

SURVEILLANCE REPORT

Interim COVID-19 vaccination coverage in the EU/EEA during the 2023-24 season campaigns

January 2024

Key facts

- In September 2023, ECDC updated its COVID-19 vaccination coverage data analysis process, in view of the evolving timing and objective of the 2023–24 season vaccination campaigns. This report presents an interim description of COVID-19 vaccine coverage in the European Union/European Economic Area (EU/EEA) between 1 September 2023 and January 2024.
- During the reporting period, 24/30 EU/EEA countries reported data on COVID-19 vaccination coverage for at least one target group (people aged 60 years and above, people aged 80 years and above, healthcare workers, individuals with chronic conditions, pregnant women).
- During this period, approximately 19.4 million people aged 60 years and above received one COVID-19 vaccine dose. Approximately 5.5 million people aged 80 years and above received one COVID-19 vaccine dose.
- The median COVID-19 vaccination coverage among people aged 60 years and above was 11.1% (range: 0.01–65.8%), with high variation among countries. For people aged 80 years and above, the median coverage was 16.3% (range: 0.01–88.2%), with high variation among countries.
- Among the 24 reporting countries, three countries reported a vaccination coverage ≥50% for the age
 group 60 years and above, while eight countries reported a vaccination coverage ≥50% for the age
 group 80 years and above.
- Most of the approximately 22.7 million COVID-19 vaccine doses administered in the EU/EEA during this
 period in the overall population were the Comirnaty Omicron XBB.1.5 (Pfizer BioNTech) vaccine (around
 22 million doses; 97% of the total doses administered).
- These preliminary results must be interpreted with caution. A higher degree of data consolidation and data completeness is expected in the coming weeks and months.

Introduction

In September 2023, ECDC updated its COVID-19 vaccination coverage data analysis process, in view of the evolving timing and objective of the vaccination campaigns in the 2023–24 season. This report presents an interim description of COVID-19 vaccine coverage in the EU/EEA between 1 September 2023 and 15 January 2024.

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Addendum – on 6 February 2024, the addendum 'Interim COVID-19 vaccination coverage in the EU/EEA during the 2023–24 season campaigns – Italy and Sweden' was published to present the data for Italy and Sweden, which was not yet available when this report was originally published.

In this report, COVID-19 vaccine coverage is defined as the percentage of the target population group that has received one dose of a COVID-19 vaccine during the reporting period. It represents the number of individuals in the total target group who received one vaccine dose during the period under analysis.

Since the start of COVID-19 vaccination campaigns in December 2020, ECDC has regularly collected and presented data on COVID-19 vaccine uptake in the EU/EEA through a <u>dynamic dashboard</u> and <u>open data files</u>. Since September 2023, ECDC has updated its COVID-19 vaccination coverage data analysis process and the related reports.

Methods

From 1 September 2023 to 15 January 2024, data were collected to describe vaccination coverage in the EU/EEA during the 2023–24 season. In particular, data were collected on the vaccine doses administered in population groups targeted by national vaccination programmes, regardless of an individual's previous immunisation status.

The methodology used for calculation was the number of doses administered per target group (numerator), divided by the number of individuals in the target group (denominator) multiplied by 100. Denominators for age-specific target groups were obtained from Eurostat, as of 2022 (extracted in November 2023). Denominators used for the groups healthcare workers, individuals with chronic illness and pregnant women were reported to TESSy by each country, when available.

Results

During the reporting period, 24/30 EU/EEA countries reported on COVID-19 vaccination coverage for at least one target group (people aged 60 years and above, people aged 80 years and above, healthcare workers, individuals with chronic conditions, pregnant women). However, data completeness for different target groups differed substantially across countries.

For the age group 60 years and above, approximately 19.4 million people received a dose of COVID-19 vaccine. The median coverage among people in this age group was 11.1% (range: 0.01-65.8%), with high variation across countries (Table 1 and Figure 1). Among the 24 countries reporting data for this target group, none reported a coverage $\geq 80\%$.

For the age group 80 years and above, approximately 5.5 million people received a dose of COVID-19 vaccine. The median coverage among people in this age group was 16.3% (range: 0.01-88.2%), with high variation across countries (Table 1 and Figure 2). Among the 24 countries reporting data for this target group, one country reported a coverage $\geq 80\%$ (Denmark; 88.2%).

Table 1. COVID-19 vaccine coverage in target age groups, 24 EU/EEA countries, 1 September 2023 to 15 January 2024

Age group	Median coverage in the EU/EEA ^a (range)	Number of countries with ≥80% coverage	Number of countries with ≥50% coverage	Number of countries with ≥30% coverage
60+ years	11.1% (0.01–65.8%)	0/24	3/24	9/24
80+ years	16.3% (0.01–88.2%)	1/24	8/24	10/24

^a Values are the median across all the reporting countries for one dose received. The reporting period may be different for some countries, as indicated in Table 2.

Figure 1. COVID-19 vaccine coverage among people aged 60 years and above, 24 EU/EEA countries, 1 September 2023 to 15 January 2024

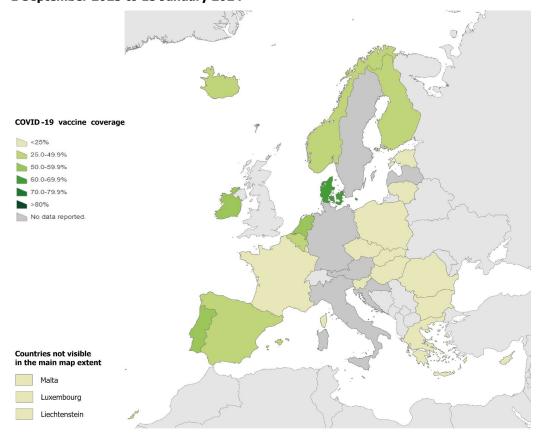
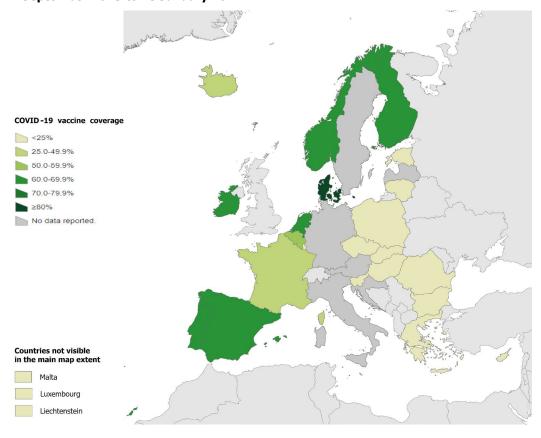


Figure 2. COVID-19 vaccine coverage among people aged 80 years and above, 24 EU/EEA countries, 1 September 2023 to 15 January 2024



Among the 24 countries reporting data, seven countries reported data disaggregated by at least one of the following target groups: healthcare workers, individuals with chronic conditions or pregnant women (Table 2). Healthcare workers were defined as those who work in healthcare settings who may come into contact with patients, including administrative staff and home care staff. Individuals with chronic conditions included any individual aged between 18–59 years with at least one underlying medical condition and a recommendation for COVID-19 vaccination. Pregnant women were defined as any pregnant individual during any trimester.

Among the seven countries that reported disaggregated data for healthcare workers, the highest vaccination coverage was observed in Belgium (20.9%). Two countries reported disaggregated data for individuals with chronic conditions, with the highest coverage observed in Spain (5.4%). Two countries reported disaggregated data for pregnant women, with the highest coverage observed in Ireland (18.3%).

Table 2. COVID-19 vaccine coverage by target group, 24 EU/EEA countries, 1 September 2023 to 15 January 2024

Country ^a	Aged 60–69 years ^b	Aged 70–79 years	Aged 80 years and above	Healthcare workers	Individuals with chronic conditions	Pregnant women
Belgium	37.0%	55.6%	57.2%	20.9%	NDR	NDR
Bulgaria	1.3%	2.9%	2.5%	0.6%	NDR	NDR
Cyprus	5.4%	14.9%	19.3%	NDR	NDR	NDR
Czechia	6.6%	13.2%	15.8%	6.9%	1.9%	NDR
Denmark	43.5%	80.4%	88.2%	NDR	NDR	NDR
Estonia	8.4%	14.1%	13.5%	NDR	NDR	NDR
Finland	31.3%	61.6%	61.5%	NDR	NDR	NDR
France	15.4%	30.8%	34.6%	11.7%	NDR	NDR
Greece	3.6%	5.6%	4.4%	2.8%	NDR	NDR
Hungary	0.2%	0.3%	0.3%	NDR	NDR	NDR
Iceland	25.7%	43.3%	46.2%	NDR	NDR	NDR
Ireland	37.1%	59.2%	67.7%	14.4%	NDR	18.3%
Liechtenstein	3.4%	6.9%	11.5%	NDR	NDR	NDR
Lithuania	1.5%	1.0%	1.0%	NDR	NDR	NDR
Luxembourg	7.5%	13.0%	16.7%	NDR	NDR	NDR
Malta	0.8%	0.5%	1.2%	NDR	NDR	NDR
Netherlandsc	38.8%	63.2%	67.2%	NDR	NDR	NDR
Norway	29.6%	60.2%	60.8%	NDR	NDR	NDR
Poland	2.1%	4.2%	2.7%	NDR	NDR	NDR
Portugal	41.0%	57.6%	62.1%	NDR	NDR	NDR
Romania	0.01%	0.01%	0.01%	NDR	NDR	NDR
Slovakia	1.1%	2.0%	1.6%	NDR	NDR	NDR
Slovenia	2.7%	6.1%	8.3%	NDR	NDR	NDR
Spain	29.6%	49.3%	61.5%	13.0%	5.4%	6.5%

NDR: no data reported

^a Countries that reported for a period other than 1 September 2023 to 15 January 2024 were: Belgium, Bulgaria, Czechia, Hungary, Iceland, Ireland, Estonia, Finland, Greece, Liechtenstein, Luxembourg, Lithuania, Malta, the Netherlands, Norway, Poland, Slovakia, Slovenia and Spain (from 1 September 2023 to 31 December 2023); Denmark and France (from 1 October 2023 to 31 December 2023); and Romania (from 1 November 2023 to 15 January 2024). ^b In some of the reporting countries, the COVID-19 vaccine is only recommended in people aged 65 years and above (Belgium, Denmark, Finland, France, Latvia, Lithuania, Liechtenstein, Norway, Slovakia, Slovenia and possibly others). Therefore, the vaccination coverage in this age group (60–69 years) needs to be interpreted with caution. ^c In the Netherlands, each individual receiving a COVID-19 dose must provide informed consent to the healthcare provider in order for their non-anonymous vaccination data to be shared with the national authorities. Therefore, data for this country need to be interpreted with caution, as they could underestimate the actual number of doses administered nationwide.

Across the 24 reporting countries, approximately 22.7 million COVID-19 vaccine doses have been administered during the reporting period among the total population (Table 3). Around 22 million doses (97% of the total doses administered) were the Comirnaty Omicron XBB.1.5 (Pfizer BioNTech) vaccine. Around 350 000 doses (1.55% of the total doses administered) were the Nuvaxovid XBB.1.5 (Novavax) vaccine. Approximately 56 000 doses (0.25% of the total doses administered) were the Spikevax XBB.1.5 (Moderna) vaccine and around 500 doses (<0.01% of the total doses administered) were the Bimervax (Hipra) vaccine. Approximately 240 000 doses (1.06% of the total doses administered) were reported as 'other vaccine product'. The remaining administered doses (11 408 doses) were reported as 'unknown vaccine product'.

Table 3. COVID-19 doses administered to people aged 18 years and above, by vaccine product, 24 EU/EEA countries, 1 September 2023 to 15 January 2024

Vaccine product (manufacturer – product name)	Number of doses administered	% of the total number of doses administered		
Hipra – Bimervax	486	<0.01%		
Pfizer BioNTech – Comirnaty Omicron XBB.1.5	22 018 987	97%		
Moderna – Spikevax XBB.1.5	56 175	0.25%		
Novavax – Nuvaxovid XBB.1.5	351 573	1.55%		
Other vaccine products ^a	239 811	1.06%		
Unknown vaccine product	11 408	0.05%		
All doses	22 702 234	NA		

NA: not applicable.

Limitations

These preliminary results must be interpreted with caution. This includes making comparisons across countries or analysis of any indicator aiming to describe the coverage in the EU/EEA as a whole. As the vaccination campaigns are ongoing, all possible factors should be considered, including data completeness and quality. A higher degree of data consolidation and data completeness is expected in the coming weeks and months.

Resources

ECDC has also created the following resources on this topic:

- <u>European Respiratory Virus Surveillance Summary dashboard</u>: Overview of respiratory virus epidemiology in the EU/EEA through an interactive dashboard of selected indicators.
- <u>ECDC vaccine tracker:</u> Historic data of selected indicators through an interactive dashboard covering week 50, 2020 to week 39, 2023.
- <u>ECDC open data files on COVID-19 vaccination in the EU/EEA:</u> Downloadable files with all historic row data available, covering week 50, 2020 to week 39, 2023. These files are intended for external users that are competent in data analysis.

^a Includes any other vaccine products targeting COVID-19 that were administered in the EU/EEA during the period under analysis.