

SURVEILLANCE REPORT

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

April 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 in the European Union/European Economic Area (EU/EEA). This report presents an interim description of COVID-19 vaccine coverage in the EU/EEA between 1 September 2023 and 15 April 2024.
- During the reporting period, 27 of 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 28.1 million people aged 60 years and above received one COVID-19 vaccine dose. Approximately seven million people aged 80 years and above received one COVID-19 vaccine dose.
- Among the 27 reporting countries, six countries reported a vaccination coverage ≥50% for the age group 60 years and above, while nine countries reported a vaccination coverage ≥50% for the age group 80 years and above.
- The median COVID-19 vaccination coverage among people aged 60 years and above was 12.0% (range: 0.01–66.1%), with high variation among countries. For people aged 80 years and above, the median coverage was 17.1% (range: 0.01–89.3%), with high variation among countries.
- Most of the approximately 31 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
 25.5 million doses; 82.1% of the total doses administered); for 14.5% of the doses, the product was
 reported as unknown.
- These preliminary results must be interpreted with caution. Higher degrees of data consolidation and data completeness are expected in the coming 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 in the EU/EEA. This report presents an interim description of COVID-19 vaccine coverage in the EU/EEA between 1 September 2023 and 15 April 2024.

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ISBN 978-92-9498-720-4 doi: 10.2900/397798 Catalogue number TQ-05-24-350-EN-N 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.

Between the start of COVID-19 vaccination campaigns in December 2020 and September 2023, 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</u> <u>files</u>. Since September 2023, ECDC has updated its COVID-19 vaccination coverage data analysis process, frequency of data collection and the related <u>reports</u>. The data collected by ECDC are shared on the same frequency of when it is collected with the WHO Regional Office for Europe and aimed for publication together with other <u>global data</u>.

Methods

From 1 September 2023 to 15 April 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, 27/30 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 28.1 million people received a dose of COVID-19 vaccine. The median coverage among people in this age group was 12.0% (range: 0.01-66.1%), with high variation across countries (Table 1 and Figure 1). Among the 27 countries reporting data for this target group, none reported a coverage \geq 80%.

For the age group 80 years and above, approximately seven million people received a dose of COVID-19 vaccine. The median coverage among people in this age group was 17.1% (range: 0.01-89.3%), with high variation across countries (Table 1 and Figure 2). Among the 26 countries reporting data for this target group, two countries reported a coverage \geq 80% (Denmark: 88.6%;and Sweden: 89.3%).

Table 1. COVID-19 vaccine coverage in target age groups, 27 EU/EEA countries, 1 September 2023 to 15 April 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	12.0% (0.01–66.1%)	0/27	6/27	10/27
80+ years	17.1% (0.01–89.3%)	2/26	9/26	11/26

^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.

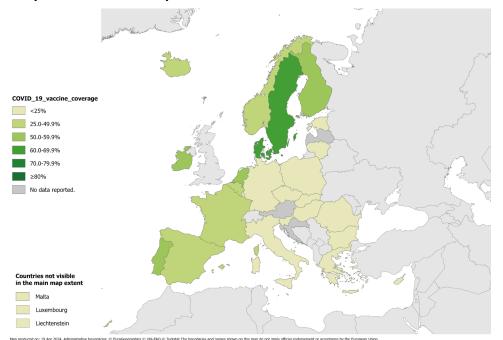
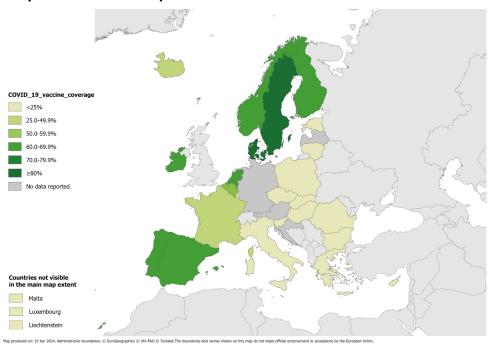


Figure 1. COVID-19 vaccine coverage among people aged 60 years and above, 27 EU/EEA countries, 1 September 2023 to 15 April 2024

Figure 2. COVID-19 vaccine coverage among people aged 80 years and above, 26 EU/EEA countries, 1 September 2023 to 15 April 2024



Among the 27 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 and 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 (21%). Two countries reported disaggregated data for individuals with chronic conditions, with the highest coverage observed in Spain (6.6%). Two countries reported disaggregated data for pregnant women, with the highest coverage observed in Ireland (19.6%).

Table 2. COVID-19 vaccine coverage by target group, 24 EU/EEA countries, 1 September 2023 to15 April 2024

Country	Aged 60–69 yearsª	Aged 70–79 years	Aged 80 years and above	Healthcare workers	Individuals with chronic conditions	Pregnant women	Period reported
Belgium	37.3%	55.9%	57.6%	21.0%	NDR	NDR	Sep' 23 – Mar' 24
Bulgaria	1.3%	2.9%	2.6%	0.6%	NDR	NDR	Sep' 23 – Mar' 24
Cyprus	6.0%	16.4%	21.5%	NDR	NDR	NDR	Sep' 23 – Apr' 24
Czechia	7.0%	13.9%	16.5%	7.2%	2%	NDR	Sep' 23 – Mar' 24
Denmark	43.8%	80.7%	88.6%	NDR	NDR	NDR	Sep' 23 – Mar' 24
Estonia	8.9%	14.9%	14.3%	NDR	NDR	NDR	Sep' 23 – Mar' 24
Finland	32.7%	64.0%	63.9%	NDR	NDR	NDR	Sep' 23 – Mar' 24
France	15.8%	32.4%	37.5%	12.2%	NDR	NDR	Sep' 23 – Mar' 24
Germany	NDR	NDR	NDR	NDR	NDR	NDR	Sep' 23 – Mar' 24
Greece	7.1%	11.6%	8.8%	4.4%	NDR	NDR	Sep' 23 – Mar' 24
Hungary	0.5%	1.1%	1.3%	NDR	NDR	NDR	Sep' 23 – Apr' 24
Iceland	26.6%	44.4%	46.6%	NDR	NDR	NDR	Sep' 23 – Mar' 24
Ireland	38.7%	61.9%	72.6%	15.4%	NDR	19.6%	Sep' 23 – Mar' 24
Italy	6.0%	11.6%	15.8%	NDR	NDR	NDR	Sep' 23 – Mar' 24
Liechtenstein	3.4%	6.9%	11.5%	NDR	NDR	NDR	Sep' 23 – Mar' 24
Lithuania	1.8%	1.5%	1.7%	NDR	NDR	NDR	Sep' 23 – Mar' 24
Luxembourg	7.8%	13.6%	17.7%	NDR	NDR	NDR	Sep' 23 – Mar' 24
Malta	0.8%	0.5%	1.2%	NDR	NDR	NDR	Sep' 23 – Dec' 23
The Netherlands ^b	38.8%	63.3%	67.4%	NDR	NDR	NDR	Sep' 23 – Mar' 24
Norway	30.3%	61.2%	61.8%	NDR	NDR	NDR	Sep' 23 – Mar' 24
Poland	3.9%	8.2%	5.5%	NDR	NDR	NDR	Sep' 23 – Mar' 24
Portugal	43.5%	59.6%	63.9%	NDR	NDR	NDR	Sep' 23 – Apr' 24
Romania	0.01%	0.01%	0.01%	NDR	NDR	NDR	Sep' 23 – Jan' 24
Slovakia	1.1%	2.0%	1.6%	NDR	NDR	NDR	Sep' 23 – Dec' 23
Slovenia	2.9%	6.4%	8.5%	NDR	NDR	NDR	Sep' 23 – Mar' 24
Spain	32.6%	52.3%	64.3%	13.9%	6.6%	7.8%	Sep' 23 – Mar' 24
Sweden	46.8%	73.8%	89.3%	NDR	NDR	NDR	Sep' 23 – Mar' 24

NDR: no data reported.

^a In some of the reporting countries, the COVID-19 vaccine was 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. ^b In the Netherlands, each individual receiving a COVID-19 dose must provide informed consent to the healthcare provider in

^b 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 27 reporting countries, approximately 31 million COVID-19 vaccine doses have been administered during the reporting period among the total population (Table 3). Around 25.5 million doses (82.1% of the total doses administered) were the Comirnaty Omicron XBB.1.5 (Pfizer BioNTech) vaccine. Around 669 000 doses (2.2% of the total doses administered) were the Nuvaxovid XBB.1.5 (Novavax) vaccine. Approximately 74 000 doses (0.2% of the total doses administered) were the Spikevax XBB.1.5 (Moderna) vaccine and around 600 doses (<0.1% of the total doses administered) were the Bimervax (Hipra) vaccine. Approximately 316 000 doses (1.0% of the total doses administered) were reported as `other vaccine product'. The remaining administered doses (approximately 4.5 million doses, representing the 14.5% of the total doses administered) were reported as `unknown vaccine product'.

Table 3. COVID-19 doses administered to people aged 18 years and above, by vaccine product, 27EU/EEA countries, 1 September 2023 to 15 April 2024

Vaccine product (manufacturer – product name)	Number of doses administered	% of the total number of doses administered		
Hipra – Bimervax	587	<0.1%		
Pfizer BioNTech – Comirnaty Omicron XBB.1.5	25 466 415	82.1%		
Moderna – Spikevax XBB.1.5	73 707	0.2%		
Novavax – Nuvaxovid XBB.1.5	668 795	2.2%		
Other vaccine products ^a	315 611	1.0%		
Unknown vaccine product	4 488 646	14.5%		
All doses	31 013 761	NA		

NA: not applicable.

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

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 data are being consolidated, all possible factors should be considered, including data completeness and quality. Higher degrees of data consolidation and data completeness are expected in the coming 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.
- <u>ECDC open data files on COVID-19 vaccination in the EU/EEA</u>: Downloadable files with COVID-19 vaccination in the EU/EEA since September 2023 onwards. These files are intended for external users that are competent in data analysis.