

The burden of MDR TB

Tuberculosis (TB)

is a serious and sometimes lethal infectious bacterial disease which most commonly affects the lungs. It is usually caused by *Mycobacterium tuberculosis*

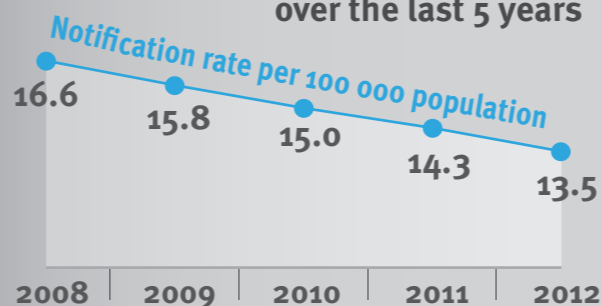


One untreated person with TB can infect **10–15** other individuals per year



187 people in the EU are diagnosed with TB every day

TB cases decreased 5% over the last 5 years



MDR TB

Multidrug-resistant tuberculosis

Patients with MDR TB do not respond to standard treatment (isoniazid and rifampicin)



Around **1 500** cases are reported in the EU every year

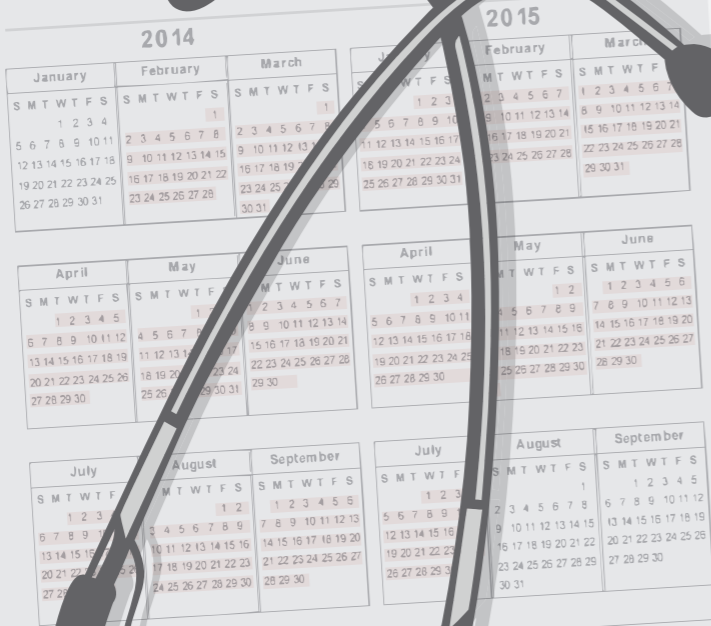


Drug resistance is a man-made phenomenon caused by:

- Poor quality drugs
- Unfinished treatment
- Inadequate use of drugs



MDR TB treatment causes substantial side effects like vomiting, deafness, blindness, depression and fatigue



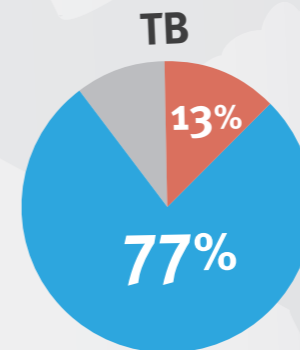
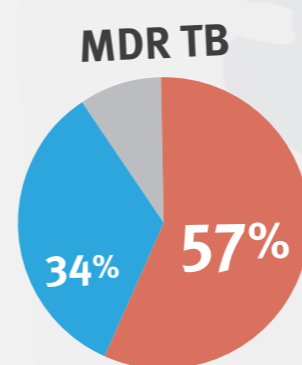
To treat TB it takes at least

6 months and 4 different drugs

To treat MDR TB it takes at least

18 months with on average 8 drugs

Europe fails to treat MDR TB



Treatment successful not successful unknown



Only 1 in 3 patients with MDR TB is treated successfully

Costs for treatment of multidrug-resistant TB are **5x** higher than for TB

Average cost per MDR TB case in the EU, 2012: **33 000 €**

Diel R et al., Costs of tuberculosis disease in the European Union: a systematic analysis and cost calculation. Eur Respir J. 2014;43(2):554-65.

Only **25%** of all patients with extensively drug-resistant TB finish treatment successfully

XDR TB

Extensive drug resistance
XDR TB is resistant to even more drugs than MDR TB and therefore extremely difficult to treat