.8)  | 5        | 4      | (80.0)  |
| Kosovo <sup>b</sup>                  | -           | -      | -       | 1        | 1      | (100.0) | 6        | 5      | (83.3)  | 6        | 5      | (83.3)  | 5        | 5      | (100.0) |
| Switzerland                          | 0           | 0      | -       | 0        | 0      | -       | 0        | 0      | -       | 12       | 9      | (75.0)  | 16       | 7      | (43.8)  |
| Tajikistan                           | 380         | 242    | (63.7)  | 535      | 351    | (65.6)  | 625      | 375    | (60.0)  | 804      | 398    | (49.5)  | 682      | 398    | (58.4)  |
| Turkey                               | 275         | 181    | (65.8)  | 291      | 193    | (66.3)  | 228      | 149    | (65.4)  | 257      | 163    | (63.4)  | 230      | 156    | (67.8)  |
| Turkmenistan                         | 0           | 0      | -       | 0        | 0      | -       | 81       | -      | -       | 213      | 143    | (67.1)  | 210      | 142    | (67.6)  |
| Ukraine                              | 3 810       | 1 298  | (34.1)  | 5 556    | 1 909  | (34.4)  | 7 633    | 2 948  | (38.6)  | 7 174    | 3 297  | (46.0)  | 7 592    | 3 855  | (50.8)  |
| Uzbekistan                           | 855         | 455    | (53.2)  | 1 491    | 737    | (49.4)  | 2 647    | 1 390  | (52.5)  | 3 602    | 2 216  | (61.5)  | 2 149    | 1 259  | (58.6)  |
| Subtotal non-EU/EEA                  | 30 659      | 14 204 | (46.3)  | 36 389   | 17 832 | (49.0)  | 41 288   | 21 319 | (51.6)  | 43 336   | 23 925 | (55.2)  | 44 863   | 25 775 | (57.5)  |
| ·                                    | 32 169      | 14 819 | (46.1)  | 38 010   | 18 548 | (48.8)  | 42 732   | 21 946 | (51.4)  | 44 713   | 24 524 | (54.8)  | 46 193   | 26 404 | (57.2)  |
| Total European Region                |             |        |         |          |        |         |          |        |         |          |        |         |          |        |         |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs = high-priority countries.

MDR-TB = multidrug-resistant tuberculosis.

RR-TB = rifampicin-resistant tuberculosis.

\* For EU/EEA countries, cases diagnosed postmortem were excluded, and cases with no data on treatment enrolment were assumed to be enrolled to treatment.

\* (In accordance with Security Council Resolution 1244 (1999)).

Table XIII. Treatment success after 24 months of XDR-TB cases started on treatment, European Region, 2011–2015

| ountry/area              |        | 2011 |           | 2012   |      | 2013    |        | 2014 |         | 2015  |       |         |        |       |         |
|--------------------------|--------|------|-----------|--------|------|---------|--------|------|---------|-------|-------|---------|--------|-------|---------|
| Country/area             | XDR-TB | Succ |           | XDR-TB | Succ |         | XDR-TB | Succ |         | MD-TB | Succ  |         | XDR-TB | Succ  |         |
| E11/EE A                 | cases  | N    | (%)       | cases  | N    | (%)     | cases  | N    | (%)     | cases | N     | (%)     | cases  | N     | (%      |
| EU/EEA                   | _      |      | (== 1)    | _      |      | (00.4)  |        |      | (** =)  |       |       | (===)   |        |       | (       |
| Austria                  | 7      | 4    | (57.1)    | 7      | 2    | (28.6)  | 3      | 2    | (66.7)  | 2     | 1     | (50.0)  | 1      | 1     | (100.0  |
| Belgium                  | 3      | 2    | (66.7)    | 2      | 2    | (100.0) | 0      | 0    | -       | 1     | 1     | (100.0) | 2      | 2     | (100.0  |
| Bulgaria                 | 0      | 0    | -         | 5      | 1    | (20.0)  | 4      | 0    | (0.0)   | 3     | 0     | (0.0)   | 4      | 2     | (50.0)  |
| Croatia                  | 0      | 0    | -         | 0      | 0    | -       | 0      | 0    | -       | 0     | 0     | -       | 0      | 0     | -       |
| Cyprus                   | 0      | 0    | -         | 0      | 0    | -       | -      | -    | -       | 0     | 0     | -       | 0      | 0     | -       |
| Czech Republic           | 2      | 0    | (0.0)     | 1      | 0    | (0.0)   | 0      | 0    | -       | 0     | 0     | -       | 1      | 0     | (0.0)   |
| Denmark                  | 0      | 0    | -         | 0      | 0    | -       | 1      | 1    | (100.0) | 0     | 0     | -       | 1      | 0     | (0.0)   |
| Estonia                  | 15     | 4    | (26.7)    | 3      | 1    | (33.3)  | 10     | 3    | (30.0)  | 8     | 1     | (12.5)  | 9      | 3     | (33.3)  |
| Finland                  | 0      | 0    | -         | -      | -    | -       | 0      | 0    | -       | 1     | 0     | (0.0)   | 1      | 0     | (0.0)   |
| France                   | -      | -    | -         | -      | -    | -       | -      | -    | -       | -     | -     | -       | -      | -     | -       |
| Germany                  | 1      | 1    | (100.0)   | 1      | 0    | (0.0)   | 3      | 0    | (0.0)   | 11    | 2     | (18.2)  | 9      | 3     | (33.3)  |
| Greece                   | -      | -    | _         | 0      | 0    | _       | 0      | 0    | _       | -     | -     | -       | 0      | 0     | -       |
| Hungary                  | 0      | 0    | -         | 2      | 1    | (50.0)  | 1      | 0    | (0.0)   | 0     | 0     | _       | 1      | 0     | (0.0)   |
| Iceland                  | 0      | 0    | _         | 0      | 0    | -       | 0      | 0    | -       | 0     | 0     | _       | 0      | 0     | (       |
| Ireland                  | 0      | 0    | _         | 0      | 0    | _       | 1      | 1    | (100.0) | 0     | 0     | _       | 0      | 0     | _       |
| Italy                    | _      | _    | _         | _      | _    | _       | _      |      | (100.0) | _     | _     | _       | _      | _     | _       |
| Latvia                   | 12     | 5    | (41.7)    | 17     | 9    | (52.9)  | 15     | 11   | (73.3)  | 13    | 10    | (76.9)  | 16     | 8     | (50.0)  |
|                          |        | 0    | (41./)    | 0      |      | (32.9)  | 0      |      | (/3.3)  | 0     |       | (/0.7)  | 0      |       | (30.0)  |
| Liechtenstein            | 0      |      | (0.0)     |        | 0    | (0.0)   |        | 0    | (0.0)   |       | 0     | (0.0)   |        | 0     | (2.1)   |
| Lithuania                | 52     | 0    | (0.0)     | 52     | 5    | (9.6)   | 47     | 0    | (0.0)   | 61    | 0     | (0.0)   | 59     | 2     | (3.4)   |
| Luxembourg               | 0      | 0    | -         | 0      | 0    | -       | 0      | 0    | - ()    | 0     | 0     | -       | 0      | 0     | -       |
| Malta                    | 0      | 0    | -         | 0      | 0    | -       | 1      | 0    | (0.0)   | 0     | 0     | -       | 0      | 0     | -       |
| Netherlands              | 0      | 0    | -         | 0      | 0    | -       | 0      | 0    | -       | 0     | 0     | -       | 0      | 0     | -       |
| Norway                   | 0      | 0    | -         | 0      | 0    | -       | 1      | 0    | (0.0)   | 1     | 0     | (0.0)   | 0      | 0     | -       |
| Poland                   | 1      | 0    | (0.0)     | 0      | 0    | -       | 1      | 0    | (0.0)   | 5     | 1     | (20.0)  | 4      | 3     | (75.0)  |
| Portugal                 | 9      | 5    | (55.6)    | 4      | 2    | (50.0)  | 4      | 2    | (50.0)  | 3     | 2     | (66.7)  | 6      | 1     | (16.7)  |
| Romania                  | 34     | 6    | (17.6)    | 41     | 3    | (7.3)   | 56     | 9    | (16.1)  | 57    | 9     | (15.8)  | 71     | 28    | (39.4)  |
| Slovakia                 | 0      | 0    | -         | 0      | 0    | -       | 0      | 0    | -       | 0     | 0     | -       | 0      | 0     | -       |
| Slovenia                 | 0      | 0    | -         | 0      | 0    | -       | 0      | 0    | -       | 0     | 0     | -       | 0      | 0     | -       |
| Spain                    | -      | -    | -         | -      | -    | -       | -      | -    | -       | -     | -     | -       | -      | -     | -       |
| Sweden                   | 0      | 0    | _         | 2      | 2    | (100.0) | 2      | 1    | (50.0)  | 1     | 0     | (0.0)   | 1      | 0     | (0.0)   |
| United Kingdom           | 6      | 1    | (16.7)    | 2      | 0    | (0.0)   | 3      | 1    | (33.3)  | 3     | 1     | (33.3)  | 8      | 2     | (25.0)  |
| Subtotal EU/EEA          | 142    | 28   | (19.7)    | 139    | 28   | (20.1)  | 153    | 31   | (20.3)  | 170   | 28    | (16.5)  | 194    | 55    | (28.4)  |
| Non-EU/EEA               | - 1-   |      | (1017)    | 100    |      | (=,     | 100    |      | (=0.0)  | ., .  |       | (1010)  |        |       | (==1)   |
| Albania                  | 0      | 0    | -         | 0      | 0    | -       | 0      | 0    | -       | 0     | 0     | -       | 0      | 0     | _       |
| Andorra                  | 0      | 0    | _         | 0      | 0    | _       | 0      | 0    | _       | 0     | 0     | _       | 0      | 0     | _       |
| Armenia                  | 2      | 1    | (50.0)    | 2      | 0    | (0.0)   | 10     | 2    | (20.0)  | 10    | 4     | (40.0)  | 8      | 4     | (50.0)  |
| Azerbaijan               | 0      | 0    | (50.0)    | 33     | 12   | (36.4)  | 95     | 25   | (26.3)  | 69    | 16    | (23.2)  | 0      | 0     | (50.0)  |
| Belarus                  | 0      | 0    | _         | 0      | 0    | (50.4)  | 60     | 23   | (38.3)  | 431   | 157   | (36.4)  | 508    | 268   | (52.8)  |
|                          | 0      | 0    | _         | 0      | 0    | _       | 0      | 0    | (30.3)  | 0     | 0     | (50.4)  | 0      |       | (32.0)  |
| Bosnia and Herzegovina   |        |      |           |        |      |         |        |      | (24.1)  |       |       | (22.4)  |        | 0     | (5 ( 5) |
| Georgia                  | 19     | 2    | (10.5)    | 43     | 12   | (27.9)  | 70     | 15   | (21.4)  | 56    | 18    | (32.1)  | 62     | 35    | (56.5)  |
| Israel                   | 0      | 0    | -         | 4      | 4    | (100.0) | 1      | 0    | (0.0)   | 2     | 1     | (50.0)  | 1      | 1     | (100.0) |
| Kazakhstan               | 0      | 0    | - (2.1.1) | 0      | 0    | -       | 360    | 109  | (30.3)  | 318   | 98    | (30.8)  | 391    | 126   | (32.2)  |
| Kyrgyzstan               | 14     | 3    | (21.4)    | 0      | 0    | -       | 43     | 12   | (27.9)  | 32    | 5     | (15.6)  | 51     | 9     | (17.6)  |
| Monaco                   | 0      | 0    | -         | 0      | 0    | -       | 3      | 3    | (100.0) | 0     | 0     | -       | 0      | 0     | -       |
| Montenegro               | 2      | 0    | (0.0)     | 0      | 0    | -       | 0      | 0    | -       | 0     | 0     | -       | 0      | 0     | _       |
| North Macedonia          | 0      | 0    | -         | 1      | 1    | (100.0) | 0      | 0    | _       | 0     | 0     | -       | 0      | 0     | _       |
| Republic of Moldova      | 0      | 0    | -         | 0      | 0    | -       | 0      | 0    | -       | 9     | 3     | (33.3)  | 32     | 5     | (15.6)  |
| Russian Federation       | 0      | 0    | -         | 1 318  | 344  | (26.1)  | 1 965  | 520  | (26.5)  | 2 209 | 687   | (31.1)  | 2 882  | 960   | (33.3)  |
| San Marino               | 0      | 0    | -         | 0      | 0    | _       | 0      | 0    | -       | 0     | 0     | -       | 0      | 0     | _       |
| Serbia                   | 3      | 3    | (100.0)   | 1      | 1    | (100.0) | 0      | 0    | -       | 0     | 0     | -       | 0      | 0     | _       |
| Serbia excluding Kosovob | -      | _    | -         | _      | -    | -       | -      | -    | _       | -     | -     | -       | -      | -     | -       |
| Kosovo <sup>b</sup>      | -      | -    | _         | _      | -    | _       | -      | _    | _       | -     | _     | _       | -      | _     | _       |
| Switzerland              | 0      | 0    | -         | 0      | 0    | _       | 0      | 0    | -       | 1     | 0     | (0.0)   | 0      | 0     | _       |
| Tajikistan               | 0      | 0    | _         | 1      | 1    | (100.0) | 4      | 3    | (75.0)  | 0     | 0     | (0.0)   | 0      | 0     |         |
| Turkey                   | 1      | 1    | (100.0)   | 6      | 4    | (66.7)  | 3      | 1    | (33.3)  | 2     | 0     | (0.0)   | 3      | 2     | (66.7)  |
| ,                        |        |      | (100.0)   |        | ,    | (00./)  |        |      | (55.5)  |       |       | (0.0)   |        |       | (00./)  |
| Turkmenistan             | 0      | 0    | _         | 0      | 0    | _       | 0      | 0    | _       | 0     | 0     | (25.0)  | 0      | 0     | (2= =)  |
| Ukraine                  | 0      | 0    | -         | 0      | 0    | -       | 0      | 0    | -       | 1 097 | 278   | (25.3)  | 1 206  | 424   | (35.2)  |
| Uzbekistan               | 8      | 1    | (12.5)    | 21     | 3    | (14.3)  | 0      | 0    | -       | 0     | 0     | -       | 147    | 34    | (23.1)  |
| Subtotal non-EU/EEA      | 49     | 11   | (22.4)    | 1 430  | 382  | (26.7)  | 2 614  | 713  | (27.3)  | 4 236 | 1267  | (29.9)  | 5 291  | 1868  | (35.3)  |
| Total European Region    | 191    | 39   | (20.4)    | 1569   | 410  | (26.1)  | 2 767  | 744  | (26.9)  | 4 406 | 1 295 | (29.4)  | 5 485  | 1923  | (35.1)  |
| Subtotal 18 HPCs         | 157    | 23   | (14.6)    | 1 542  | 395  | (25.6)  | 2 742  | 733  | (26.7)  | 4 375 | 1 286 | (29.4)  | 5 449  | 1 910 | (35.1)  |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics. EU/EEA: country data are shown as missing (-) when data on treatment outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs = high-priority countries.

XDR-TB = extensively drug-resistant tuberculosis.

For EU/EEA countries, cases diagnosed postmortem are excluded, and cases with no treatment enrolment data reported are assumed to be enrolled to treatment.

(In accordance with Security Council Resolution 1244 (1999)).

Table XIV. Treatment success after 36 months of XDR-TB cases notified in EU/EEA, 2010-2014

|                |        | 2010 |         | 2011   |      |         | 2012   |      |         |        | 2013 |         | 2014   |      |         |
|----------------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|---------|--------|------|---------|
| Country        | XDR-TB | Succ | ess     | XDR-TB | Suco | ess     | XDR-TB | Succ | ess     | XDR-TB | Succ | ess     | XDR-TB | Succ | ess     |
|                | cases  | N    | (%)     |
| EU/EEA         |        |      |         |        |      |         |        |      |         |        |      |         |        |      |         |
| Austria        | 1      | 1    | (100.0) | 7      | 4    | (57.1)  | 7      | 2    | (28.6)  | 3      | 2    | (66.7)  | 2      | 2    | (100.0) |
| Belgium        | 2      | 2    | (100.0) | 3      | 3    | (100.0) | 2      | 2    | (100.0) | 0      | 0    | -       | 1      | 1    | (100.0) |
| Bulgaria       | 1      | 1    | (100.0) | 0      | 0    | -       | 5      | 1    | (20.0)  | 4      | 0    | (0.0)   | 3      | 0    | (0.0)   |
| Croatia        | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | _       | 0      | 0    | -       |
| Cyprus         | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | -       | -      | -    | -       | 0      | 0    | -       |
| Czech Republic | 1      | 1    | (100.0) | 2      | 0    | (0.0)   | 1      | 0    | (0.0)   | 0      | 0    | -       | 0      | 0    | -       |
| Denmark        | 0      | 0    | -       | 0      | 0    | _       | 0      | 0    | -       | 1      | 1    | (100.0) | 0      | 0    | -       |
| Estonia        | 11     | 5    | (45.5)  | 15     | 6    | (40.0)  | 4      | 1    | (25.0)  | 10     | 5    | (50.0)  | 8      | 3    | (37.5)  |
| Finland        | 0      | 0    | _       | 0      | 0    | _       | -      | -    | _       | 0      | 0    | _       | _      | -    | _       |
| France         | _      | _    | -       | _      | _    | -       | -      | -    | -       | -      | _    | -       | -      | -    | -       |
| Germany        | 0      | 0    | -       | 1      | 1    | (100.0) | 1      | 0    | (0.0)   | 3      | 0    | (0.0)   | 11     | 2    | (18.2)  |
| Greece         | 0      | 0    | -       | -      | -    | _       | 0      | 0    | _       | 0      | 0    | _       | -      | -    | _       |
| Hungary        | 2      | 0    | (0.0)   | 0      | 0    | -       | 2      | 1    | (50.0)  | 1      | 0    | (0.0)   | 0      | 0    | -       |
| Iceland        | 0      | 0    | _       | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | _       | 0      | 0    | -       |
| Ireland        | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | -       | -      | _    | -       | 0      | 0    | _       |
| Italy          | -      | -    | -       | -      | -    | -       | -      | -    | -       | -      | -    | -       | -      | -    | -       |
| Latvia         | 13     | 9    | (69.2)  | 12     | 7    | (58.3)  | 17     | 9    | (52.9)  | 15     | 11   | (73.3)  | 13     | 10   | (76.9)  |
| Liechtenstein  | 0      | 0    | _       | 0      | 0    | _       | 0      | 0    | _       | 0      | 0    | _       | 0      | 0    | _       |
| Lithuania      | 50     | 3    | (6.0)   | 52     | 11   | (21.2)  | 52     | 6    | (11.5)  | 47     | 11   | (23.4)  | 61     | 15   | (24.6)  |
| Luxembourg     | 0      | 0    | _       | 0      | 0    | _       | 0      | 0    | _       | 0      | 0    | _       | 0      | 0    | _       |
| Malta          | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | -       | -      | -    | -       | 0      | 0    | -       |
| Netherlands    | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | -       |
| Norway         | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | -       | 1      | 0    | (0.0)   | 1      | 0    | (0.0)   |
| Poland         | 1      | 1    | (100.0) | 1      | 0    | (0.0)   | 0      | 0    | -       | 1      | 0    | (0.0)   | 5      | 1    | (20.0)  |
| Portugal       | 4      | 3    | (75.0)  | 9      | 7    | (77.8)  | 4      | 4    | (100.0) | 4      | 4    | (100.0) | 3      | 2    | (66.7)  |
| Romania        | 27     | 2    | (7.4)   | 34     | 6    | (17.6)  | 41     | 5    | (12.2)  | 56     | 11   | (19.6)  | 58     | 9    | (15.5)  |
| Slovakia       | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | _       |
| Slovenia       | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | -       | 0      | 0    | -       |
| Spain          | -      | -    | -       | -      | -    | -       | -      | -    | -       | -      | -    | -       | -      | -    | -       |
| Sweden         | 0      | 0    | -       | 0      | 0    | -       | 2      | 2    | (100.0) | 2      | 2    | (100.0) | 1      | 0    | (0.0)   |
| United Kingdom | 3      | 2    | (66.7)  | 6      | 3    | (50.0)  | 2      | 1    | (50.0)  | 3      | 3    | (100.0) | 3      | 2    | (66.7)  |
| Total EU/EEA   | 116    | 30   | (25.9)  | 142    | 48   | (33.8)  | 140    | 34   | (24.3)  | 151    | 50   | (33.1)  | 170    | 47   | (27.6)  |

Notes: WHO European Region TB HPCs presented in italics. EU/EEA: country data are shown as missing (–) when data on treatment outcome are not reported. For inclusion in the cohort, drug-susceptibility data are also required. HPCs = high-priority countries.

XDR-TB = extensively drug-resistant tuberculosis.

Table XV. New and relapse TB cases tested using WRD such as Xpert MTB/RIF,<sup>a</sup> European Region, 2015-2017

|   |   | 2015               |         |   | 2016               |                  |   | 2017               |  |  |
|---|---|--------------------|---------|---|--------------------|------------------|---|--------------------|--|--|
| Country/area                              | New and<br>relapse<br>TB cases<br>reported <sup>b</sup> | Cases testo<br>WRD |         | New and<br>relapse<br>TB cases<br>reported <sup>b</sup> | Cases test<br>WR   |                  | New and<br>relapse<br>TB cases<br>reported <sup>b</sup> |                    | Cases tested using<br>WRD <sup>c</sup> |  |
|   | N   | N                  | (%)     | N   | N                  | (%)              | N   | N                  | (%)                                    |  |
| EU/EEA                                    |   |                    |         |   |                    |                  |   |                    |  |  |
| Austria                                   | 564   | 424                | (75.2)  | 619   | 490                | (79.2)           | 562   | 445                | (79.2)                                 |  |
| Belgiume                                  | 919   | 444                | (48.3)  | 982   | 473                | (48.2)           | 916   | 484                | (52.8)                                 |  |
| Bulgaria                                  | 1 619   | 10                 | (0.6)   | 1 525   | 6                  | (0.4)            | 1 408   | 5                  | (0.4)                                  |  |
| Croatia                                   | 485   | 0                  | (0.0)   | 452   | 0                  | (0.0)            | 364   | 0                  | (0.0)                                  |  |
| Cyprus                                    | 63  | 5                  | (7.9)   | 57  | 4                  | (7.0)            | 52  | 14                 | (26.9)                                 |  |
| Czech Republic                            | 507   | 273                | (53.8)  | 511   | 252                | (49.3)           | 499   | 336                | (67.3)                                 |  |
| Denmarke                                  | 320   | 186                | (58.1)  | 292   | 209                | (71.6)           | 253   | 198                | (78.3)                                 |  |
| Estonia                                   | 206   | 153                | (74.3)  | 189   | 145                | (76.7)           | 171   | 134                | (78.4)                                 |  |
| Finland                                   | 267   | 84                 | (31.5)  | 222   | 61                 | (27.5)           | 234   | 89                 | (38.0)                                 |  |
| France                                    | 4 457   | 0                  | (0.0)   | 4 623   | 0                  | (0.0)            | 4 839   | 0                  | (0.0)                                  |  |
| Germany                                   | 5 623   | 4 134              | (73.5)  | 5 763   | 4 407              | (76.5)           | 5 353   | 4 092              | (76.4)                                 |  |
|   |   |                    | (42.7)  |   |                    | (40.3)           |   |                    | (47.0)                                 |  |
| Greece                                    | 438   | 187                |         | 417   | 168                |                  | 434   | 204                |  |  |
| Hungary                                   | 858   | 0                  | (0.0)   | 737   | 0                  | (0.0)            | 650   | 0                  | (0.0)                                  |  |
| Iceland                                   | 7   | 6                  | (85.7)  | 6   | 5                  | (83.3)           | 13  | 12                 | (92.3)                                 |  |
| Ireland <sup>e</sup>                      | 266   | 84                 | (31.6)  | 291   | 118                | (40.5)           | 301   | 117                | (38.9)                                 |  |
| Italy                                     | 3 476   | 0                  | (0.0)   | 3 778   | 0                  | (0.0)            | 3 828   | 0                  | (0.0)                                  |  |
| Latvia                                    | 697   | 0                  | (0.0)   | 641   | 0                  | (0.0)            | 543   | 178                | (32.8)                                 |  |
| Liechtenstein                             | 1   | 0                  | (0.0)   | 2   | 0                  | (0.0)            | 1   | 1                  | (100.0)                                |  |
| Lithuania                                 | 1 395   | 0                  | (0.0)   | 1 347   | 0                  | (0.0)            | 1 268   | 0                  | (0.0)                                  |  |
| Luxembourg                                | 30  | 0                  | (0.0)   | 29  | 0                  | (0.0)            | 32  | 0                  | (0.0)                                  |  |
| Malta                                     | 32  | 2                  | (6.3)   | 50  | 17                 | (34.0)           | 42  | 13                 | (31.0)                                 |  |
| Netherlands                               | 846   | 634                | (74.9)  | 875   | 0                  | (0.0)            | 776   | 0                  | (0.0)                                  |  |
| Norwaye                                   | 282   | 252                | (89.4)  | 273   | 233                | (85.3)           | 237   | 211                | (89.0)                                 |  |
| Poland                                    | 6 237   | 743                | (11.9)  | 6 143   | 888                | (14.5)           | 5 535   | 1 037              | (18.7)                                 |  |
| Portugal                                  | 2 155   | 333                | (15.5)  | 1891  | 349                | (18.5)           | 1760  | 377                | (21.4)                                 |  |
| Romania                                   | 14 215  | 1                  | (0.0)   | 12 774  | 846                | (6.6)            | 12 310  | 3 149              | (25.6)                                 |  |
| Slovakia                                  | 308   | 68                 | (22.1)  | 281   | 58                 | (20.6)           | 228   | 56                 | (24.6)                                 |  |
| Slovenia                                  | 129   | 109                | (84.5)  | 118   | 96                 | (81.4)           | 112   | 95                 | (84.8)                                 |  |
|   |   |                    |         |   |                    |                  |   |                    |  |  |
| Spain                                     | 4 819   | 997                | (20.7)  | 4 915   | 1163               | (23.7)           | 4 379   | 1 137              | (26.0)                                 |  |
| Sweden                                    | 776   | 551                | (71.0)  | 691   | 461                | (66.7)           | 488   | 412                | (84.4)                                 |  |
| United Kingdom <sup>e</sup>               | 5 838   | 305                | (5.2)   | 5 726   | 380                | (6.6)            | 5 248   | 397                | (7.6)                                  |  |
| Subtotal EU/EEA                           | 57 835  | 9 985              | (17.3)  | 56 220  | 10 829             | (19.3)           | 52 836  | 13 193             | (25.0)                                 |  |
| Non-EU/EEA                                |   |                    |         |   |                    |                  |   |                    |  |  |
| Albania                                   | 415   | 0                  | (0.0)   | 415   | 0                  | (0.0)            | 503   | 0                  | (0.0)                                  |  |
| Andorra                                   | 4   | 3                  | (75.0)  | 4   | 4                  | (100.0)          | 1   | 1                  | (100.0)                                |  |
| Armenia                                   | 1 171   | 192                | (16.4)  | 1 027   | 57                 | (5.6)            | 841   | 631                | (75.0)                                 |  |
| Azerbaijan                                | 5 456   | 2 339              | (42.9)  | 5 159   | 2 025              | (39.3)           | 5 231   | 2 869              | (54.8)                                 |  |
| Belarus                                   | 3 765   | 2 708              | (71.9)  | 3 211   | 2 555              | (79.6)           | 2 781   | 2 452              | (88.2)                                 |  |
| Bosnia and Herzegovina                    | 1092  | 1092               | (100.0) | 907   | 0                  | (0.0)            | 766   | 0                  | (0.0)                                  |  |
| Georgia                                   | 3 152   | 2 008              | (63.7)  | 2 983   | 2 421              | (81.2)           | 2 597   | 2 099              | (80.8)                                 |  |
| Israel                                    | 280   | 0                  | (0.0)   | 250   | 0                  | (0.0)            | 234   | 0                  | (0.0)                                  |  |
| Kazakhstan                                | 14 006  | 11 631             | (83.0)  | 12 322  | 10 505             | (85.3)           | 12 449  | 10 226             | (82.1)                                 |  |
|   | 7 027   | 1 502              | (21.4)  | 7 026   | 2 533              | (36.1)           | 6 687   | 4 330              | (64.8)                                 |  |
| Kyrgyzstan                                |   |                    | (21.4)  |   |                    | (30.1)           |   |                    | (04.0)                                 |  |
| Monaco                                    | 0   | 0                  | (0.0)   | 0   | 0                  | (20.7)           | 0   | 0                  | (( , 0)                                |  |
| Montenegro                                | 80  | 0                  | (0.0)   | 87  | 25                 | (28.7)           | 75  | 48                 | (64.0)                                 |  |
| North Macedonia                           | 282   | 0                  | (0.0)   | 263   | 0                  | (0.0)            | 216   | 152                | (70.4)                                 |  |
| Republic of Moldova                       | 3 608   | 3 054              | (84.6)  | 3 571   | 1 813              | (50.8)           | 3 358   | 3 129              | (93.2)                                 |  |
| Russian Federation                        | 99 590  | 0                  | (0.0)   | 92 407  | 64 512             | (69.8)           | 84 510  | 65 843             | (77.9)                                 |  |
| San Marino                                | 0   | 0                  | -       | 0   | 0                  | -                | 0   | 0                  | -                                      |  |
| Serbia                                    | 1649  | 0                  | (0.0)   | 1 472   | 0                  | (0.0)            | 1 450   | 275                | (19.0)                                 |  |
| Serbia excluding Kosovo <sup>f</sup>      | -   | -                  | -       | -   | -                  | -                | 738   | 0                  | (0.0)                                  |  |
| Kosovo <sup>f</sup>                       | -   | -                  | -       | -   | -                  | -                | 712   | 275                | (38.6)                                 |  |
| Switzerland                               | 531   | 0                  | (0.0)   | 573   | 0                  | (0.0)            | 529   | 354                | (66.9)                                 |  |
| Tajikistan                                | 5 894   | 0                  | (0.0)   | 5 965   | 4 368              | (73.2)           | 5 895   | 3 075              | (52.2)                                 |  |
| Turkey                                    | 12 550  | 0                  | (0.0)   | 12 186  | 0                  | (0.0)            | 11 821  | 0                  | (0.0)                                  |  |
| Turkmenistan                              | 2 191   | 0                  | (0.0)   | 2 068   | 0                  | (0.0)            | 1 968   | 1 488              | (75.6)                                 |  |
| Ukraine                                   | 30 151  | 23 177             | (76.9)  | 29 052  | 0                  | (0.0)            | 27 229  | 0                  | (0.0)                                  |  |
|   |   |                    |         |   |                    |                  |   |                    |  |  |
| Uzbekistan                                | 16 315  | 0                  | (0.0)   | 16 050  | 12 270             | (76.4)           | 16 842  | 11 368             | (67.5)                                 |  |
|   | 700 700   | 11/706             | 17701   |   |                    | 157 21           | 125 022   | 70V 760            | (58.3)                                 |  |
| Subtotal non-EU/EEA Total European Region | 209 209<br>267 044                                      | 47 706<br>57 691   | (22.8)  | 196 998<br>253 218                                      | 103 088<br>113 917 | (52.3)<br>(45.0) | 185 983<br>238 819                                      | 108 340<br>121 533 | (50.9)                                 |  |

Notes: European Region comprises the 53 countries of the WHO European Region and Liechtenstein. WHO European Region 18 TB HPCs presented in italics.

HPCs = high-priority countries.

WRD = WHO-recommended rapid diagnostics.

WHO (2013). Automated real-time nucleic acid amplification technology for rapid and simultaneous detection of tuberculosis and rifampicin resistance. Xpert MTB/RIF assay for the diagnosis of pulmonary and extrapulmonary TB in adults and children: policy update. Geneva: World Health Organization; (WHO/HTM/TB/2013,16; https://apps.who.int/iris/handle/1o665/112472).

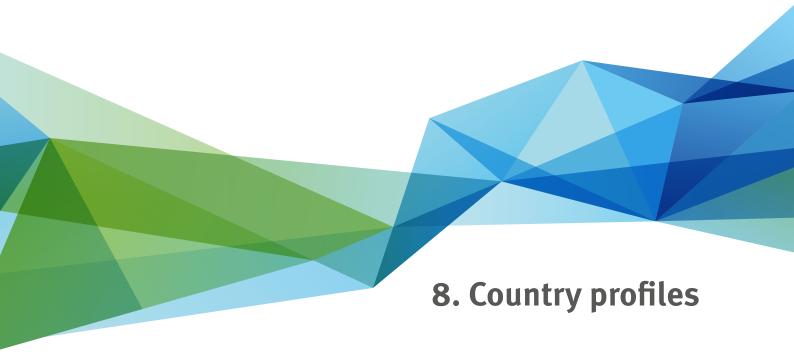
Cases with unknown previous TB history are included among new TB cases.

All nucleic acid amplification tests are counted as "tested using WHO-recommended rapid diagnostics" for EU/EEA countries.

Non-EU/EEA countries and areas reporting zero coverage with the WRD does not necessarily mean they do not do the testing; some of them experience technical difficulties in reporting actual testing coverage.

Previous TB history is defined as previous diagnosis.

(In accordance with Security Council Resolution 1244 (1999)).





| AD | Andorra                |
|----|------------------------|
| AL | Albania                |
| AM | Armenia                |
| AT | Austria                |
| ΑZ | Azerbaijan             |
| ВА | Bosnia and Herzegovina |
| BE | Belgium                |
| BG | Bulgaria               |
| BY | Belarus                |
| CH | Switzerland            |
| CY | Cyprus                 |
| CZ | Czech Republic         |
| DE | Germany                |
| DK | Denmark                |
| EE | Estonia                |
| EL | Greece                 |
| ES | Spain                  |
| FI | Finland                |
| FR | France                 |
|    |                        |

| GE | Georgia             |
|----|---------------------|
| HR | Croatia             |
| HU | Hungary             |
| IE | Ireland             |
| IL | Israel              |
| IS | Iceland             |
| IT | Italy               |
| KG | Kyrgyzstan          |
| KZ | Kazakhstan          |
| LI | Liechtenstein       |
| LT | Lithuania           |
| LU | Luxembourg          |
| LV | Latvia              |
| MD | Republic of Moldova |
| ME | Montenegro          |
| MK | North Macedonia     |
| MT | Malta               |
| NL | Netherlands         |

Norway

NO

| PT Portugal<br>RO Romania<br>RS Serbia<br>RU Russian Federatio<br>SE Sweden |   |
|---|---|
| RS Serbia<br>RU Russian Federatio   |   |
| RU Russian Federation   |   |
|   |   |
| SE Sweden   | n |
|   |   |
| SI Slovenia   |   |
| SK Slovakia   |   |
| TJ Tajikistan   |   |
| ΓM Turkmenistan   |   |
| TR Turkey   |   |
| JA Ukraine  |   |
| JK United Kingdom   |   |
| JZ Uzbekistan   |   |

Population estimate 2017 by UN Statistical Database: 2 930 187

#### TB case notifications, 2017

| Total number of cases                                       |      | 503     |
|---|------|---------|
| Notification rate per 100 000                               | 1    | 7.2     |
| New <sup>a</sup> and relapses                               |      | 503     |
| New <sup>a</sup> and relapses notification rate per 100 000 | 1    | 7.2     |
| Pulmonary new and relapse:                                  | 346  | (68.8%) |
| of which smear-positive                                     | -    | -       |
| of which laboratory-confirmed                               | 210  | (60.7%) |
| Laboratory-confirmed TB cases                               | 210  | (41.7%) |
| Mean age of new and relapse TB cases                        | 44.1 | years   |
| Mean age of new foreign TB cases                            | -    | years   |
| Foreign origin of all TB cases                              | 0    | (0.0%)  |
| New (not previously treated)                                | 479  | (95.2%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup> No                          |        | No       |
|---|--------|----------|
| Completeness of HIV datab   | No     |          |
| Case-linked data reporting  | Yes    |          |
| Cases with DST results  | 79     | (37.6%)  |
| Estimated RR-TB among notified pulmonary cases N, (best–low–high) | 9-1-17 |          |
| Pulmonary MDR-TB cases notified                                   | 1      | (0.0%)   |
| of which XDR-TB cases   | 0      | (0.0%)   |
| Notified MDR-TB   | 4      | (5.1%)   |
| of which XDR-TB cases   | 0      | -        |
| TB cases tested for HIV   | 235    | (46.7%)  |
| HIV-positive TB cases   | 6      | (1.7%)   |
| of these on ART   | 6      | (100.0%) |

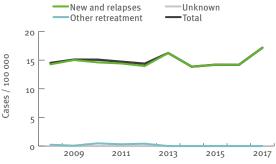
<sup>&</sup>lt;sup>a</sup>National coverage 100% or culturing 90%. C+/all TB cases 50%. DST done for C+ 75%. EQA 95%. <sup>b</sup> More than 50% of TB cases tested for HIV.

#### Treatment outcome monitoring

| Geographical coverage      | Nat     | ional   |   |          |
|----------------------------|---------|---|---|----------|
| Outcome cohort             | TB case | d relapsed<br>s notified<br>2016 <sup>a</sup> | All RR/MDR-TB<br>cases enrolled into<br>second-line treatment<br>in 2015 <sup>b</sup> |          |
| Case-linked data reporting | ١       | 'es   |   |          |
| Cases notified             | 409     |   |   | 3        |
| Success                    | 357     | (87.3%)                                       | 3   | (100.0%) |
| Died                       | 10      | (2.4%)  | 0   | -        |
| Failed                     | 3       | (0.7%)  | 0   | -        |
| Lost to follow-up          | 20      | (4.9%)  | 0   | -        |
| Not evaluated              | 19      | (4.6%)  | 0   | -        |

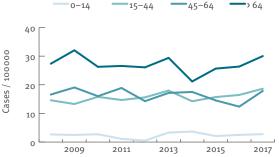
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

### TB notification rates by treatment history, 2008-2017



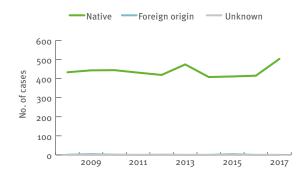
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

#### New and relapsed TB cases - notification rates by age group, 2008-2017ª

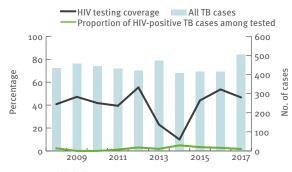


<sup>&</sup>lt;sup>a</sup> Data up to 2012 include new TB cases only.

### TB cases by geographical origin, 2008-2017



### TB/HIV coinfection, 2008-2017a

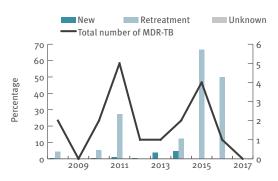


<sup>&</sup>lt;sup>a</sup> Data up to 2014 include all TB cases.

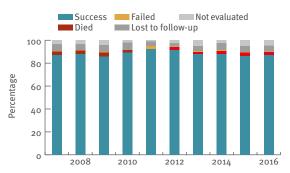
of cases

No.

### MDR-TB cases by previous treatment history, 2008-2017



### Treatment outcome, new and relapsed TB cases, 2008-2017a



a 2007-2011 cohorts include new cases only.

### **Andorra**

Population estimate 2016 by UN Statistical Database: 76 963

#### TB case notifications, 2017

| Total number of cases                                       |     | 1        |
|---|-----|----------|
| Notification rate per 100 000                               |     | 1.3      |
| New <sup>a</sup> and relapses                               |     | 1        |
| New <sup>a</sup> and relapses notification rate per 100 000 |     | 1.3      |
| Pulmonary   | 1   | (100.0%) |
| of which smear-positive                                     | -   | -        |
| of which laboratory-confirmed                               | 1   | (100.0%) |
| Laboratory-confirmed TB cases                               | 1   | -        |
| Mean age of new and relapse TB cases                        | 20. | 0 years  |
| Mean age of new foreign TB cases                            | -   | years    |
| Foreign origin of all TB cases                              | 0   | (0.0%)   |
| New (not previously treated)                                | 4   | (100.0%) |
|   |     |          |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             |       | Yes     |
|---|-------|---------|
| Completeness of HIV datab   | No    |         |
| Case-linked data reporting  |       | Yes     |
| Cases with DST results  | 1     | (50.0%) |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 0-0-1 |         |
| Pulmonary MDR-TB cases notified                                   | 0     | (0.0%)  |
| of which XDR-TB cases   | 0     | (0.0%)  |
| Notified MDR-TB   | 0     | -       |
| of which XDR-TB cases   | 0     | -       |
| TB cases tested for HIV   | 0     | (0.0%)  |
| HIV-positive TB cases   | 0     | -       |
| of these on ART   | 0     | _       |

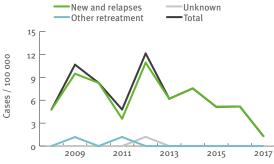
 $<sup>^</sup>a$  National coverage 100% or culturing  $\ge$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\ge$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

| Geographical coverage      | Na  | tional  |  |                           |
|----------------------------|---|---------|--|---------------------------|
| Outcome cohort             | New and relapsed<br>TB cases notified<br>in 2016 <sup>a</sup> |         | All RR/I<br>cases enr<br>second-line<br>in 2 | olled into<br>e treatment |
| Case-linked data reporting | Yes   |         |  |                           |
| Cases notified             | 4   |         | (  | )                         |
| Success                    | 3   | (75.0%) | -  | -                         |
| Died                       | 1   | (25.0%) | -  | -                         |
| Failed                     | 0 (0.0%)  |         | -  | -                         |
| Lost to follow-up          | 0 (0.0%)  |         | -  | -                         |
| Not evaluated              | 0   | (0.0%)  | -  | -                         |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

### TB notification rates by treatment history, 2008–2017<sup>a</sup>



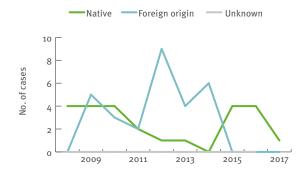
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

### New and relapsed TB cases – notification rates by age group, $2008-2017^a$



a Data up to 2012 includes new TB cases only

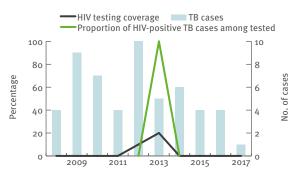
### TB cases by geographical origin, 2008–2017



### MDR-TB cases by previous treatment history, 2008–2017

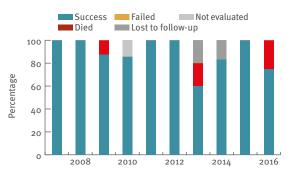
No MDR-TB cases reported

### TB/HIV coinfection, 2008-2017a



<sup>a</sup> Data up to 2014 include all TB cases.

### Treatment outcome, new and relapsed TB cases, 2007–2016a



 $^{\rm a}$  2007–2011 cohorts include new cases only.

### **Armenia**

Population estimate 2016 by UN Statistical Database: 2 930 450

#### TB case notifications, 2017

| Total number of cases                                       | 9    | 926     |
|---|------|---------|
| Notification rate per 100 000                               | 31.6 |         |
| New <sup>a</sup> and relapses                               | 841  |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 2    | 18.7    |
| Pulmonary   | 652  | (77.5%) |
| of which smear-positive                                     | -    | -       |
| of which laboratory-confirmed                               | 369  | (56.6%) |
| Laboratory-confirmed TB cases                               | 454  | -       |
| Mean age of new and relapse TB cases                        | 43.  | years   |
| Mean age of new foreign TB cases                            | -    | years   |
| Foreign origin of all TB cases                              | 7    | (0.8%)  |
| New (not previously treated)                                | 691  | (74.6%) |
|   |      |         |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Υ     | 'es     |
|---|-------|---------|
| Completeness of HIV datab   | Υ     | 'es     |
| Case-linked data reporting  | Υ     | 'es     |
| Cases with DST results  | 428   | (94.3%) |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 180-1 | 50-210  |
| Pulmonary MDR-TB cases notified                                   | 81    | (18.9%) |
| of which XDR-TB cases   | 13    | (16.0%) |
| Notified MDR-TB   | 99    | (23.1%) |
| of which XDR-TB cases   | 13    | (13.3%) |
| TB cases tested for HIV   | 838   | (99.6%) |
| HIV-positive TB cases   | 66    | (7.9%)  |
| of these on ART   | 53    | (80.3%) |

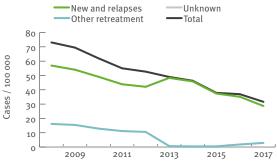
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

| Geographical coverage      | Nat  | tional  |                             |         |
|----------------------------|--|---------|-----------------------------|---------|
| Outcome cohort             | New and relapsed<br>TB cases notified<br>in 2016 <sup>a</sup> All RR/MDR-TI<br>cases enrolled i<br>second-line treat<br>in 2015 <sup>b</sup> |         | rolled into<br>ne treatment |         |
| Case-linked data reporting | ١  | /es     |                             |         |
| Cases notified             | 8  | 369     |                             | 95      |
| Success                    | 703  | (80.9%) | 40                          | (42.1%) |
| Died                       | 48   | (5.5%)  | 7                           | (7.4%)  |
| Failed                     | 18   | (2.1%)  | 16                          | (16.8%) |
| Lost to follow-up          | 99   | (11.4%) | 31                          | (32.6%) |
| Not evaluated              | 1  | (0.1%)  | 1                           | (1.1%)  |

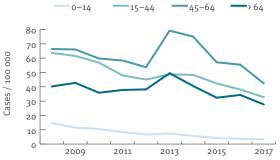
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2008-2017



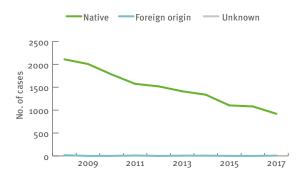
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

### New and relapsed TB cases – notification rates by age group, 2008–2017<sup>a</sup>

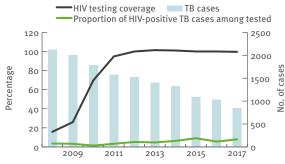


<sup>a</sup> Data up to 2012 includes new TB cases only

### TB cases by geographical origin, 2008-2017

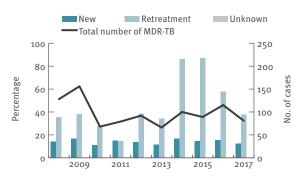


### TB/HIV coinfection, 2008-2017a

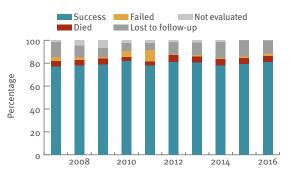


<sup>a</sup> Data up to 2014 include all TB cases.

### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome, new and relapsed TB cases, 2007–2016a



<sup>a</sup> 2007–2011 cohorts include new cases only.

### **Austria**

Total population at 23 April 2018 by EUROSTAT: 8 772 865

#### TB case notifications, 2017

| Total number of cases                                       | 570        |         |
|---|------------|---------|
| Notification rate per 100 000                               | 6          | 5.5     |
| New <sup>a</sup> and relapses                               | 5          | 62      |
| New <sup>a</sup> and relapses notification rate per 100 000 | 6.4        |         |
| Pulmonary   | 431        | (75.6%) |
| of which microscopy-positive                                | 153        | (35.5%) |
| of which laboratory-confirmed                               | 358        | (83.1%) |
| Laboratory-confirmed TB cases                               | 445        | (78.1%) |
| Mean age of new native TB cases                             | 55.6       | years   |
| Mean age of new foreign TB cases                            | 34.4 years |         |
| Foreign origin of all TB cases                              | 373        | (65.4%) |
| New (not previously treated)                                | 428        | (75.1%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes        |         |
|---|------------|---------|
| Completeness of HIV datab   | -          |         |
| Case-linked data reporting  | Yes        |         |
| Cases with DST results  | 425 (95.5% |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 13-5-21    |         |
| Pulmonary MDR-TB cases notified                                   | 16         | (4.6%)  |
| of which XDR-TB cases   | 3          | (18.8%) |
| Notified MDR-TB   | 18         | (4.2%)  |
| of which XDR-TB cases   | 3          | (16.7%) |
| TB cases tested for HIV   | -          | -       |
| HIV-positive TB cases   | -          | -       |
| of these on ART   | -          | -       |

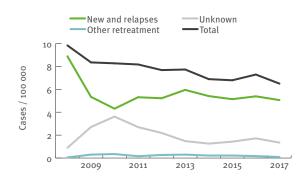
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

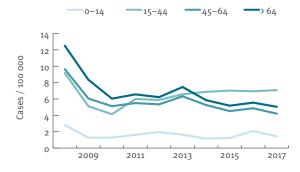
| Geographical coverage      | Nat     | ional                                     |    |                                      |
|----------------------------|---------|---|----|--------------------------------------|
| Outcome cohort             | pulmona | ıre positive<br>ry TB cases<br>l in 2016ª |    | R-TB cases<br>d in 2015 <sup>b</sup> |
| Case-linked data reporting | ١       | 'es                                       |    |                                      |
| Cases notified             | 2       | 168                                       |    | 12                                   |
| Success                    | 200     | (74.6%)                                   | 11 | (91.7%)                              |
| Died                       | 16      | (6.0%)                                    | 0  | (0.0%)                               |
| Failed                     | 0       | (0.0%)                                    | 0  | (0.0%)                               |
| Lost to follow-up          | 6       | (2.2%)                                    | 0  | (0.0%)                               |
| Still on treatment         | 28      | (10.4%)                                   | 0  | (0.0%)                               |
| Not evaluated              | 18      | (6.7%)                                    | 1  | (8.3%)                               |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

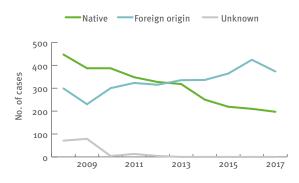
TB notification rates by treatment history, 2008-2017



### New and relapsed TB cases – notification rates by age group, 2008–2017



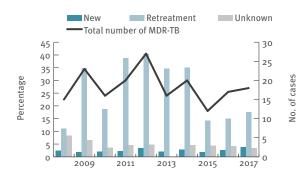
### TB cases by geographical origin, 2008-2017

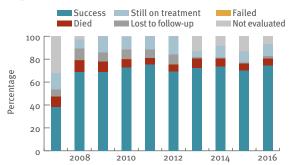


### TB/HIV coinfection, 2008-2017

Data not available

### MDR-TB cases by previous treatment history, 2008–2017





# Azerbaijan

Population estimate 2017 by UN Statistical Database: 9 827 589

#### TB case notifications, 2017

| Total number of cases                                       | 7     | 129     |
|---|-------|---------|
| Notification rate per 100 000                               | 7.    | 2.5     |
| New <sup>a</sup> and relapses                               | 5     | 231     |
| New <sup>a</sup> and relapses notification rate per 100 000 | 53.2  |         |
| Pulmonary   | 4 207 | (80.4%) |
| of which smear-positive                                     | -     | -       |
| of which laboratory-confirmed                               | 3 125 | (74.3%) |
| Laboratory-confirmed TB cases                               | 4 923 | (69.1%) |
| Mean age of new and relapse TB cases                        | 37.1  | years   |
| Mean age of new foreign TB cases                            | -     | years   |
| Foreign origin of all TB cases                              | 0     | (0.0%)  |
| New (not previously treated)                                | 3 871 | (54.3%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes          |         |
|---|--------------|---------|
| Completeness of HIV datab   | Yes          |         |
| Case-linked data reporting  | Υ            | es      |
| Cases with DST results  | 4 663 (94.7% |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 1300-12      | 00-1300 |
| Pulmonary MDR-TB cases notified                                   | 665          | (21.9%) |
| of which XDR-TB cases   |              |         |
| Notified MDR-TB   | 1 0 0 7      | (21.6%) |
| of which XDR-TB cases   | 118          | (14.5%) |
| TB cases tested for HIV   | 5 889        | (82.6%) |
| HIV-positive TB cases   | 95           | (1.6%)  |
| of these on ART   | 79           | (83.2%) |

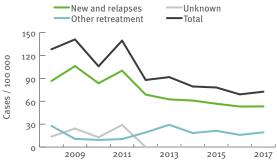
 $<sup>^</sup>a$  National coverage 100% or culturing 90%, C+/all TB cases >50%, DST done for C+ >75%, EQA ≥95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

| Geographical coverage      | Nat   | ional   |   |         |
|----------------------------|---|---------|---|---------|
| Outcome cohort             | Bacteriologically<br>confirmed new TB<br>cases in 2016 <sup>a</sup> |         | All RR/MDR-TB<br>cases enrolled into<br>second-line treatme<br>in 2015 <sup>b</sup> |         |
| Case-linked data reporting | Υ   | es      |   |         |
| Cases notified             | 1   | 464     | 8   | 300     |
| Success                    | 1 2 2 5   | (83.7%) | 473   | (59.1%) |
| Died                       | 26  | (1.8%)  | 123   | (15.4%) |
| Failed                     | 73  | (5.0%)  | 143   | (17.9%) |
| Lost to follow-up          | 118   | (8.1%)  | 61  | (7.6%)  |
| Not evaluated              | 22  | (1.5%)  | 0   | (0.0%)  |

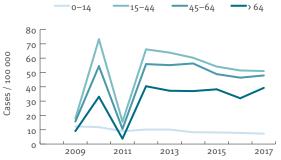
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

#### TB notification rates by treatment history, 2008-2017



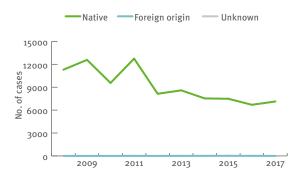
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

### New and relapsed TB cases – notification rates by age group, 2008–2017<sup>a</sup>

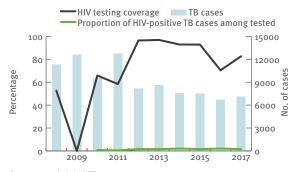


<sup>a</sup> Data up to 2012 includes new TB cases only.

### TB cases by geographical origin, 2008-2017

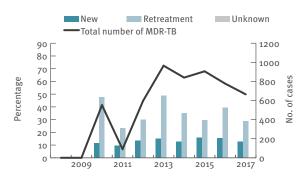


### TB/HIV coinfection, 2008-2017a

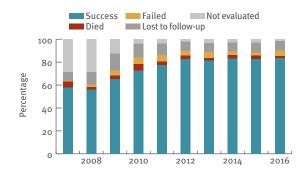


<sup>a</sup> Data up to 2014 include all TB cases.

### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome of new TB cases, 2007-2016



### **Belarus**

Population estimate 2017 by UN Statistical Database: 9 468 338

#### TB case notifications, 2017

| Total number of cases                                       | 3     | 052     |
|---|-------|---------|
| Notification rate per 100 000                               | 32.2  |         |
| New <sup>a</sup> and relapses                               | 2 781 |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 29.4  |         |
| Pulmonary   | 2 567 | (92.3%) |
| of which smear-positive                                     | -     | -       |
| of which laboratory-confirmed                               | 2 171 | (84.6%) |
| Laboratory-confirmed TB cases                               | 2 390 | (78.3%) |
| Mean age of new and relapse TB cases                        | 47.3  | years   |
| Mean age of new foreign TB cases                            | -     | years   |
| Foreign origin of all TB cases                              | 0     | (0.0%)  |
| New (not previously treated)                                | 2 289 | (75.0%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes    |          |
|---|--------|----------|
| Completeness of HIV datab   | Υ      | 'es      |
| Case-linked data reporting  | Υ      | 'es      |
| Cases with DST results  | 2 390  | (100.0%) |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 1300-1 | 300-1400 |
| Pulmonary MDR-TB cases notified                                   | 1088   | (45.5%)  |
| of which XDR-TB cases   | 343    | (31.5%)  |
| Notified MDR-TB   | 1117   | (46.7%)  |
| of which XDR-TB cases   | 343    | (30.7%)  |
| TB cases tested for HIV   | 2 781  | (100.0%) |
| HIV-positive TB cases   | 202    | (7.3%)   |
| of these on ART   | 155    | (76.7%)  |

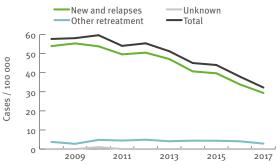
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

Treatment outcome monitoring

| Geographical coverage      | Nat   | ional   |   |         |
|----------------------------|---|---------|---|---------|
| Outcome cohort             | New and relapsed<br>TB cases notified<br>in 2016 <sup>a</sup> |         | All MDR-TB cases<br>enrolled into MDR<br>treatment in 2015 <sup>b</sup> |         |
| Case-linked data reporting | Υ   | es      |   |         |
| Cases notified             | 2 123   |         | 1   | 400     |
| Success                    | 1894  | (89.2%) | 899   | (64.2%) |
| Died                       | 112   | (5.3%)  | 132   | (9.4%)  |
| Failed                     | 45  | (2.1%)  | 218   | (15.6%) |
| Lost to follow-up          | 68  | (3.2%)  | 138   | (9.9%)  |
| Not evaluated              | 4   | (0.2%)  | 13  | (0.9%)  |

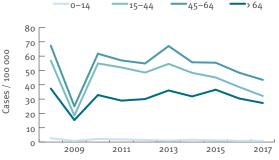
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2008-2017



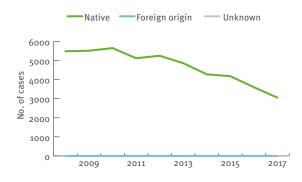
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

### New and relapsed TB cases – notification rates by age group, 2008–2017<sup>a</sup>

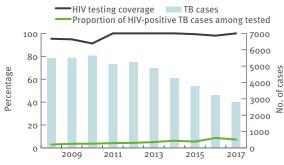


 $^{\rm a}$  Data up to 2012 includes new TB cases only.

### TB cases by geographical origin, 2008-2017

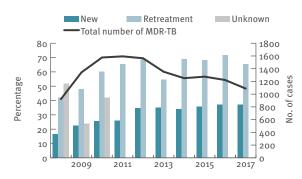


### TB/HIV coinfection, 2008-2017a

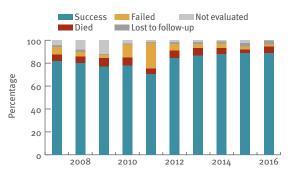


<sup>a</sup> Data up to 2014 include all TB cases.

### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome, new and relapsed TB cases, 2007–2016<sup>a</sup>



 $^{\rm a}$  2007–2011 cohorts include new cases only.

# Belgium

Total population at 23 April 2018 by EUROSTAT: 11 351 727

### TB case notifications, 2017

| Total number of cases                                       | 972        |         |
|---|------------|---------|
| Notification rate per 100 000                               | 8          | 3.6     |
| New <sup>a</sup> and relapses                               | 916        |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 8.1        |         |
| Pulmonary   | 697        | (71.7%) |
| of which microscopy-positive                                | 332        | (47.6%) |
| of which laboratory-confirmed                               | 574        | (82.4%) |
| Laboratory-confirmed TB cases                               | 758        | (78.0%) |
| Mean age of new native TB cases                             | 42.8       | years   |
| Mean age of new foreign TB cases                            | 34.0 years |         |
| Foreign origin of all TB cases                              | 506        | (52.1%) |
| New (not previously treated)                                | 715        | (73.6%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes        |         |
|---|------------|---------|
| Completeness of HIV datab   | Yes        |         |
| Case-linked data reporting  | Yes        |         |
| Cases with DST results  | 729 (96.29 |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 16-        | -6-25   |
| Pulmonary MDR-TB cases notified                                   | 3          | (0.5%)  |
| of which XDR-TB cases   | 0          | (0.0%)  |
| Notified MDR-TB   | 5          | (0.7%)  |
| of which XDR-TB cases   | 0          | (0.0%)  |
| TB cases tested for HIV   | 517        | (53.2%) |
| HIV-positive TB cases   | 43         | (8.3%)  |
| of these on ART   | -          | -       |

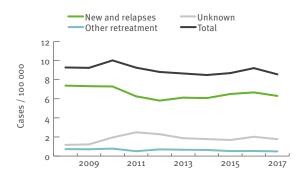
 $<sup>^</sup>a$  National coverage 100% or culturing  $\ge$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $_2$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

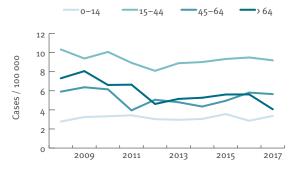
| Geographical coverage      | Nat  | tional  |    |          |
|----------------------------|--|---------|----|----------|
| Outcome cohort             | New culture positive pulmonary TB cases notified in 2016 <sup>a</sup> All MDR-TB c |         |    |          |
| Case-linked data reporting | ١  | /es     |    |          |
| Cases notified             | 438  |         |    | 15       |
| Success                    | 351  | (80.1%) | 15 | (100.0%) |
| Died                       | 30   | (6.8%)  | 0  | (0.0%)   |
| Failed                     | 0  | (0.0%)  | 0  | (0.0%)   |
| Lost to follow-up          | 29   | (6.6%)  | 0  | (0.0%)   |
| Still on treatment         | 14   | (3.2%)  | 0  | (0.0%)   |
| Not evaluated              | 14   | (3.2%)  | 0  | (0.0%)   |
|                            |  |         |    |          |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

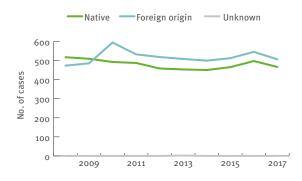
TB notification rates by treatment history, 2008-2017



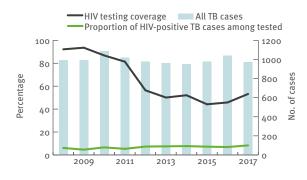
### New and relapsed TB cases – notification rates by age group, 2008–2017



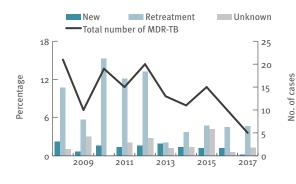
### TB cases by geographical origin, 2008-2017

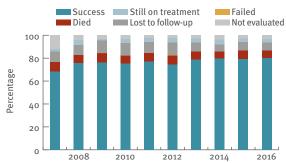


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





# **Bosnia and Herzegovina**

Population estimate 2017 by UN Statistical Database: 3 507 017

#### TB case notifications, 2017

| Total number of cases                                       | 7    | 768     |
|---|------|---------|
| Notification rate per 100 000                               | 2    | 1.9     |
| New <sup>a</sup> and relapses                               | 7    | 766     |
| New <sup>a</sup> and relapses notification rate per 100 000 | 2    | 1.8     |
| Pulmonary   | 681  | (88.9%) |
| of which smear-positive                                     | -    | -       |
| of which laboratory-confirmed                               | 479  | (70.3%) |
| Laboratory-confirmed TB cases                               | 479  | (62.4%) |
| Mean age of new and relapse TB cases                        | 52.8 | years   |
| Mean age of new foreign TB cases                            | -    | years   |
| Foreign origin of all TB cases                              | 0    | (0.0%)  |
| New (not previously treated)                                | 698  | (90.9%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                          | Yes        |        |
|--|------------|--------|
| Completeness of HIV datab                                      | No         |        |
| Case-linked data reporting                                     | Yes        |        |
| Cases with DST results   | 424 (88.5% |        |
| Estimated RR-TB among notified pulmonary cases (best-low-high) | 0-0-4      |        |
| Pulmonary MDR-TB cases notified                                | 0          | (0.0%) |
| of which XDR-TB cases  | 0          | (0.0%) |
| Notified MDR-TB  | 0          | (0.0%) |
| of which XDR-TB cases  | 0          | -      |
| TB cases tested for HIV  | 18         | (2.3%) |
| HIV-positive TB cases  | 0          | (0.0%) |
| of these on ART  | 0          | -      |
|  |            |        |

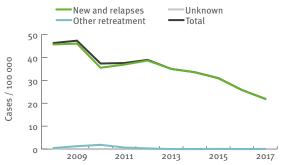
<sup>&</sup>lt;sup>a</sup> National coverage 100% or culturing ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%. <sup>b</sup> More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

| Geographical coverage      | Nat   | tional  |   |          |
|----------------------------|---|---------|---|----------|
| Outcome cohort             | New and relapsed<br>TB cases notified<br>in 2016 <sup>a</sup> |         | All RR/MDR-TB<br>cases enrolled into<br>second-line treatme<br>in 2015 <sup>b</sup> |          |
| Case-linked data reporting | ١   | /es     |   |          |
| Cases notified             |   | 907     |   | 1        |
| Success                    | 505   | (55.7%) | 1   | (100.0%) |
| Died                       | 64  | (7.1%)  | 0   | (0.0%)   |
| Failed                     | 13  | (1.4%)  | 0   | (0.0%)   |
| Lost to follow-up          | 3   | (0.3%)  | 0   | (0.0%)   |
| Not evaluated              | 322   | (35.5%) | 0   | (0.0%)   |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

#### TB notification rates by treatment history, 2008-2017a



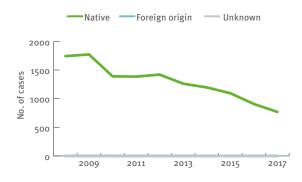
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

### New and relapsed TB cases – notification rates by age group, 2008–2017<sup>a</sup>

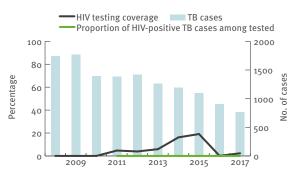


<sup>a</sup> Data up to 2012 includes new TB cases only

### TB cases by geographical origin, 2008-2017

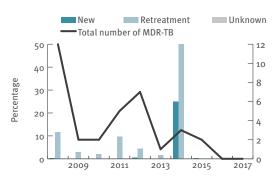


### TB/HIV coinfection, 2008-2017a



<sup>a</sup> Data up to 2014 include all TB cases.

### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome, new and relapsed TB cases, 2007–2016<sup>a</sup>



<sup>a</sup> 2007–2011 cohorts include new cases only.

of cases

No.

# Bulgaria

Total population at 23 April 2018 by EUROSTAT: 7 101 859

### TB case notifications, 2017

| Total number of cases                                       | 14         | 163     |
|---|------------|---------|
| Notification rate per 100 000                               | 20.6       |         |
| New <sup>a</sup> and relapses                               | 1408       |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 19.8       |         |
| Pulmonary   | 1 101      | (75.3%) |
| of which microscopy-positive                                | 571        | (51.9%) |
| of which laboratory-confirmed                               | 675        | (61.3%) |
| Laboratory-confirmed TB cases                               | 696        | (47.6%) |
| Mean age of new native TB cases                             | 47.4       | years   |
| Mean age of new foreign TB cases                            | 44.8 years |         |
| Foreign origin of all TB cases                              | 6          | (0.4%)  |
| New (not previously treated)                                | 1 272      | (86.9%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes  |          |
|---|------|----------|
| Completeness of HIV datab   | Yes  |          |
| Case-linked data reporting  | Yes  |          |
| Cases with DST results  | 607  | (87.2%)  |
| Estimated RR-TB among notified pulmonary cases N, (best–low–high) | 44-  | 27-61    |
| Pulmonary MDR-TB cases notified                                   | 24   | (4.0%)   |
| of which XDR-TB cases   | 1    | (4.3%)   |
| Notified MDR-TB   | 24   | (4.0%)   |
| of which XDR-TB cases   | 1    | (4.3%)   |
| TB cases tested for HIV   | 1204 | (82.3%)  |
| HIV-positive TB cases   | 3    | (0.2%)   |
| of these on ART   | 3    | (100.0%) |

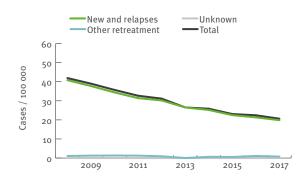
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

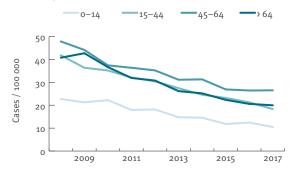
| Geographical coverage      | Nat     | tional                                    |    |                                      |
|----------------------------|---------|---|----|--------------------------------------|
| Outcome cohort             | pulmona | ure positive<br>ry TB cases<br>d in 2016ª |    | R-TB cases<br>d in 2015 <sup>b</sup> |
| Case-linked data reporting | ١       | /es                                       |    |                                      |
| Cases notified             | 652     |   |    | 24                                   |
| Success                    | 558     | (85.6%)                                   | 14 | (58.3%)                              |
| Died                       | 52      | (8.0%)                                    | 5  | (20.8%)                              |
| Failed                     | 15      | (2.3%)                                    | 2  | (8.3%)                               |
| Lost to follow-up          | 23      | (3.5%)                                    | 3  | (12.5%)                              |
| Still on treatment         | 4       | (0.6%)                                    | 0  | (0.0%)                               |
| Not evaluated              | 0       | (0.0%)                                    | 0  | (0.0%)                               |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

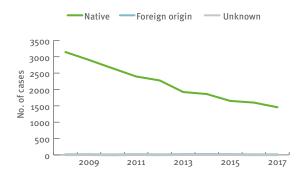
TB notification rates by treatment history, 2008–2017



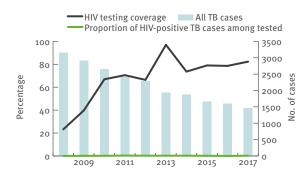
### New and relapsed TB cases – notification rates by age group, 2008–2017



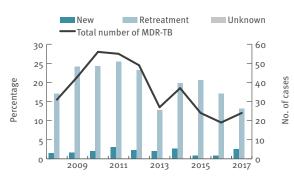
### TB cases by geographical origin, 2008-2017

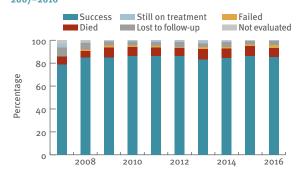


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





### Croatia

Total population at 23 April 2018 by EUROSTAT: 4 154 213

#### TB case notifications, 2017

| Total number of cases                                       | 371  |         |
|---|------|---------|
| Notification rate per 100 000                               | 8.9  |         |
| New <sup>a</sup> and relapses                               | 364  |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 8.8  |         |
| Pulmonary   | 327  | (88.1%) |
| of which microscopy-positive                                | 181  | (55.4%) |
| of which laboratory-confirmed                               | 285  | (87.2%) |
| Laboratory-confirmed TB cases                               | 316  | (85.2%) |
| Mean age of new native TB cases                             | 56.9 | years   |
| Mean age of new foreign TB cases                            | -    | years   |
| Foreign origin of all TB cases                              | 0    | (0.0%)  |
| New (not previously treated)                                | 299  | (80.6%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes |         |
|---|-----|---------|
| Completeness of HIV datab   | No  |         |
| Case-linked data reporting  | Yes |         |
| Cases with DST results  | 215 | (68.0%) |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 0-  | -0-3    |
| Pulmonary MDR-TB cases notified                                   | 0   | (0.0%)  |
| of which XDR-TB cases   | 0   | -       |
| Notified MDR-TB   | 0   | (0.0%)  |
| of which XDR-TB cases   | 0   | -       |
| TB cases tested for HIV   | 4   | (1.1%)  |
| HIV-positive TB cases   | 1   | (25.0%) |
| of these on ART   | -   | -       |

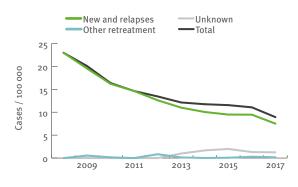
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

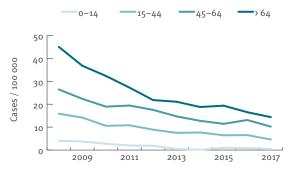
| Geographical coverage      | Nat     | tional                                    |   |                                       |
|----------------------------|---------|---|---|---------------------------------------|
| Outcome cohort             | pulmona | ure positive<br>ry TB cases<br>d in 2016ª |   | R-TB cases<br>ed in 2015 <sup>b</sup> |
| Case-linked data reporting | ١       | /es                                       |   |                                       |
| Cases notified             | 2       | 94  |   | 1                                     |
| Success                    | 180     | (61.2%)                                   | 1 | (100.0%)                              |
| Died                       | 46      | (15.6%)                                   | 0 | (0.0%)                                |
| Failed                     | 1       | (0.3%)                                    | 0 | (0.0%)                                |
| Lost to follow-up          | 9       | (3.1%)                                    | 0 | (0.0%)                                |
| Still on treatment         | 14      | (4.8%)                                    | 0 | (0.0%)                                |
| Not evaluated              | 44      | (15.0%)                                   | 0 | (0.0%)                                |
|                            |         |   |   |                                       |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

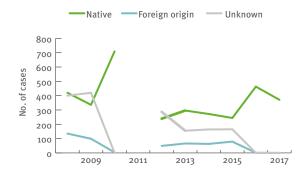
### TB notification rates by treatment history, 2008-2017



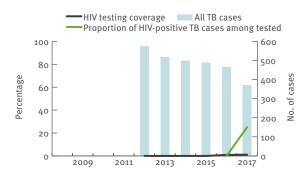
### New and relapsed TB cases – notification rates by age group, 2008–2017



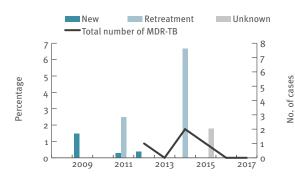
### TB cases by geographical origin, 2008-2017

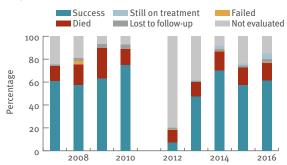


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





# **Cyprus**

Total population at 23 April 2018 by EUROSTAT: 854 802

### TB case notifications, 2017

| Total number of cases                                       | 53   |         |
|---|------|---------|
| Notification rate per 100 000                               | 6.2  |         |
| New <sup>a</sup> and relapses                               | 52   |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 6.1  |         |
| Pulmonary   | 44   | (83.0%) |
| of which microscopy-positive                                | 21   | (47.7%) |
| of which laboratory-confirmed                               | 33   | (75.0%) |
| Laboratory-confirmed TB cases                               | 39   | (73.6%) |
| Mean age of new native TB cases                             | 36.2 | years   |
| Mean age of new foreign TB cases                            | 33.9 | years   |
| Foreign origin of all TB cases                              | 38   | (71.7%) |
| New (not previously treated)                                | 51   | (96.2%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | ,   | /es      |
|---|-----|----------|
| Completeness of HIV datab   | Yes |          |
| Case-linked data reporting  | ,   | res .    |
| Cases with DST results  | 39  | (100.0%) |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 0-  | -0-2     |
| Pulmonary MDR-TB cases notified                                   | 1   | (3.0%)   |
| of which XDR-TB cases   | 0   | (0.0%)   |
| Notified MDR-TB   | 1   | (2.6%)   |
| of which XDR-TB cases   | 0   | -        |
| TB cases tested for HIV   | 49  | (92.5%)  |
| HIV-positive TB cases   | 0   | (0.0%)   |
| of these on ART   | 0   | -        |

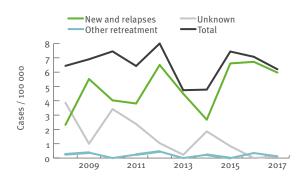
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

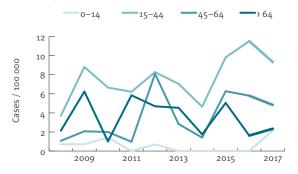
| Geographical coverage      | Na      | tional                                    |   |                                  |
|----------------------------|---------|---|---|----------------------------------|
| Outcome cohort             | pulmona | ure positive<br>ry TB cases<br>d in 2016ª |   | TB cases<br>in 2015 <sup>b</sup> |
| Case-linked data reporting | ,       | Yes                                       |   |                                  |
| Cases notified             |         | 36  | 0 |                                  |
| Success                    | 24      | (66.7%)                                   | 0 | -                                |
| Died                       | 0       | (0.0%)                                    | 0 | -                                |
| Failed                     | 0       | (0.0%)                                    | 0 | -                                |
| Lost to follow-up          | 0       | (0.0%)                                    | 0 | -                                |
| Still on treatment         | 0       | (0.0%)                                    | 0 | -                                |
| Not evaluated              | 12      | (33.3%)                                   | 0 | -                                |
|                            |         |   |   |                                  |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

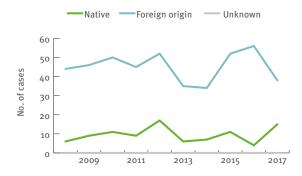
TB notification rates by treatment history, 2008-2017



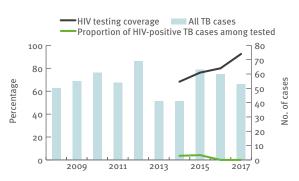
### New and relapsed TB cases – notification rates by age group, 2008–2017



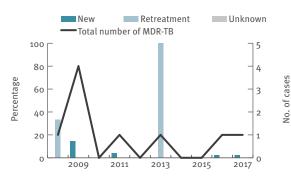
### TB cases by geographical origin, 2008-2017

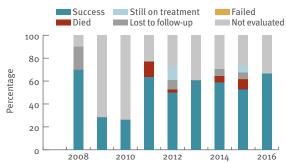


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





# Czech Republic

Total population at 23 April 2018 by EUROSTAT: 10 578 820

### TB case notifications, 2017

| Total number of cases                                       | 505        |         |
|---|------------|---------|
| Notification rate per 100 000                               | 4          | 1.8     |
| New <sup>a</sup> and relapses                               | 499        |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 4.7        |         |
| Pulmonary   | 439        | (86.9%) |
| of which microscopy-positive                                | 201        | (45.8%) |
| of which laboratory-confirmed                               | 338        | (77.0%) |
| Laboratory-confirmed TB cases                               | 379        | (75.0%) |
| Mean age of new native TB cases                             | 53.9       | years   |
| Mean age of new foreign TB cases                            | 40.9 years |         |
| Foreign origin of all TB cases                              | 159        | (31.5%) |
| New (not previously treated)                                | 472        | (93.5%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes        |         |
|---|------------|---------|
| Completeness of HIV datab   | No         |         |
| Case-linked data reporting  | Yes        |         |
| Cases with DST results  | 350 (92.3% |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 13-        | -5-21   |
| Pulmonary MDR-TB cases notified                                   | 6          | (1.9%)  |
| of which XDR-TB cases   | 2          | (33.3%) |
| Notified MDR-TB   | 8          | (2.3%)  |
| of which XDR-TB cases   | 2          | (25.0%) |
| TB cases tested for HIV   | 197        | (39.0%) |
| HIV-positive TB cases   | 8          | (4.1%)  |
| of these on ART   | -          | -       |

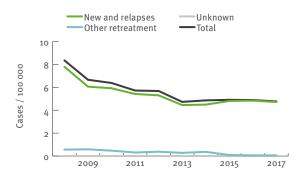
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

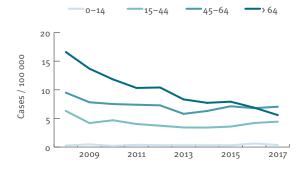
| Geographical coverage      | Nat   | ional   |   |         |
|----------------------------|---|---------|---|---------|
| Outcome cohort             | New culture positive<br>pulmonary TB cases<br>notified in 2016 <sup>a</sup> |         | All MDR-TB cases<br>notified in 2015 <sup>b</sup> |         |
| Case-linked data reporting | Y   | 'es     |   |         |
| Cases notified             | 331   |         | 9   |         |
| Success                    | 221   | (66.8%) | 3   | (33.3%) |
| Died                       | 54  | (16.3%) | 1   | (11.1%) |
| Failed                     | 0   | (0.0%)  | 0   | (0.0%)  |
| Lost to follow-up          | 39  | (11.8%) | 1   | (11.1%) |
| Still on treatment         | 8   | (2.4%)  | 2   | (22.2%) |
| Not evaluated              | 9   | (2.7%)  | 2   | (22.2%) |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

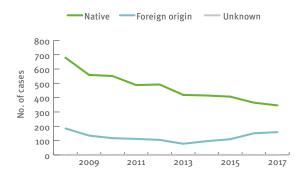
TB notification rates by treatment history, 2008-2017



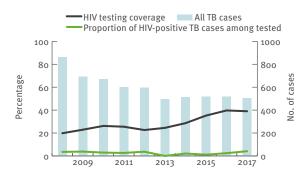
### New and relapsed TB cases – notification rates by age group, 2008–2017



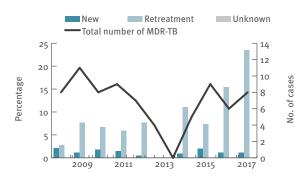
### TB cases by geographical origin, 2008-2017

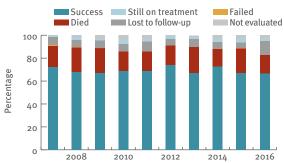


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





### **Denmark**

Total population at 23 April 2018 by EUROSTAT: 5 748 769

#### TB case notifications, 2017

| Total number of cases                                       | 2          | 75      |
|---|------------|---------|
| Notification rate per 100 000                               | 4          | .8      |
| New <sup>a</sup> and relapses                               | 2          | 53      |
| New <sup>a</sup> and relapses notification rate per 100 000 | 4.4        |         |
| Pulmonary   | 218        | (79.3%) |
| of which microscopy-positive                                | 85         | (39.0%) |
| of which laboratory-confirmed                               | 173        | (79.4%) |
| Laboratory-confirmed TB cases                               | 218        | (79.3%) |
| Mean age of new native TB cases                             | 45.0       | years   |
| Mean age of new foreign TB cases                            | 41.2 years |         |
| Foreign origin of all TB cases                              | 184        | (66.9%) |
| New (not previously treated)                                | 253        | (92.0%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | ,          | Yes     |
|---|------------|---------|
| Completeness of HIV datab   | Yes        |         |
| Case-linked data reporting  | ,          | Yes     |
| Cases with DST results  | 214 (98.29 |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 1-         | -0-5    |
| Pulmonary MDR-TB cases notified                                   | 1          | (0.6%)  |
| of which XDR-TB cases   | 0          | (0.0%)  |
| Notified MDR-TB   | 2          | (0.9%)  |
| of which XDR-TB cases   | 0          | (0.0%)  |
| TB cases tested for HIV   | 211        | (76.7%) |
| HIV-positive TB cases   | 3          | (1.4%)  |
| of these on ART   | -          | -       |

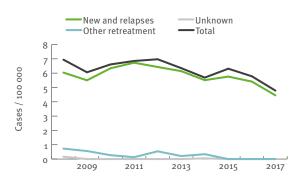
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

| Geographical coverage      | Nat     | ional                                     |   |                                      |
|----------------------------|---------|---|---|--------------------------------------|
| Outcome cohort             | pulmona | ıre positive<br>ry TB cases<br>l in 2016ª |   | R-TB cases<br>d in 2015 <sup>b</sup> |
| Case-linked data reporting | ١       | 'es                                       |   |                                      |
| Cases notified             | 1       | 84  |   | 6                                    |
| Success                    | 69      | (37.5%)                                   | 0 | (0.0%)                               |
| Died                       | 5       | (2.7%)                                    | 0 | (0.0%)                               |
| Failed                     | 5       | (2.7%)                                    | 1 | (16.7%)                              |
| Lost to follow-up          | 0       | (0.0%)                                    | 0 | (0.0%)                               |
| Still on treatment         | 5       | (2.7%)                                    | 0 | (0.0%)                               |
| Not evaluated              | 100     | (54.3%)                                   | 5 | (83.3%)                              |
|                            |         |   |   |                                      |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

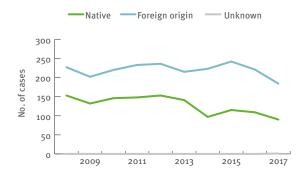
### TB notification rates by treatment history, 2008-2017



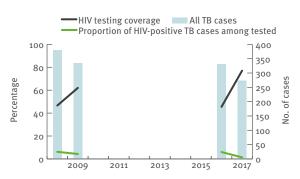
### New and relapsed TB cases – notification rates by age group, 2008–2017



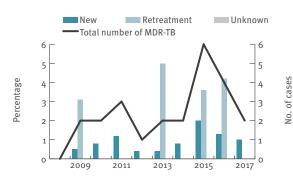
### TB cases by geographical origin, 2008-2017

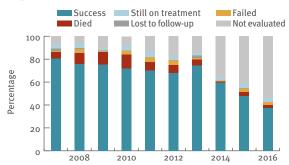


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





### **Estonia**

Total population at 23 April 2018 by EUROSTAT: 1315 635

#### TB case notifications, 2017

| Total number of cases                                       | 175        |         |
|---|------------|---------|
| Notification rate per 100 000                               | 13.3       |         |
| New <sup>a</sup> and relapses                               | 171        |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 13.0       |         |
| Pulmonary   | 168        | (96.0%) |
| of which microscopy-positive                                | 78         | (46.4%) |
| of which laboratory-confirmed                               | 142        | (84.5%) |
| Laboratory-confirmed TB cases                               | 145        | (82.9%) |
| Mean age of new native TB cases                             | 51.2 years |         |
| Mean age of new foreign TB cases                            | 66.1       | years   |
| Foreign origin of all TB cases                              | 23         | (13.1%) |
| New (not previously treated)                                | 146        | (83.4%) |
|   |            |         |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes        |         |
|---|------------|---------|
| Completeness of HIV datab   | Yes        |         |
| Case-linked data reporting  | Yes        |         |
| Cases with DST results  | 142 (97.9% |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 45-        | 33-56   |
| Pulmonary MDR-TB cases notified                                   | 36         | (25.9%) |
| of which XDR-TB cases   | 9          | (26.5%) |
| Notified MDR-TB   | 36         | (25.4%) |
| of which XDR-TB cases   | 9          | (26.5%) |
| TB cases tested for HIV   | 163        | (93.1%) |
| HIV-positive TB cases   | 14         | (8.6%)  |
| of these on ART   | 12         | (85.7%) |

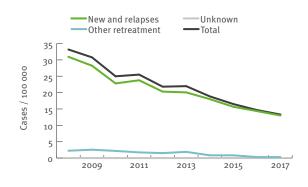
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

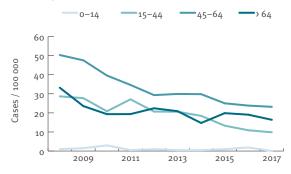
| Geographical coverage      | Nat   | tional  |   |         |
|----------------------------|---|---------|---|---------|
| Outcome cohort             | New culture positive<br>pulmonary TB cases<br>notified in 2016ª |         | All MDR-TB cases<br>notified in 2015 <sup>b</sup> |         |
| Case-linked data reporting | ١   | /es     |   |         |
| Cases notified             | 133   |         |   | 38      |
| Success                    | 95  | (71.4%) | 20  | (52.6%) |
| Died                       | 23  | (17.3%) | 8   | (21.1%) |
| Failed                     | 1   | (0.8%)  | 3   | (7.9%)  |
| Lost to follow-up          | 1   | (0.8%)  | 4   | (10.5%) |
| Still on treatment         | 13  | (9.8%)  | 3   | (7.9%)  |
| Not evaluated              | 0   | (0.0%)  | 0   | (0.0%)  |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

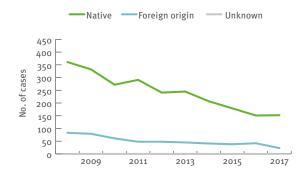
TB notification rates by treatment history, 2008–2017



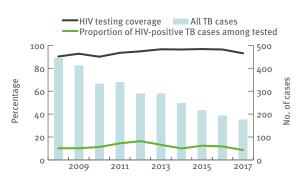
### New and relapsed TB cases – notification rates by age group, 2008–2017



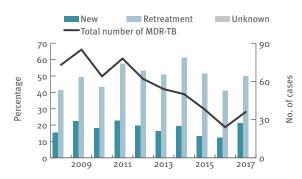
### TB cases by geographical origin, 2008-2017

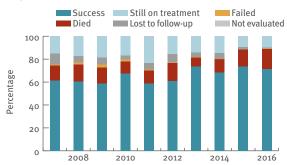


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





### **Finland**

Total population at 23 April 2018 by EUROSTAT: 5 503 297

#### TB case notifications, 2017

| Total number of cases                                       | 237  |         |
|---|------|---------|
| Notification rate per 100 000                               | 4.3  |         |
| New <sup>a</sup> and relapses                               | 234  |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 4.3  |         |
| Pulmonary   | 169  | (71.3%) |
| of which microscopy-positive                                | 60   | (35.5%) |
| of which laboratory-confirmed                               | 143  | (84.6%) |
| Laboratory-confirmed TB cases                               | 195  | (82.3%) |
| Mean age of new native TB cases                             | 71.2 | years   |
| Mean age of new foreign TB cases                            | 32.2 | years   |
| Foreign origin of all TB cases                              | 95   | (40.1%) |
| New (not previously treated)                                | 225  | (94.9%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes        |         |
|---|------------|---------|
| Completeness of HIV datab   | -          |         |
| Case-linked data reporting  | Yes        |         |
| Cases with DST results  | 192 (98.5% |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 9-         | 3-14    |
| Pulmonary MDR-TB cases notified                                   | 5          | (3.5%)  |
| of which XDR-TB cases   | 1          | (20.0%) |
| Notified MDR-TB   | 5          | (2.6%)  |
| of which XDR-TB cases   | 1          | (20.0%) |
| TB cases tested for HIV   | -          | -       |
| HIV-positive TB cases   | -          | -       |
| of these on ART   | -          | -       |

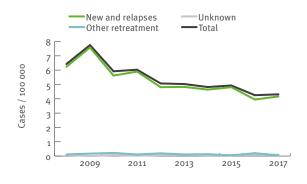
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

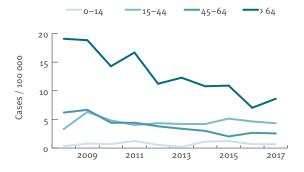
| Geographical coverage      | Na      | tional                                    |   |                                      |
|----------------------------|---------|---|---|--------------------------------------|
| Outcome cohort             | pulmona | ure positive<br>ry TB cases<br>d in 2016ª |   | R-TB cases<br>d in 2015 <sup>b</sup> |
| Case-linked data reporting | ,       | Yes                                       |   |                                      |
| Cases notified             | 128     |   |   | 8                                    |
| Success                    | 57      | (44.5%)                                   | 3 | (37.5%)                              |
| Died                       | 0       | (0.0%)                                    | 0 | (0.0%)                               |
| Failed                     | 0       | (0.0%)                                    | 0 | (0.0%)                               |
| Lost to follow-up          | 3       | (2.3%)                                    | 0 | (0.0%)                               |
| Still on treatment         | 4       | (3.1%)                                    | 1 | (12.5%)                              |
| Not evaluated              | 64      | (50.0%)                                   | 4 | (50.0%)                              |

 $<sup>^{\</sup>rm 3}$  Treatment outcome as presented is treatment outcome after 12 months.  $^{\rm b}$  Treatment outcome as presented is treatment outcome after 24 months.

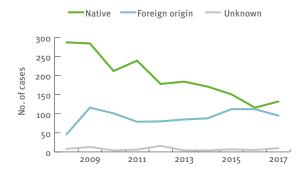
TB notification rates by treatment history, 2008-2017



### New and relapsed TB cases – notification rates by age group, 2008–2017



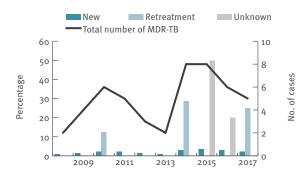
### TB cases by geographical origin, 2008-2017

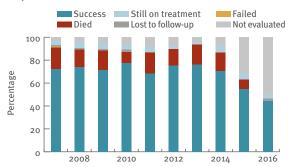


### TB/HIV coinfection, 2008-2017

Data not available

### MDR-TB cases by previous treatment history, 2008–2017





### France

Total population at 23 April 2018 by EUROSTAT: 66 989 083

#### TB case notifications, 2017

| Total number of cases                                       | 5 131   |         |
|---|---------|---------|
| Notification rate per 100 000                               | 7.7     |         |
| New <sup>a</sup> and relapses                               | 4 839   |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 7.2     |         |
| Pulmonary   | 3 554   | (69.3%) |
| of which microscopy-positive                                | 1575    | -       |
| of which laboratory-confirmed                               | 2 0 0 4 | (56.4%) |
| Laboratory-confirmed TB cases                               | 2 603   | (50.7%) |
| Mean age of new native TB cases                             | 44.9    | years   |
| Mean age of new foreign TB cases                            | 37.8    | years   |
| Foreign origin of all TB cases                              | 3 019   | (58.8%) |
| New (not previously treated)                                | _       | -       |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             |     | -      |
|---|-----|--------|
| Completeness of HIV datab   |     | -      |
| Case-linked data reporting  |     | No     |
| Cases with DST results  | 0   | (0.0%) |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 65- | 48-82  |
| Pulmonary MDR-TB cases notified                                   | -   | -      |
| of which XDR-TB cases   | -   | -      |
| Notified MDR-TB   | -   | -      |
| of which XDR-TB cases   | -   | -      |
| TB cases tested for HIV   | -   | -      |
| HIV-positive TB cases   | -   | -      |
| of these on ART   | -   | -      |

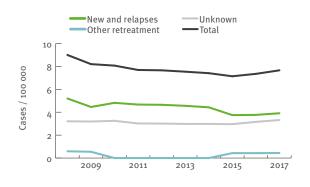
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

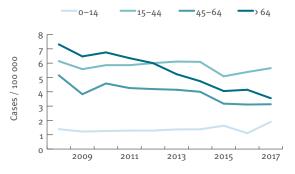
| Geographical coverage      | Nat   | tional  |                      |                                  |
|----------------------------|---|---------|----------------------|----------------------------------|
| Outcome cohort             | New culture positive<br>pulmonary TB cases<br>notified in 2016 <sup>a</sup> |         | All MDR-<br>notified | TB cases<br>in 2015 <sup>b</sup> |
| Case-linked data reporting | ١   | /es     |                      |                                  |
| Cases notified             | 1 125   |         | -                    | -                                |
| Success                    | 685   | (60.9%) | -                    | -                                |
| Died                       | 55  | (4.9%)  | -                    | -                                |
| Failed                     | 0   | (0.0%)  | -                    | -                                |
| Lost to follow-up          | 84  | (7.5%)  | -                    | -                                |
| Still on treatment         | 27  | (2.4%)  | -                    | -                                |
| Not evaluated              | 274   | (24.4%) | -                    | -                                |
|                            |   |         |                      |                                  |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

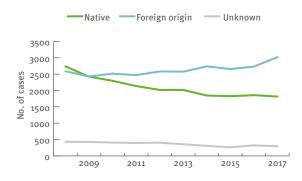
TB notification rates by treatment history, 2008-2017



### New and relapsed TB cases – notification rates by age group, 2008–2017



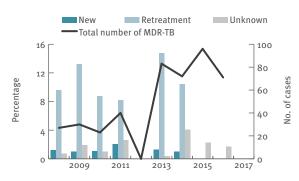
### TB cases by geographical origin, 2008-2017

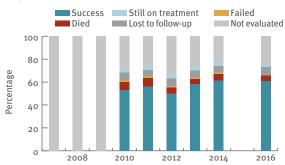


### TB/HIV coinfection, 2008-2017

Data not available

### MDR-TB cases by previous treatment history, 2008–2017





# Georgia

Population estimate 2017 by UN Statistical Database: 3 912 061

#### TB case notifications, 2017

| Total number of cases                                       | 2 927   |         |
|---|---------|---------|
| Notification rate per 100 000                               | 74.8    |         |
| New <sup>a</sup> and relapses                               | 2 597   |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 66.4    |         |
| Pulmonary   | 2 0 6 8 | (79.6%) |
| of which smear-positive                                     | -       | -       |
| of which laboratory-confirmed                               | 1780    | (86.1%) |
| Laboratory-confirmed TB cases                               | 2 061   | (70.4%) |
| Mean age of new and relapse TB cases                        | 42.3    | years   |
| Mean age of new foreign TB cases                            | -       | years   |
| Foreign origin of all TB cases                              | 0       | (0.0%)  |
| New (not previously treated)                                | 2 164   | (73.9%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes   |          |
|---|-------|----------|
| Completeness of HIV datab   | Yes   |          |
| Case-linked data reporting  | Yes   |          |
| Cases with DST results  | 1979  | (96,0%)  |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 400-3 | 60-440   |
| Pulmonary MDR-TB cases notified                                   | 262   | (13.2%)  |
| of which XDR-TB cases   | 44    | (17.9%)  |
| Notified MDR-TB   | 324   | (16.4%)  |
| of which XDR-TB cases   | 46    | (17.3%)  |
| TB cases tested for HIV   | 2 442 | (94.0%)  |
| HIV-positive TB cases   | 43    | (1.8%)   |
| of these on ART   | 43    | (100.0%) |

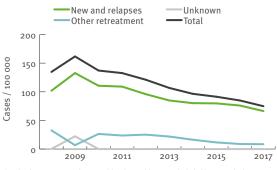
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

| Geographical coverage      | Nat      | ional                           |  |         |
|----------------------------|----------|---------------------------------|--|---------|
| Outcome cohort             | TB case: | relapsed<br>s notified<br>1016° | All RR/MDR-TB<br>cases enrolled into<br>second-line treatmen<br>in 2015 <sup>b</sup> |         |
| Case-linked data reporting | Υ        | es                              |  |         |
| Cases notified             | 2        | 2 715                           |  | 412     |
| Success                    | 2 263    | (83.4%)                         | 231  | (56.1%) |
| Died                       | 113      | (4.2%)                          | 26   | (6.3%)  |
| Failed                     | 53       | (2.0%)                          | 42   | (10.2%) |
| Lost to follow-up          | 235      | (8.7%)                          | 101  | (24.5%) |
| Not evaluated              | 51       | (1.9%)                          | 12   | (2.9%)  |
|                            |          |                                 |  |         |

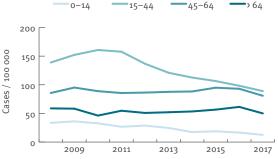
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

#### TB notification rates by treatment history, 2008-2017



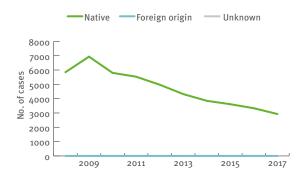
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

### New TB cases – notification rates by age group, 2008–2017<sup>a</sup>

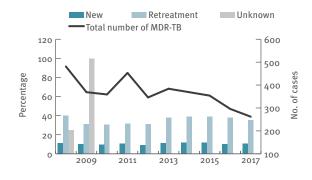


<sup>a</sup> Data up to 2012 includes new TB cases only

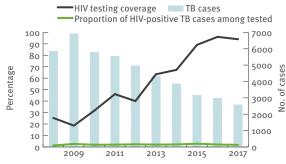
### TB cases by geographical origin, 2008-2017



# MDR-TB cases by previous treatment history, 2008–2017

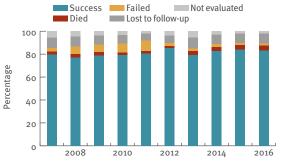


### TB/HIV coinfection, 2008-2017a



<sup>a</sup> Data up to 2014 include all TB cases.

### Treatment outcome, new culture-confirmed pulmonary TB cases, 2007–2016<sup>a</sup>



<sup>a</sup> 2007–2011 cohorts include new cases only.

# **Germany**

Total population at 23 April 2018 by FUROSTAT: 82 521 653

### TB case notifications, 2017

| Total number of cases                                       | 5 486 |         |
|---|-------|---------|
| Notification rate per 100 000                               | 6.6   |         |
| New <sup>a</sup> and relapses                               | 5 353 |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 6.5   |         |
| Pulmonary   | 3 892 | (70.9%) |
| of which microscopy-positive                                | 1804  | (46.4%) |
| of which laboratory-confirmed                               | 3 090 | (79.4%) |
| Laboratory-confirmed TB cases                               | 3 978 | (72.5%) |
| Mean age of new native TB cases                             | 65.4  | years   |
| Mean age of new foreign TB cases                            | 40.8  | years   |
| Foreign origin of all TB cases                              | 3 820 | (69.6%) |
| New (not previously treated)                                | 5 252 | (95.7%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes          |        |
|---|--------------|--------|
| Completeness of HIV data <sup>b</sup>                             | -            |        |
| Case-linked data reporting  | Yes          |        |
| Cases with DST results  | 3 555 (89.49 |        |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 140-         | 65-210 |
| Pulmonary MDR-TB cases notified                                   | 87           | (3.1%) |
| of which XDR-TB cases   | 4            | (5.7%) |
| Notified MDR-TB   | 105          | (3.0%) |
| of which XDR-TB cases   | 4            | (4.9%) |
| TB cases tested for HIV   | -            | -      |
| HIV-positive TB cases   | -            | -      |
| of these on ART   | -            | -      |

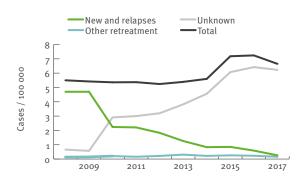
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

| Geographical coverage      | Nat   | tional  |   |         |
|----------------------------|---|---------|---|---------|
| Outcome cohort             | New culture positive<br>pulmonary TB cases<br>notified in 2016 <sup>a</sup> |         | All MDR-TB cases<br>notified in 2015 <sup>b</sup> |         |
| Case-linked data reporting | ١   | /es     |   |         |
| Cases notified             | 199   |         |   | 110     |
| Success                    | 118   | (59.3%) | 44  | (40.0%) |
| Died                       | 17  | (8.5%)  | 5   | (4.5%)  |
| Failed                     | 0   | (0.0%)  | 0   | (0.0%)  |
| Lost to follow-up          | 2   | (1.0%)  | 7   | (6.4%)  |
| Still on treatment         | 12  | (6.0%)  | 11  | (10.0%) |
| Not evaluated              | 50  | (25.1%) | 43  | (39.1%) |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

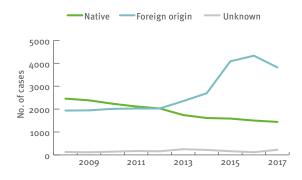
TB notification rates by treatment history, 2008-2017



### New and relapsed TB cases – notification rates by age group, 2008-2017



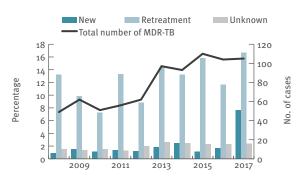
### TB cases by geographical origin, 2008-2017

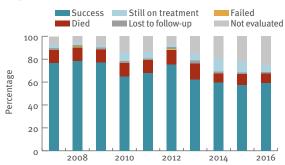


### TB/HIV coinfection, 2008-2017

Data not available

### MDR-TB cases by previous treatment history, 2008–2017





### Greece

Total population at 23 April 2018 by EUROSTAT: 10 768 193

#### TB case notifications, 2017

| Total number of cases                                       |      | 67      |
|---|------|---------|
| Notification rate per 100 000                               |      | 4.3     |
| New <sup>a</sup> and relapses                               |      | 34      |
| New <sup>a</sup> and relapses notification rate per 100 000 | ž.   | 4.0     |
| Pulmonary   | 391  | (83.7%) |
| of which microscopy-positive                                | 227  | (58.1%) |
| of which laboratory-confirmed                               | 233  | (59.6%) |
| Laboratory-confirmed TB cases                               | 265  | (56.7%) |
| Mean age of new native TB cases                             | 62.8 | years   |
| Mean age of new foreign TB cases                            | 34.7 | years   |
| Foreign origin of all TB cases                              | 197  | (42.2%) |
| New (not previously treated)                                | 414  | (88.7%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

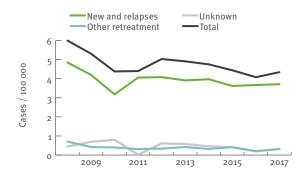
| Completeness of DRS data <sup>a</sup>                             | ,   | /es     |
|---|-----|---------|
| Completeness of HIV datab   | ,   | /es     |
| Case-linked data reporting  | ,   | /es     |
| Cases with DST results  | 191 | (72.1%) |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 10- | -0-24   |
| Pulmonary MDR-TB cases notified                                   | 6   | (3.6%)  |
| of which XDR-TB cases   | 1   | (16.7%) |
| Notified MDR-TB   | 7   | (3.7%)  |
| of which XDR-TB cases   | 2   | (28.6%) |
| TB cases tested for HIV   | 389 | (83.3%) |
| HIV-positive TB cases   | 13  | (3.3%)  |
| of these on ART   | -   | -       |
|   |     |         |

 $<sup>^</sup>a$  National coverage 100% or culturing  $\ge$  90%, C+/all TB cases  $\gt$  50%, DST done for C+  $\gt$  75%, EQA  $\ge$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

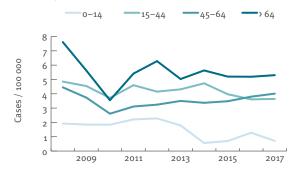
### Treatment outcome monitoring

Data not available

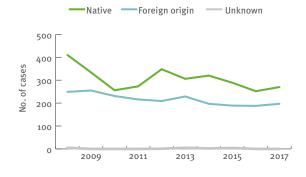
### TB notification rates by treatment history, 2008-2017



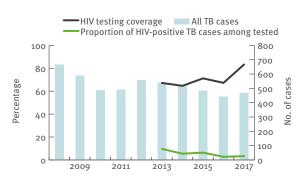
### New and relapsed TB cases – notification rates by age group, 2008–2017



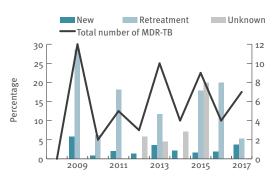
### TB cases by geographical origin, 2008-2017



### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome, new culture-confirmed pulmonary TB cases,

Data not available

No. of cases

reported HIV status.

# Hungary

Total population at 23 April 2018 by EUROSTAT: 9 797 561

#### TB case notifications, 2017

| Total number of cases                                       | 6    | 85      |
|---|------|---------|
| Notification rate per 100 000                               | 7    | 7.0     |
| New <sup>a</sup> and relapses                               | 650  |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 6    | 5.6     |
| Pulmonary   | 658  | (96.1%) |
| of which microscopy-positive                                | 210  | (31.9%) |
| of which laboratory-confirmed                               | 344  | (52.3%) |
| Laboratory-confirmed TB cases                               | 352  | (51.4%) |
| Mean age of new native TB cases                             | 54.3 | years   |
| Mean age of new foreign TB cases                            | 27.8 | years   |
| Foreign origin of all TB cases                              | 25   | (3.6%)  |
| New (not previously treated)                                | 616  | (89.9%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | ,          | /es     |
|---|------------|---------|
| Completeness of HIV datab   | No         |         |
| Case-linked data reporting  | Yes        |         |
| Cases with DST results  | 318 (90.3% |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 23-        | 13-32   |
| Pulmonary MDR-TB cases notified                                   | 11         | (3.5%)  |
| of which XDR-TB cases   | 4          | (40.0%) |
| Notified MDR-TB   | 11         | (3.5%)  |
| of which XDR-TB cases   | 4          | (40.0%) |
| TB cases tested for HIV   | 18         | (2.6%)  |
| HIV-positive TB cases   | 1          | (5.6%)  |
| of these on ART   | -          | -       |

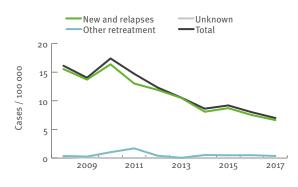
 $<sup>^</sup>a$  National coverage 100% or culturing  $\ge$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\ge$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

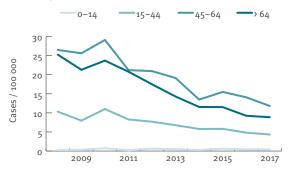
| Geographical coverage      | Nat  | tional  |   |         |
|----------------------------|--|---------|---|---------|
| Outcome cohort             | New culture positive pulmonary TB cases notified in 2016 <sup>a</sup> All MDR-TB |         |   |         |
| Case-linked data reporting | ١  | /es     |   |         |
| Cases notified             | 3  | 346     |   | 8       |
| Success                    | 230  | (66.5%) | 2 | (25.0%) |
| Died                       | 49   | (14.2%) | 4 | (50.0%) |
| Failed                     | 6  | (1.7%)  | 0 | (0.0%)  |
| Lost to follow-up          | 24   | (6.9%)  | 1 | (12.5%) |
| Still on treatment         | 28   | (8.1%)  | 1 | (12.5%) |
| Not evaluated              | 9  | (2.6%)  | 0 | (0.0%)  |
|                            |  |         |   |         |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

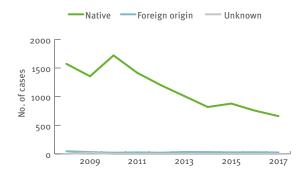
### TB notification rates by treatment history, 2008-2017



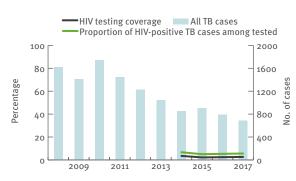
### New and relapsed TB cases – notification rates by age group, 2008–2017



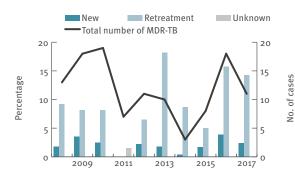
### TB cases by geographical origin, 2008-2017

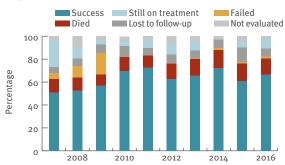


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





### Iceland

Total population at 23 April 2018 by EUROSTAT: 338 349

#### TB case notifications, 2017

| Total number of cases                                       |      | 14      |
|---|------|---------|
| Notification rate per 100 000                               | 4.1  |         |
| New <sup>a</sup> and relapses                               | 13   |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 3.8  |         |
| Pulmonary   | 11   | (78.6%) |
| of which microscopy-positive                                | 5    | (45.5%) |
| of which laboratory-confirmed                               | 8    | (72.7%) |
| Laboratory-confirmed TB cases                               | 10   | (71.4%) |
| Mean age of new native TB cases                             | 49.3 | years   |
| Mean age of new foreign TB cases                            | 38.3 | years   |
| Foreign origin of all TB cases                              | 8    | (57.1%) |
| New (not previously treated)                                | 12   | (85.7%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes        |         |
|---|------------|---------|
| Completeness of HIV datab   | Yes        |         |
| Case-linked data reporting  | Yes        |         |
| Cases with DST results  | 10 (100.09 |         |
| Estimated RR-TB among notified pulmonary cases N, (best–low–high) | 0-         | -0-2    |
| Pulmonary MDR-TB cases notified                                   | 0          | (0.0%)  |
| of which XDR-TB cases   | 0          | -       |
| Notified MDR-TB   | 0          | (0.0%)  |
| of which XDR-TB cases   | 0          | -       |
| TB cases tested for HIV   | 13         | (92.9%) |
| HIV-positive TB cases   | 0          | (0.0%)  |
| of these on ART   | -          | -       |

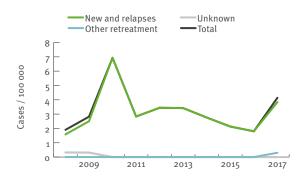
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

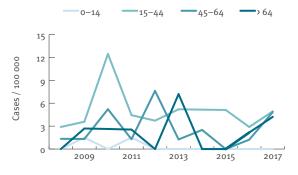
| Geographical coverage      | Na      | tional                                    |   |                                     |
|----------------------------|---------|---|---|-------------------------------------|
| Outcome cohort             | pulmona | ure positive<br>ry TB cases<br>d in 2016ª |   | -TB cases<br>I in 2015 <sup>b</sup> |
| Case-linked data reporting |         | Yes                                       |   |                                     |
| Cases notified             |         | 5   |   | 0                                   |
| Success                    | 4       | (80.0%)                                   | 0 | -                                   |
| Died                       | 0       | (0.0%)                                    | 0 | -                                   |
| Failed                     | 0       | (0.0%)                                    | 0 | -                                   |
| Lost to follow-up          | 0       | (0.0%)                                    | 0 | -                                   |
| Still on treatment         | 0       | (0.0%)                                    | 0 | -                                   |
| Not evaluated              | 1       | (20.0%)                                   | 0 | -                                   |

 $<sup>^{\</sup>rm 3}$  Treatment outcome as presented is treatment outcome after 12 months.  $^{\rm b}$  Treatment outcome as presented is treatment outcome after 24 months.

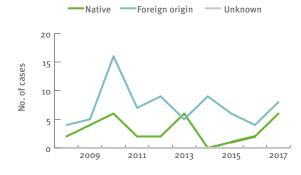
TB notification rates by treatment history, 2008-2017



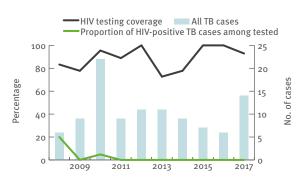
### New and relapsed TB cases – notification rates by age group, 2008-2017



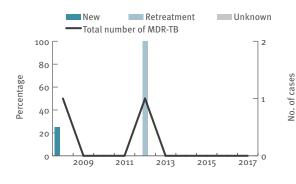
### TB cases by geographical origin, 2008-2017

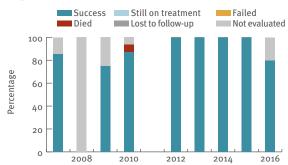


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





Total population at 23 April 2018 by EUROSTAT: 4784 383

#### TB case notifications, 2017

| Total number of cases                                       | 3    | 18      |
|---|------|---------|
| Notification rate per 100 000                               | 6    | 5.6     |
| New <sup>a</sup> and relapses                               | 301  |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 6.3  |         |
| Pulmonary   | 210  | (66.0%) |
| of which microscopy-positive                                | 78   | (37.1%) |
| of which laboratory-confirmed                               | 158  | (75.2%) |
| Laboratory-confirmed TB cases                               | 214  | (67.3%) |
| Mean age of new native TB cases                             | 51.5 | years   |
| Mean age of new foreign TB cases                            | 35.2 | years   |
| Foreign origin of all TB cases                              | 144  | (45.3%) |
| New (not previously treated)                                | 301  | (94.7%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Υ          | 'es     |
|---|------------|---------|
| Completeness of HIV datab   | - 1        | No      |
| Case-linked data reporting  | Υ          | 'es     |
| Cases with DST results  | 196 (91.6% |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 2-         | 0-7     |
| Pulmonary MDR-TB cases notified                                   | 5          | (3.4%)  |
| of which XDR-TB cases   | 1          | (20.0%) |
| Notified MDR-TB   | 5          | (2.6%)  |
| of which XDR-TB cases   | 1          | (20.0%) |
| TB cases tested for HIV   | 102        | (32.1%) |
| HIV-positive TB cases   | 14         | (13.7%) |
| of these on ART   | 7          | (50.0%) |
|   |            |         |

 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

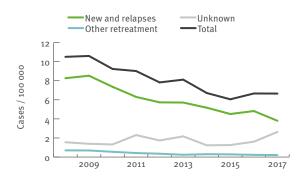
No. of cases

#### Treatment outcome monitoring

| Geographical coverage      | Na   | tional  |   |          |
|----------------------------|--|---------|---|----------|
| Outcome cohort             | New culture positive pulmonary TB cases notified in 2016 <sup>a</sup> All MDR-TB c |         |   |          |
| Case-linked data reporting | ,  | Yes     |   |          |
| Cases notified             |  | 131     |   | 1        |
| Success                    | 60   | (45.8%) | 0 | (0.0%)   |
| Died                       | 6  | (4.6%)  | 0 | (0.0%)   |
| Failed                     | 0  | (0.0%)  | 0 | (0.0%)   |
| Lost to follow-up          | 1  | (0.8%)  | 0 | (0.0%)   |
| Still on treatment         | 3  | (2.3%)  | 1 | (100.0%) |
| Not evaluated              | 61   | (46.6%) | 0 | (0.0%)   |
|                            |  |         |   |          |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

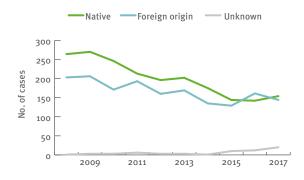
### TB notification rates by treatment history, 2008-2017



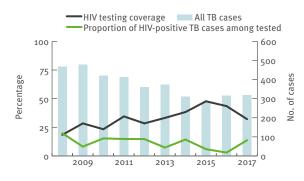
#### New and relapsed TB cases - notification rates by age group, 2008-2017



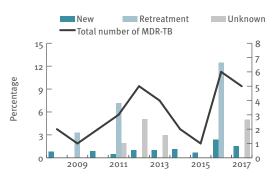
### TB cases by geographical origin, 2008-2017



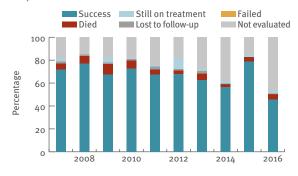
### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008-2017



Treatment outcome, new culture-confirmed pulmonary TB cases, 2007-2016



### Israel

Population estimate 2017 by UN Statistical Database: 8 321 570

#### TB case notifications, 2017

| Total number of cases                                       | 2    | 234     |
|---|------|---------|
| Notification rate per 100 000                               |      | 2.8     |
| New <sup>a</sup> and relapses                               | 2    | 234     |
| New <sup>a</sup> and relapses notification rate per 100 000 | 1    | 2.8     |
| Pulmonary   | 171  | (73.1%) |
| of which smear-positive                                     | -    | -       |
| of which laboratory-confirmed                               | 131  | (76.6%) |
| Laboratory-confirmed TB cases                               | 131  | (56.0%) |
| Mean age of new and relapse TB cases                        | 40.2 | years   |
| Mean age of new foreign TB cases                            | -    | years   |
| Foreign origin of all TB cases                              | 190  | (81.2%) |
| New (not previously treated)                                | 227  | (97.0%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | ١           | /es      |
|---|-------------|----------|
| Completeness of HIV datab   | Yes         |          |
| Case-linked data reporting  | Yes         |          |
| Cases with DST results  | 131 (100.0% |          |
| Estimated RR-TB among notified pulmonary cases N, (best–low–high) | 12-         | 4-20     |
| Pulmonary MDR-TB cases notified                                   | 8           | (6.1%)   |
| of which XDR-TB cases   | 1           | (12.5%)  |
| Notified MDR-TB   | 8           | (6.1%)   |
| of which XDR-TB cases   | 1           | (12.5%)  |
| TB cases tested for HIV   | 234         | (100.0%) |
| HIV-positive TB cases   | 12          | (5.1%)   |
| of these on ART   | 10          | (83.3%)  |

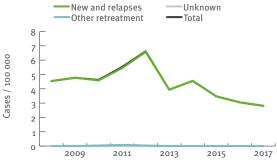
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

| Geographical coverage      | Na      | tional                            |   |         |
|----------------------------|---------|-----------------------------------|---|---------|
| Outcome cohort             | TB case | d relapsed<br>s notified<br>2016° | All RR/MDR-TB<br>cases enrolled into<br>second-line treatme<br>in 2015 <sup>b</sup> |         |
| Case-linked data reporting | ,       | /es                               |   |         |
| Cases notified             |         | 250                               |   | 10      |
| Success                    | 198     | (79.2%)                           | 8   | (80.0%) |
| Died                       | 16      | (6.4%)                            | 0   | (0.0%)  |
| Failed                     | 1       | (0.4%)                            | 0   | (0.0%)  |
| Lost to follow-up          | 12      | (4.8%)                            | 0   | (0.0%)  |
| Not evaluated              | 23      | (9.2%)                            | 2   | (20.0%) |

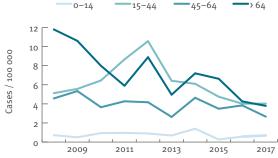
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

### TB notification rates by treatment history, 2008-2017



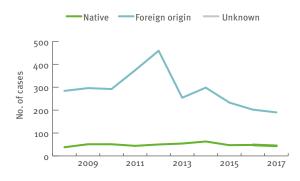
<sup>a</sup> Cases with unknown previous treatment included to new cases

### New and relapsed TB cases – notification rates by age group, $2008-2017^a$

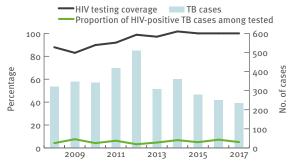


<sup>&</sup>lt;sup>a</sup> Data up to 2012 includes new TB cases only

### TB cases by geographical origin, 2008-2017

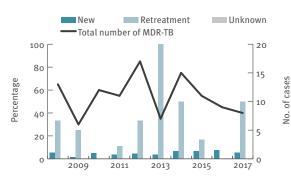


### TB/HIV coinfection, 2008–2017<sup>a</sup>

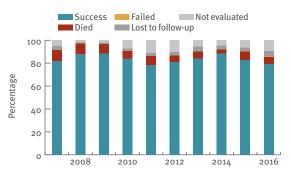


<sup>&</sup>lt;sup>a</sup> Data up to 2014 includes all TB cases.

### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome, new and relapsed TB cases, 2007–2016<sup>a</sup>



<sup>&</sup>lt;sup>a</sup> 2007–2011 cohorts include new cases only.

# Italy

Total population at 23 April 2018 by EUROSTAT: 60 589 445

### TB case notifications, 2017

| Total number of cases                                       | 3 944      |         |
|---|------------|---------|
| Notification rate per 100 000                               | 6.5        |         |
| New <sup>a</sup> and relapses                               | 3 828      |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 6.3        |         |
| Pulmonary   | 2 772      | (70.3%) |
| of which microscopy-positive                                | 1 2 2 4    | (44.2%) |
| of which laboratory-confirmed                               | 2 231      | (80.5%) |
| Laboratory-confirmed TB cases                               | 2 6 6 6    | (67.6%) |
| Mean age of new native TB cases                             | 50.9 years |         |
| Mean age of new foreign TB cases                            | 34.3 years |         |
| Foreign origin of all TB cases                              | 2 611      | (66.2%) |
| New (not previously treated)                                | 3 828      | (97.1%) |
|   |            |         |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

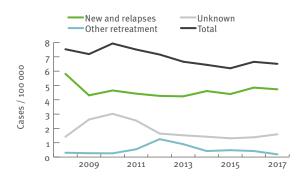
| Completeness of DRS data <sup>a</sup>                             | No            |         |
|---|---------------|---------|
| Completeness of HIV datab   | -             |         |
| Case-linked data reporting  | No            |         |
| Cases with DST results  | 2 666 (100.0% |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 91-59-120     |         |
| Pulmonary MDR-TB cases notified                                   | 56            | (2.5%)  |
| of which XDR-TB cases   | 5             | (11.1%) |
| Notified MDR-TB   | 66            | (2.5%)  |
| of which XDR-TB cases   | 5             | (9.3%)  |
| TB cases tested for HIV   | -             | -       |
| HIV-positive TB cases   | -             | -       |
| of these on ART   | -             | -       |

 $<sup>^</sup>a$  National coverage 100% or culturing  $\ge$  90%, C+/all TB cases  $^{>}$  50%, DST done for C+  $^{>}$  75%, EQA  $\ge$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

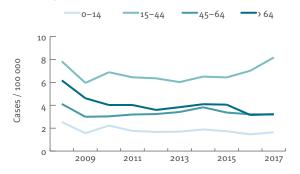
### Treatment outcome monitoring

Data not available

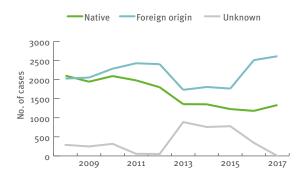
### TB notification rates by treatment history, 2008–2017



### New and relapsed TB cases – notification rates by age group, 2008–2017



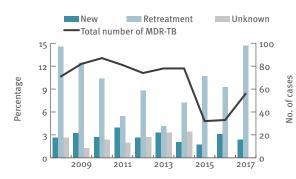
### TB cases by geographical origin, 2008-2017



### TB/HIV coinfection, 2008-2017

Data not available

### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome, new culture-confirmed pulmonary TB cases, 2007–2016

Data not available

### Kazakhstan

Population estimate 2017 by UN Statistical Database: 18 204 499

#### TB case notifications, 2017

| Total number of cases                                       | 12     | 942     |
|---|--------|---------|
| Notification rate per 100 000                               | 7      | 1.1     |
| New <sup>a</sup> and relapses                               | 12     | 449     |
| New <sup>a</sup> and relapses notification rate per 100 000 | 68     | 3.4     |
| Pulmonary   | 10 992 | (88.3%) |
| of which smear-positive                                     | -      | -       |
| of which laboratory-confirmed                               | 9 489  | (86.3%) |
| Laboratory-confirmed TB cases                               | 9 982  | (77.1%) |
| Mean age of new and relapse TB cases                        | 40.7   | years   |
| Mean age of new foreign TB cases                            | -      | years   |
| Foreign origin of all TB cases                              | 0      | (0.0%)  |
| New (not previously treated)                                | 9 417  | (72.8%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2016

| 1      | No   |
|--------|--|
| Υ      | 'es  |
| Υ      | 'es  |
| 6 411  | (64.2%)                                      |
| 3600-3 | 500-3700                                     |
| 1663   | (39.6%)                                      |
|        |  |
| 2 963  | (46.2%)                                      |
| 299    | (13.7%)                                      |
| 11 056 | (88.8%)                                      |
| 443    | (4.0%)                                       |
| 417    | (94.1%)                                      |
|        | Y Y Y 6 411 3600-31 1663 2963 299 11 056 443 |

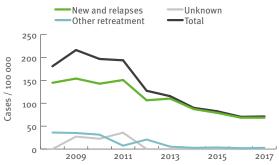
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

| Geographical coverage      | Nat   | ional         |  |         |
|----------------------------|---|---------------|--|---------|
| Outcome cohort             | New and relapsed<br>TB cases notified<br>in 2016° |               | All RR/MDR-TB<br>cases enrolled into<br>second-line treatmen<br>in 2015 <sup>b</sup> |         |
| Case-linked data reporting | Υ   | es            |  |         |
| Cases notified             | 6   | 775           | 6482   |         |
| Success                    | 5 962   | 5 962 (88.0%) |  | (78.1%) |
| Died                       | 442   | (6.5%)        | 609  | (9.4%)  |
| Failed                     | 261   | (3.9%)        | 395  | (6.1%)  |
| Lost to follow-up          | 88  | (1.3%)        | 285  | (4.4%)  |
| Not evaluated              | 22  | (0.3%)        | 130  | (2.0%)  |

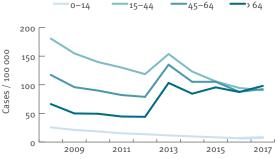
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

#### TB notification rates by treatment history, 2008-2017



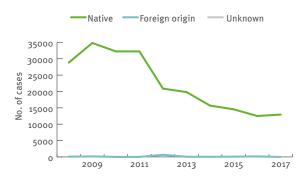
<sup>a</sup> Starting from 2013 onward cases with unknown history are included in new and relapses.

### New and relapsed TB cases – notification rates by age group, 2008–2017<sup>a</sup>

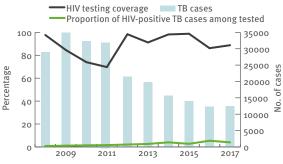


<sup>a</sup> Data up to 2012 includes new TB cases only.

### TB cases by geographical origin, 2008-2017

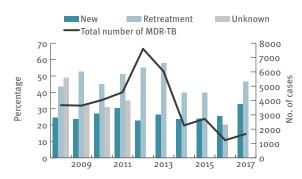


### TB/HIV coinfection, 2008-2017a

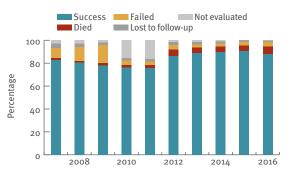


<sup>a</sup> Data up to 2014 include all TB cases.

### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome, new and relapsed TB cases 2007-2016<sup>a</sup>



<sup>a</sup> 2007–2011 cohorts include new cases only.

# Kyrgyzstan

Population estimate 2017 by UN Statistical Database: 6 045 117

### TB case notifications, 2017

| Total number of cases                                       | 7      | 695     |
|---|--------|---------|
| Notification rate per 100 000                               | 12     | 7.3     |
| New <sup>a</sup> and relapses                               | 6      | 687     |
| New <sup>a</sup> and relapses notification rate per 100 000 | 11     | 0.6     |
| Pulmonary   | 5 10 6 | (76.4%) |
| of which smear-positive                                     | -      | -       |
| of which laboratory-confirmed                               | 3 171  | (62.1%) |
| Laboratory-confirmed TB cases                               | 3 849  | (50.0%) |
| Mean age of new and relapse TB cases                        | 37.8   | years   |
| Mean age of new foreign TB cases                            | -      | years   |
| Foreign origin of all TB cases                              | 0      | (0.0%)  |
| New (not previously treated)                                | 5 630  | (73.2%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes     |          |
|---|---------|----------|
| Completeness of HIV data <sup>b</sup>                             | Yes     |          |
| Case-linked data reporting  | Yes     |          |
| Cases with DST results  | 3 376   | (87.7%)  |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 2300-22 | 200-2400 |
| Pulmonary MDR-TB cases notified                                   | 827     | (31.6%)  |
| of which XDR-TB cases   | 127     | (36.0%)  |
| Notified MDR-TB   | 1 250   | (37.0%)  |
| of which XDR-TB cases   | 127     | (19.3%)  |
| TB cases tested for HIV   | 5 966   | (89.2%)  |
| HIV-positive TB cases   | 216     | (3.6%)   |
| of these on ART   | 160     | (74.1%)  |

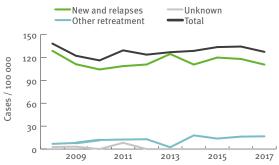
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

| Geographical coverage      | Nat   | ional   |  |         |
|----------------------------|---|---------|--|---------|
| Outcome cohort             | New and relapsed<br>TB cases notified<br>in 2016 <sup>a</sup> |         | All RR/MDR-TB<br>cases enrolled into<br>second-line treatmen<br>in 2015 <sup>b</sup> |         |
| Case-linked data reporting | Υ   | es      |  |         |
| Cases notified             | 6   | 072     | 1162   |         |
| Success                    | 4 9 6 8   | (81.8%) | 624  | (53.7%) |
| Died                       | 360   | (5.9%)  | 145  | (12.5%) |
| Failed                     | 112   | (1.8%)  | 124  | (10.7%) |
| Lost to follow-up          | 609   | (10.0%) | 269  | (23.1%) |
| Not evaluated              | 23  | (0.4%)  | 0  | (0.0%)  |

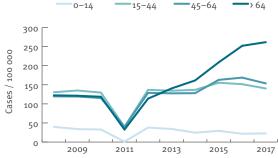
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

#### TB notification rates by treatment history, 2008-2017



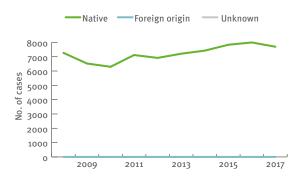
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

### New and relapsed TB cases - notification rates by age group, 2008–2017<sup>a</sup>

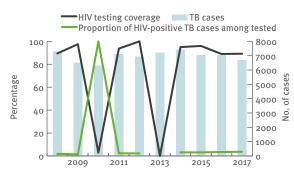


<sup>&</sup>lt;sup>a</sup> Data up to 2012 includes new TB cases only.

### TB cases by geographical origin, 2008-2017

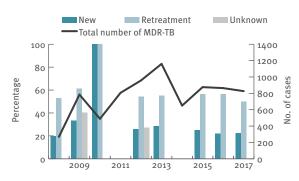


### TB/HIV coinfection, 2008-2017a

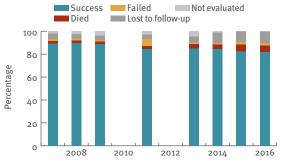


<sup>&</sup>lt;sup>a</sup> Data up to 2014 include all TB cases.

### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome of new TB cases, 2007-2016<sup>a</sup>



 $<sup>^{\</sup>rm a}$  2007–2011 cohorts include new cases only.

### Latvia

Total population at 23 April 2018 by EUROSTAT: 1 950 116

#### TB case notifications, 2017

| Total number of cases                                       |           | 552     |
|---|-----------|---------|
| Notification rate per 100 000                               | 2         | 8.3     |
| New <sup>a</sup> and relapses                               | 5         | 543     |
| New <sup>a</sup> and relapses notification rate per 100 000 | 27.8      |         |
| Pulmonary   | 522       | (94.6%) |
| of which microscopy-positive                                | 213       | (40.8%) |
| of which laboratory-confirmed                               | 441       | (84.5%) |
| Laboratory-confirmed TB cases                               | 453       | (82.1%) |
| Mean age of new native TB cases                             | 45.0      | years   |
| Mean age of new foreign TB cases                            | 51.1      | years   |
| Foreign origin of all TB cases                              | 41 (7.4%) |         |
| New (not previously treated)                                | 483       | (87.5%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| ١        | /es       |
|----------|-----------|
| ١        | /es       |
| ١        | /es       |
| 434      | (95.8%)   |
| 57-42-72 |           |
| 45       | (10.6%)   |
| 17       | (37.8%)   |
| 46       | (10.6%)   |
| 18       | (39.1%)   |
| 471      | (85.3%)   |
| 52       | (11.0%)   |
| 35       | (67.3%)   |
|          | 434<br>57 |

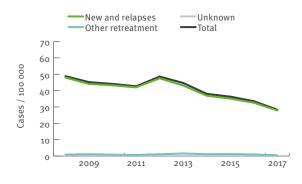
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

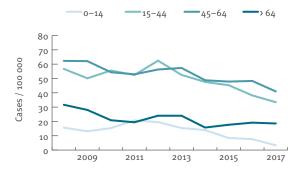
| Geographical coverage      | Nat   | tional  |   |         |  |    |
|----------------------------|---|---------|---|---------|--|----|
| Outcome cohort             | New culture positive<br>pulmonary TB cases<br>notified in 2016 <sup>a</sup> |         | All MDR-TB cases<br>notified in 2015 <sup>b</sup> |         |  |    |
| Case-linked data reporting | ١   | /es     |   |         |  |    |
| Cases notified             | 442   |         | 442   |         |  | 63 |
| Success                    | 358   | (81.0%) | 39  | (61.9%) |  |    |
| Died                       | 36  | (8.1%)  | 8   | (12.7%) |  |    |
| Failed                     | 0   | (0.0%)  | 0   | (0.0%)  |  |    |
| Lost to follow-up          | 20  | (4.5%)  | 15  | (23.8%) |  |    |
| Still on treatment         | 25  | (5.7%)  | 1   | (1.6%)  |  |    |
| Not evaluated              | 3   | (0.7%)  | 0   | (0.0%)  |  |    |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

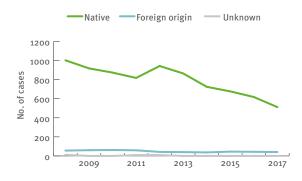
### TB notification rates by treatment history, 2008-2017



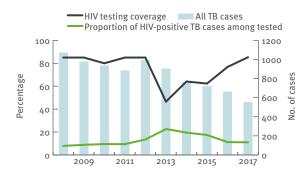
### New and relapsed TB cases – notification rates by age group, 2008–2017



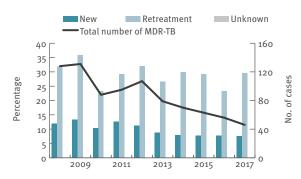
### TB cases by geographical origin, 2008-2017

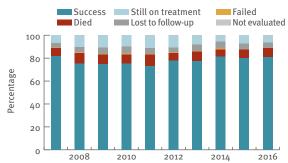


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





### Liechtenstein

### TB case notifications, 2017

| Total number of cases                                       | 1    |          |
|---|------|----------|
| Notification rate per 100 000                               | 2.6  |          |
| New <sup>a</sup> and relapses                               | 1    |          |
| New <sup>a</sup> and relapses notification rate per 100 000 | 2.6  |          |
| Pulmonary   | 1    | (100.0%) |
| of which microscopy-positive                                | 1    | (100.0%) |
| of which laboratory-confirmed                               | 1    | (100.0%) |
| Laboratory-confirmed TB cases                               | 1    | (100.0%) |
| Mean age of new native TB cases                             | 44.0 | years    |
| Mean age of new foreign TB cases                            | -    | years    |
| Foreign origin of all TB cases                              | 0    | (0.0%)   |
| New (not previously treated)                                | 1    | (100.0%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | ١         | /es    |
|---|-----------|--------|
| Completeness of HIV datab   |           | -      |
| Case-linked data reporting  | ١         | /es    |
| Cases with DST results  | 1 (100.0% |        |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) |           | -      |
| Pulmonary MDR-TB cases notified                                   | 0         | (0.0%) |
| of which XDR-TB cases   | 0         | (0.0%) |
| Notified MDR-TB   | 0         | (0.0%) |
| of which XDR-TB cases   | 0         | -      |
| TB cases tested for HIV   | -         | -      |
| HIV-positive TB cases   | -         | -      |
| of these on ART   | -         | -      |
|   |           |        |

 $<sup>^</sup>a$  National coverage 100% or culturing  $\ge$  90%, C+/all TB cases  $\gt$  50%, DST done for C+  $\gt$  75%, EQA  $\ge$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

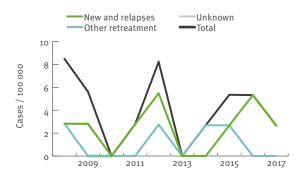
No. of cases

### Treatment outcome monitoring

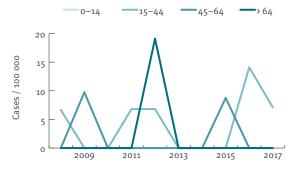
| Geographical coverage      | Na      | tional                                     |   |                                     |
|----------------------------|---------|--|---|-------------------------------------|
| Outcome cohort             | pulmona | ure positive<br>ary TB cases<br>d in 2016ª |   | -TB cases<br>d in 2015 <sup>b</sup> |
| Case-linked data reporting |         | Yes  |   |                                     |
| Cases notified             |         | 1  |   | 0                                   |
| Success                    | 1       | (100.0%)                                   | 0 | -                                   |
| Died                       | 0       | (0.0%)                                     | 0 | -                                   |
| Failed                     | 0       | (0.0%)                                     | 0 | -                                   |
| Lost to follow-up          | 0       | (0.0%)                                     | 0 | -                                   |
| Still on treatment         | 0       | (0.0%)                                     | 0 | -                                   |
| Not evaluated              | 0       | (0.0%)                                     | 0 | -                                   |
|                            |         |  |   |                                     |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

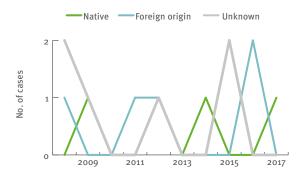
### TB notification rates by treatment history, 2008-2017



#### New and relapsed TB cases - notification rates by age group, 2008-2017



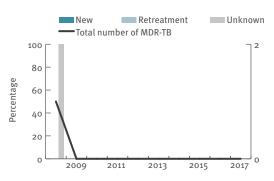
### TB cases by geographical origin, 2008-2017

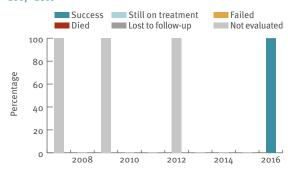


### TB/HIV coinfection, 2008-2017

Data not available

### MDR-TB cases by previous treatment history, 2008-2017





### Lithuania

Total population at 23 April 2018 by EUROSTAT: 2 847 904

#### TB case notifications, 2017

| Total number of cases                                       | 1387       |         |
|---|------------|---------|
| Notification rate per 100 000                               | 48         | 3.7     |
| New <sup>a</sup> and relapses                               | 12         | 268     |
| New <sup>a</sup> and relapses notification rate per 100 000 | 44.5       |         |
| Pulmonary   | 1 285      | (92.6%) |
| of which microscopy-positive                                | 810        | (63.0%) |
| of which laboratory-confirmed                               | 1 123      | (87.4%) |
| Laboratory-confirmed TB cases                               | 1 148      | (82.8%) |
| Mean age of new native TB cases                             | 46.9       | years   |
| Mean age of new foreign TB cases                            | 47.7 years |         |
| Foreign origin of all TB cases                              | 15         | (1.1%)  |
| New (not previously treated)                                | 1 116      | (80.5%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Υ             | 'es     |
|---|---------------|---------|
| Completeness of HIV datab   | Yes           |         |
| Case-linked data reporting  | Yes           |         |
| Cases with DST results  | 1 148 (100.0% |         |
| Estimated RR-TB among notified pulmonary cases N, (best–low–high) | 290-2         | 60-310  |
| Pulmonary MDR-TB cases notified                                   | 248           | (22.1%) |
| of which XDR-TB cases   | 87            | (35.1%) |
| Notified MDR-TB   | 249           | (21.7%) |
| of which XDR-TB cases   | 87            | (34.9%) |
| TB cases tested for HIV   | 1 125         | (81.1%) |
| HIV-positive TB cases   | 42            | (3.7%)  |
| of these on ART   | -             | -       |

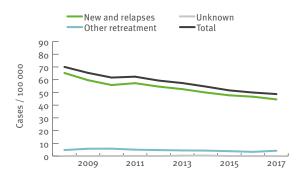
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

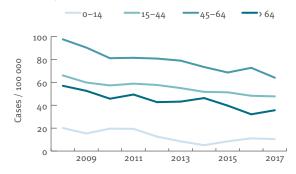
| Geographical coverage      | Nat      | ional                                    |     |                                      |
|----------------------------|----------|--|-----|--------------------------------------|
| Outcome cohort             | pulmonai | re positive<br>ry TB cases<br>I in 2016ª |     | R-TB cases<br>d in 2015 <sup>b</sup> |
| Case-linked data reporting | Υ        | 'es                                      |     |                                      |
| Cases notified             | 880      |  | 241 |                                      |
| Success                    | 639      | (72.6%)                                  | 95  | (39.4%)                              |
| Died                       | 93       | (10.6%)                                  | 55  | (22.8%)                              |
| Failed                     | 8        | (0.9%)                                   | 25  | (10.4%)                              |
| Lost to follow-up          | 43       | (4.9%)                                   | 51  | (21.2%)                              |
| Still on treatment         | 92       | (10.5%)                                  | 15  | (6.2%)                               |
| Not evaluated              | 5        | (0.6%)                                   | 0   | (0.0%)                               |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

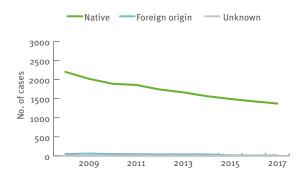
### TB notification rates by treatment history, 2008-2017



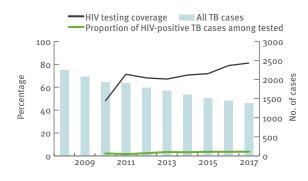
### New and relapsed TB cases – notification rates by age group, 2008–2017



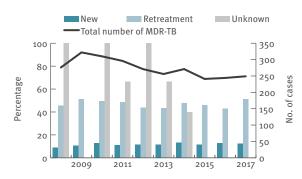
### TB cases by geographical origin, 2008-2017

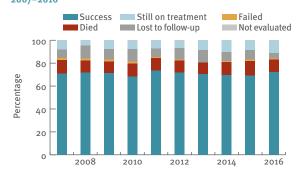


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





### TB case notifications, 2017

| Total number of cases                                       |     | 32       |
|---|-----|----------|
| Notification rate per 100 000                               |     | 5.4      |
| New <sup>a</sup> and relapses                               |     | 32       |
| New <sup>a</sup> and relapses notification rate per 100 000 | 5.4 |          |
| Pulmonary   | 24  | (75.0%)  |
| of which microscopy-positive                                | 8   | (33.3%)  |
| of which laboratory-confirmed                               | 21  | (87.5%)  |
| Laboratory-confirmed TB cases                               | 23  | (71.9%)  |
| Mean age of new native TB cases                             | -   | years    |
| Mean age of new foreign TB cases                            | -   | years    |
| Foreign origin of all TB cases                              | 25  | (78.1%)  |
| New (not previously treated)                                | 32  | (100.0%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

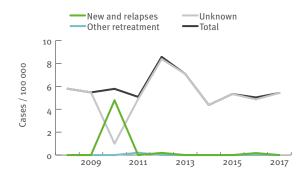
| Yes        |                                  |
|------------|----------------------------------|
| No         |                                  |
| Yes        |                                  |
| 23 (100.0% |                                  |
| 1-0-1      |                                  |
| 1          | (4.8%)                           |
| 0          | -                                |
| 1          | (4.3%)                           |
| 0          | -                                |
| 3          | (9.4%)                           |
| 1          | (18.5%)                          |
| -          | -                                |
|            | 23<br>1<br>1<br>0<br>1<br>0<br>3 |

 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

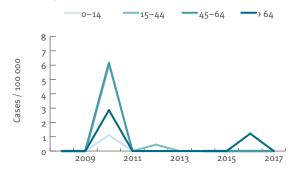
### Treatment outcome monitoring

Data not available

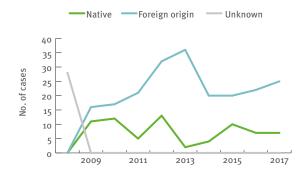
### TB notification rates by treatment history, 2008-2017



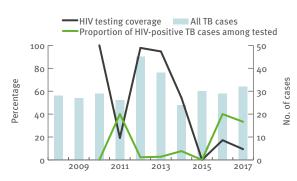
#### New and relapsed TB cases - notification rates by age group, 2008-2017



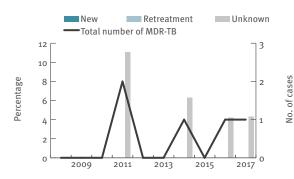
### TB cases by geographical origin, 2008-2017



### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008-2017



### Treatment outcome, new culture-confirmed pulmonary TB cases,

Data not available

Total population at 23 April 2018 by EUROSTAT: 460 297

#### TB case notifications, 2017

| Total number of cases  |      | 42       |
|--|------|----------|
| Notification rate per 100 000                                  |      | 9.1      |
| New <sup>a</sup> and relapses                                  |      | 42       |
| New <sup>a</sup> and relapses notification rate<br>per 100 000 |      | 9.1      |
| Pulmonary  | 30   | (71.4%)  |
| of which microscopy-positive                                   | 12   | (40.0%)  |
| of which laboratory-confirmed                                  | 24   | (80.0%)  |
| Laboratory-confirmed TB cases                                  | 33   | (78.6%)  |
| Mean age of new native TB cases                                | 62.0 | years    |
| Mean age of new foreign TB cases                               | 31.1 | years    |
| Foreign origin of all TB cases                                 | 39   | (92.9%)  |
| New (not previously treated)                                   | 42   | (100.0%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

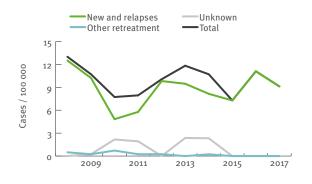
| Completeness of DRS data <sup>a</sup>                             | ,  | Yes     |
|---|----|---------|
| Completeness of HIV datab   | ,  | Yes     |
| Case-linked data reporting  | ,  | Yes     |
| Cases with DST results  | 31 | (93.9%) |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 0- | -0-4    |
| Pulmonary MDR-TB cases notified                                   | 0  | (0.0%)  |
| of which XDR-TB cases   | 0  | -       |
| Notified MDR-TB   | 0  | (0.0%)  |
| of which XDR-TB cases   | 0  | -       |
| TB cases tested for HIV   | 37 | (88.1%) |
| HIV-positive TB cases   | 0  | (0.0%)  |
| of these on ART   | 0  | -       |
|   |    |         |

 $<sup>^</sup>a$  National coverage 100% or culturing  $\ge$  90%, C+/all TB cases  $\gt$  50%, DST done for C+  $\gt$  75%, EQA  $\ge$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

Data not available

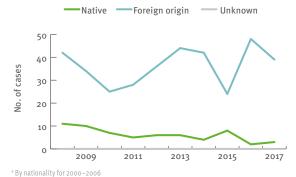
### TB notification rates by treatment history, 2008-2017



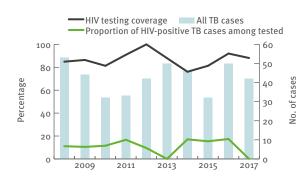
#### New and relapsed TB cases - notification rates by age group, 2008-2017



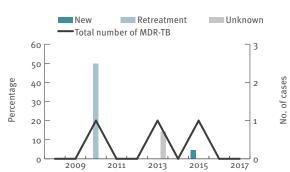
### TB cases by geographical origin, 2008-2017

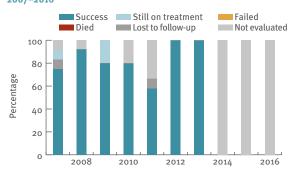


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008-2017





# Montenegro

Population estimate 2017 by UN Statistical Database: 628 960

#### TB case notifications, 2017

| Total number of cases                                       | 77         |         |
|---|------------|---------|
| Notification rate per 100 000                               | 12.2       |         |
| New <sup>a</sup> and relapses                               | 75         |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 11.9       |         |
| Pulmonary   | 70         | (93.3%) |
| of which smear-positive                                     | -          | -       |
| of which laboratory-confirmed                               | 58         | (82.9%) |
| Laboratory-confirmed TB cases                               | 58         | -       |
| Mean age of new and relapse TB cases                        | 49.1 years |         |
| Mean age of new foreign TB cases                            | - years    |         |
| Foreign origin of all TB cases                              | 3          | (3.9%)  |
| New (not previously treated)                                | 63         | (81.8%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes        |          |
|---|------------|----------|
| Completeness of HIV datab   | Yes        |          |
| Case-linked data reporting  | Yes        |          |
| Cases with DST results  | 58 (100.0% |          |
| Estimated RR-TB among notified pulmonary cases N, (best–low–high) | 2-0-5      |          |
| Pulmonary MDR-TB cases notified                                   | 1          | (1.7%)   |
| of which XDR-TB cases   | 1          | (100.0%) |
| Notified MDR-TB   | 1          | (1.7%)   |
| of which XDR-TB cases   | 1          | (100.0%) |
| TB cases tested for HIV   | 63         | (84.0%)  |
| HIV-positive TB cases   | 0          | (0.0%)   |
| of these on ART   | -          | -        |

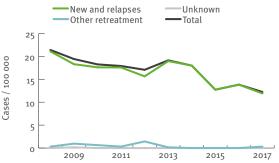
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

| Geographical coverage      | Nat     | tional                            |                      |  |
|----------------------------|---------|-----------------------------------|----------------------|--|
| Outcome cohort             | TB case | d relapsed<br>s notified<br>2016° | cases e<br>second-li | R/MDR-TB<br>nrolled into<br>ine treatment<br>2015 <sup>b</sup> |
| Case-linked data reporting | ١       | /es                               |                      |  |
| Cases notified             |         | 87                                |                      | 1  |
| Success                    | 70      | (80.5%)                           | 1                    | (100.0%)   |
| Died                       | 11      | (12.6%)                           | 0                    | (0.0%)   |
| Failed                     | 0       | (0.0%)                            | 0                    | (0.0%)   |
| Lost to follow-up          | 5       | (5.7%)                            | 0                    | (0.0%)   |
| Not evaluated              | 1       | (1.1%)                            | 0                    | (0.0%)   |

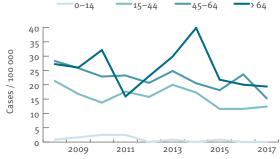
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

#### TB notification rates by treatment history, 2008-2017



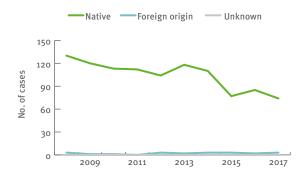
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

### New and relapsed TB cases – notification rates by age group, $2008-2017^a$

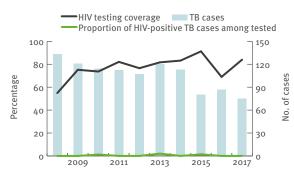


<sup>a</sup> Data up to 2012 includes new TB cases only.

### TB cases by geographical origin, 2008-2017

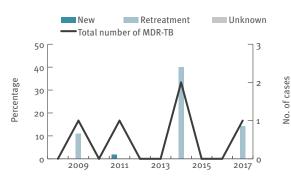


### TB/HIV coinfection, 2008-2017a

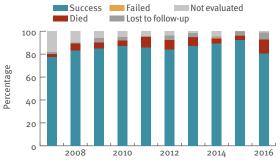


<sup>a</sup> Data up to 2014 include all TB cases.

### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome of new TB cases, 2007–2016<sup>a</sup>



 $^{\rm a}$  2007–2011 cohorts include new cases only.

### **Netherlands**

Total population at 23 April 2018 by FUROSTAT: 17 081 507

#### TB case notifications, 2017

| Total number of cases                                       | 7    | 87         |  |
|---|------|------------|--|
| Notification rate per 100 000                               | 4    | 4.6<br>776 |  |
| New <sup>a</sup> and relapses                               | 7    |            |  |
| New <sup>a</sup> and relapses notification rate per 100 000 | 4.5  |            |  |
| Pulmonary   | 457  | (58.1%)    |  |
| of which microscopy-positive                                | 213  | (46.6%)    |  |
| of which laboratory-confirmed                               | 369  | (80.7%)    |  |
| Laboratory-confirmed TB cases                               | 542  | (68.9%)    |  |
| Mean age of new native TB cases                             | 42.9 | 42.9 years |  |
| Mean age of new foreign TB cases                            | 37.5 | 37.5 years |  |
| Foreign origin of all TB cases                              | 586  | (74.5%)    |  |
| New (not previously treated)                                | 760  | (96.6%)    |  |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

# Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes    |          |
|---|--------|----------|
| Completeness of HIV datab   | Yes    |          |
| Case-linked data reporting  | Yes    |          |
| Cases with DST results  | 542    | (100.0%) |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 9-3-16 |          |
| Pulmonary MDR-TB cases notified                                   | 6      | (1.6%)   |
| of which XDR-TB cases   | 0      | (0.0%)   |
| Notified MDR-TB   | 10     | (1.8%)   |
| of which XDR-TB cases   | 0      | (0.0%)   |
| TB cases tested for HIV   | 526    | (66.8%)  |
| HIV-positive TB cases   | 22     | (4.2%)   |
| of these on ART   | 13     | (59.1%)  |
|   |        |          |

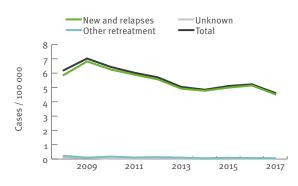
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

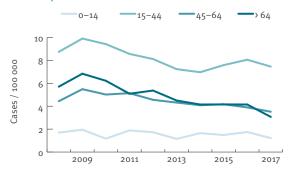
| Geographical coverage      | Nat   | tional  |   |         |
|----------------------------|---|---------|---|---------|
| Outcome cohort             | New culture positive<br>pulmonary TB cases<br>notified in 2016ª |         | All MDR-TB cases<br>notified in 2015 <sup>b</sup> |         |
| Case-linked data reporting | ١   | /es     |   |         |
| Cases notified             | 346   |         | 8   |         |
| Success                    | 279   | (80.6%) | 4   | (50.0%) |
| Died                       | 22  | (6.4%)  | 1   | (12.5%) |
| Failed                     | 0   | (0.0%)  | 0   | (0.0%)  |
| Lost to follow-up          | 16  | (4.6%)  | 1   | (12.5%) |
| Still on treatment         | 6   | (1.7%)  | 0   | (0.0%)  |
| Not evaluated              | 23  | (6.6%)  | 2   | (25.0%) |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

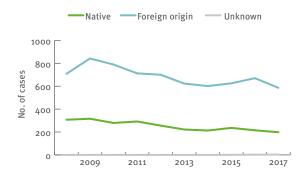
### TB notification rates by treatment history, 2008-2017



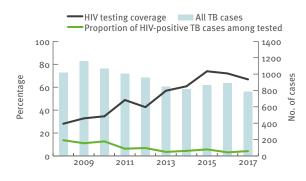
### New and relapsed TB cases – notification rates by age group, 2008–2017



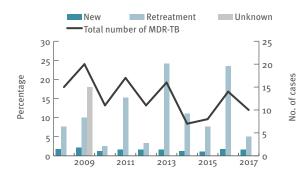
### TB cases by geographical origin, 2008-2017

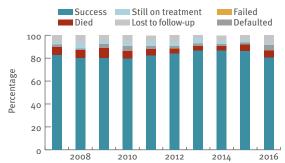


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





# North Macedonia

Population estimate 2017 by UN Statistical Database: 2 083 160

#### TB case notifications, 2017

| Total number of cases                                       | 219        |         |
|---|------------|---------|
| Notification rate per 100 000                               | 10.5       |         |
| New <sup>a</sup> and relapses                               | 216        |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 10.4       |         |
| Pulmonary   | 171        | (79.2%) |
| of which smear-positive                                     | -          | -       |
| of which laboratory-confirmed                               | 152        | (88.9%) |
| Laboratory-confirmed TB cases                               | 155        | (70.8%) |
| Mean age of new and relapse TB cases                        | 44.5 years |         |
| Mean age of new foreign TB cases                            | - years    |         |
| Foreign origin of all TB cases                              | 3          | (1.4%)  |
| New (not previously treated)                                | 197        | (90.0%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes   |          |
|---|-------|----------|
| Completeness of HIV datab   | Yes   |          |
| Case-linked data reporting  | Yes   |          |
| Cases with DST results  | 155   | (100.0%) |
| Estimated RR-TB among notified pulmonary cases N, (best–low–high) | 0-0-3 |          |
| Pulmonary MDR-TB cases notified                                   | 1     | (0.6%)   |
| of which XDR-TB cases   | 0     | (0.0%)   |
| Notified MDR-TB   | 0     | (0.0%)   |
| of which XDR-TB cases   | 0     | -        |
| TB cases tested for HIV   | 178   | (82.4%)  |
| HIV-positive TB cases   | 0     | (0.0%)   |
| of these on ART   | 0     | -        |

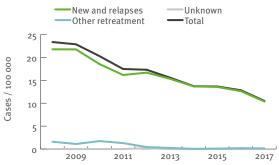
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

| Geographical coverage      | Nat   | ional   |   |   |
|----------------------------|---|---------|---|---|
| Outcome cohort             | New and relapsed<br>TB cases notified<br>in 2016 <sup>a</sup> |         | All RR/MDR-TB<br>cases enrolled into<br>second-line treatment<br>in 2015 <sup>b</sup> |   |
| Case-linked data reporting | Yes   |         |   |   |
| Cases notified             | 263   |         | -   | - |
| Success                    | 232   | (88.2%) | -   | - |
| Died                       | 18  | (6.8%)  | -   | - |
| Failed                     | 1   | (0.4%)  | -   | - |
| Lost to follow-up          | 11  | (4.2%)  | -   | - |
| Not evaluated              | 1   | (0.4%)  | -   | - |

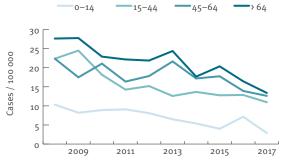
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

#### TB notification rates by treatment history, 2008-2017



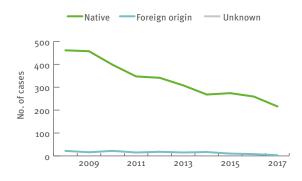
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

### New and relapsed TB cases – notification rates by age group, 2008–2017<sup>a</sup>

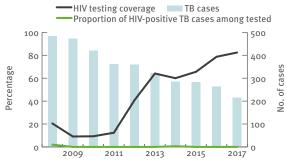


 $<sup>^{\</sup>rm a}$  Data up to 2012 includes new TB cases only.

### TB cases by geographical origin, 2008-2017

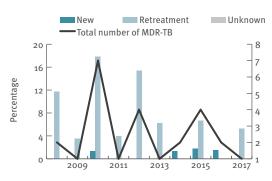


### TB/HIV coinfection, 2008-2017a

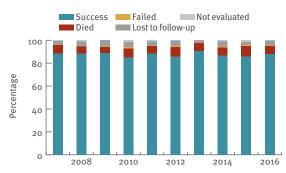


<sup>a</sup> Data up to 2014 include all TB cases.

### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome, new and relapsed TB cases, 2007–2016<sup>a</sup>



 $<sup>^{\</sup>rm a}$  2007–2011 cohorts include new cases only.

### **Norway**

Total population at 23 April 2018 by EUROSTAT: 5 258 317

#### TB case notifications, 2017

| Total number of cases                                       | 2          | 261     |
|---|------------|---------|
| Notification rate per 100 000                               | 5.0        |         |
| New <sup>a</sup> and relapses                               | 237        |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 4.5        |         |
| Pulmonary   | 158        | (60.5%) |
| of which microscopy-positive                                | 52         | (32.9%) |
| of which laboratory-confirmed                               | 144        | (91.1%) |
| Laboratory-confirmed TB cases                               | 216        | (82.8%) |
| Mean age of new native TB cases                             | 32.7       | years   |
| Mean age of new foreign TB cases                            | 33.1 years |         |
| Foreign origin of all TB cases                              | 231        | (88.5%) |
| New (not previously treated)                                | 237        | (90.8%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | ١           | /es     |
|---|-------------|---------|
| Completeness of HIV datab   | ١           | /es     |
| Case-linked data reporting  | ١           | /es     |
| Cases with DST results  | 213 (98.6%) |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 7-          | 0-13    |
| Pulmonary MDR-TB cases notified                                   | 6           | (4.3%)  |
| of which XDR-TB cases   | 0           | (0.0%)  |
| Notified MDR-TB   | 9           | (4.2%)  |
| of which XDR-TB cases   | 0           | (0.0%)  |
| TB cases tested for HIV   | 228         | (87.4%) |
| HIV-positive TB cases   | 7           | (3.1%)  |
| of these on ART   | -           | -       |

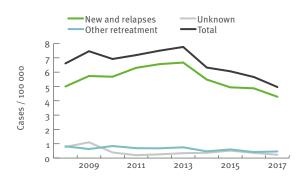
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

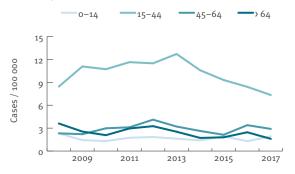
| Geographical coverage      | Nat | tional  |   |                                       |
|----------------------------|-----|---------|---|---------------------------------------|
| Outcome cohort             |     |         |   | R-TB cases<br>ed in 2015 <sup>b</sup> |
| Case-linked data reporting | ١   | /es     |   |                                       |
| Cases notified             | 1   | 136     |   | 5                                     |
| Success                    | 116 | (85.3%) | 5 | (100.0%)                              |
| Died                       | 3   | (2.2%)  | 0 | (0.0%)                                |
| Failed                     | 0   | (0.0%)  | 0 | (0.0%)                                |
| Lost to follow-up          | 3   | (2.2%)  | 0 | (0.0%)                                |
| Still on treatment         | 6   | (4.4%)  | 0 | (0.0%)                                |
| Not evaluated              | 8   | (5.9%)  | 0 | (0.0%)                                |
|                            |     |         |   |                                       |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

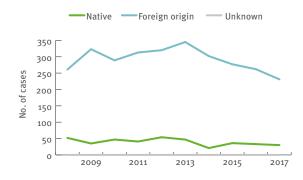
TB notification rates by treatment history, 2008-2017



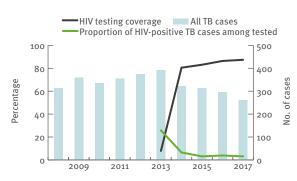
### New and relapsed TB cases – notification rates by age group, 2008–2017



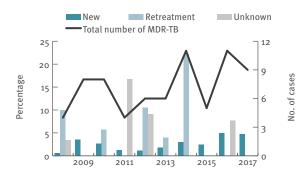
### TB cases by geographical origin, 2008-2017

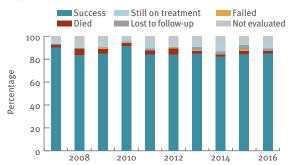


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





### **Poland**

Total population at 23 April 2018 by EUROSTAT: 37 972 964

#### TB case notifications, 2017

| Total number of cases                                       | 5     | 787     |
|---|-------|---------|
| Notification rate per100000                                 | 15.2  |         |
| New <sup>a</sup> and relapses                               | 5 535 |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 14.6  |         |
| Pulmonary   | 5 531 | (95.6%) |
| of which microscopy-positive                                | 2 498 | (45.2%) |
| of which laboratory-confirmed                               | 4 057 | (73.4%) |
| Laboratory-confirmed TB cases                               | 4 179 | (72.2%) |
| Mean age of new native TB cases                             | 53.9  | years   |
| Mean age of new foreign TB cases                            | 35.4  | years   |
| Foreign origin of all TB cases                              | 108   | (1.9%)  |
| New (not previously treated)                                | 5 127 | (88.6%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes           |         |
|---|---------------|---------|
| Completeness of HIV data <sup>b</sup>                             | -             |         |
| Case-linked data reporting  | Yes           |         |
| Cases with DST results  | 3 809 (91.1%) |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 80-59-100     |         |
| Pulmonary MDR-TB cases notified                                   | 44            | (1.2%)  |
| of which XDR-TB cases   | 5             | (14.3%) |
| Notified MDR-TB   | 44            | (1.2%)  |
| of which XDR-TB cases   | 5             | (14.3%) |
| TB cases tested for HIV   | -             | -       |
| HIV-positive TB cases   | -             | -       |
| of these on ART   | -             | -       |

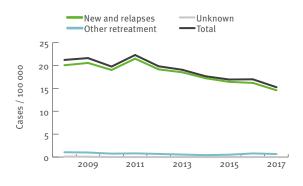
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

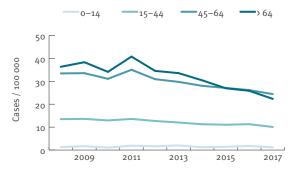
| Geographical coverage      | Nat      | ional                                   |    |                                      |
|----------------------------|----------|---|----|--------------------------------------|
| Outcome cohort             | pulmonai | re positive<br>y TB cases<br>l in 2016ª |    | R-TB cases<br>d in 2015 <sup>b</sup> |
| Case-linked data reporting | Y        | es                                      |    |                                      |
| Cases notified             | 3 973    |   |    | 35                                   |
| Success                    | 2 199    | (55.3%)                                 | 11 | (31.4%)                              |
| Died                       | 400      | (10.1%)                                 | 6  | (17.1%)                              |
| Failed                     | 2        | (0.1%)                                  | 0  | (0.0%)                               |
| Lost to follow-up          | 209      | (5.3%)                                  | 1  | (2.9%)                               |
| Still on treatment         | 19       | (0.5%)                                  | 1  | (2.9%)                               |
| Not evaluated              | 1144     | (28.8%)                                 | 16 | (45.7%)                              |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

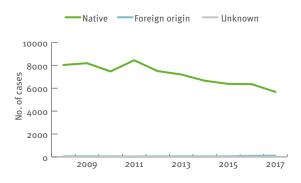
TB notification rates by treatment history, 2008-2017



### New and relapsed TB cases – notification rates by age group, 2008–2017



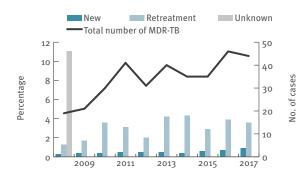
### TB cases by geographical origin, 2008-2017

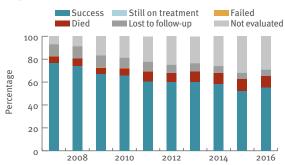


### TB/HIV coinfection, 2008-2017

Data not available

### MDR-TB cases by previous treatment history, 2008–2017





## **Portugal**

Total population at 23 April 2018 by EUROSTAT: 10 309 573

#### TB case notifications, 2017

| Total number of cases                                       | 18         | 300     |
|---|------------|---------|
| Notification rate per 100 000                               | 17.5       |         |
| New <sup>a</sup> and relapses                               | 1760       |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 17.1       |         |
| Pulmonary   | 1290       | (71.7%) |
| of which microscopy-positive                                | 750        | (58.1%) |
| of which laboratory-confirmed                               | 945        | (73.3%) |
| Laboratory-confirmed TB cases                               | 1106       | (61.4%) |
| Mean age of new native TB cases                             | 52.6       | years   |
| Mean age of new foreign TB cases                            | 38.4 years |         |
| Foreign origin of all TB cases                              | 351        | (19.5%) |
| New (not previously treated)                                | 1680       | (93.3%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Υ     | 'es     |
|---|-------|---------|
| Completeness of HIV datab   | Υ     | 'es     |
| Case-linked data reporting  | Υ     | 'es     |
| Cases with DST results  | 738   | (66.7%) |
| Estimated RR-TB among notified pulmonary cases N, (best–low–high) | 19-   | 10-27   |
| Pulmonary MDR-TB cases notified                                   | 10    | (1.5%)  |
| of which XDR-TB cases   | 0     | (0.0%)  |
| Notified MDR-TB   | 10    | (1.4%)  |
| of which XDR-TB cases   | 0     | (0.0%)  |
| TB cases tested for HIV   | 1 183 | (65.7%) |
| HIV-positive TB cases   | 135   | (11.4%) |
| of these on ART   | -     | -       |

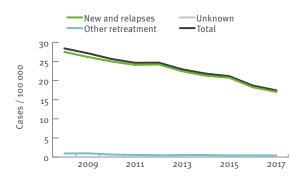
 $<sup>^</sup>a$  National coverage 100% or culturing  $\ge$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\ge$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

| Geographical coverage      | Nat   | ional   |   |                                       |
|----------------------------|---|---------|---|---------------------------------------|
| Outcome cohort             | New culture positive<br>pulmonary TB cases<br>notified in 2016ª |         |   | R-TB cases<br>ed in 2015 <sup>b</sup> |
| Case-linked data reporting | Υ   | 'es     |   |                                       |
| Cases notified             | 1 035   |         |   | 23                                    |
| Success                    | 749   | (72.4%) | 7 | (30.4%)                               |
| Died                       | 77  | (7.4%)  | 5 | (21.7%)                               |
| Failed                     | 0   | (0.0%)  | 0 | (0.0%)                                |
| Lost to follow-up          | 31  | (3.0%)  | 1 | (4.3%)                                |
| Still on treatment         | 140   | (13.5%) | 5 | (21.7%)                               |
| Not evaluated              | 38  | (3.7%)  | 5 | (21.7%)                               |
|                            |   |         |   |                                       |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

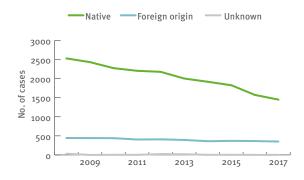
### TB notification rates by treatment history, 2008-2017



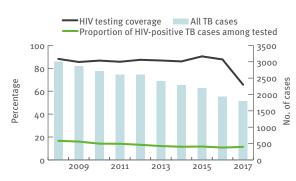
### New and relapsed TB cases – notification rates by age group, 2008–2017



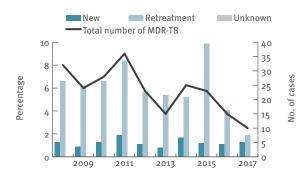
### TB cases by geographical origin, 2008-2017

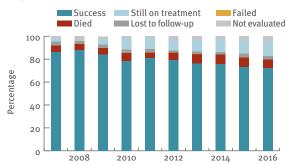


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





# Republic of Moldova

Population estimate 2017 by UN Statistical Database: 4 051 212

### TB case notifications, 2017

| Total number of cases                                       | 3 858      |         |
|---|------------|---------|
| Notification rate per 100 000                               | 95.2       |         |
| New <sup>a</sup> and relapses                               | 3 358      |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 82.9       |         |
| Pulmonary   | 3 017      | (89.8%) |
| of which smear-positive                                     | -          | -       |
| of which laboratory-confirmed                               | 1880       | (62.3%) |
| Laboratory-confirmed TB cases                               | 2 267      | (58.8%) |
| Mean age of new native TB cases                             | 42.9 years |         |
| Mean age of new foreign TB cases                            | -          | years   |
| Foreign origin of all TB cases                              | 24         | (0.6%)  |
| New (not previously treated)                                | 2 690      | (69.7%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Υ       | es       |
|---|---------|----------|
| Completeness of HIV datab   | Υ       | es       |
| Case-linked data reporting  | Υ       | es       |
| Cases with DST results  | 1 953   | (86.1%)  |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 1300-12 | 200-1400 |
| Pulmonary MDR-TB cases notified                                   | 486     | (32.7%)  |
| of which XDR-TB cases   | 30      | (6.3%)   |
| Notified MDR-TB   | 679     | (34.8%)  |
| of which XDR-TB cases   | 32      | (6.0%)   |
| TB cases tested for HIV   | 3 352   | (99.8%)  |
| HIV-positive TB cases   | 277     | (8.3%)   |
| of these on ART   | 190     | (68.6%)  |
|   |         |          |

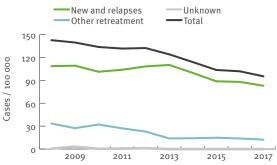
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

| Geographical coverage      | Nat  | ional   |                             |         |
|----------------------------|--|---------|-----------------------------|---------|
| Outcome cohort             | New and relapsed<br>TB cases notified<br>in 2016 <sup>a</sup> All RR/MDR<br>cases enrolled<br>second-line tree<br>in 2015 <sup>b</sup> |         | rolled into<br>ne treatment |         |
| Case-linked data reporting | Υ  | es      |                             |         |
| Cases notified             | 3  | 048     | 9                           | 96      |
| Success                    | 2 515  | (82.5%) | 487                         | (48.9%) |
| Died                       | 294  | (9.6%)  | 120                         | (12.0%) |
| Failed                     | 77   | (2.5%)  | 177                         | (17.8%) |
| Lost to follow-up          | 123  | (4.0%)  | 202                         | (20.3%) |
| Not evaluated              | 39   | (1.3%)  | 10                          | (1.0%)  |

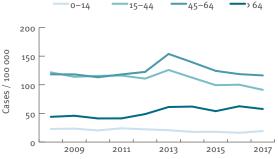
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

#### TB notification rates by treatment history, 2008-2017



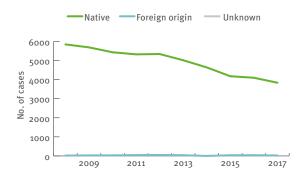
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

### New and relapsed TB cases – notification rates by age group, 2008–2017<sup>a</sup>

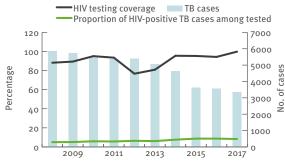


<sup>&</sup>lt;sup>a</sup> Data up to 2012 includes new TB cases only

### TB cases by geographical origin, 2008-2017

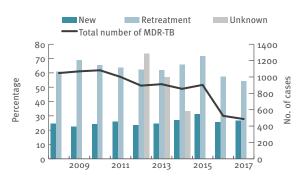


### TB/HIV coinfection, 2008-2017a

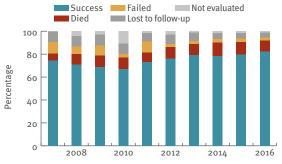


<sup>&</sup>lt;sup>a</sup> Data up to 2014 include all TB cases.

### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome, new and relapsed TB cases, 2007–2016<sup>a</sup>



 $<sup>^{\</sup>rm a}$  2007–2011 cohorts include new cases only.

### Romania

Total population at 23 April 2018 by EUROSTAT: 19 644 350

#### TB case notifications, 2017

| Total number of cases                                       | 13 004     |         |
|---|------------|---------|
| Notification rate per 100 000                               | 66         | 5.2     |
| New <sup>a</sup> and relapses                               | 12         | 310     |
| New <sup>a</sup> and relapses notification rate per 100 000 | 62.7       |         |
| Pulmonary   | 11 0 47    | (85.0%) |
| of which microscopy-positive                                | 7 255      | (65.7%) |
| of which laboratory-confirmed                               | 8 878      | (80.4%) |
| Laboratory-confirmed TB cases                               | 9 194      | (70.7%) |
| Mean age of new native TB cases                             | 44.0 years |         |
| Mean age of new foreign TB cases                            | 32.4       | years   |
| Foreign origin of all TB cases                              | 27         | (0.2%)  |
| New (not previously treated)                                | 10 377     | (79.8%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Υ            | es                                       |
|--------------|--|
| Yes          |  |
| Yes          |  |
| 8 183 (89.0% |  |
| 590-5        | 40-650                                   |
| 356          | (4.5%)                                   |
| 43           | (30.3%)                                  |
| 361          | (4.4%)                                   |
| 45           | (30.8%)                                  |
| 10 760       | (82.7%)                                  |
| 232          | (2.2%)                                   |
| 173          | (74.6%)                                  |
|              | Y Y 8 183 590-5 356 43 361 45 10 760 232 |

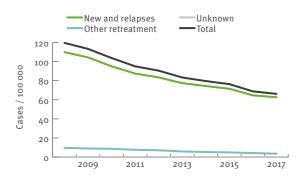
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

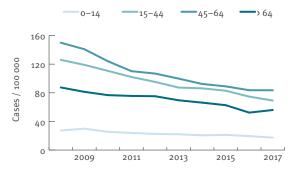
| Geographical coverage      | Nat  | ional   |     |                                      |
|----------------------------|--|---------|-----|--------------------------------------|
| Outcome cohort             | New culture positive<br>pulmonary TB cases<br>notified in 2016 <sup>a</sup><br>Yes |         |     | R-TB cases<br>d in 2015 <sup>b</sup> |
| Case-linked data reporting |  |         |     |                                      |
| Cases notified             | 6 890  |         |     | 537                                  |
| Success                    | 5 8 6 1  | (85.1%) | 222 | (41.3%)                              |
| Died                       | 512  | (7.4%)  | 94  | (17.5%)                              |
| Failed                     | 133  | (1.9%)  | 157 | (29.2%)                              |
| Lost to follow-up          | 288  | (4.2%)  | 61  | (11.4%)                              |
| Still on treatment         | 90   | (1.3%)  | 3   | (0.6%)                               |
| Not evaluated              | 6  | (0.1%)  | 0   | (0.0%)                               |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

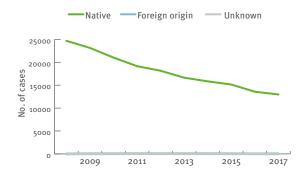
TB notification rates by treatment history, 2008-2017



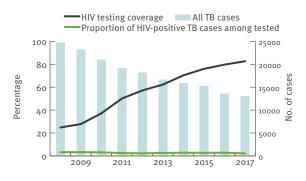
### New and relapsed TB cases – notification rates by age group, 2008–2017



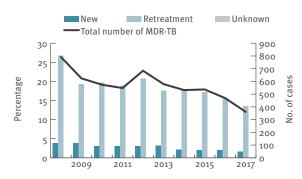
### TB cases by geographical origin, 2008-2017

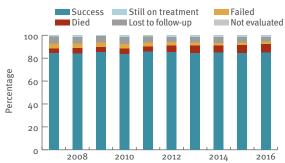


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





### **Russia Federation**

#### TB case notifications, 2017

| Total number of cases                                       | 114 187    |         |
|---|------------|---------|
| Notification rate per 100 000b                              | 79.3       |         |
| New <sup>a</sup> and relapses                               | 84 510     |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 58.7       |         |
| Pulmonary   | 77 574     | (91.8%) |
| of which smear-positive                                     | -          | -       |
| of which laboratory-confirmed                               | 40 254     | (51.9%) |
| Laboratory-confirmed TB casesba                             | 59 036     | (51.7%) |
| Mean age of new and relapse TB cases                        | 41.4 years |         |
| Mean age of new foreign TB cases                            | -          | years   |
| Foreign origin of all TB cases                              | 2 498      | (2.2%)  |
| New (not previously treated)                                | 70 861     | (62.1%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.
<sup>b</sup> UN Population Division estimates are lower than the population registered by the Federal State Statistics Service of the Russian Federation.
<sup>ba</sup> New and relapses before start of treatment.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | ,           | /es       |
|---|-------------|-----------|
| Completeness of HIV datab   | ,           | res .     |
| Case-linked data reporting  | ,           | res .     |
| Cases with DST results  | -           | (91.3%)   |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 49 000 - 49 | 000-50000 |
| Pulmonary MDR-TB cases notified                                   | 22 817      | (42.4%)   |
| of which XDR-TB cases   | 3 562       | (17.4%)   |
| Notified MDR-TB   | 25 879      | (48.0%)   |
| of which XDR-TB cases   | 3 562       | (15.8%)   |
| TB cases tested for HIV   | 81 443      | (96.4%)   |
| HIV-positive TB cases   | 15 695      | (19.3%)   |
| of these on ART   | 9 748       | (62.1%)   |

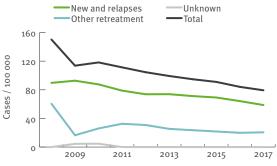
<sup>&</sup>lt;sup>a</sup> National coverage 100% or culturing ≥ 90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA ≥ 95%. <sup>b</sup> More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

| Geographical coverage      | Nat   | ional   |   |         |
|----------------------------|---|---------|---|---------|
| Outcome cohort             | New and relapsed<br>TB cases notified<br>in 2016 <sup>a</sup> |         | All RR/MDR-TB<br>cases enrolled int<br>second-line treatm<br>in 2015 <sup>b</sup> |         |
| Case-linked data reporting | Υ   | es      |   |         |
| Cases notified             | 73 137  |         | 22  | 607     |
| Success                    | 52 335  | (71.6%) | 12 117  | (53.6%) |
| Died                       | 7 423   | (10.1%) | 3 55 4  | (15.7%) |
| Failed                     | 4 6 0 2   | (6.3%)  | 2 778   | (12.3%) |
| Lost to follow-up          | 3 541   | (4.8%)  | 1909  | (8.4%)  |
| Not evaluated              | 5 236   | (7.2%)  | 2 249   | (9.9%)  |
|                            |   |         |   |         |

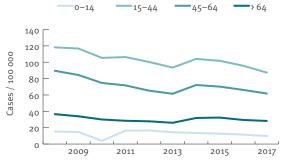
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

#### TB notification rates by treatment history, 2008-2017



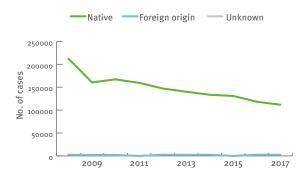
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

#### New and relapsed TB cases - notification rates by age group, 2008-2017

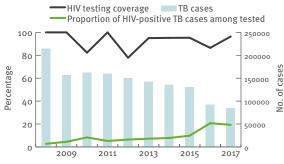


<sup>a</sup> Data up to 2012 includes new TB cases only

### TB cases by geographical origin, 2008-2017

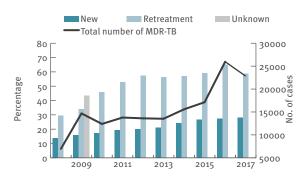


### TB/HIV coinfection, 2008-2017a

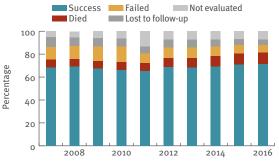


<sup>a</sup> Data up to 2014 include all TB cases.

### MDR-TB cases by previous treatment history, 2008-2017



### Treatment outcome, new and relapsed TB cases, 2007-2016a



a 2007-2011 cohorts include new cases only.

### Serbia

Population estimate 2017 by UN Statistical Database: 8 790 574

#### TB case notifications, 2017

| Total number of cases                                       | 1 466 |         |
|---|-------|---------|
| Notification rate per 100 000                               | 16.7  |         |
| New <sup>a</sup> and relapses                               | 1 450 |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 16.5  |         |
| Pulmonary   | 1 135 | (78.3%) |
| of which microscopy-positive                                | -     | -       |
| of which laboratory-confirmed                               | 781   | (68.8%) |
| Laboratory-confirmed TB cases                               | 783   | (53.4%) |
| Mean age of new native TB cases                             | 49.8  | years   |
| Mean age of new foreign TB cases                            | -     | years   |
| Foreign origin of all TB cases                              | 0     | (0.0%)  |
| New (not previously treated)                                | 1354  | (92.4%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| No          |   |
|-------------|---|
| No          |   |
| Yes         |   |
| 357 (45.6%) |   |
| 16-7-26     |   |
| 5           | (1.4%)                                    |
| 0           | (0.0%)                                    |
| 5           | (1.4%)                                    |
| 0           | -   |
| 71          | (4.9%)                                    |
| 8           | (11.3%)                                   |
| 8           | (100.0%)                                  |
|             | 357<br>16-<br>5<br>0<br>5<br>0<br>71<br>8 |

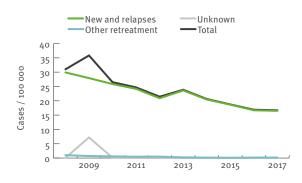
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ 775%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

| Geographical coverage      | Nat   | ional   |   |         |
|----------------------------|---|---------|---|---------|
| Outcome cohort             | New culture positive pulmonary TB cases notified in 2016 <sup>3</sup> All MDR-TB ca |         |   |         |
| Case-linked data reporting | ١   | 'es     |   |         |
| Cases notified             | 1   | 1 4 4 3 |   | 5       |
| Success                    | 1 191   | (82.5%) | 4 | (80.0%) |
| Died                       | 100   | (6.9%)  | 0 | (0.0%)  |
| Failed                     | 9   | (0.6%)  | 1 | (20.0%) |
| Lost to follow-up          | 88  | (6.1%)  | 0 | (0.0%)  |
| Not evaluated              | 55  | (3.8%)  | 0 | (0.0%)  |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2008-2017



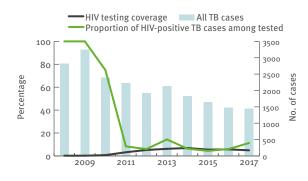
### New and relapsed TB cases – notification rates by age group, 2008–2017



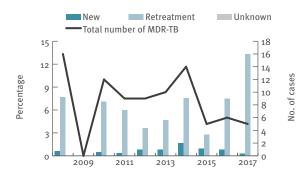
### TB cases by geographical origin, 2008-2017

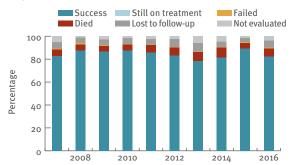


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





### Slovakia

Total population at 23 April 2018 by EUROSTAT: 5 435 343

#### TB case notifications, 2017

| Total number of cases                                       | 1    | 249     |
|---|------|---------|
| Notification rate per 100 000                               |      | 4.6     |
| New <sup>a</sup> and relapses                               | 1    | 228     |
| New <sup>a</sup> and relapses notification rate per 100 000 |      | 4.2     |
| Pulmonary   | 206  | (82.7%) |
| of which microscopy-positive                                | 76   | (36.9%) |
| of which laboratory-confirmed                               | 125  | (60.7%) |
| Laboratory-confirmed TB cases                               | 134  | (53.8%) |
| Mean age of new native TB cases                             | 43.0 | years   |
| Mean age of new foreign TB cases                            | 43.0 | years   |
| Foreign origin of all TB cases                              | 5    | (2.0%)  |
| New (not previously treated)                                | 208  | (83.5%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | ,           | res .   |
|---|-------------|---------|
| Completeness of HIV datab   | Yes         |         |
| Case-linked data reporting  | Yes         |         |
| Cases with DST results  | 134 (100.0% |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 10-         | -2-18   |
| Pulmonary MDR-TB cases notified                                   | 5           | (4.0%)  |
| of which XDR-TB cases   | 2           | (40.0%) |
| Notified MDR-TB   | 6           | (4.5%)  |
| of which XDR-TB cases   | 2           | (33.3%) |
| TB cases tested for HIV   | 227         | (91.2%) |
| HIV-positive TB cases   | 0           | (0.0%)  |
| of these on ART   | 0           | -       |

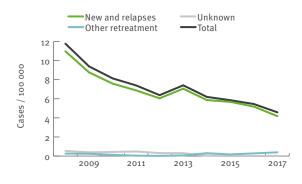
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

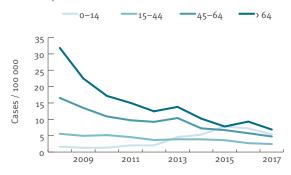
| Geographical coverage      | Na  | tional  |   |          |
|----------------------------|---|---------|---|----------|
| Outcome cohort             | New culture positive pulmonary TB cases notified in 2016 <sup>a</sup> All MDR-TB case |         |   |          |
| Case-linked data reporting |   | Yes     |   |          |
| Cases notified             | 93  |         |   | 2        |
| Success                    | 74  | (79.6%) | 0 | (0.0%)   |
| Died                       | 17  | (18.3%) | 2 | (100.0%) |
| Failed                     | 0   | (0.0%)  | 0 | (0.0%)   |
| Lost to follow-up          | 0   | (0.0%)  | 0 | (0.0%)   |
| Still on treatment         | 1   | (1.1%)  | 0 | (0.0%)   |
| Not evaluated              | 1   | (1.1%)  | 0 | (0.0%)   |
|                            |   |         |   |          |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

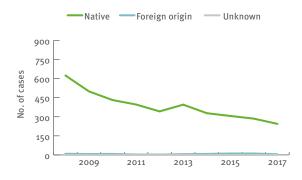
### TB notification rates by treatment history, 2008-2017



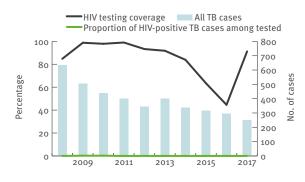
### New and relapsed TB cases – notification rates by age group, 2008-2017



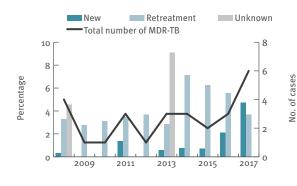
### TB cases by geographical origin, 2008-2017

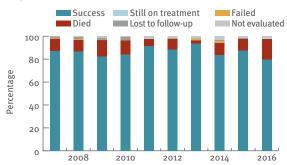


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





### Slovenia

Total population at 23 April 2018 by EUROSTAT: 2 065 895

#### TB case notifications, 2017

| Total number of cases                                       | 1          | 12      |
|---|------------|---------|
| Notification rate per 100 000                               | 5.4        |         |
| New <sup>a</sup> and relapses                               | 112        |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 5.4        |         |
| Pulmonary   | 91         | (81.3%) |
| of which microscopy-positive                                | 40         | (44.0%) |
| of which laboratory-confirmed                               | 89         | (97.8%) |
| Laboratory-confirmed TB cases                               | 109        | (97.3%) |
| Mean age of new native TB cases                             | 65.9       | years   |
| Mean age of new foreign TB cases                            | 54.3 years |         |
| Foreign origin of all TB cases                              | 46         | (41.1%) |
| New (not previously treated)                                | 107        | (95.5%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | ,          | Yes     |
|---|------------|---------|
| Completeness of HIV datab   | Yes        |         |
| Case-linked data reporting  | ,          | Yes     |
| Cases with DST results  | 109 (100.0 |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 0-         | -0-2    |
| Pulmonary MDR-TB cases notified                                   | 1          | (1.1%)  |
| of which XDR-TB cases   | 0          | (0.0%)  |
| Notified MDR-TB   | 1          | (0.9%)  |
| of which XDR-TB cases   | 0          | (0.0%)  |
| TB cases tested for HIV   | 77         | (68.8%) |
| HIV-positive TB cases   | 0          | (0.0%)  |
| of these on ART   | -          | -       |

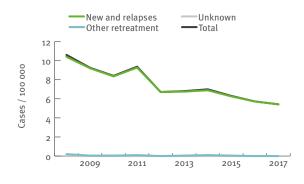
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

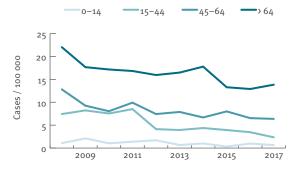
| Geographical coverage      | Nat     | tional                                    |   |                                  |
|----------------------------|---------|---|---|----------------------------------|
| Outcome cohort             | pulmona | ure positive<br>ry TB cases<br>d in 2016ª |   | TB cases<br>in 2015 <sup>b</sup> |
| Case-linked data reporting | ١       | /es                                       |   |                                  |
| Cases notified             | 93      |   | 0 |                                  |
| Success                    | 66      | (71.0%)                                   | 0 | -                                |
| Died                       | 18      | (19.4%)                                   | 0 | -                                |
| Failed                     | 0       | (0.0%)                                    | 0 | -                                |
| Lost to follow-up          | 0       | (0.0%)                                    | 0 | -                                |
| Still on treatment         | 7       | (7.5%)                                    | 0 | -                                |
| Not evaluated              | 2       | (2.2%)                                    | 0 | -                                |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

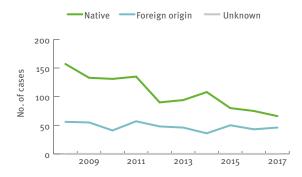
### TB notification rates by treatment history, 2008-2017



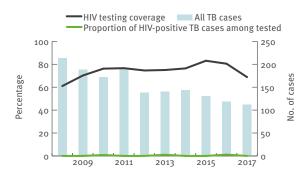
### New and relapsed TB cases – notification rates by age group, 2008-2017



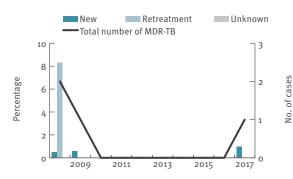
### TB cases by geographical origin, 2008-2017

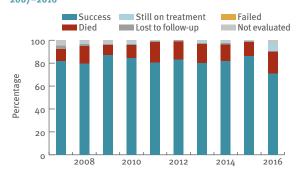


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008–2017





Total population at 23 April 2018 by EUROSTAT: 46 528 024

### TB case notifications, 2017

| Total number of cases                                       | 4 5    | 70      |
|---|--------|---------|
| Notification rate per 100 000                               | 9.     | 8       |
| New <sup>a</sup> and relapses                               | 4 3    | 79      |
| New <sup>a</sup> and relapses notification rate per 100 000 | 9.4    |         |
| Pulmonary   | 3 315  | (72.5%) |
| of which microscopy-positive                                | 1592   | (48.0%) |
| of which laboratory-confirmed                               | 2 625  | (79.2%) |
| Laboratory-confirmed TB cases                               | 3 216  | (70.4%) |
| Mean age of new native TB cases                             | 51.2 ) | rears   |
| Mean age of new foreign TB cases                            | 37.9 ) | rears   |
| Foreign origin of all TB cases                              | 1 352  | (29.6%) |
| New (not previously treated)                                | 4 379  | (95.8%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Υ          | es      |
|---|------------|---------|
| Completeness of HIV datab   | Υ          | es      |
| Case-linked data reporting  | Υ          | es      |
| Cases with DST results  | 969 (30.1% |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 17-12      | 0-210   |
| Pulmonary MDR-TB cases notified                                   | 16         | (1.7%)  |
| of which XDR-TB cases   | 0          | (0.0%)  |
| Notified MDR-TB   | 19         | (2.0%)  |
| of which XDR-TB cases   | 0          | (0.0%)  |
| TB cases tested for HIV   | 3 408      | (74.6%) |
| HIV-positive TB cases   | 277        | (8.1%)  |
| of these on ART   | -          | -       |

 $<sup>^</sup>a$  National coverage 100% or culturing  $\ge$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\ge$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

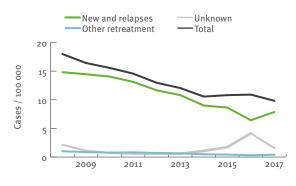
of cases

#### Treatment outcome monitoring

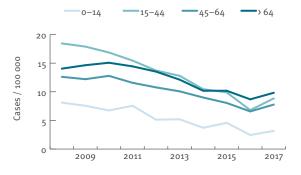
| Geographical coverage      | Nat     | tional                                    |                      |   |
|----------------------------|---------|---|----------------------|---|
| Outcome cohort             | pulmona | ure positive<br>ry TB cases<br>d in 2016ª | All MDR-<br>notified |   |
| Case-linked data reporting | ١       | /es                                       |                      |   |
| Cases notified             | 1794    |   | -                    | - |
| Success                    | 1257    | (70.1%)                                   | -                    | - |
| Died                       | 129     | (7.2%)                                    | -                    | - |
| Failed                     | 0       | (0.0%)                                    | -                    | - |
| Lost to follow-up          | 12      | (0.7%)                                    | -                    | - |
| Still on treatment         | 33      | (1.8%)                                    | -                    | - |
| Not evaluated              | 363     | (20.2%)                                   | -                    | - |
|                            |         |   |                      |   |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

### TB notification rates by treatment history, 2008-2017



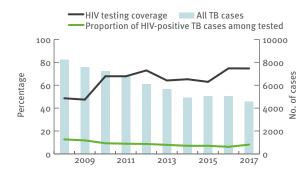
#### New and relapsed TB cases - notification rates by age group, 2008-2017



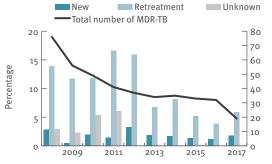
### TB cases by geographical origin, 2008-2017



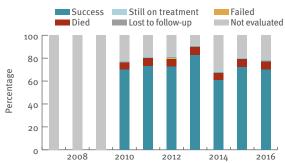
### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008-2017<sup>a</sup>



 $^{\rm a}$  In 2013, 2015 and 2016, only pulmonary MDR-TB cases were reported.



### Sweden

Total population at 23 April 2018 by EUROSTAT: 9 995 153

#### TB case notifications, 2017

| Total number of cases                                       | 5          | 20      |
|---|------------|---------|
| Notification rate per 100 000                               | 5          | .2      |
| New <sup>a</sup> and relapses                               | 488        |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 4.9        |         |
| Pulmonary   | 324        | (62.3%) |
| of which microscopy-positive                                | 104        | (32.1%) |
| of which laboratory-confirmed                               | 287        | (88.6%) |
| Laboratory-confirmed TB cases                               | 424        | (81.5%) |
| Mean age of new native TB cases                             | 56.8       | years   |
| Mean age of new foreign TB cases                            | 35.0 years |         |
| Foreign origin of all TB cases                              | 468        | (90.0%) |
| New (not previously treated)                                | 484        | (93.1%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | ,          | Yes    |
|---|------------|--------|
| Completeness of HIV datab   |            | -      |
| Case-linked data reporting  | ,          | Yes    |
| Cases with DST results  | 422 (99.59 |        |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 13-        | -5-20  |
| Pulmonary MDR-TB cases notified                                   | 9          | (3.2%) |
| of which XDR-TB cases   | 0          | (0.0%) |
| Notified MDR-TB   | 11         | (2.6%) |
| of which XDR-TB cases   | 0          | (0.0%) |
| TB cases tested for HIV   | -          | -      |
| HIV-positive TB cases   | -          | -      |
| of these on ART   | -          | -      |

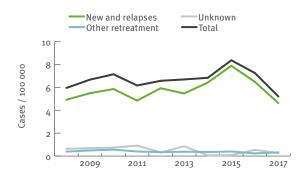
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

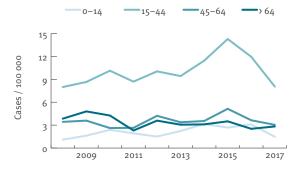
| Geographical coverage      | Nat     | ional  |    |         |
|----------------------------|---------|--|----|---------|
| Outcome cohort             | pulmona | culture positive<br>nonary TB cases<br>tified in 2016 <sup>a</sup> All MDR-TB cases<br>notified in 2015 <sup>b</sup> |    |         |
| Case-linked data reporting | Υ       | 'es  |    |         |
| Cases notified             | 370     |  | 22 |         |
| Success                    | 326     | (88.1%)  | 20 | (90.9%) |
| Died                       | 10      | (2.7%)   | 0  | (0.0%)  |
| Failed                     | 0       | (0.0%)   | 0  | (0.0%)  |
| Lost to follow-up          | 5       | (1.4%)   | 0  | (0.0%)  |
| Still on treatment         | 10      | (2.7%)   | 1  | (4.5%)  |
| Not evaluated              | 19      | (5.1%)   | 1  | (4.5%)  |

 $<sup>^{\</sup>rm a}$  Treatment outcome as presented is treatment outcome after 12 months.  $^{\rm b}$  Treatment outcome as presented is treatment outcome after 24 months.

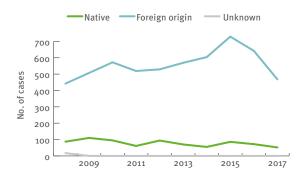
### TB notification rates by treatment history, 2008-2017



### New and relapsed TB cases – notification rates by age group, 2008–2017



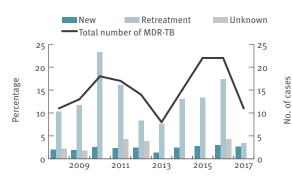
### TB cases by geographical origin, 2008-2017

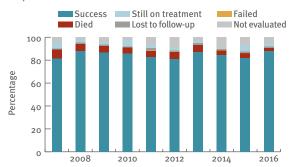


### TB/HIV coinfection, 2008-2017

Data not available

### MDR-TB cases by previous treatment history, 2008–2017





### **Switzerland**

#### TB case notifications, 2017

| Total number of cases                                       | 5    | 555     |
|---|------|---------|
| Notification rate per 100 000                               | 6.5  |         |
| New <sup>a</sup> and relapses                               | 5    | 29      |
| New <sup>a</sup> and relapses notification rate per 100 000 | 6    | 5.2     |
| Pulmonary   | 379  | (71.6%) |
| of which smear-positive                                     | -    | -       |
| of which laboratory-confirmed                               | 348  | (91.8%) |
| Laboratory-confirmed TB cases                               | 364  | (65.6%) |
| Mean age of new and relapse TB cases                        | 38.1 | years   |
| Mean age of new foreign TB cases                            | -    | years   |
| Foreign origin of all TB cases                              | 366  | (65.9%) |
| New (not previously treated)                                | 529  | (95.3%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Yes        |        |
|---|------------|--------|
| Completeness of HIV datab   | No         |        |
| Case-linked data reporting  | Yes        |        |
| Cases with DST results  | 276 (75.8% |        |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 19-        | 9-29   |
| Pulmonary MDR-TB cases notified                                   | 8          | (2.9%) |
| of which XDR-TB cases   | 0          | (0.0%) |
| Notified MDR-TB   | 9          | (3.3%) |
| of which XDR-TB cases   | 0          | -      |
| TB cases tested for HIV   | -          | -      |
| HIV-positive TB cases   | -          | -      |
| of these on ART   | -          | -      |

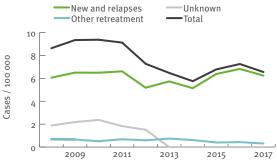
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

| Geographical coverage      | Nat   | ional   |   |         |
|----------------------------|---|---------|---|---------|
| Outcome cohort             | New culture positive pulmonary TB cases notified in 2016 <sup>a</sup> All MDR-TB case |         |   |         |
| Case-linked data reporting | Υ   | 'es     |   |         |
| Cases notified             |   | 565     |   | 16      |
| Success                    | 384   | (68.0%) | 7 | (43.8%) |
| Died                       | 10  | (1.8%)  | 0 | (0.0%)  |
| Failed                     | 1   | (0.2%)  | 0 | (0.0%)  |
| Lost to follow-up          | 9   | (1.6%)  | 1 | (6.3%)  |
| Not evaluated              | 161   | (28.5%) | 8 | (50.0%) |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

### TB notification rates by treatment history, 2008-2017



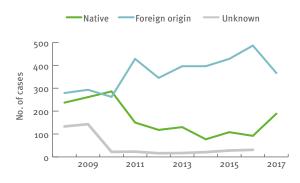
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

#### New and relapsed TB cases - notification rates by age group, 2008-2017ª



<sup>a</sup> Data up to 2012 includes new TB cases only.

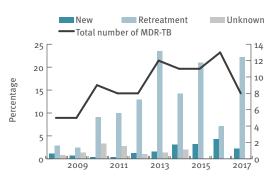
### TB cases by geographical origin, 2008-2017



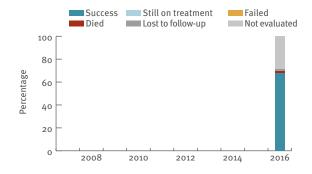
### TB/HIV coinfection, 2008–2017

Data not available

### MDR-TB cases by previous treatment history, 2008-2017



### Treatment outcome, new and relapsed TB cases, 2007-2016



### **Tajikistan**

Population estimate 2017 by UN Statistical Database: 8 921 343

#### TB case notifications, 2017

| Total number of cases                                       | 6       | 279     |
|---|---------|---------|
| Notification rate per 100 000                               | 70.4    |         |
| New <sup>a</sup> and relapses                               | 5 895   |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 66.1    |         |
| Pulmonary   | 4 119   | (69.9%) |
| of which smear-positive                                     | -       | -       |
| of which laboratory-confirmed                               | 2 820   | (68.5%) |
| Laboratory-confirmed TB cases                               | 3 084   | (49.1%) |
| Mean age of new and relapse TB cases                        | 36.0    | years   |
| Mean age of new foreign TB cases                            | - years |         |
| Foreign origin of all TB cases                              | 0       | (0.0%)  |
| New (not previously treated)                                | 5 231   | (83.3%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | 1     | No       |
|---|-------|----------|
| Completeness of HIV data <sup>b</sup>                             | Υ     | 'es      |
| Case-linked data reporting  | Υ     | es       |
| Cases with DST results  | 3 084 | (100.0%) |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 940-8 | 70-1000  |
| Pulmonary MDR-TB cases notified                                   | 546   | (84.0%)  |
| of which XDR-TB cases   | 279   | (54.9%)  |
| Notified MDR-TB   | 643   | (20.8%)  |
| of which XDR-TB cases   | 122   | (26.3%)  |
| TB cases tested for HIV   | 5 937 | (100.7%) |
| HIV-positive TB cases   | 219   | (3.7%)   |
| of these on ART   | 117   | (53.4%)  |
|   |       |          |

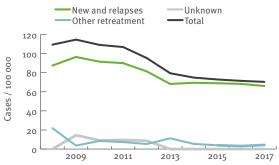
 $<sup>^</sup>a$  National coverage 100% or culturing  $\ge$  90%, C+/all TB cases  $\gt$  50%, DST done for C+  $\gt$  75%, EQA  $\ge$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

| Geographical coverage      | Nat     | ional                             |                        |  |
|----------------------------|---------|-----------------------------------|------------------------|--|
| Outcome cohort             | TB case | l relapsed<br>s notified<br>1016° | cases er<br>second-lii | /MDR-TB<br>nrolled into<br>ne treatment<br>2015 <sup>b</sup> |
| Case-linked data reporting | Υ       | 'es                               |                        |  |
| Cases notified             | 5       | 324                               | (                      | 582  |
| Success                    | 4 751   | (89.2%)                           | 398                    | (58.4%)  |
| Died                       | 228     | (4.3%)                            | 122                    | (17.9%)  |
| Failed                     | 104     | (2.0%)                            | 54                     | (7.9%)   |
| Lost to follow-up          | 198     | (3.7%)                            | 100                    | (14.7%)  |
| Not evaluated              | 43      | (0.8%)                            | 8                      | (1.2%)   |

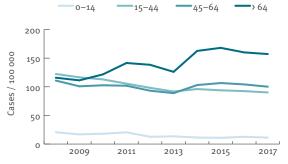
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2008-2017



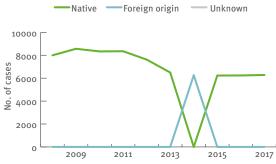
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

### New and relapsed TB cases – notification rates by age group, 2008–2017<sup>a</sup>



<sup>a</sup> Data up to 2012 includes new TB cases only.

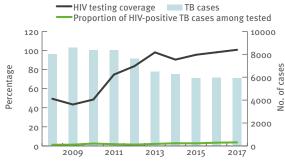
### TB cases by geographical origin, 2008-2017



### is cases by geograpment origin, 2000–201/

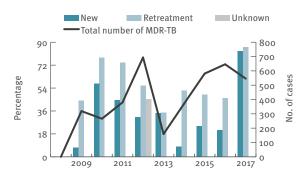


### TB/HIV coinfection, 2008-2017a

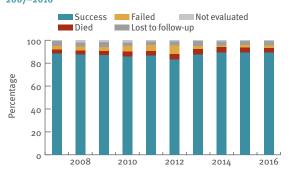


<sup>a</sup> Data up to 2014 include all TB cases.

### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome, new culture-confirmed pulmonary TB cases, 2007–2016<sup>a</sup>



<sup>a</sup> 2007–2011 cohorts include new cases only.

### Turkey

Population estimate 2017 by UN Statistical Database: 80 745 020

#### TB case notifications, 2017

| Total number of cases                                       | 12     | 046     |
|---|--------|---------|
| Notification rate per 100 000                               | 14     | 4.9     |
| New <sup>a</sup> and relapses                               | 11     | 821     |
| New <sup>a</sup> and relapses notification rate per 100 000 | 14     | 4.6     |
| Pulmonary (new and relapse)                                 | 7 767  | (65.7%) |
| of which smear-positive                                     | -      | -       |
| of which laboratory-confirmed                               | 6 162  | (79.3%) |
| Laboratory-confirmed TB cases                               | 6 338  | (52.6%) |
| Mean age of new and relapse TB cases                        | 44.2   | years   |
| Mean age of new foreign TB cases                            | -      | years   |
| Foreign origin of all TB cases                              | 1 107  | (9.2%)  |
| New (not previously treated)                                | 11 101 | (92.2%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Υ     | es      |
|---|-------|---------|
| Completeness of HIV datab   | Υ     | es      |
| Case-linked data reporting  | Υ     | es      |
| Cases with DST results  | 5 460 | (86.1%) |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 350-3 | 10-390  |
| Pulmonary MDR-TB cases notified                                   | 182   | (3.3%)  |
| of which XDR-TB cases   | 2     | (2.0%)  |
| Notified MDR-TB   | 239   | (4.4%)  |
| of which XDR-TB cases   | 2     | (1.7%)  |
| TB cases tested for HIV   | 8 423 | (71.3%) |
| HIV-positive TB cases   | 65    | (0.8%)  |
| of these on ART   | 51    | (78.5%) |

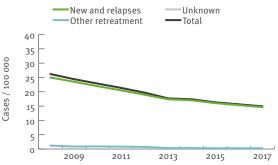
 $<sup>^</sup>a$  National coverage 100% or culturing  $\ge$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\ge$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

| Geographical coverage      | Nati     | onal                         |   |         |
|----------------------------|----------|------------------------------|---|---------|
| Outcome cohort             | TB cases | relapsed<br>notified<br>016ª | All RR/MDR-TB<br>cases enrolled into<br>second-line treatme<br>in 2015 <sup>b</sup> |         |
| Case-linked data reporting | Υ        | es                           |   |         |
| Cases notified             | 12       | 017                          | 2   | 230     |
| Success                    | 10 462   | (87.1%)                      | 156   | (67.8%) |
| Died                       | 705      | (5.9%)                       | 15  | (6.5%)  |
| Failed                     | 32       | (0.3%)                       | 18  | (7.8%)  |
| Lost to follow-up          | 325      | (2.7%)                       | 26  | (11.3%) |
| Not evaluated              | 493      | (4.1%)                       | 15  | (6.5%)  |

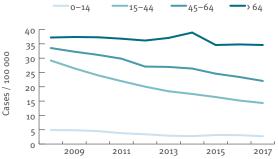
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

#### TB notification rates by treatment history, 2008-2017



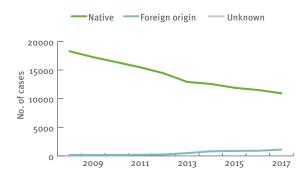
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

### New and relapsed TB cases – notification rates by age group, 2008–2017<sup>a</sup>

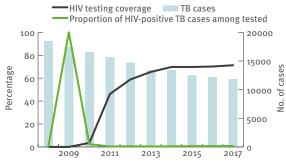


<sup>a</sup> Data up to 2012 includes new TB cases only.

### TB cases by geographical origin, 2008-2017

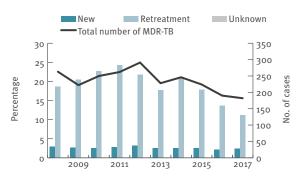


### TB/HIV coinfection, 2008-2017a

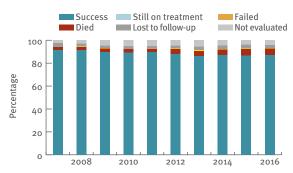


<sup>a</sup> Data up to 2014 include all TB cases.

### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome, new and relapsed TB cases, 2007–2016<sup>a</sup>



<sup>a</sup> 2007–2011 cohorts include new cases only.

### **Turkmenistan**

Population estimate 2017 by UN Statistical Database: 5 758 07

#### TB case notifications, 2017

| Total number of cases                                       | 2    | 232     |
|---|------|---------|
| Notification rate per 100 000                               | 38   | 3.8     |
| New <sup>a</sup> and relapses                               | 15   | 968     |
| New <sup>a</sup> and relapses notification rate per 100 000 | 3    | 4.2     |
| Pulmonary   | 1488 | (75.6%) |
| of which smear-positive                                     | -    | -       |
| of which laboratory-confirmed                               | 693  | (46.6%) |
| Laboratory-confirmed TB cases                               | 921  | (41.3%) |
| Mean age of new and relapse TB cases                        | 38.4 | years   |
| Mean age of new foreign TB cases                            | -    | years   |
| Foreign origin of all TB cases                              | 0    | (0.0%)  |
| New (not previously treated)                                | 1880 | (84.2%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             |               | No      |
|---|---------------|---------|
| Completeness of HIV datab   | No            |         |
| Case-linked data reporting  | Yes           |         |
| Cases with DST results  | 1 085 (100.0% |         |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 450-3         | 90-520  |
| Pulmonary MDR-TB cases notified                                   | -             | -       |
| of which XDR-TB cases   | -             | -       |
| Notified MDR-TB   | 343           | (31.6%) |
| of which XDR-TB cases   | 6             | -       |
| TB cases tested for HIV   | -             | -       |
| HIV-positive TB cases   | -             | -       |
| of these on ART   | -             | -       |

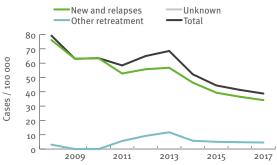
 $<sup>^</sup>a$  National coverage 100% or culturing 90%, C+/all TB cases >50%, DST done for C+ >75%, EQA ≥95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

| Geographical coverage      | Nat      | ional                           |  |         |
|----------------------------|----------|---------------------------------|--|---------|
| Outcome cohort             | TB case: | relapsed<br>s notified<br>1016° | All RR/MDR-TB<br>cases enrolled into<br>second-line treatmen<br>in 2015 <sup>b</sup> |         |
| Case-linked data reporting | Υ        | es                              |  |         |
| Cases notified             | 2        | 068                             |  | 210     |
| Success                    | 1 738    | (84.0%)                         | 142  | (67.6%) |
| Died                       | 84       | (4.1%)                          | 23   | (11.0%) |
| Failed                     | 85       | (4.1%)                          | 31   | (14.8%) |
| Lost to follow-up          | 102      | (4.9%)                          | 14   | (6.7%)  |
| Not evaluated              | 59       | (2.9%)                          | 0  | (0.0%)  |

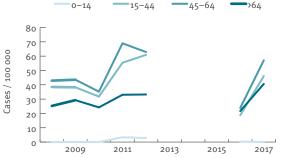
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

### TB notification rates by treatment history, 2008-2017



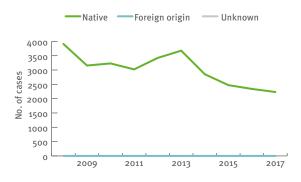
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

### New and relapsed TB cases – notification rates by age group, $2008-2017^a$



<sup>&</sup>lt;sup>a</sup> Data up to 2012 includes new TB cases only

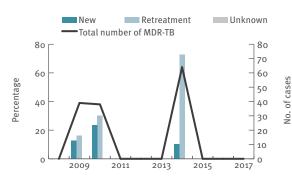
### TB cases by geographical origin, 2008-2017



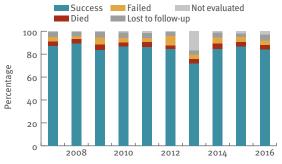
### TB/HIV coinfection, 2006-2014

Data not available

### MDR-TB cases by previous treatment history, 2008–2017



### Treatment outcome of new TB cases, 2007-2016<sup>a</sup>



<sup>&</sup>lt;sup>a</sup> 2007–2011 cohorts include new cases only.

### Ukraine

Population estimate 2017 by UN Statistical Database: 44 222 947

#### TB case notifications, 2017

| Total number of cases                                     | 31     | 584     |
|---|--------|---------|
| Notification rate per100000                               | 71     | 1.4     |
| New <sup>a</sup> and relapses                             | 27     | 229     |
| New <sup>a</sup> and relapses notification rate per100000 | 6      | 1.6     |
| Pulmonary   | 24 735 | (90.8%) |
| of which smear-positive                                   | -      | -       |
| of which laboratory-confirmed                             | 16 561 | (67.0%) |
| Laboratory-confirmed TB cases                             | 20 052 | (63.5%) |
| Mean age of new and relapse TB cases                      | 42.9   | years   |
| Mean age of new foreign TB cases                          | -      | years   |
| Foreign origin of all TB cases                            | 26     | (0.1%)  |
| New (not previously treated)                              | 21 899 | (69.3%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Υ        | 'es       |
|---|----------|-----------|
| Completeness of HIV datab   | Υ        | 'es       |
| Case-linked data reporting  | Yes      |           |
| Cases with DST results  | 18 624   | (92.9%)   |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 10000-98 | 300-10000 |
| Pulmonary MDR-TB cases notified                                   | 5 0 0 8  | (26.9%)   |
| of which XDR-TB cases   | 1001     | (20.0%)   |
| Notified MDR-TB   | 6 501    | (34.9%)   |
| of which XDR-TB cases   | 1 0 9 7  | (16.6%)   |
| TB cases tested for HIV   | 26 623   | (97.8%)   |
| HIV-positive TB cases   | 5 955    | (22.4%)   |
| of these on ART   | 4 426    | (74.3%)   |

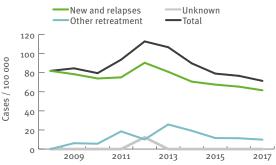
 $<sup>^</sup>a$  National coverage 100% or culturing  $\geq$  90%, C+/all TB cases > 50%, DST done for C+ > 75%, EQA  $\geq$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

### Treatment outcome monitoring

| Geographical coverage      | Nat      | ional                          |  |         |
|----------------------------|----------|--------------------------------|--|---------|
| Outcome cohort             | TB case: | relapsed<br>s notified<br>o16ª | All RR/MDR-TB<br>cases enrolled int<br>second-line treatme<br>in 2015 <sup>b</sup> |         |
| Case-linked data reporting | Υ        | es                             |  |         |
| Cases notified             | 22       | 615                            | 7  | 592     |
| Success                    | 17 234   | (76.2%)                        | 3 855  | (50.8%) |
| Died                       | 2 140    | (9.5%)                         | 1193   | (15.7%) |
| Failed                     | 1760     | (7.8%)                         | 1 2 2 0  | (16.1%) |
| Lost to follow-up          | 1387     | (6.1%)                         | 1 257  | (16.6%) |
| Not evaluated              | 94       | (0.4%)                         | 67   | (0.9%)  |

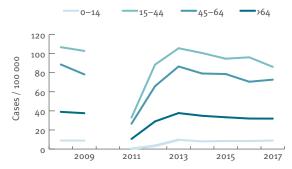
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

TB notification rates by treatment history, 2008-2017



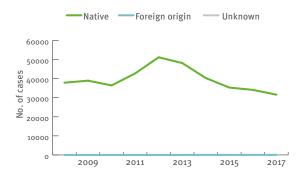
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

### New and relapsed TB cases – notification rates by age group, 2008–2017<sup>a</sup>

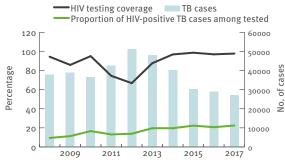


 $<sup>^{\</sup>rm a}$  Data up to 2012 includes new TB cases only.

### TB cases by geographical origin, 2008-2017

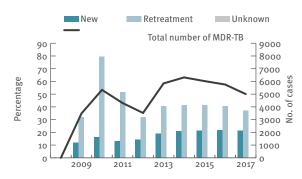


### TB/HIV coinfection, 2008-2017a

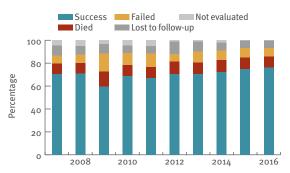


<sup>&</sup>lt;sup>a</sup> Data up to 2014 include all TB cases.

### MDR-TB cases by previous treatment history, 2008-2017



### Treatment outcome, new and relapsed TB cases, 2007–2016<sup>a</sup>



 $<sup>^{\</sup>rm a}$  2007–2011 cohorts include new cases only.

# United Kingdom Total population at 23 April 2018 by EUROSTAT: 65 808 573

### TB case notifications, 2017

| Total number of cases                                       | 5 567      |         |
|---|------------|---------|
| Notification rate per 100 000                               | 8.5        |         |
| New <sup>a</sup> and relapses                               | 5 248      |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 8.0        |         |
| Pulmonary   | 3 048      | (54.8%) |
| of which microscopy-positive                                | 1 2 0 2    | (39.4%) |
| of which laboratory-confirmed                               | 2 287      | (75.0%) |
| Laboratory-confirmed TB cases                               | 3 478      | (62.5%) |
| Mean age of new native TB cases                             | 43.3 years |         |
| Mean age of new foreign TB cases                            | 42.0 years |         |
| Foreign origin of all TB cases                              | 3 797      | (68.2%) |
| New (not previously treated)                                | 5 248      | (94.3%) |
|   |            |         |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2017

| Completeness of DRS data <sup>a</sup>                             | Υ        | es      |
|---|----------|---------|
| Completeness of HIV datab   | Yes      |         |
| Case-linked data reporting  | Yes      |         |
| Cases with DST results  | 3 400    | (97.8%) |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 55-36-74 |         |
| Pulmonary MDR-TB cases notified                                   | 32       | (1.4%)  |
| of which XDR-TB cases   | 3        | (10.0%) |
| Notified MDR-TB   | 47       | (1.4%)  |
| of which XDR-TB cases   | 3        | (6.8%)  |
| TB cases tested for HIV   | 4 671    | (83.9%) |
| HIV-positive TB cases   | 138      | (3.0%)  |
| of these on ART   | 115      | (83.3%) |
|   |          |         |

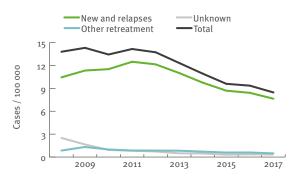
 $<sup>^</sup>a$  National coverage 100% or culturing  $\ge$  90%, C+/all TB cases  $\gt$  50%, DST done for C+  $\gt$  75%, EQA  $\ge$  95%.  $^b$  More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

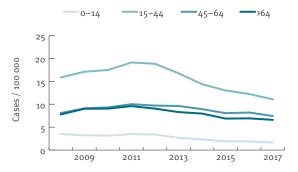
| Geographical coverage      | Nat   | ional   |    |                                      |
|----------------------------|---|---------|----|--------------------------------------|
| Outcome cohort             | New culture positive<br>pulmonary TB cases<br>notified in 2016 <sup>a</sup> |         |    | R-TB cases<br>d in 2015 <sup>b</sup> |
| Case-linked data reporting | ١   | 'es     |    |                                      |
| Cases notified             | 2 284   |         |    | 48                                   |
| Success                    | 1736  | (76.0%) | 29 | (60.4%)                              |
| Died                       | 155   | (6.8%)  | 3  | (6.3%)                               |
| Failed                     | 0   | (0.0%)  | 0  | (0.0%)                               |
| Lost to follow-up          | 118   | (5.2%)  | 3  | (6.3%)                               |
| Still on treatment         | 209   | (9.2%)  | 10 | (20.8%)                              |
| Not evaluated              | 66  | (2.9%)  | 3  | (6.3%)                               |
|                            |   |         |    |                                      |

<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

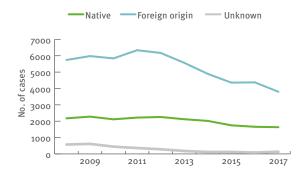
### TB notification rates by treatment history, 2008-2017



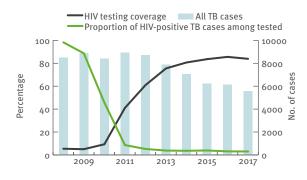
#### New and relapsed TB cases - notification rates by age group, 2008-2017



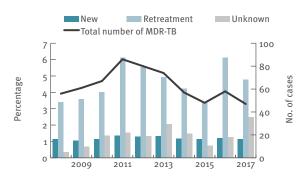
### TB cases by geographical origin, 2008-2017

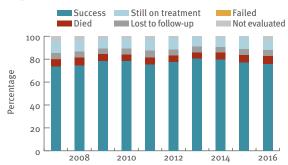


### TB/HIV coinfection, 2008-2017



### MDR-TB cases by previous treatment history, 2008-2017





#### TB case notifications, 2017

| Total number of cases                                       | 19         | 329     |
|---|------------|---------|
| Notification rate per 100 000                               | 60.6       |         |
| New <sup>a</sup> and relapses                               | 16 842     |         |
| New <sup>a</sup> and relapses notification rate per 100 000 | 52.8       |         |
| Pulmonary (new and relapse)                                 | 11 179     | (66.4%) |
| of which smear-positive                                     | -          | -       |
| of which laboratory-confirmed                               | 5 7 0 5    | (51.0%) |
| Laboratory-confirmed TB cases                               | 8 192      | (42.4%) |
| Mean age of new and relapse TB cases                        | 40.3 years |         |
| Mean age of new foreign TB cases                            | - years    |         |
| Foreign origin of all TB cases                              | 0          | (0.0%)  |
| New (not previously treated)                                | 14 553     | (75.3%) |

<sup>&</sup>lt;sup>a</sup> Cases with unknown previous treatment included in new cases.

### Drug resistance surveillance and TB/HIV coinfection, 2016

| Completeness of DRS data <sup>a</sup>                             | No             |          |
|---|----------------|----------|
| Completeness of HIV data <sup>b</sup>                             | Yes            |          |
| Case-linked data reporting  | Yes            |          |
| Cases with DST results  | 6 526 (79.7%)  |          |
| Estimated RR-TB among notified pulmonary cases N, (best-low-high) | 3900-3800-4100 |          |
| Pulmonary MDR-TB cases notified                                   | 540            | (10.7%)  |
| of which XDR-TB cases   | 0              | (0.0%)   |
| Notified MDR-TB   | 1 857          | (28.5%)  |
| of which XDR-TB cases   | 0              | (0.0%)   |
| TB cases tested for HIV   | 16 842         | (100.0%) |
| HIV-positive TB cases   | 935            | (5.6%)   |
| of these on ART   | 935            | (100.0%) |

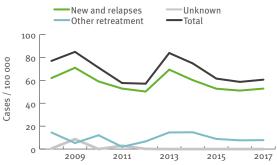
<sup>&</sup>lt;sup>a</sup> National coverage 100% or culturing 90%, C+/all TB cases 50%, DST done for C+75%, EQA 95%. <sup>b</sup> More than 50% of TB cases with reported HIV status.

#### Treatment outcome monitoring

| Geographical coverage      | Nati  | onal    |                        |  |
|----------------------------|---|---------|------------------------|--|
| Outcome cohort             | New and relapsed<br>TB cases notified<br>in 2016 <sup>a</sup> |         | cases en<br>second-lin | MDR-TB<br>rolled into<br>le treatment<br>2015 <sup>b</sup> |
| Case-linked data reporting | Yes   |         |                        |  |
| Cases notified             | 14 743  |         | 2                      | 149  |
| Success                    | 12 906  | (87.5%) | 1 259                  | (58.6%)  |
| Died                       | 639   | (4.3%)  | 357                    | (16.6%)  |
| Failed                     | 219   | (1.5%)  | 153                    | (7.1%)   |
| Lost to follow-up          | 311   | (2.1%)  | 167                    | (7.8%)   |
| Not evaluated              | 668   | (4.5%)  | 213                    | (9.9%)   |

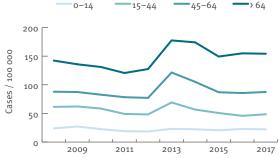
<sup>&</sup>lt;sup>a</sup> Treatment outcome as presented is treatment outcome after 12 months. <sup>b</sup> Treatment outcome as presented is treatment outcome after 24 months.

#### TB notification rates by treatment history, 2008-2017



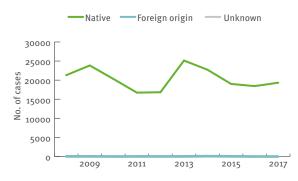
<sup>a</sup> Starting from 2013 onward, cases with unknown history are included in new and relapses.

#### New and relapsed TB cases - notification rates by age group, 2008-2017

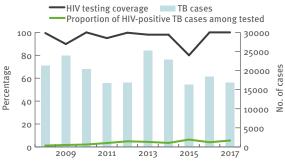


<sup>&</sup>lt;sup>a</sup> Data up to 2012 includes new TB cases only.

### TB cases by geographical origin, 2008-2017

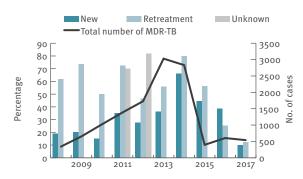


### TB/HIV coinfection, 2008-2017a

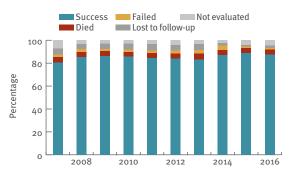


<sup>&</sup>lt;sup>a</sup> Data up to 2014 include all TB cases.

### MDR-TB cases by previous treatment history, 2008-2017



### Treatment outcome, new and relapsed TB cases, 2007-2016a



<sup>&</sup>lt;sup>a</sup> 2007–2011 cohorts include new cases only.



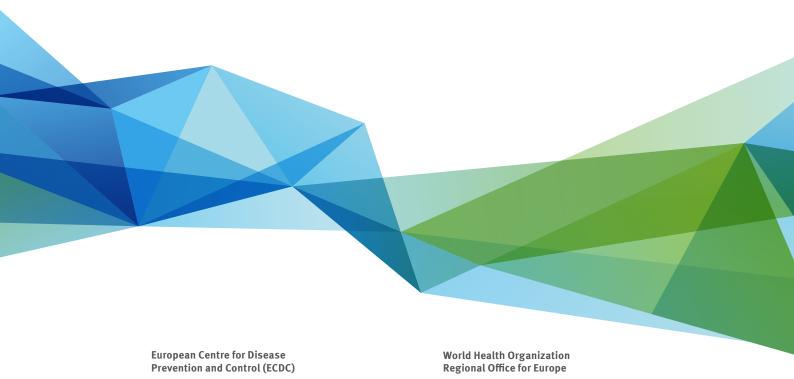
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