

Routine immunization summary— WHO European Region, 2023



Vaccine-preventable Diseases and Immunization

Division of Communicable Diseases, Environment and Health

Data as of 30 September 2024

Immunization system characteristics—WHO European Region, 2022–2023

Characteristic	2022 N(%)	2023 N(%)
Countries with ≥95% DTP3 coverage ¹	25(47)	25(47)
Countries with ≥95% MCV1 coverage ¹	27(51)	29(55)
Countries with ≥95% MCV2 coverage ¹	12(23)	12(23)
Countries with sustained DTP3 coverage ≥95% DTP3 in last 3 years ¹	22(42)	23(43)
Countries with sustained access to WHO accredited polio, measles, and rubella laboratories ²	53(100)	53(100)
Countries with NITAG in place that meets the six* WHO criteria ³	39(74)	37(70)
Countries with national system to monitor AEFI ³	45(85)	48(91)
Countries with communication plan to respond to vaccine safety-related events ³	22(42)	24(45)
Countries with child's vaccination status routinely checked at the time of enrollment to or during childcare or school ³	42(79)	41(77)

N (total # of country in the Region) = 53 Countries submitted JRF in 2022=53 and 2023=52

AEFI: Adverse event following immunization
DTP3: diphtheria-tetanus-pertussis-containing vaccine, third dose
MCV1: measles-containing vaccine, first dose
MCV2: measles-containing vaccine, second dose
NITAG: National Immunization Technical Advisory Group

*The six WHO NITAG criteria are 1. legislative or administrative basis for the advisory group; 2. formal written terms of reference; 3. at least five different areas of expertise represented among core members; 4. at least one meeting per year; 5. circulation of the agenda and background documents at least one week prior to meetings; 6. mandatory disclosure of any conflict of interest

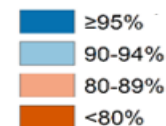
Data source: ¹ WHO/UNICEF Estimates of National Immunization Coverage (WUENIC) as of 15 July 2024; ² Polio Laboratory Network: www.euro.who.int/poliolabnetwork & personal communication based on annual accreditation process of the European MR Laboratory Network; ³ WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 30 September 2024

Regional immunization coverage estimates—WHO European Region, 2019–2023

Vaccine	2019	2020	2021	2022	2023
DTP1	98	97	97	97	97
DTP3	95	94	94	95	95
HepB3	92	91	91	92	92
Hib3	81	81	81	93	94
PCV3	81	81	84	85	86
Pol3	95	94	94	94	95
MCV1	96	94	95	94	95
MCV2	92	91	91	91	91

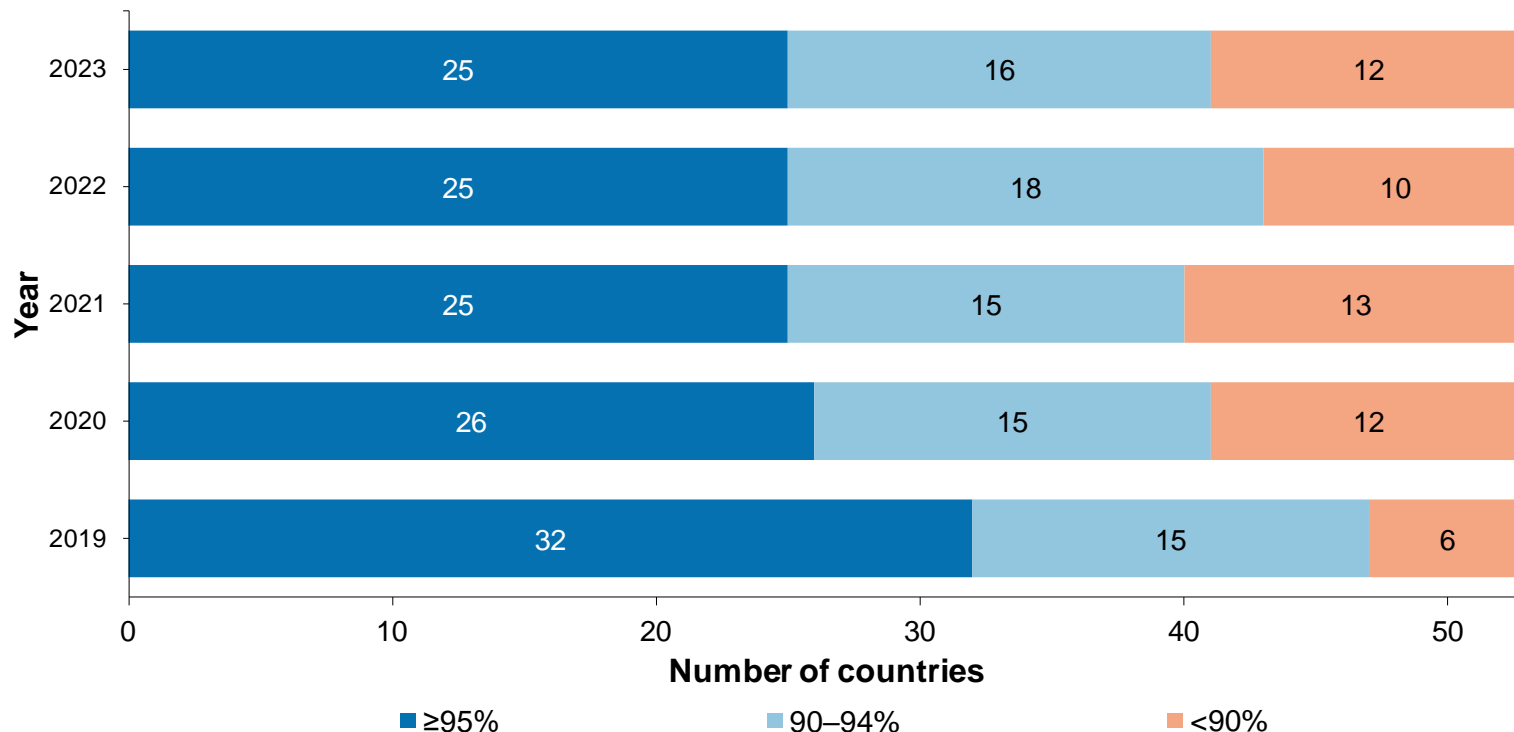
DTP1: diphtheria-tetanus-pertussis-containing vaccine, first dose
DTP3: diphtheria-tetanus-pertussis-containing vaccine, third dose
HepB3: hepatitis B vaccine, third dose
Hib3: Haemophilus influenzae type b vaccine, third dose

PCV3: pneumococcal conjugate vaccine, third dose
Pol3: polio-containing vaccine, third dose
MCV1: measles-containing vaccine, first dose
MCV2: measles-containing vaccine, second dose



Diphtheria-tetanus-pertussis-containing vaccine, third dose (DTP3)

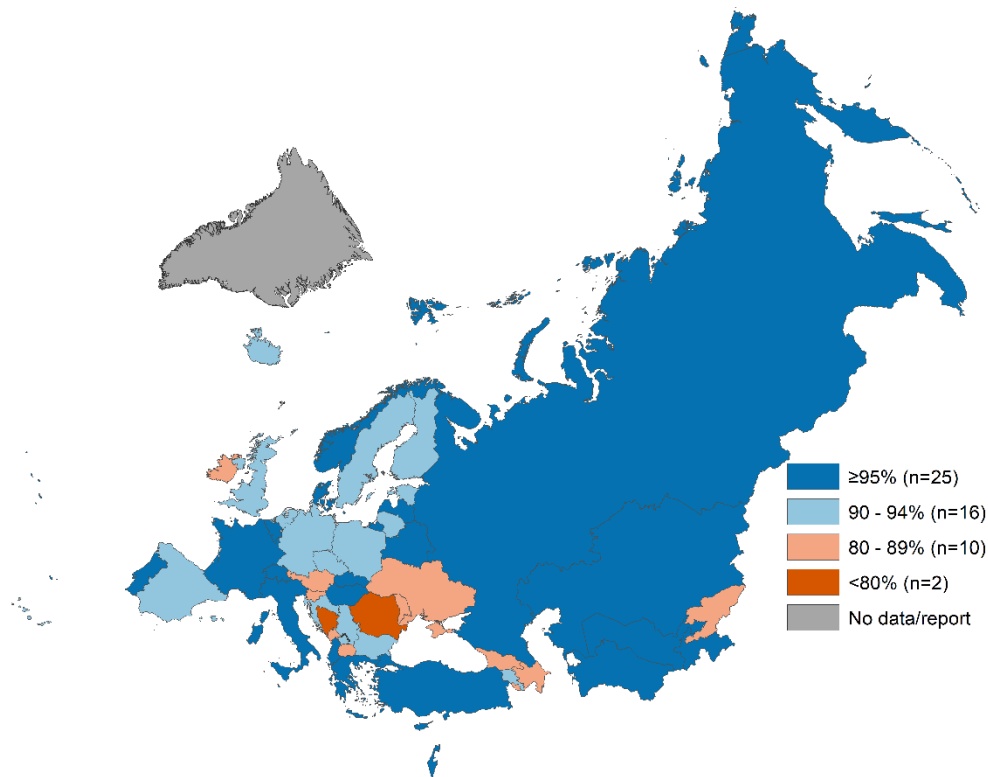
Number of countries categorized by national DTP3 coverage estimate—WHO European Region, 2019–2023



DTP3: diphtheria-tetanus-pertussis-containing vaccine, third dose

N (total # of countries in the Region) = 53

Countries categorized by national DTP3 coverage estimate—WHO European Region, 2023



Countries with <90% DTP3 coverage estimate	
Country	% coverage
Ireland	89
Slovenia	89
Georgia	88
Republic of Moldova	87
Kyrgyzstan	86
North Macedonia	86
Austria	84
Azerbaijan	83
Ukraine	83
Montenegro	81
Romania	78
Bosnia and Herzegovina	73

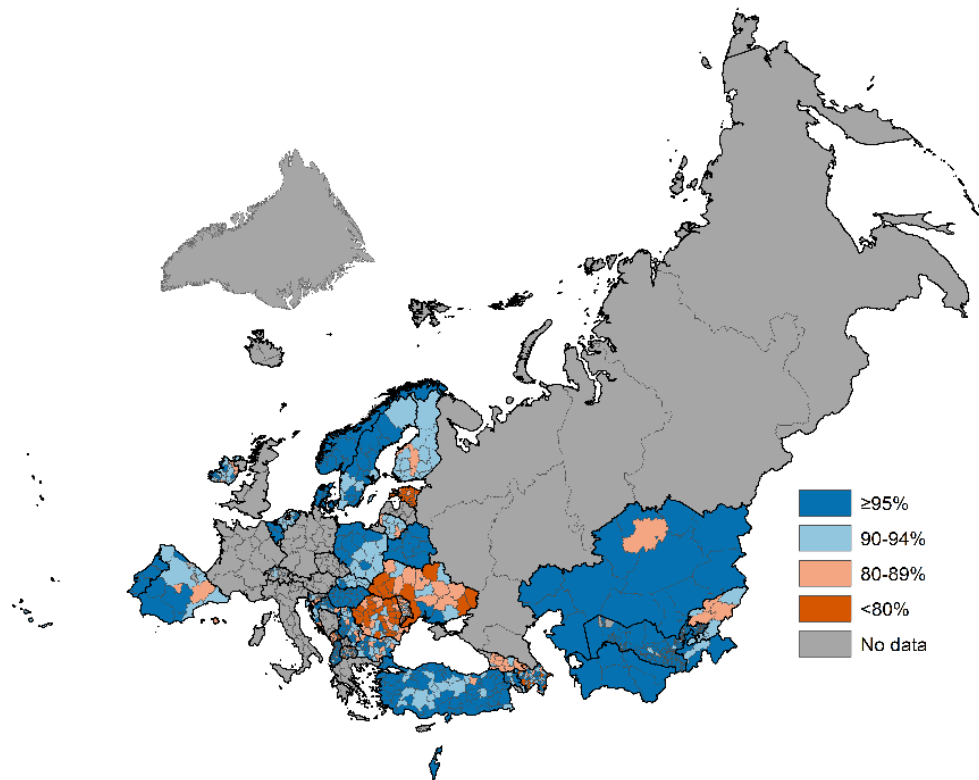
DTP3: diphtheria-tetanus-pertussis-containing vaccine, third dose

N (total # of countries in the Region) = 53

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Data source: WHO/UNICEF Estimates of National Immunization Coverage (WUENIC) as of 15 July 2024

Reported sub-national DTP3 coverage—WHO European Region, 2023



DTP3: diphtheria-tetanus-pertussis-containing vaccine, third dose

N (total # of countries in the Region) = 53

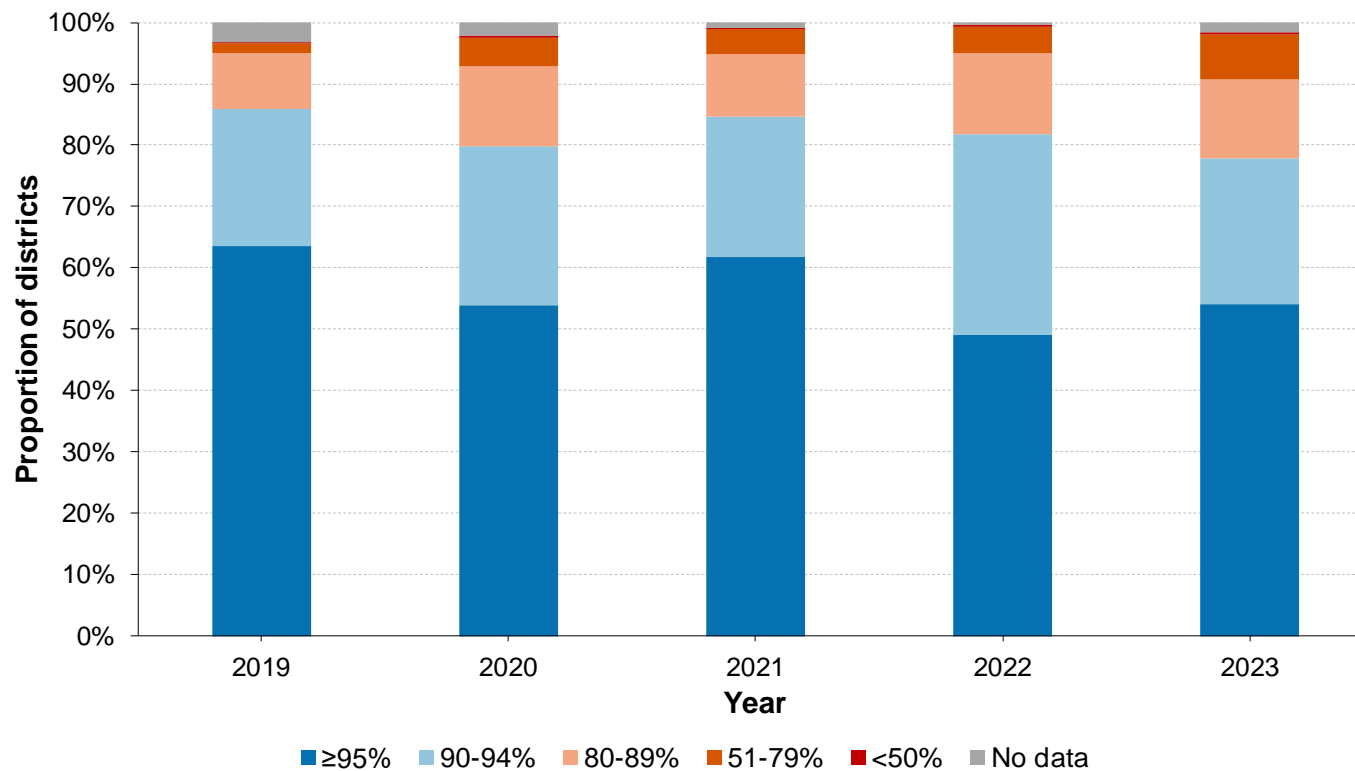
N (total # of countries in the Region with sub-national administrative levels) = 49

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Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 30 September 2024

The second and third administrative level were used to map reported sub-national DTP3 coverage based on available data.

Proportion of districts by categories of reported DTP3 coverage— WHO European Region, 2019–2023



DTP3: diphtheria-tetanus-pertussis-containing vaccine, third dose

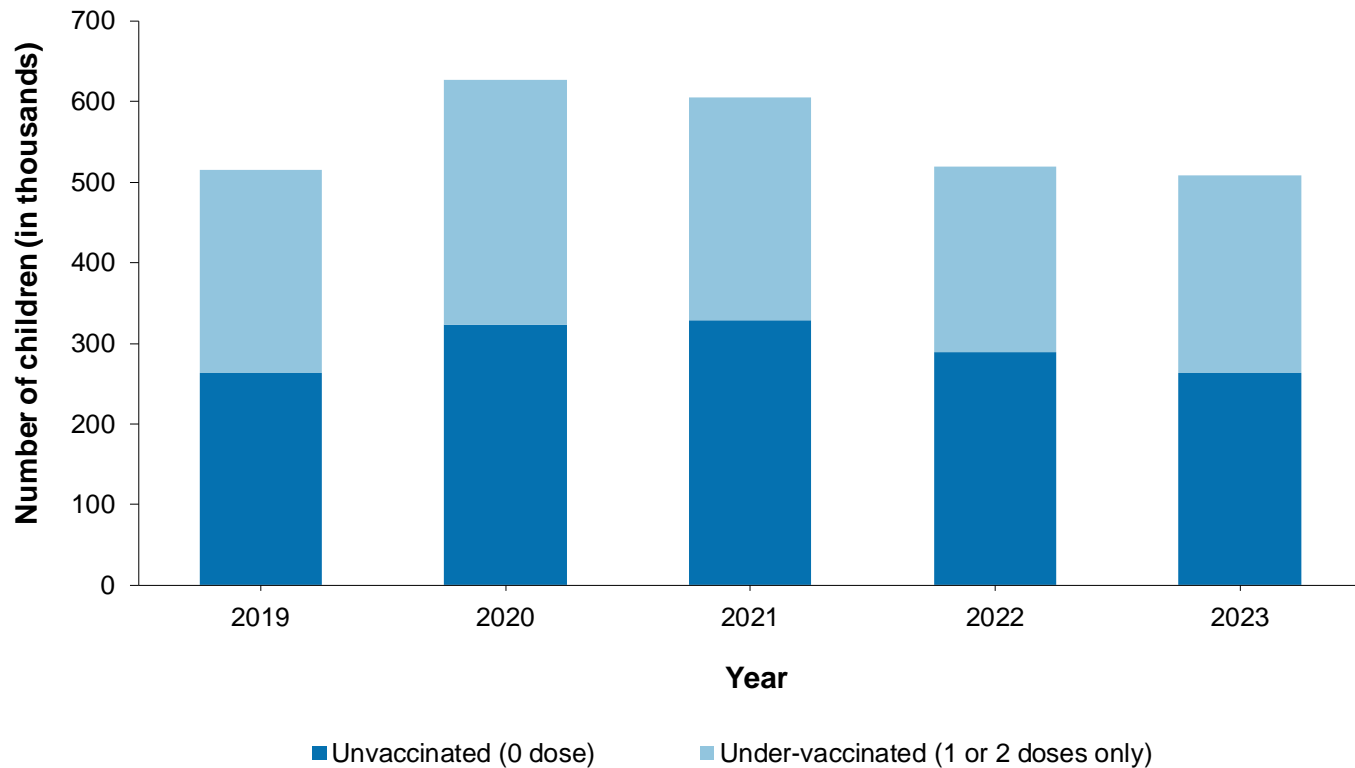
N (total # of countries in the Region) = 53

N (total # of countries in the Region with sub-national administrative levels) = 49

Number of countries reporting DTP3 coverage at district level were 45 in 2019, 44 in 2020, 43 in 2021, 42 in 2022 and 38 in 2023

Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 30 September 2024

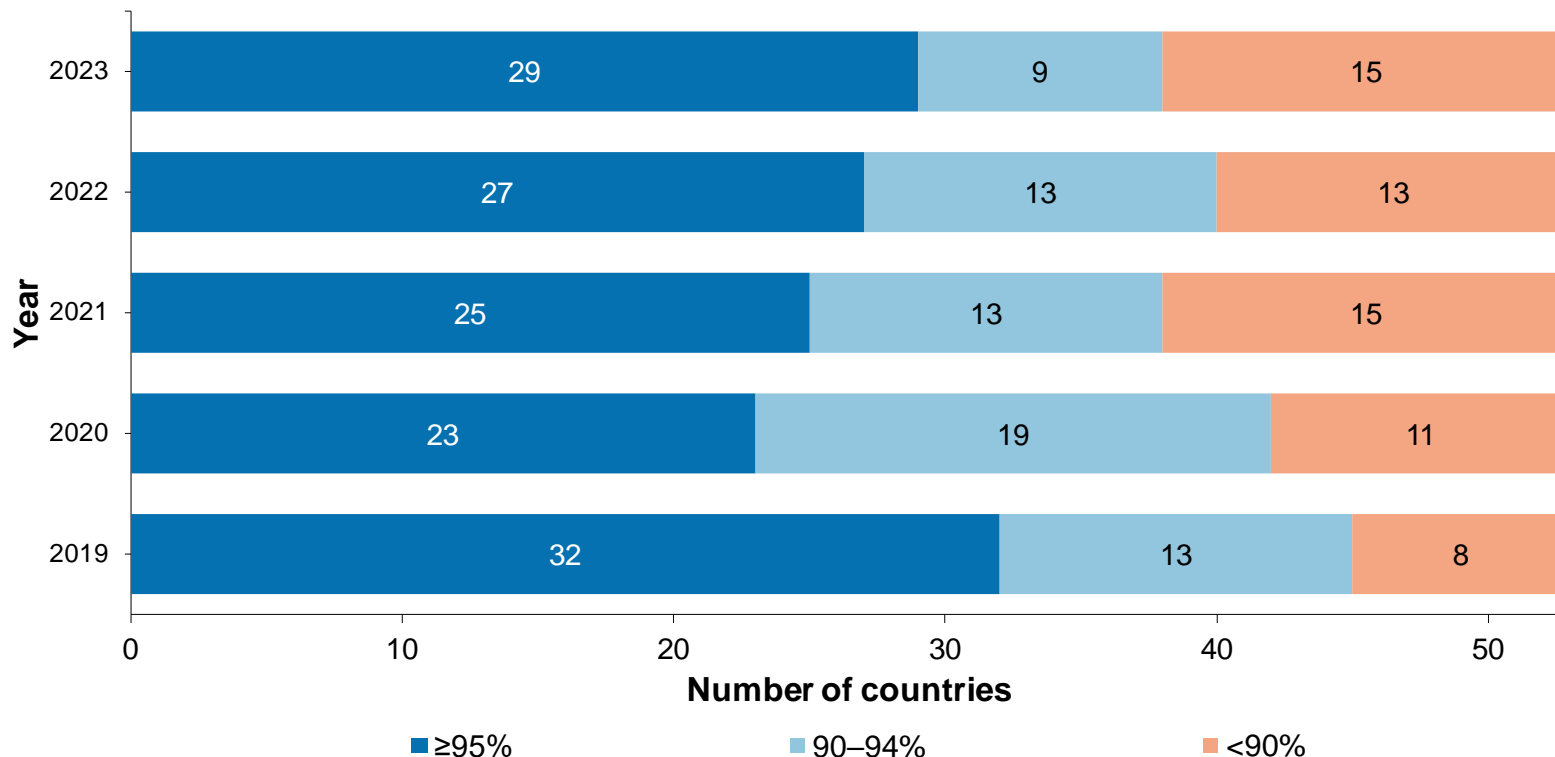
Number of children unvaccinated and under-vaccinated with DTP-containing vaccine—WHO European Region, 2019–2023



DTP: diphtheria-tetanus-pertussis-containing vaccine

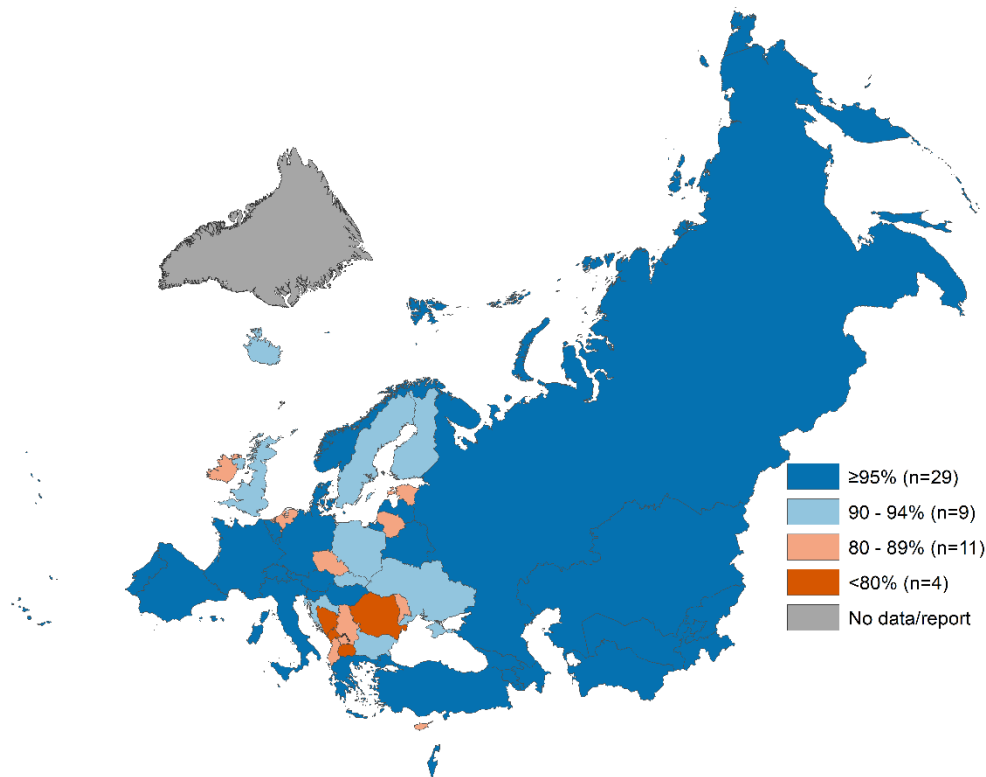
Measles-containing vaccine, first dose (MCV1)

Number of countries categorized by national MCV1 coverage estimate—WHO European Region, 2019–2023



MCV1: measles-containing vaccine, first dose
N (total # of countries in the Region) = 53

Countries categorized by national MCV1 coverage estimate—WHO European Region, 2023



Countries with <90% MCV1 coverage estimate	
Country	% coverage
Estonia	89
Ireland	89
Netherlands	89
San Marino	89
Monaco	88
Czechia	87
Lithuania	87
Republic of Moldova	85
Serbia	84
Albania	83
Cyprus	82
Romania	78
North Macedonia	73
Bosnia and Herzegovina	55
Montenegro	24

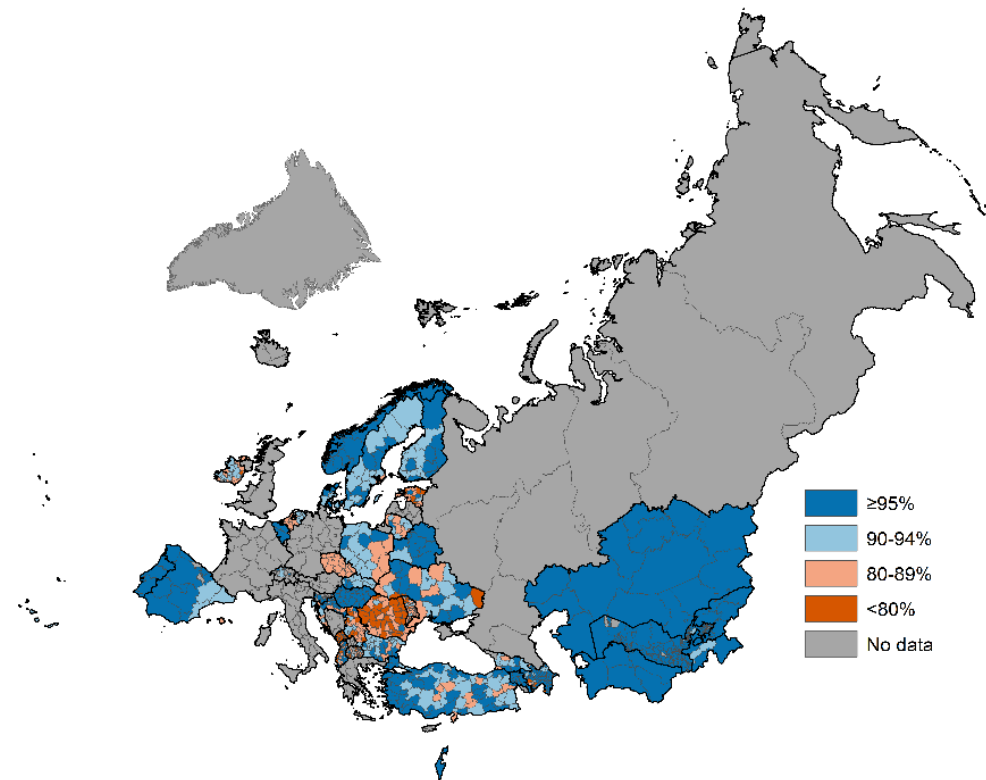
MCV1: measles-containing vaccine, first dose

N (total # of countries in the Region) = 53

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Data source: WHO/UNICEF Estimates of National Immunization Coverage (WUENIC) as of 15 July 2024

Reported sub-national MCV1 coverage—WHO European Region, 2023



MCV1: measles-containing vaccine, first dose

N (total # of countries in the Region) = 53

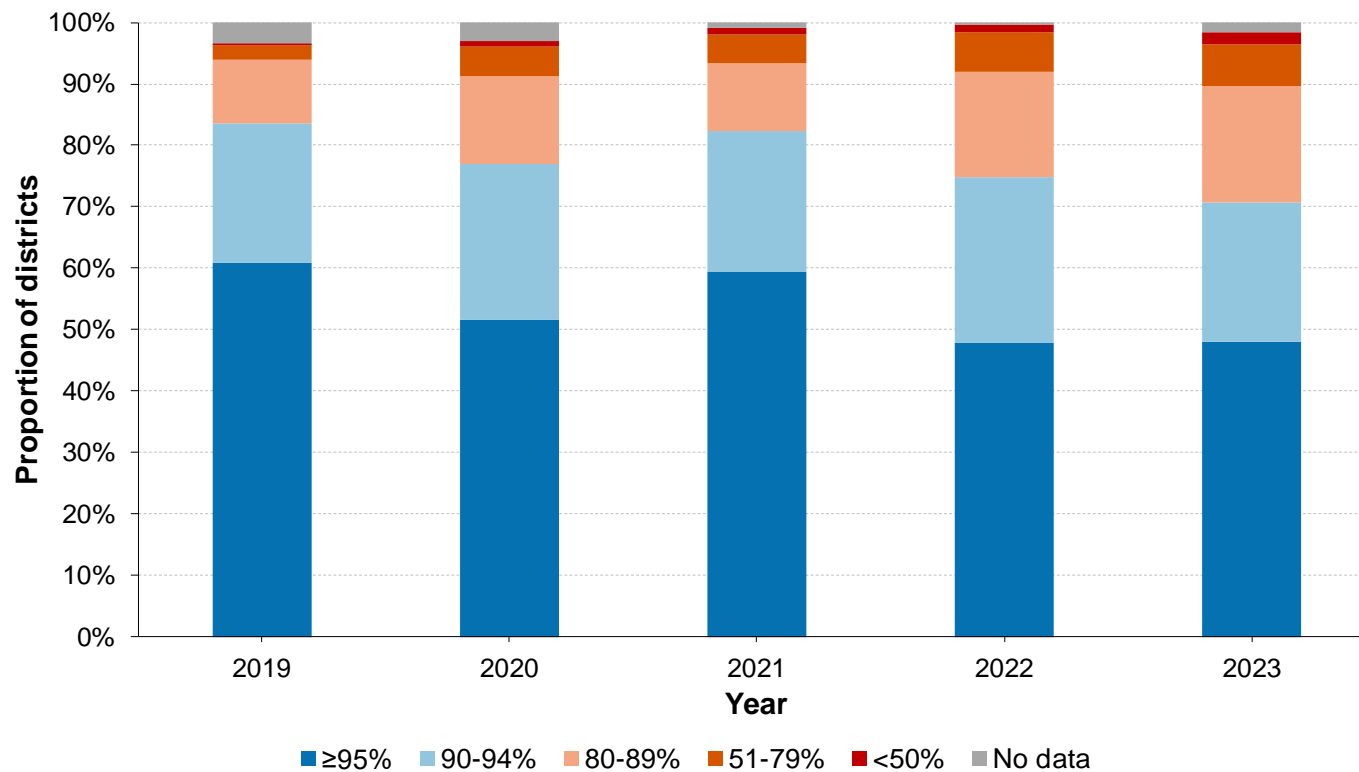
N (total # of countries in the Region with sub-national administrative levels) = 49

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Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 30 September 2024

The second and third administrative level were used to map reported sub-national MCV1 coverage based on available data.

Proportion of districts by categories of reported MCV1 coverage— WHO European Region, 2019–2023



MCV1: measles-containing vaccine, first dose

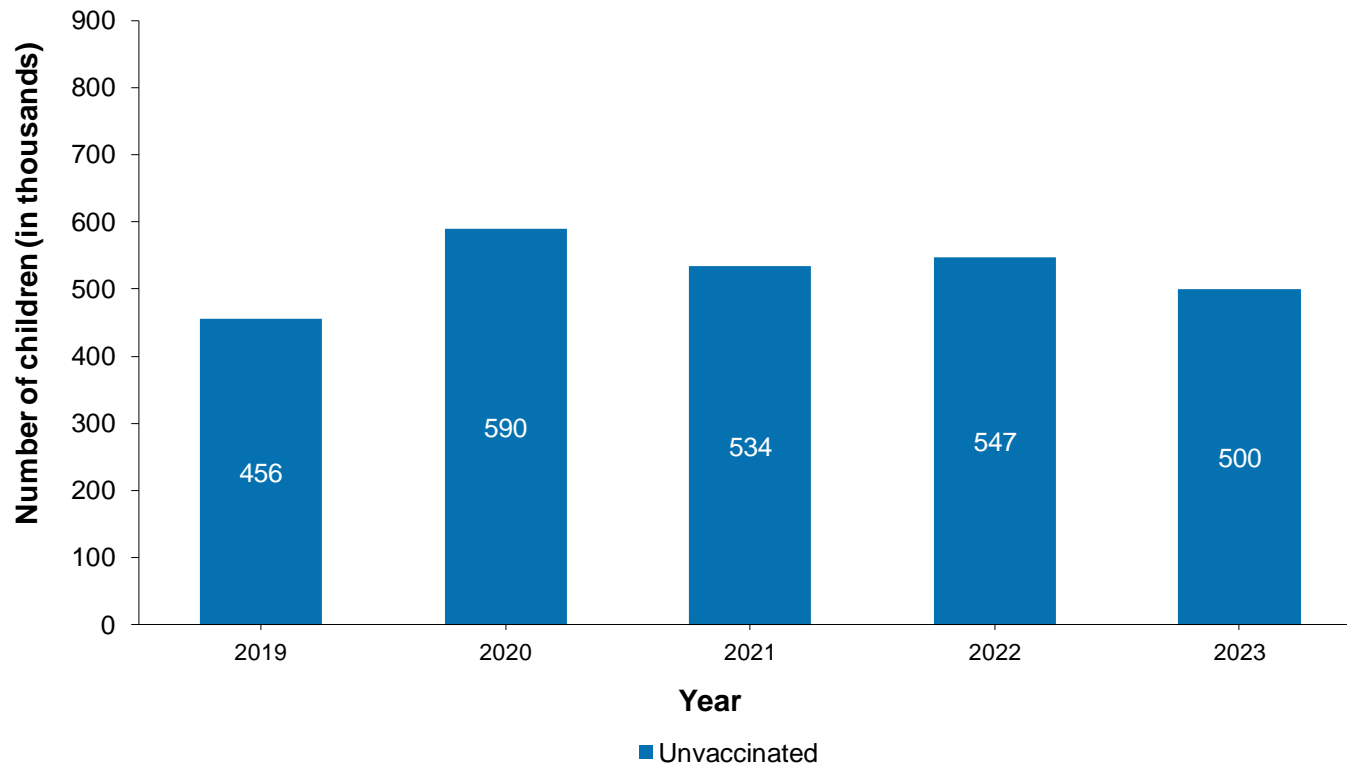
N (total # of countries in the Region) = 53

N (total # of countries in the Region with sub-national administrative levels) = 49

Number of countries reporting MCV1 coverage at district level were 45 in 2019, 44 in 2020, 43 in 2021, 42 in 2022 and 38 in 2023

Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 30 September 2024

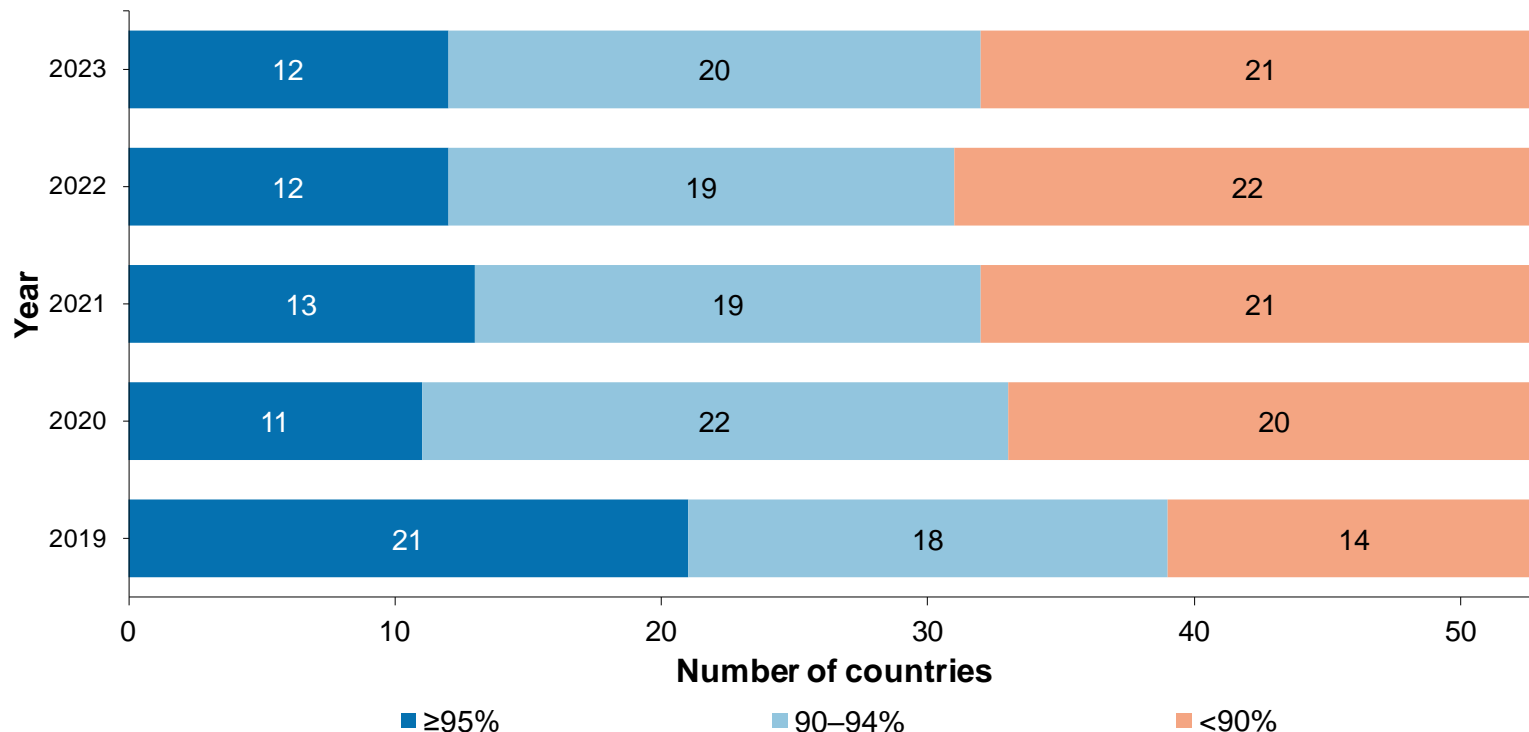
Number of children unvaccinated with MCV1— WHO European Region, 2019–2023



MCV1: measles-containing vaccine, first dose

Measles-containing vaccine, second dose (MCV2)

Number of countries categorized by national MCV2 coverage estimate*—WHO European Region, 2019–2023



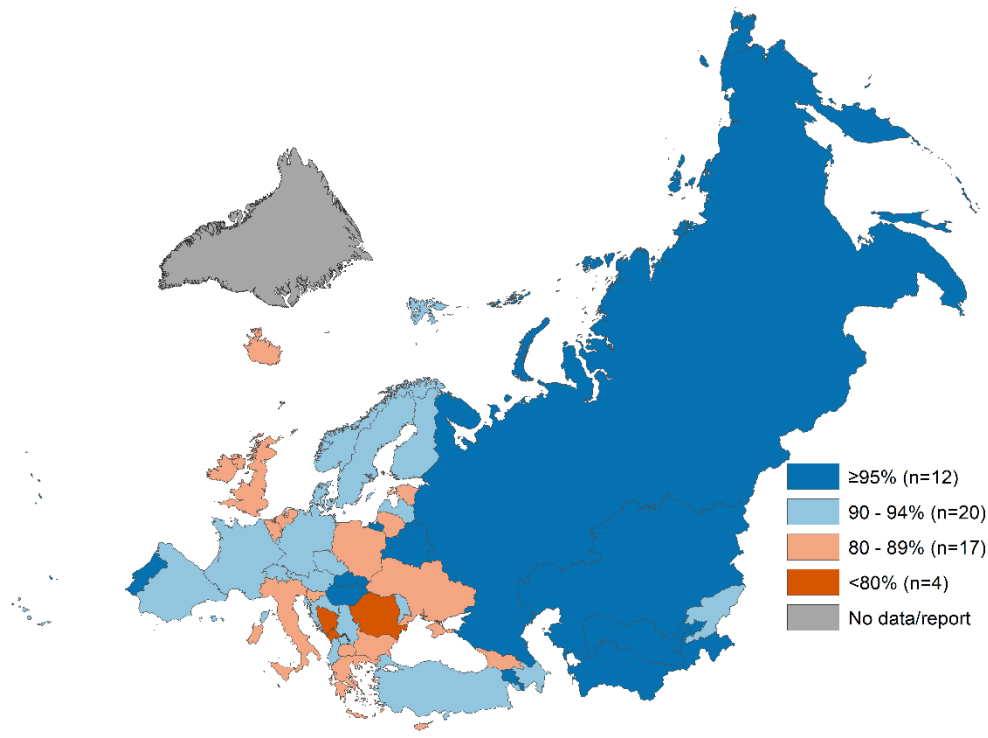
MCV2: measles-containing vaccine, second dose

N (total # of countries in the Region) = 53

*Administrative coverage was used for Ireland

Data source: WHO/UNICEF Estimates of National Immunization Coverage (WUENIC) as of 15 July 2024

Countries categorized by national MCV2 coverage estimate*—WHO European Region, 2023



MCV2: measles-containing vaccine, second dose

N (total # of countries in the Region) = 53

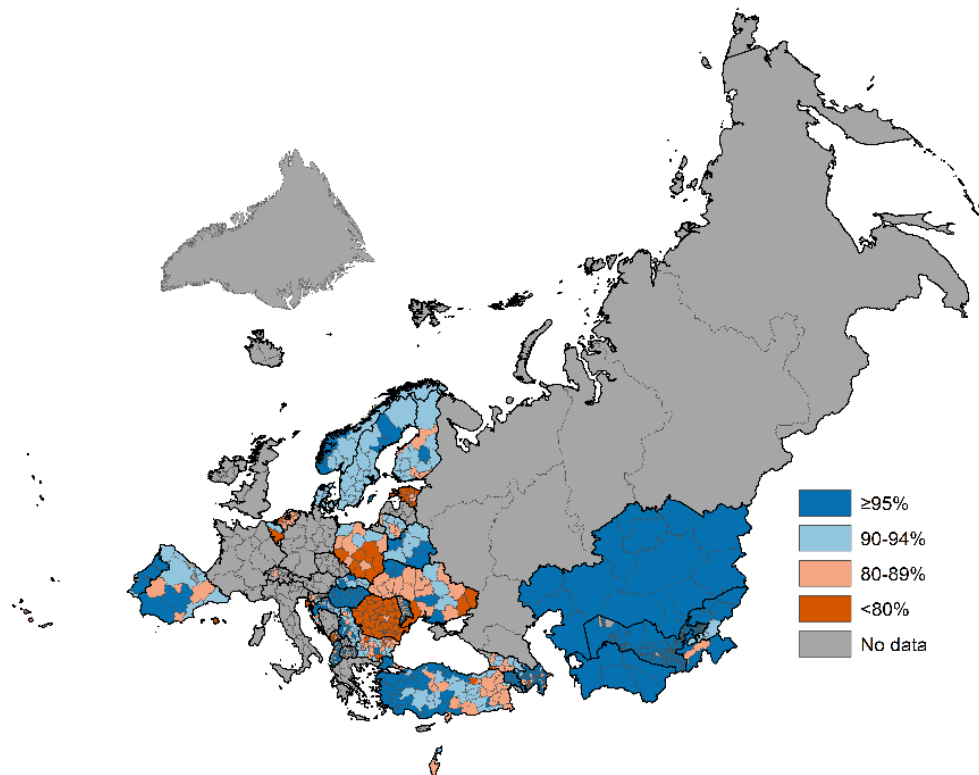
*Administrative coverage was used for Ireland

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Data source: WHO/UNICEF Estimates of National Immunization Coverage (WUENIC) as of 15 July 2024

Countries with <90% MCV2 coverage estimate	
Country	% coverage
Iceland	89
Ireland	89
Slovenia	89
North Macedonia	88
Bulgaria	87
Ukraine	87
Georgia	86
Lithuania	86
Poland	86
Italy	85
United Kingdom	85
Estonia	84
Greece	83
Belgium	82
Netherlands	81
Cyprus	80
Monaco	80
San Marino	79
Montenegro	69
Bosnia and Herzegovina	63
Romania	62

Reported sub-national MCV2 coverage—WHO European Region, 2023



MCV2: measles-containing vaccine, second dose

N (total # of countries in the Region) = 53

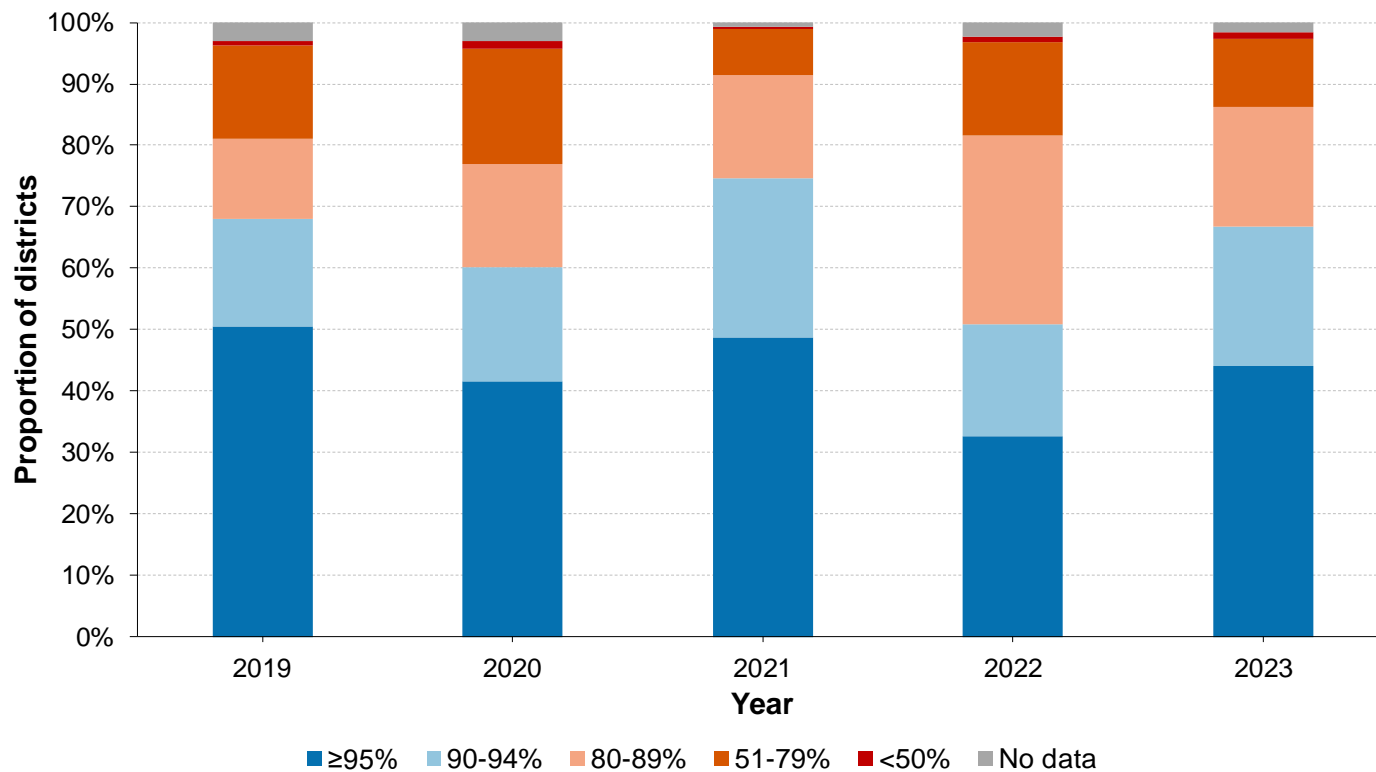
N (total # of countries in the Region with sub-national administrative levels) = 49

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Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 30 September 2024

The second and third administrative level were used to map reported sub-national MCV2 coverage based on available data.

Proportion of districts by categories of reported MCV2 coverage— WHO European Region, 2019–2023



MCV2: measles-containing vaccine, second dose

N (total # of countries in the Region) = 53

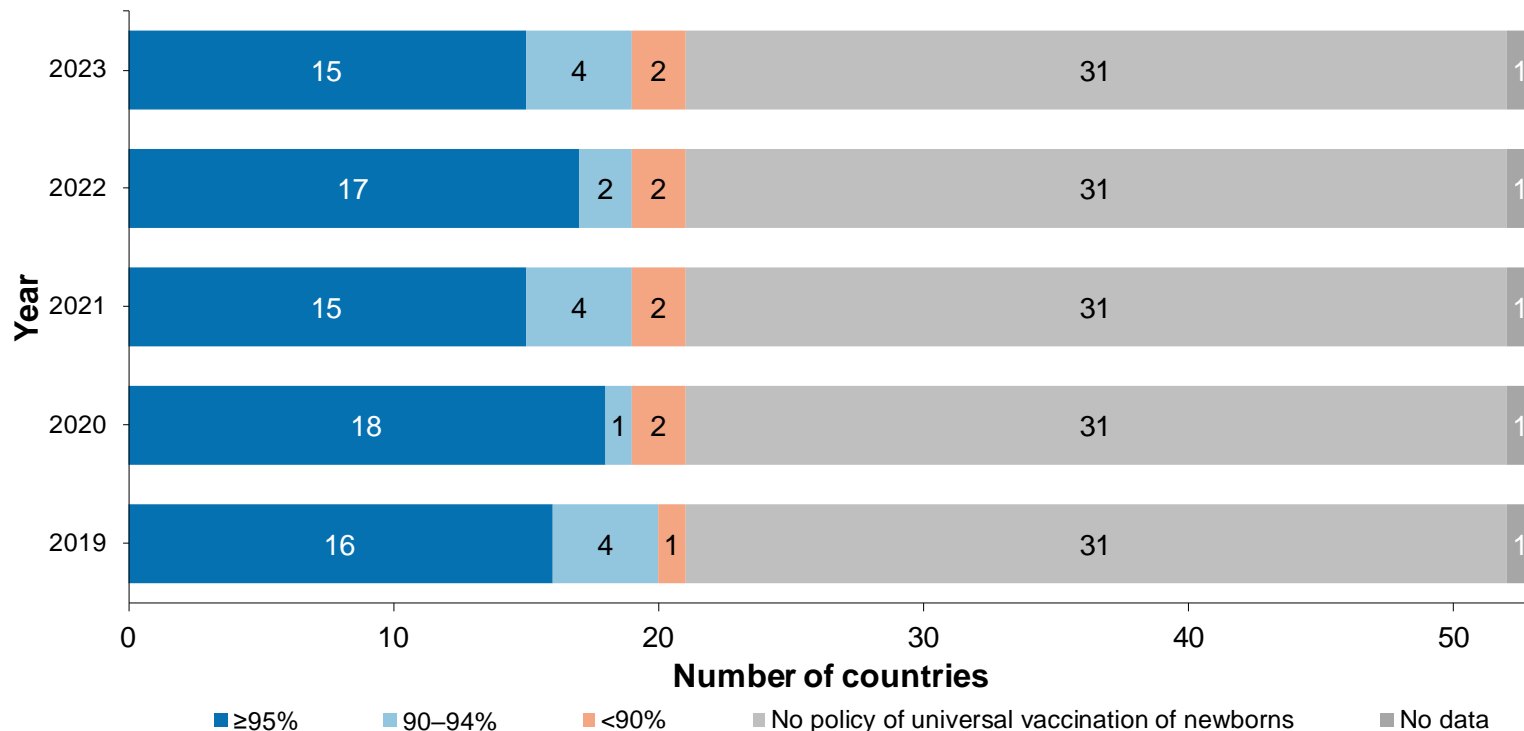
N (total # of countries in the Region with sub-national administrative levels) = 49

Number of countries reporting MCV2 coverage at district level were 41 in 2019, 40 in 2020, 39 in 2021–2022 and 37 in 2023

Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 30 September 2024

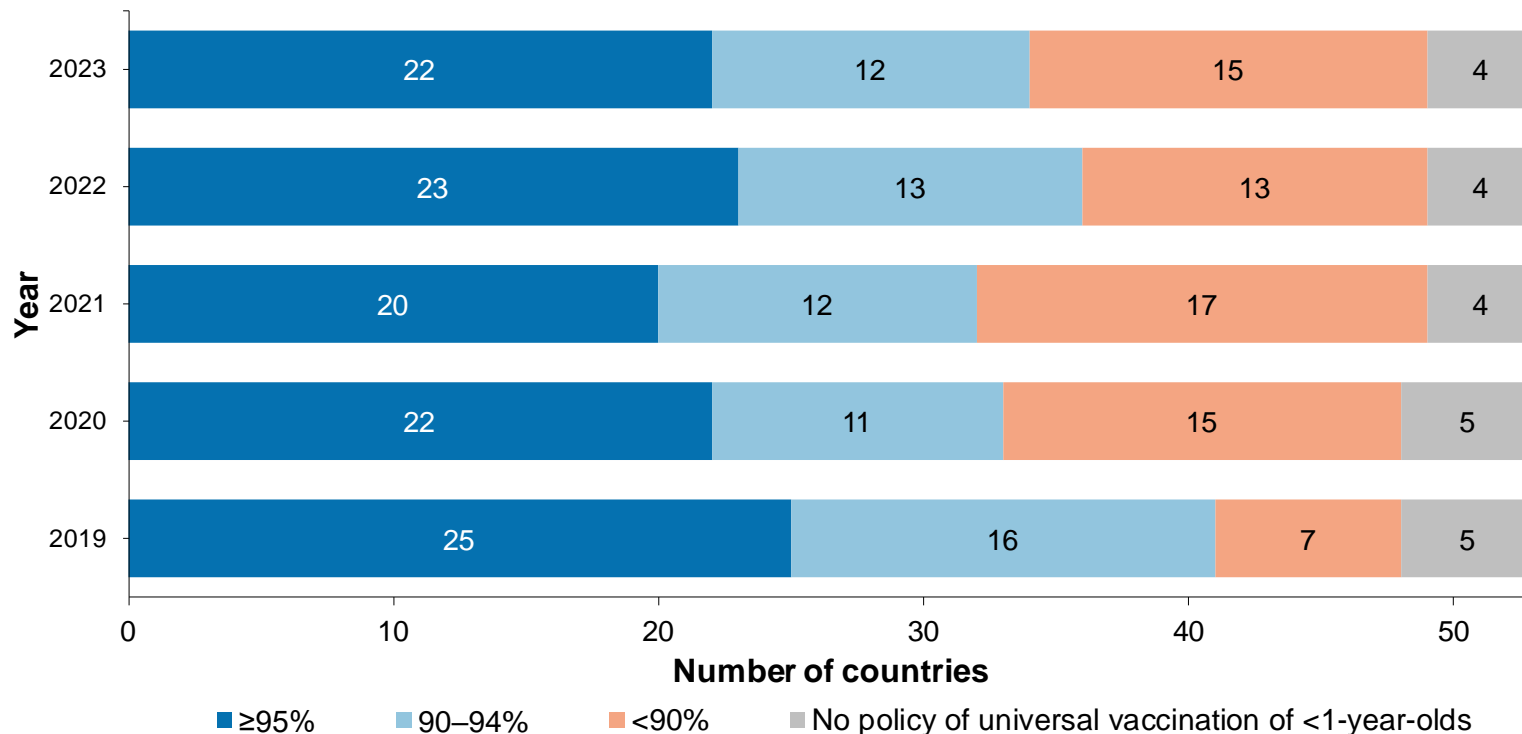
Hepatitis-containing vaccine, birth and third dose

Number of countries categorized by national HepB_BD coverage estimate—WHO European Region, 2019–2023



HepB_BD: hepatitis B vaccine, birth dose
N (total # of countries in the Region) = 53

Number of countries categorized by national HepB3 coverage estimate—WHO European Region, 2019–2023



HepB3: hepatitis B vaccine, third dose
N (total # of countries in the Region) = 53

Links to routine immunization information

- WHO/UNICEF Estimates of National Immunization Coverage (WUENIC)
[WHO Immunization Data portal](#)
- Polio laboratory network
[Polio Laboratory Network \(who.int\)](#)