

# Routine immunization summary— WHO European Region, 2019



**Vaccine-preventable Diseases and Immunization programme**

**Division of country health programmes**

Data as of 18 August 2020

[www.euro.who.int](http://www.euro.who.int)

# Immunization system characteristics—WHO European Region, 2018–2019

Characteristic	2018 N(%)	2019 N(%)
Countries with ≥95% DTP3 coverage <sup>1</sup>	31(58)	32(60)
Countries with ≥95% MCV1 coverage <sup>1</sup>	29(55)	30(57)
Countries with ≥95% MCV2 coverage <sup>1</sup>	21(40)	23(43)
Countries with sustained DTP3 coverage ≥95% DTP3 in last 3 years <sup>1</sup>	26(49)	30(57)
Countries with sustained access to WHO accredited polio, measles, and rubella laboratories <sup>2</sup>	53(100)	53(100)
Countries with NITAG in place that meets the six* WHO criteria <sup>3</sup>	35(66)	31(58)
Countries with national system to monitor AEFI <sup>3</sup>	52(98)	52(98)
Countries with communication plan to respond to vaccine safety-related events <sup>3</sup>	30(57)	32(60)
Countries with vaccine hesitancy assessment performed within last 5 years <sup>3</sup>	32(60)	32(60)
Countries with child's vaccination status routinely checked at the time of enrollment to or during childcare or school <sup>3</sup>	41(77)	43(81)

N (total # of country in the Region) = 53 All 53 countries submitted JRF in 2018 and 46 in 2019

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

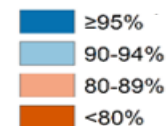
\*The six WHO NITAG criteria are 1. legislative or administrative basis for the advisory group; 2. formal written terms of reference; 3. at least five different areas of expertise represented among core members; 4. at least one meeting per year; 5. circulation of the agenda and background documents at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

# Regional immunization coverage estimates—WHO European Region, 2015–2019

Vaccine	2015	2016	2017	2018	2019
DTP1	96	95	96	97	97
DTP3	93	92	94	95	95
HepB3	82	82	84	84	92
Hib3	76	76	76	78	79
PCV3	48	62	73	78	80
Pol3	94	94	93	94	95
MCV1	94	93	95	95	96
MCV2	89	88	90	91	91

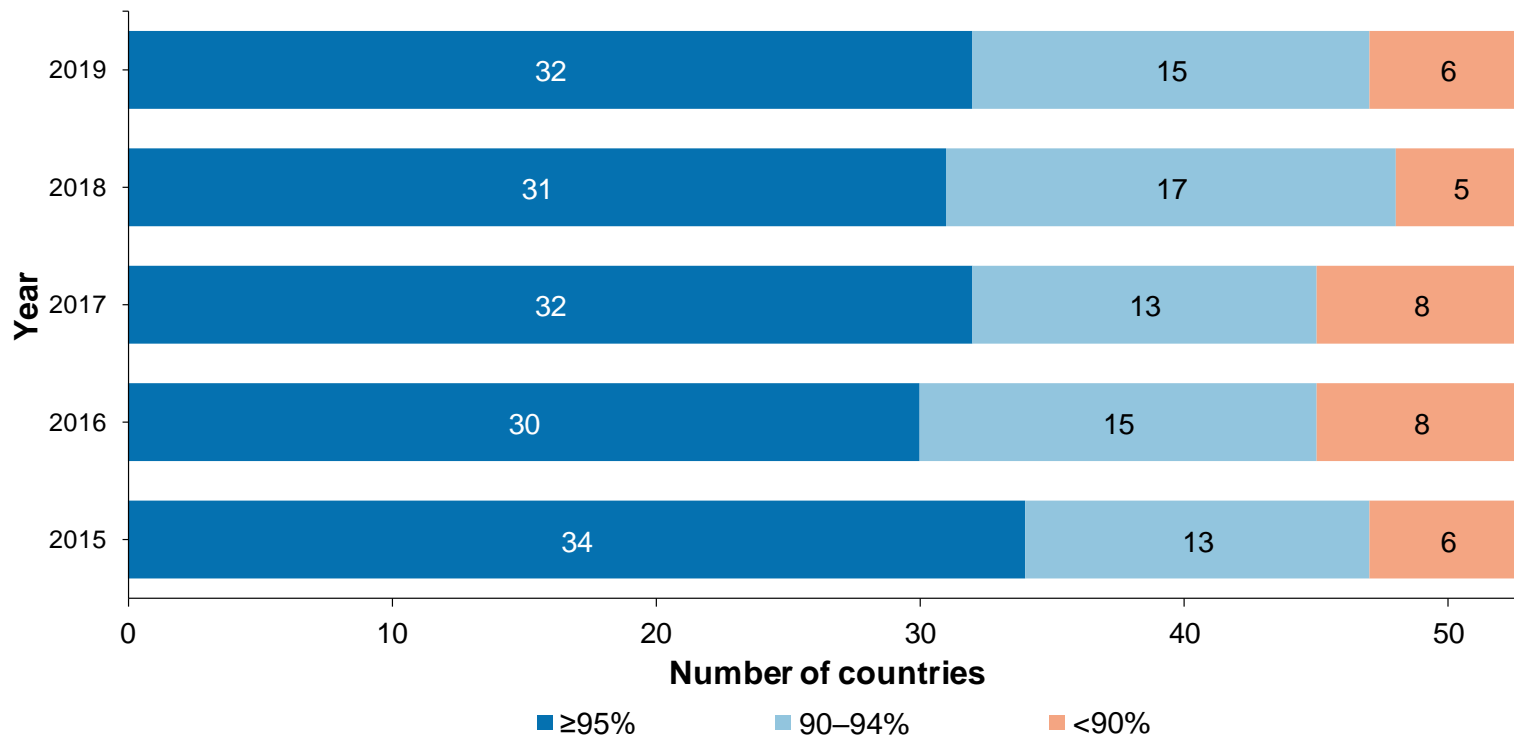
DTP1: diphtheria-tetanus-pertussis-containing vaccine, first dose  
 DTP3: diphtheria-tetanus-pertussis-containing vaccine, third dose  
 HepB3: hepatitis B vaccine, third dose  
 Hib3: Haemophilus influenzae type b vaccine, third dose

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



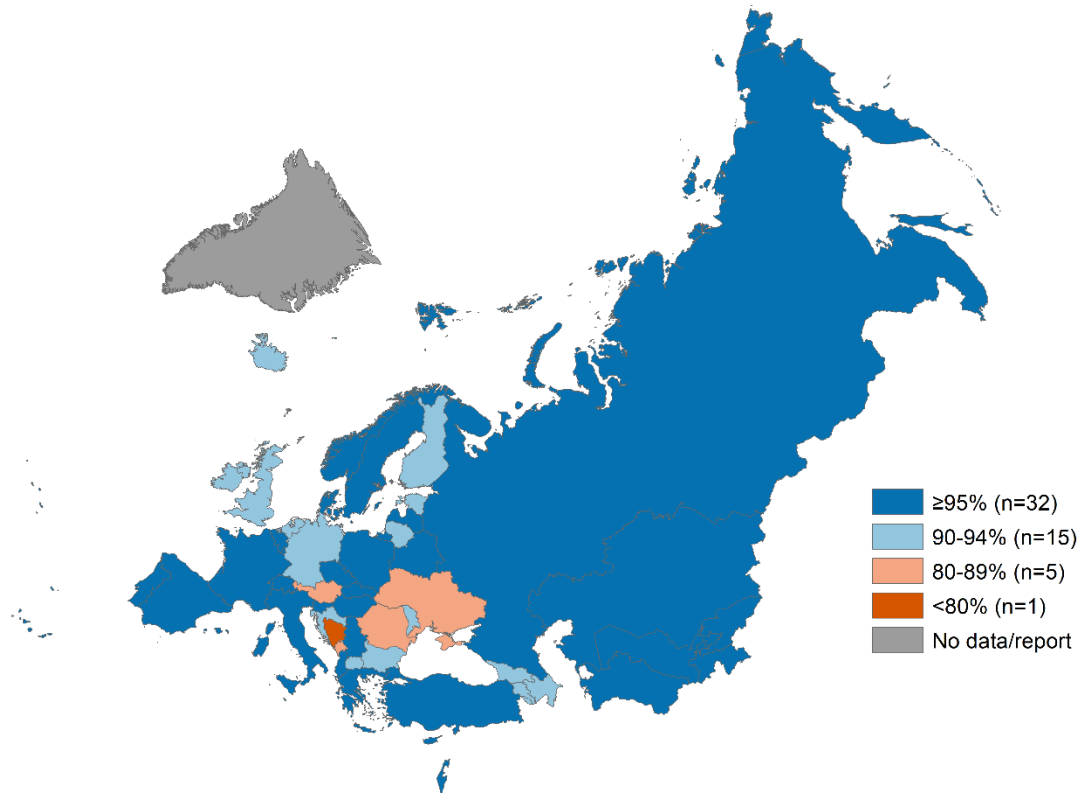
# Diphtheria-tetanus-pertussis-containing vaccine, third dose (DTP3)

# Number of countries categorized by national DTP3 coverage estimate—WHO European Region, 2015–2019



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, 2019



Countries with <90% DTP3 coverage estimate	
Country	% coverage
Romania	88
San Marino	88
Montenegro	86
Austria	85
Ukraine	80
Bosnia and Herzegovina	73

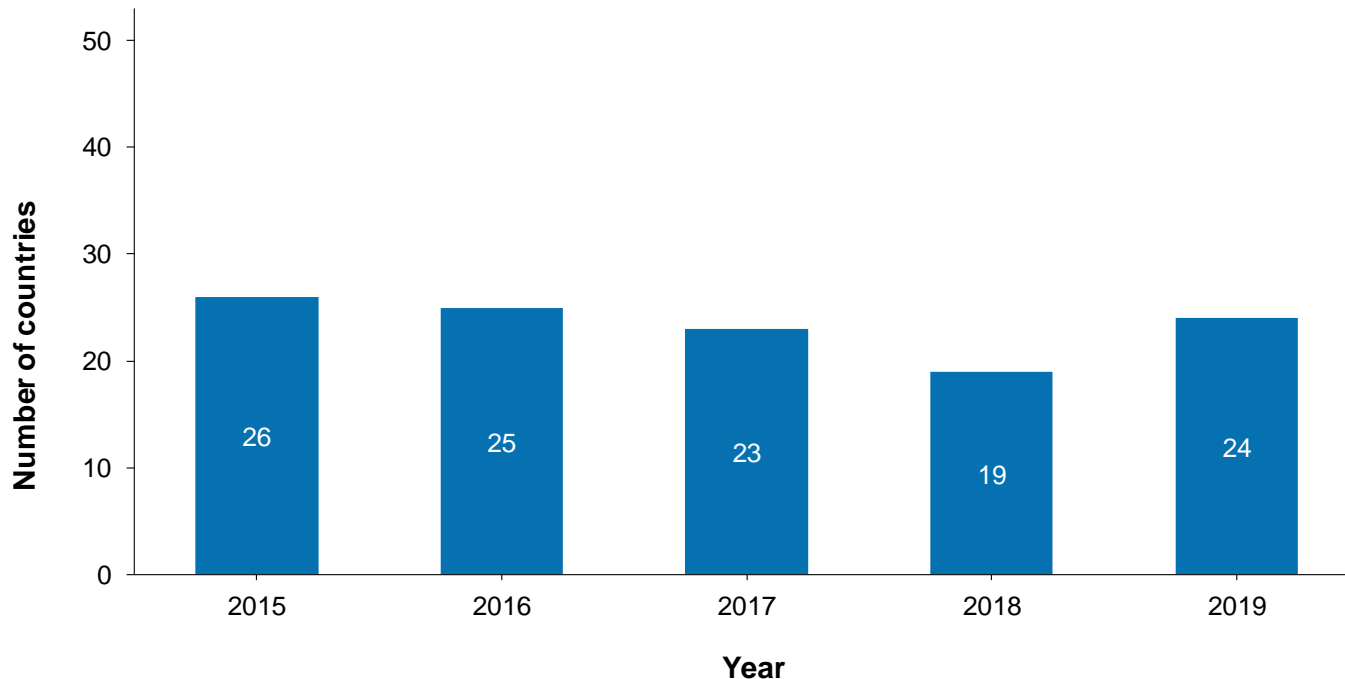
DTP3: diphtheria-tetanus-pertussis-containing vaccine, third dose

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

Disclaimer: The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement. © WHO 2020.

Data source: WHO/UNICEF Estimates of National Immunization Coverage (WUENIC) as of 15 July 2020

# Number of countries with $\geq 90\%$ DTP3 reported coverage in $\geq 90\%$ of districts—WHO European Region, 2015–2019



■  $\geq 90\%$  districts with  $\geq 90\%$  DTP3 reported coverage

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

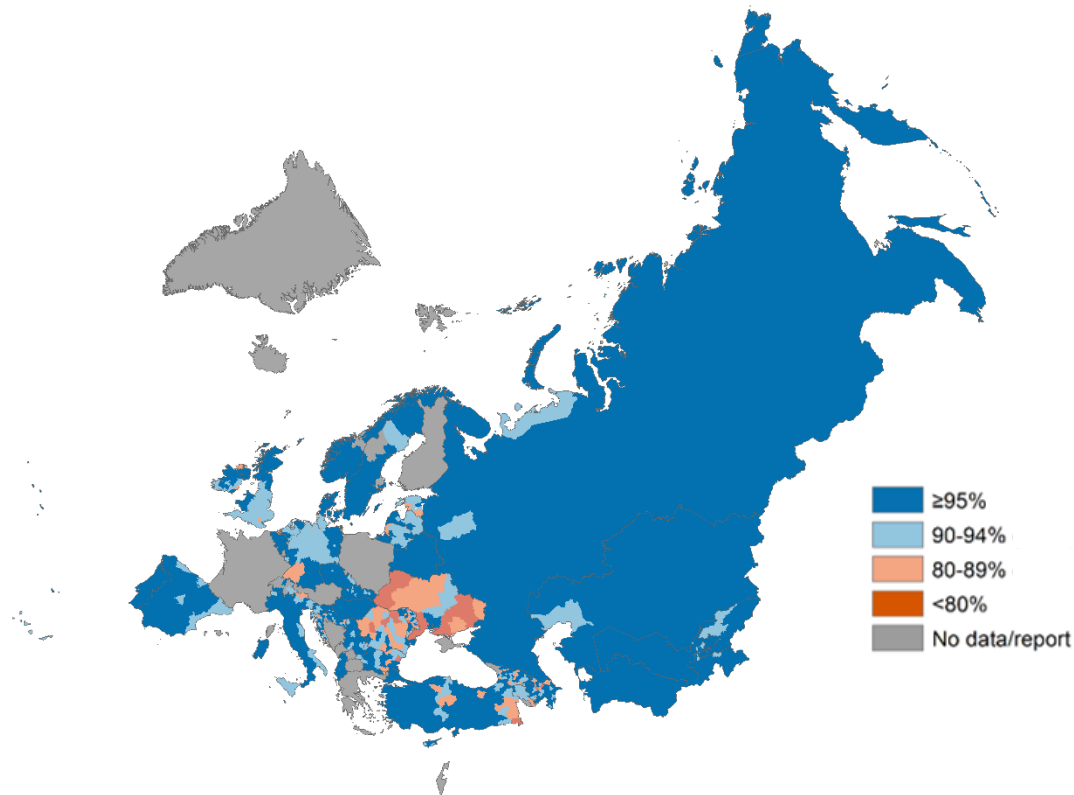
N (total # of countries in the Region) = 53

N (total # of countries in the Region with more than one administrative level) = 49

Number of countries reporting district DTP3 coverage by category were 38 in 2015, 37 in 2016 and 2017, 40 in 2018 and 37 in 2019

Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 18 August 2020

# Reported sub-national DTP3 coverage—WHO European Region, 2019



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

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

N (total # of countries in the Region with more than one administrative level) = 49

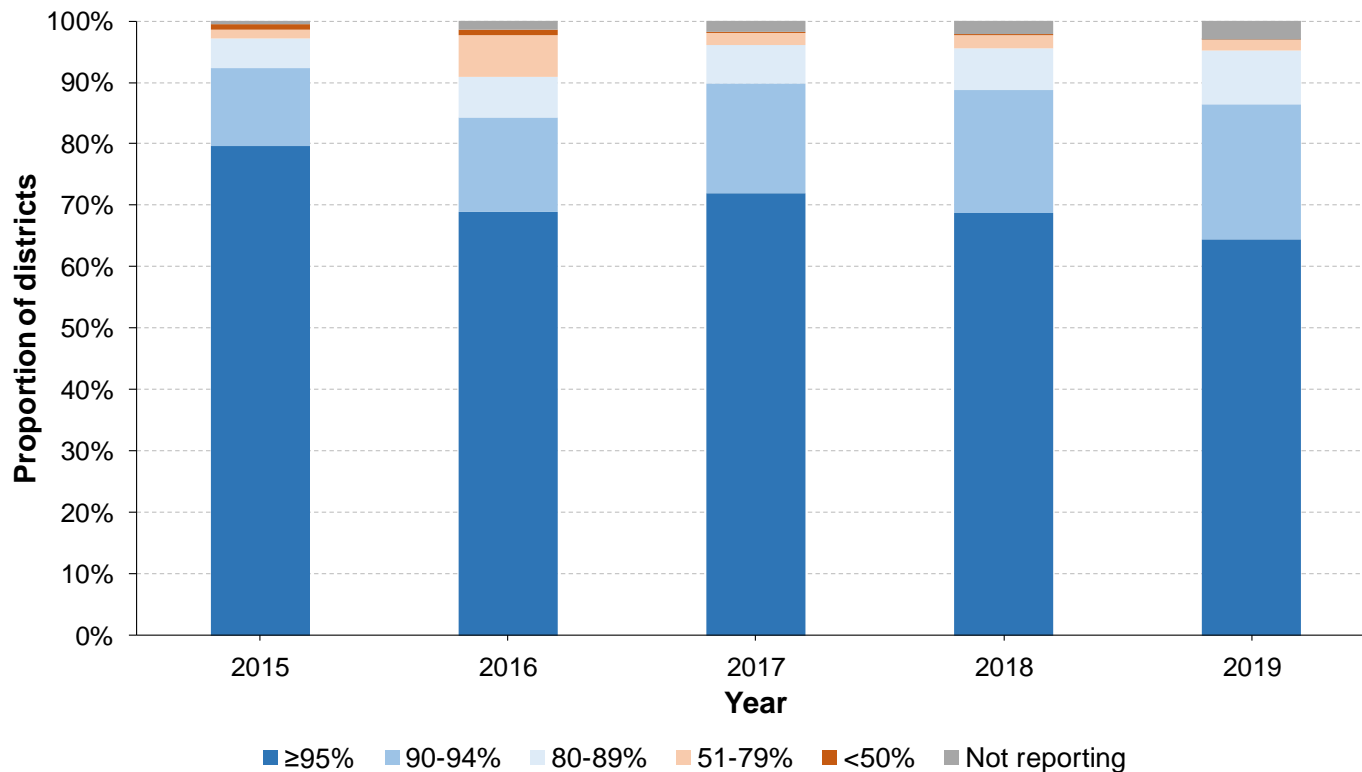
Disclaimer: The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted and dashed lines on maps represent approximate border lines for which there may not yet be full agreement. © WHO 2020.

Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 18 August 2020

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



# Proportion of districts by different categories of DTP3 reported coverage—WHO European Region, 2015–2019



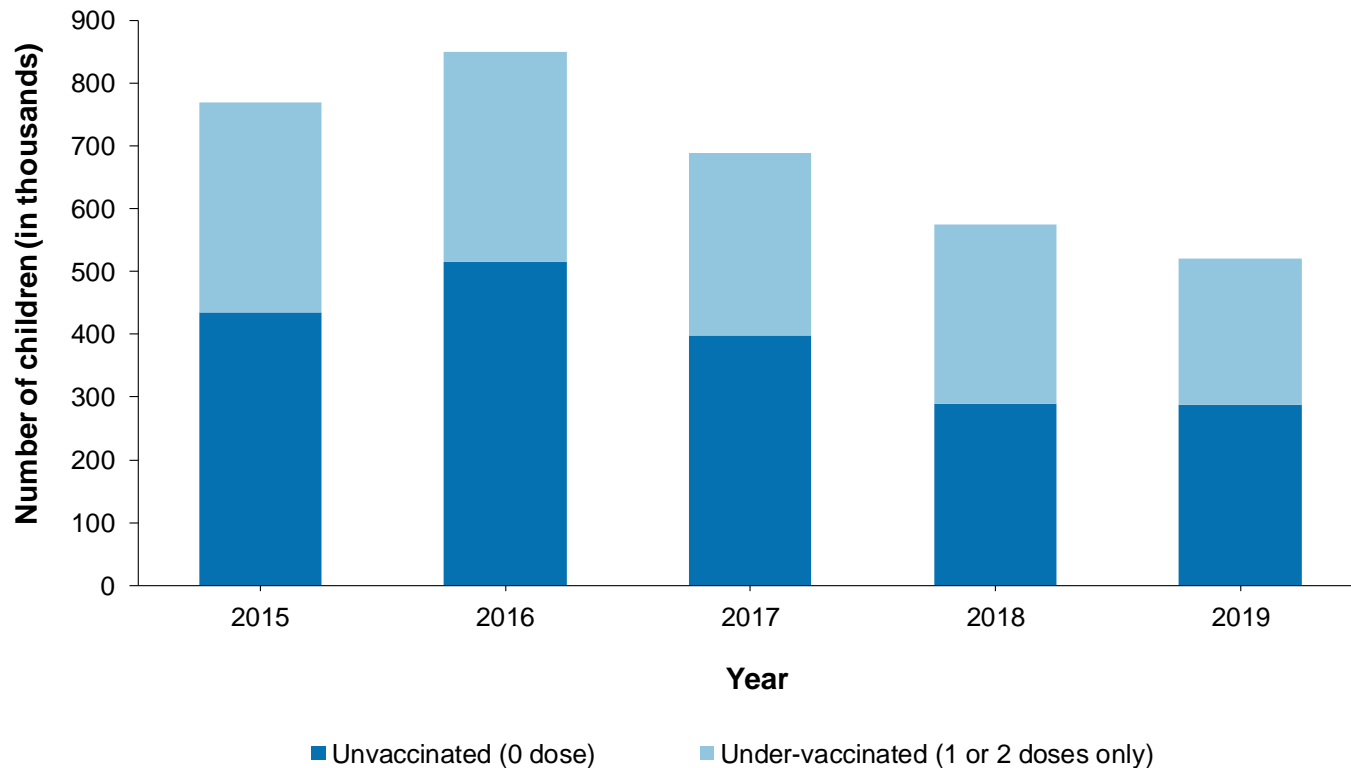
DTP3: diphtheria-tetanus-pertussis-containing vaccine, third dose  
N (total # of countries in the Region) = 53\*

\*Four countries have no subnational administrative level and are counted as 1 district

Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 18 August 2020

Number of countries not reporting district DTP3 coverage by category were 10 in 2015, 11 in 2016 and 2017, 8 in 2018 and 11 in 2019

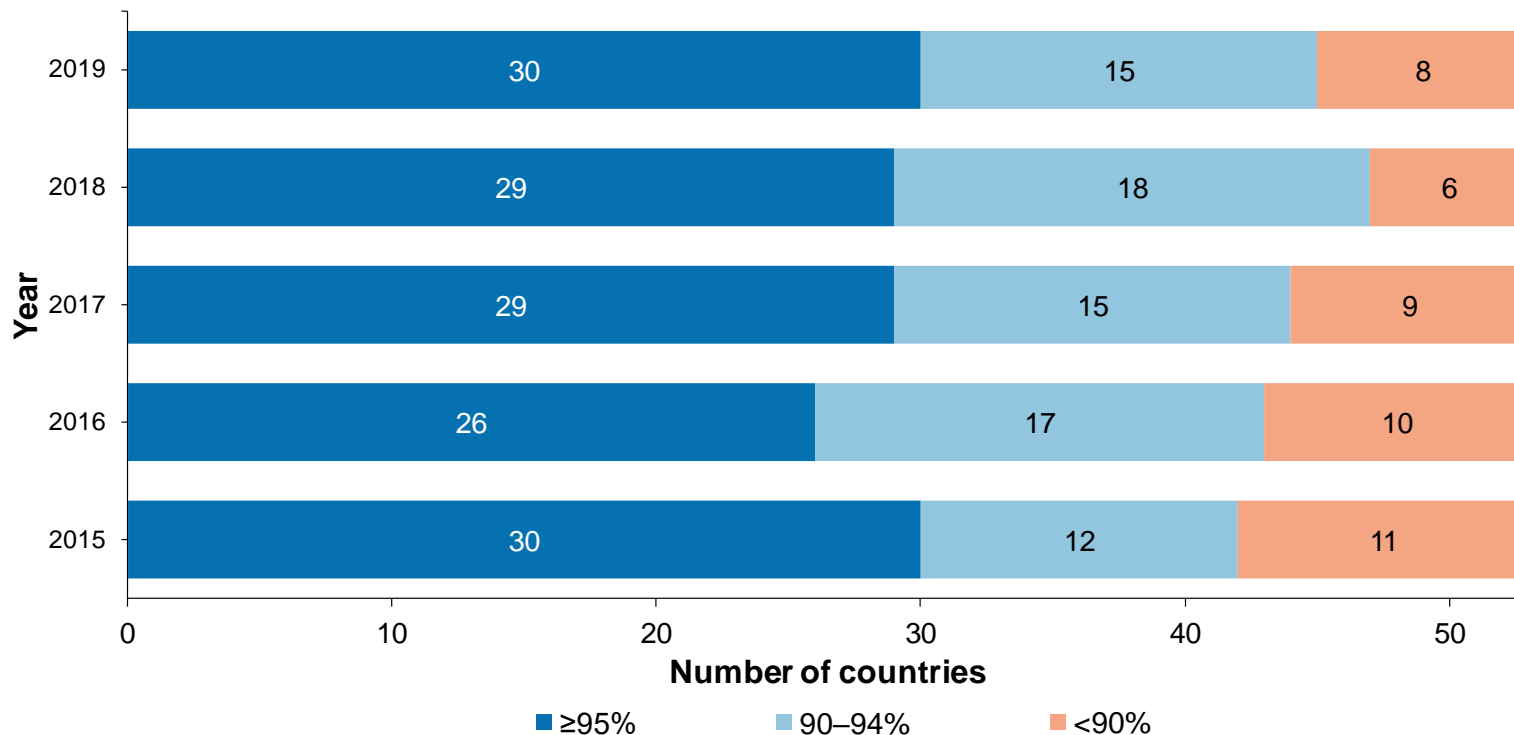
# Number of children unvaccinated and under-vaccinated with DTP-containing vaccine—WHO European Region, 2015–2019



DTP: diphtheria-tetanus-pertussis-containing vaccine

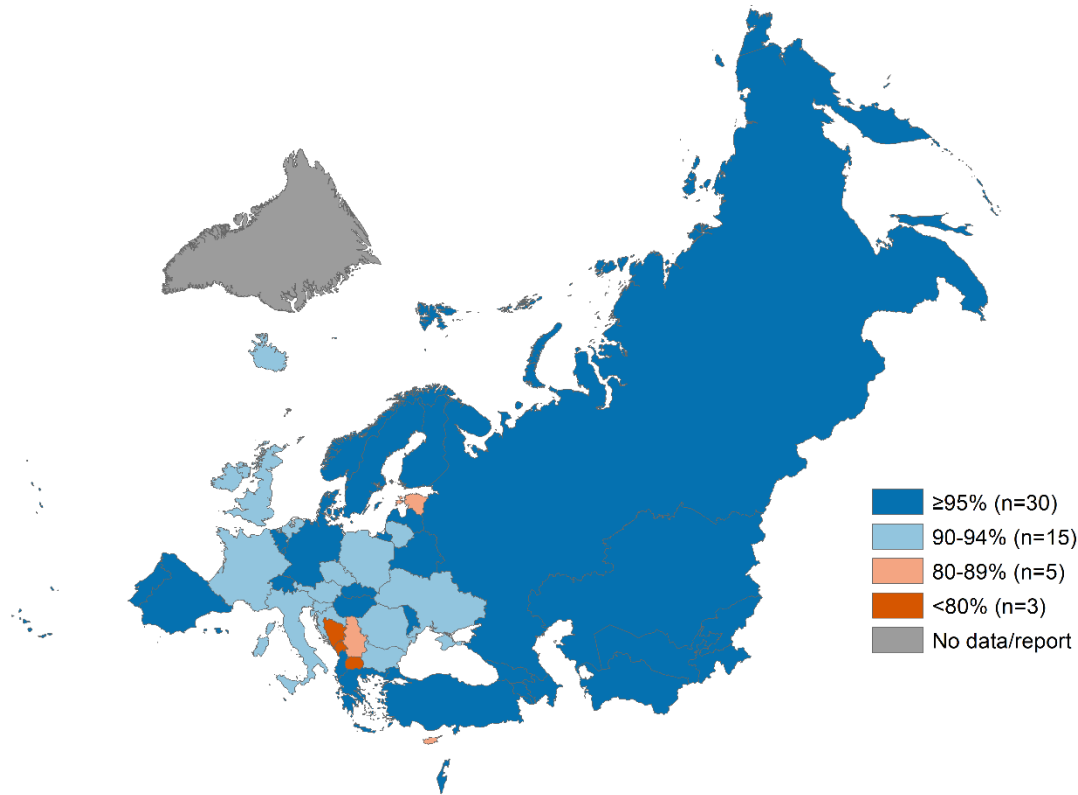
# Measles-containing vaccine, first dose (MCV1)

# Number of countries categorized by national MCV1 coverage estimate—WHO European Region, 2015–2019



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

# Countries categorized by national MCV1 coverage estimate— WHO European Region, 2019



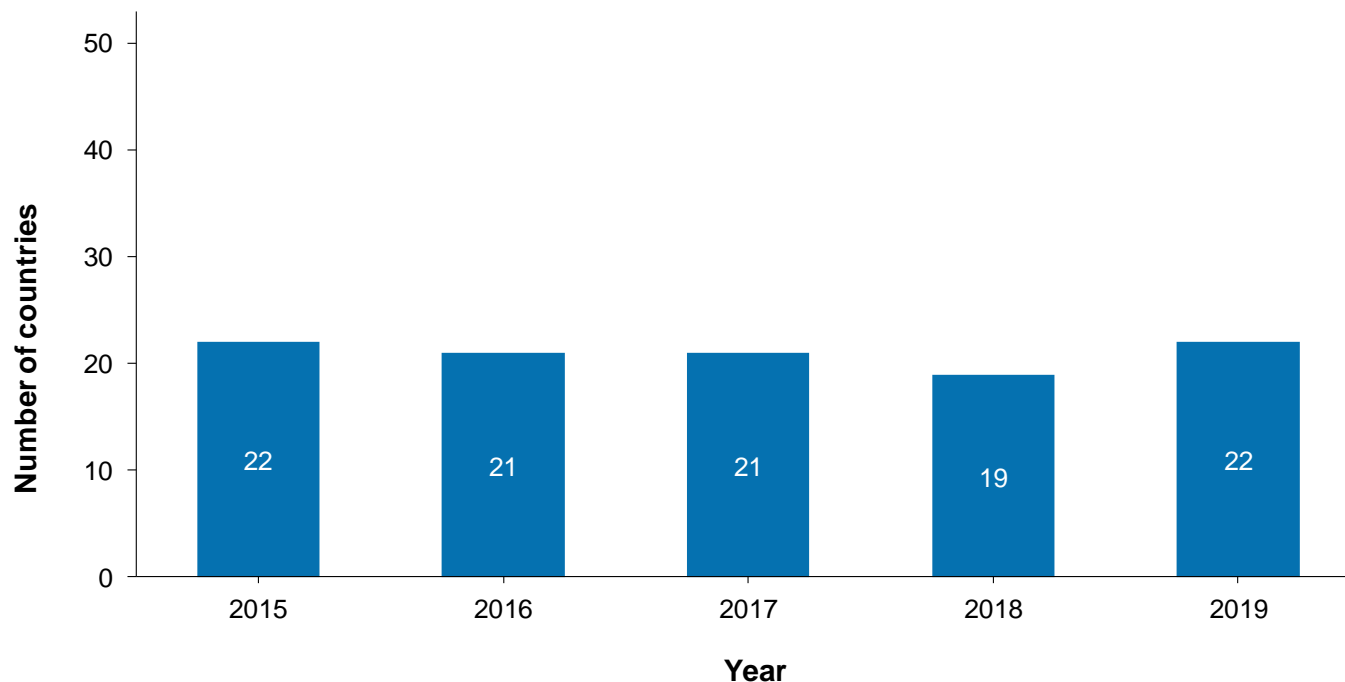
Countries with <90% MCV1 coverage estimate	
Country	% coverage
Estonia	88
Monaco	88
Serbia	87
Cyprus	86
San Marino	86
North Macedonia	75
Bosnia and Herzegovina	68
Montenegro	42

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 2020

# Number of countries with $\geq 90\%$ MCV1 reported coverage in $\geq 90\%$ of districts—WHO European Region, 2015–2019



■  $\geq 90\%$  districts with  $\geq 90\%$  MCV1 reported coverage

MCV1: measles-containing vaccine, first dose

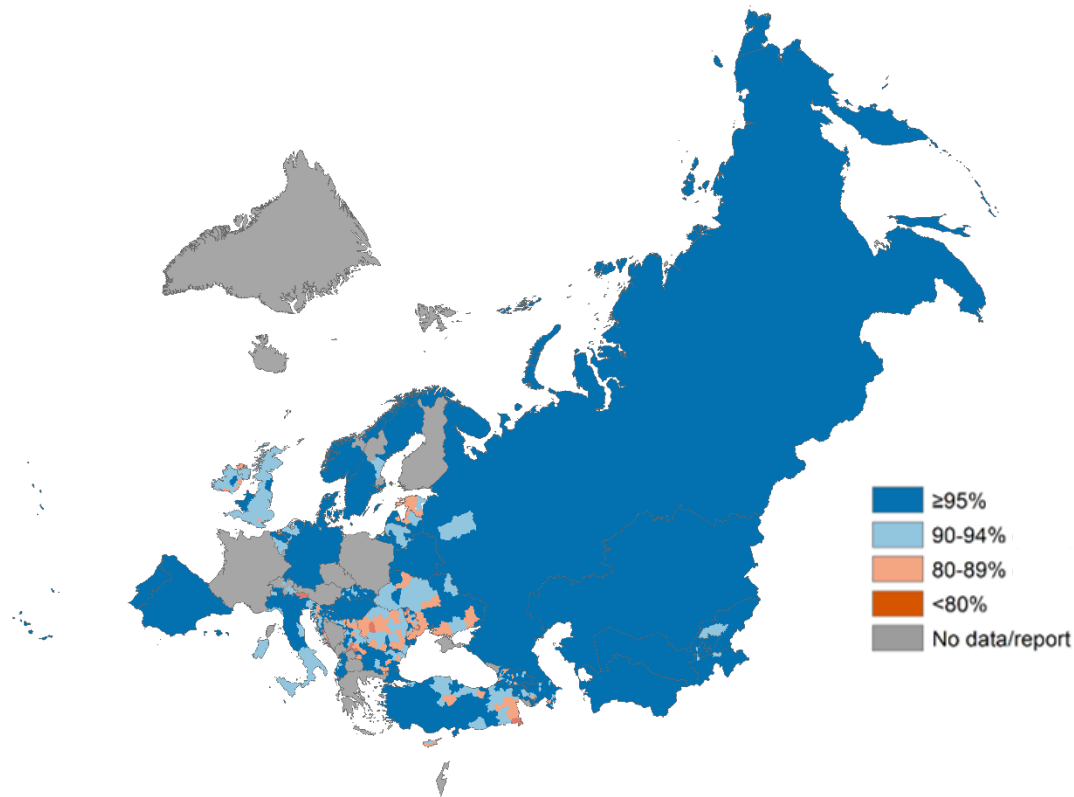
N (total # of countries in the Region) = 53

N (total # of countries in the Region with more than one administrative level) = 49

Number of countries reporting district MCV1 coverage by category were 38 in 2015, 37 in 2016, 38 in 2017, 39 in 2018 and 37 in 2019

Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 18 August 2020

# Reported sub-national MCV1 coverage—WHO European Region, 2019



MCV1: measles-containing vaccine, first dose

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

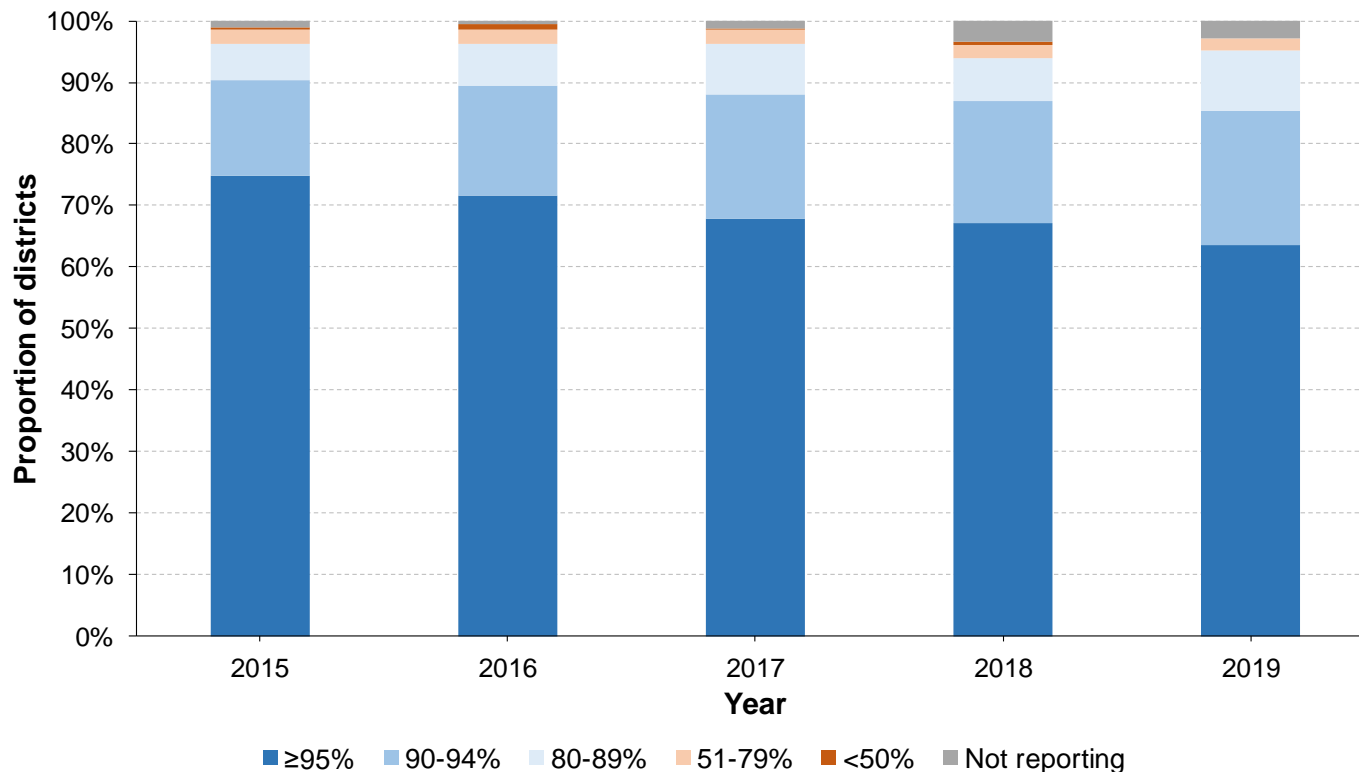
N (total # of countries in the Region with more than one administrative level) = 49

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Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 18 August 2020

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

# Proportion of districts by different categories of MCV1 reported coverage—WHO European Region, 2015–2019



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

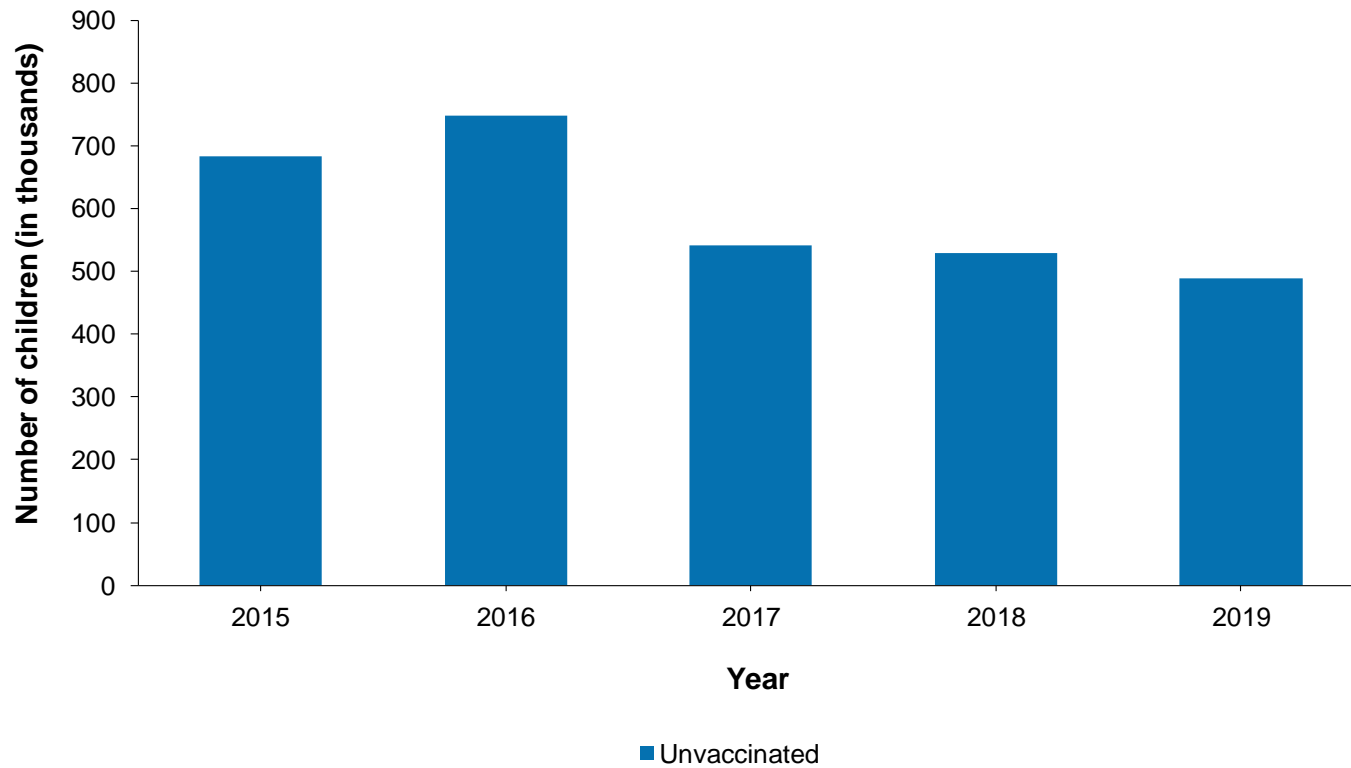
\*Four countries have no subnational administrative level and are counted as 1 district

Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 18 August 2020

Number of countries not reporting district MCV1 coverage by category were 10 in 2015, 11 in 2016, 10 in 2017, 9 in 2018 and 11 in 2019



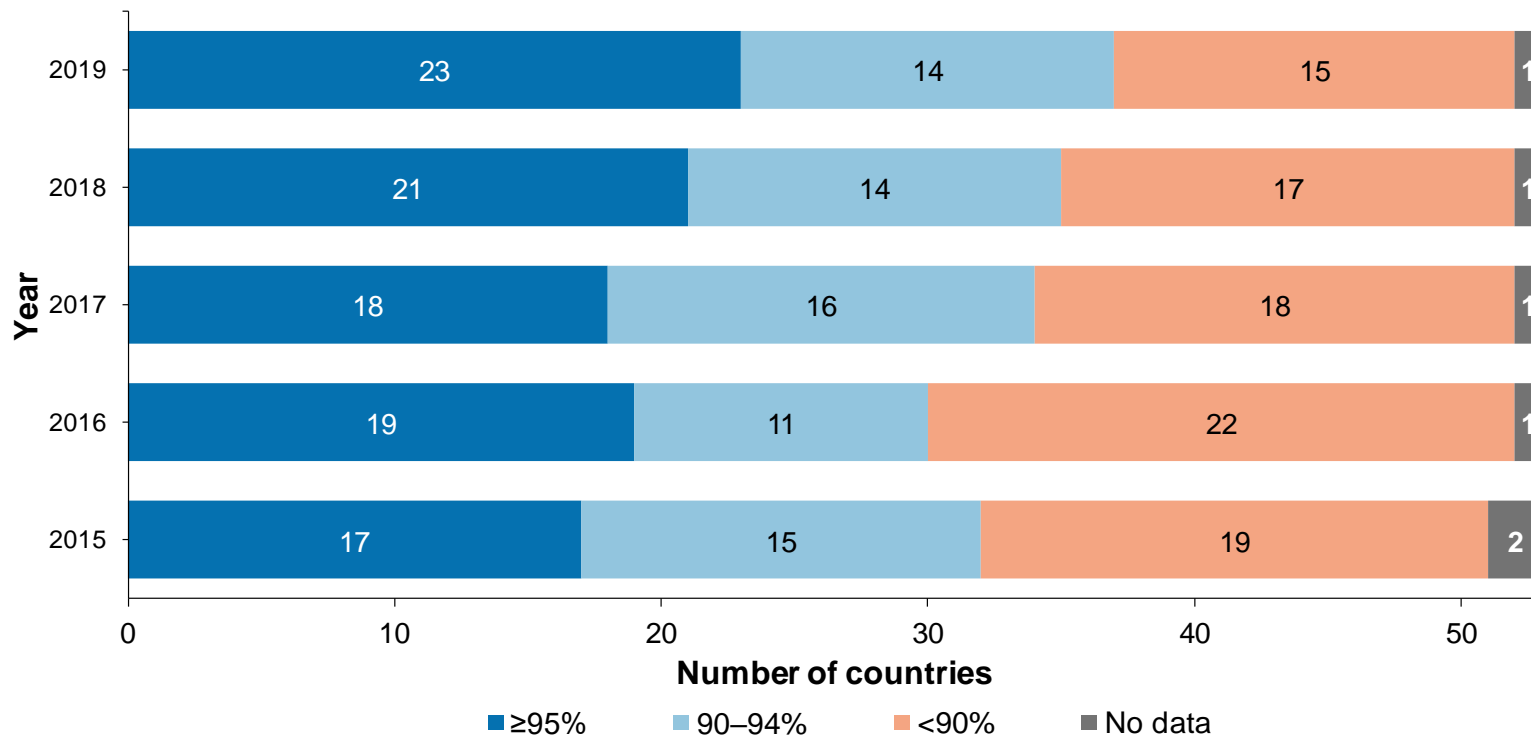
# Number of children unvaccinated with MCV1—WHO European Region, 2015–2019



MCV1: measles-containing vaccine, first dose

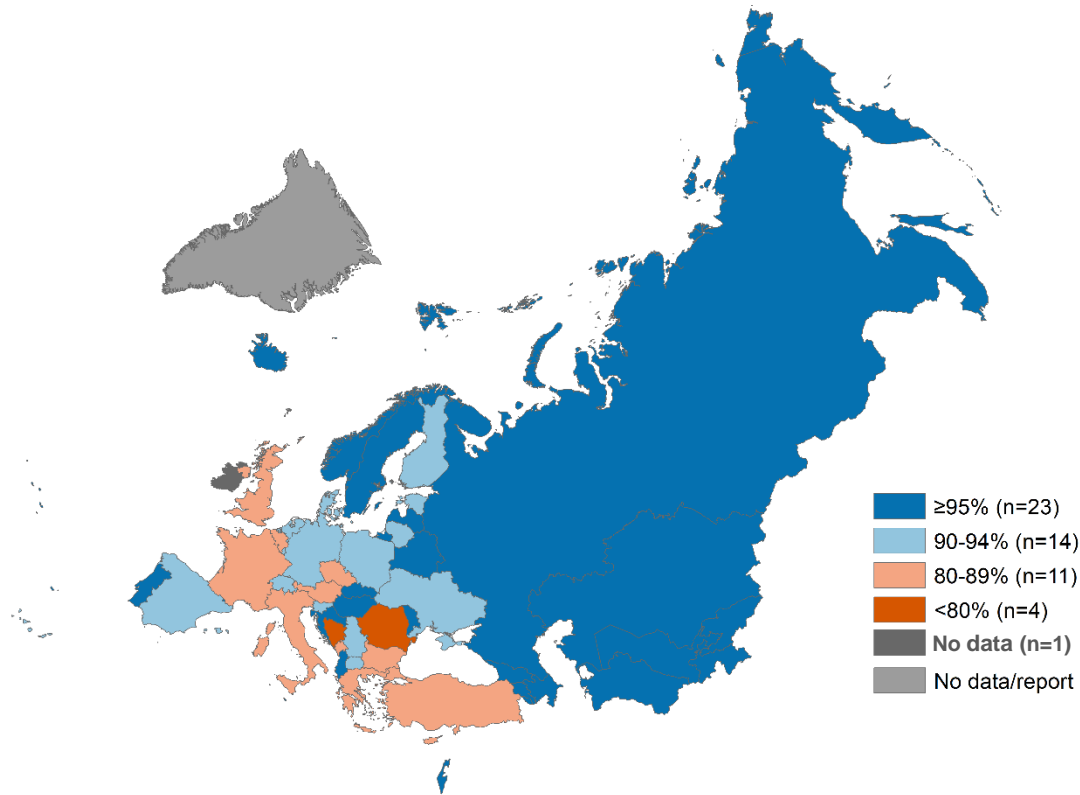
# Measles-containing vaccine, second dose (MCV2)

# Number of countries categorized by national MCV2 coverage estimate—WHO European Region, 2015–2019



MCV2: measles-containing vaccine, second dose  
N (total # of countries in the Region) = 53

# Countries categorized by national MCV2 coverage estimate— WHO European Region, 2019



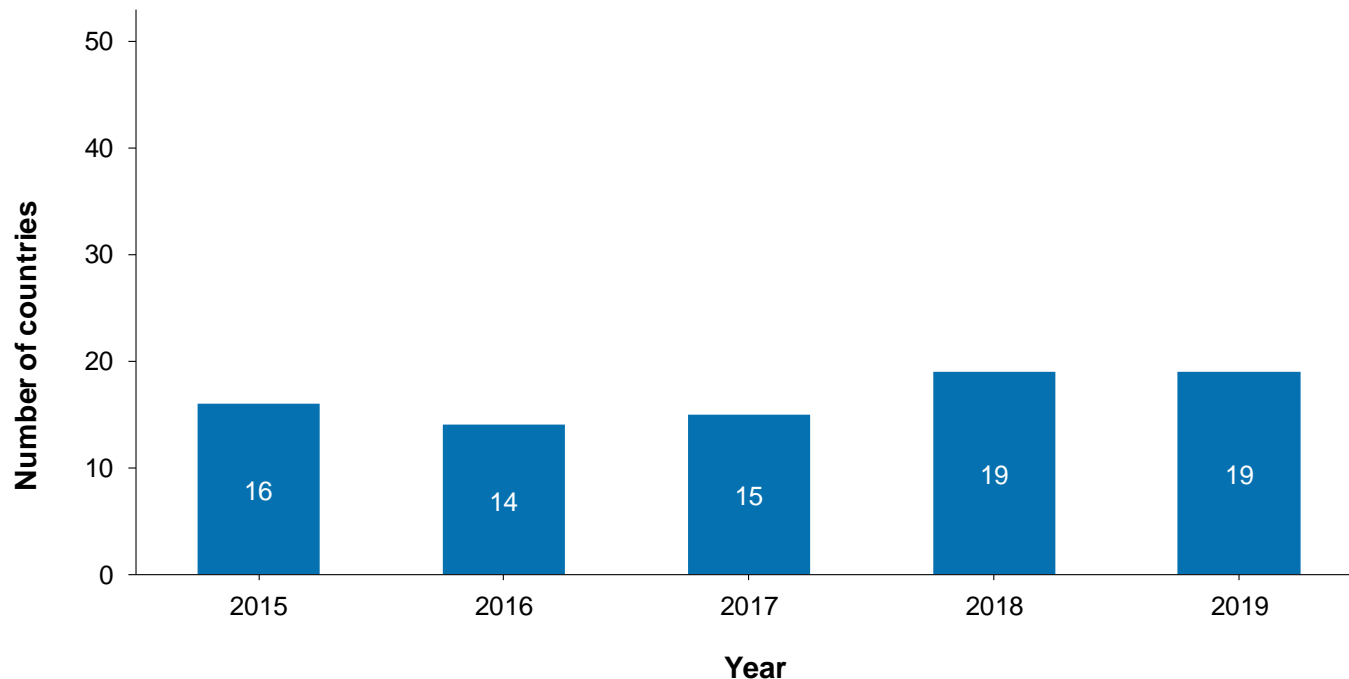
Countries with <90% MCV2 coverage estimate	
Country	% coverage
Cyprus	88
Italy	88
Turkey	88
Bulgaria	87
United Kingdom	87
Montenegro	86
Belgium	85
Austria	84
Czech Republic	84
France	83
Greece	83
Monaco	79
San Marino	79
Bosnia and Herzegovina	76
Romania	76

MCV2: measles-containing vaccine, second dose  
N (total # of countries in the Region) = 53

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# Number of countries with $\geq 90\%$ MCV2 reported coverage in $\geq 90\%$ of districts—WHO European Region, 2015–2019



■  $\geq 90\%$  districts with  $\geq 90\%$  MCV2 reported coverage

MCV2: measles-containing vaccine, second dose

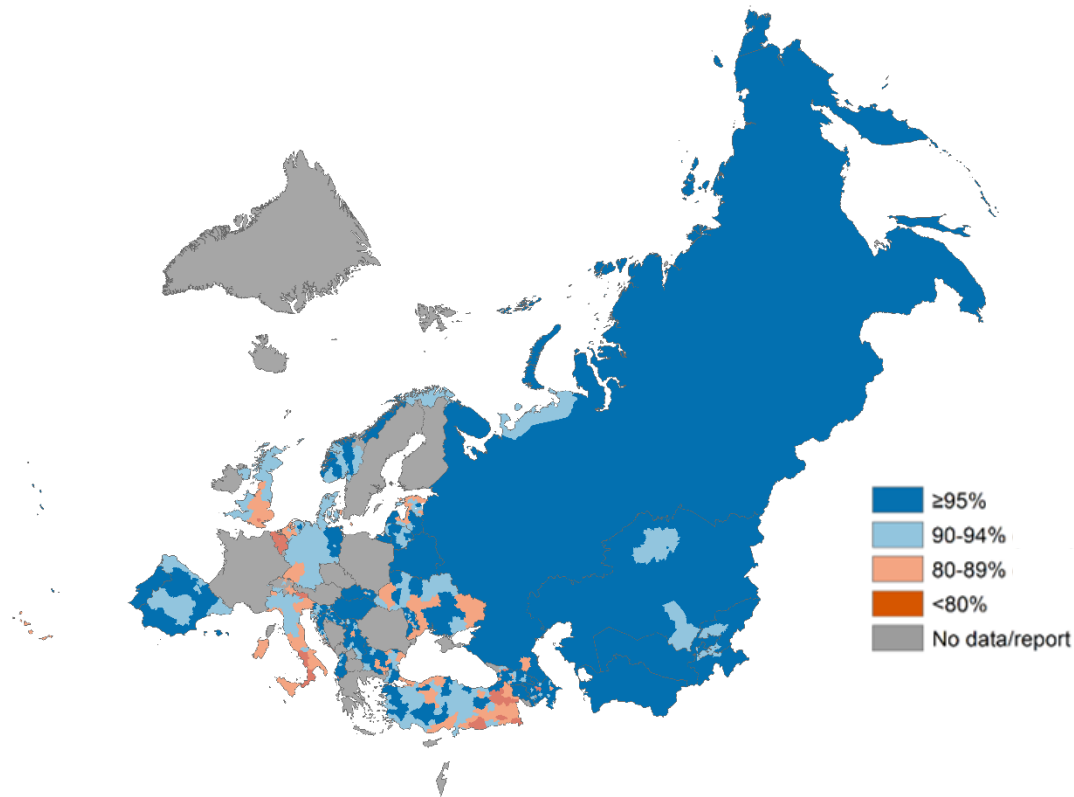
N (total # of countries in the Region) = 53

N (total # of countries in the Region with more than one administrative level) = 49

Number of countries reporting district MCV2 coverage by category were 33 in 2015 and 2016, 36 in 2017 and 2018 and 33 in 2019

Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 18 August 2020

# Reported sub-national MCV2 coverage—WHO European Region, 2019



MCV2: measles-containing vaccine, second dose

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

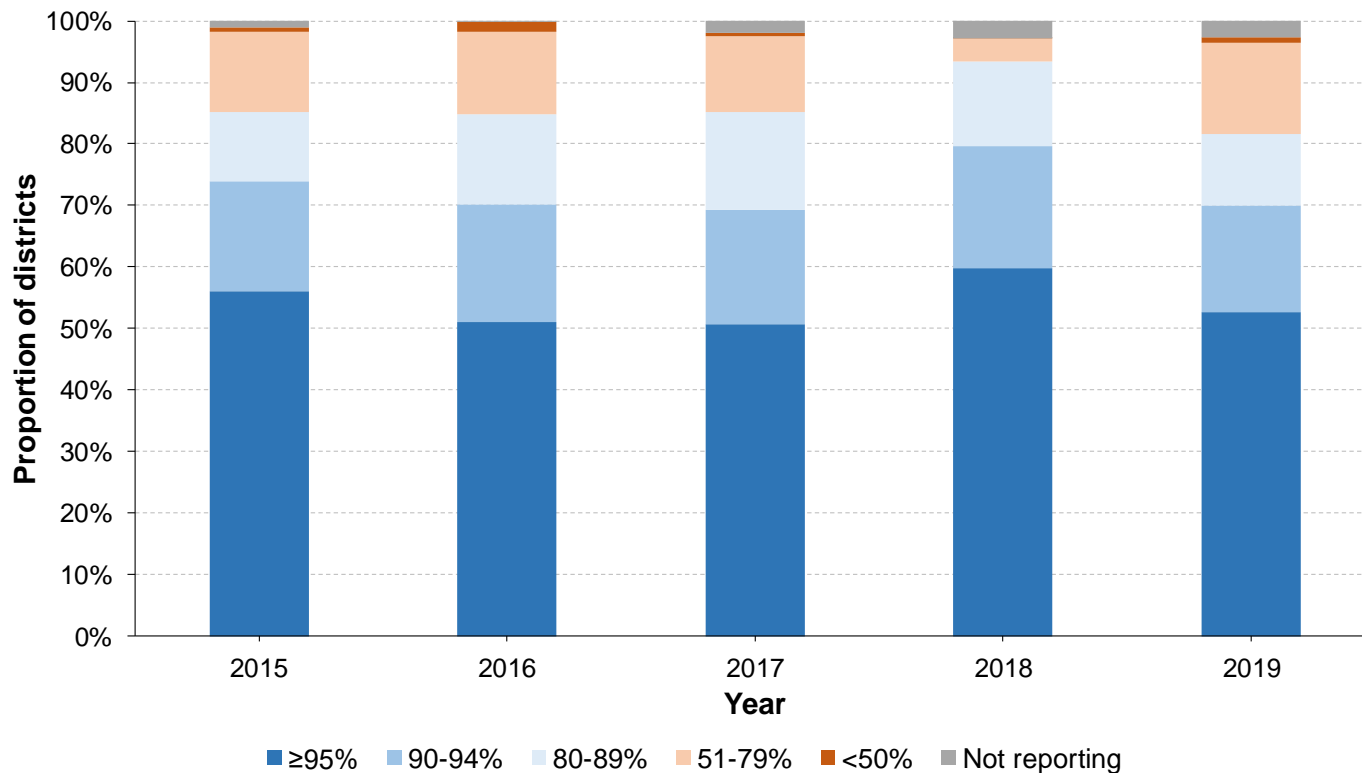
N (total # of countries in the Region with more than one administrative level) = 49

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Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 18 August 2020

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

# Proportion of districts by different categories of MCV2 reported coverage—WHO European Region, 2015–2019



MCV2: measles-containing vaccine, second dose  
N (total # of countries in the Region) = 53\*

\*Four countries have no subnational administrative level and are counted as 1 district

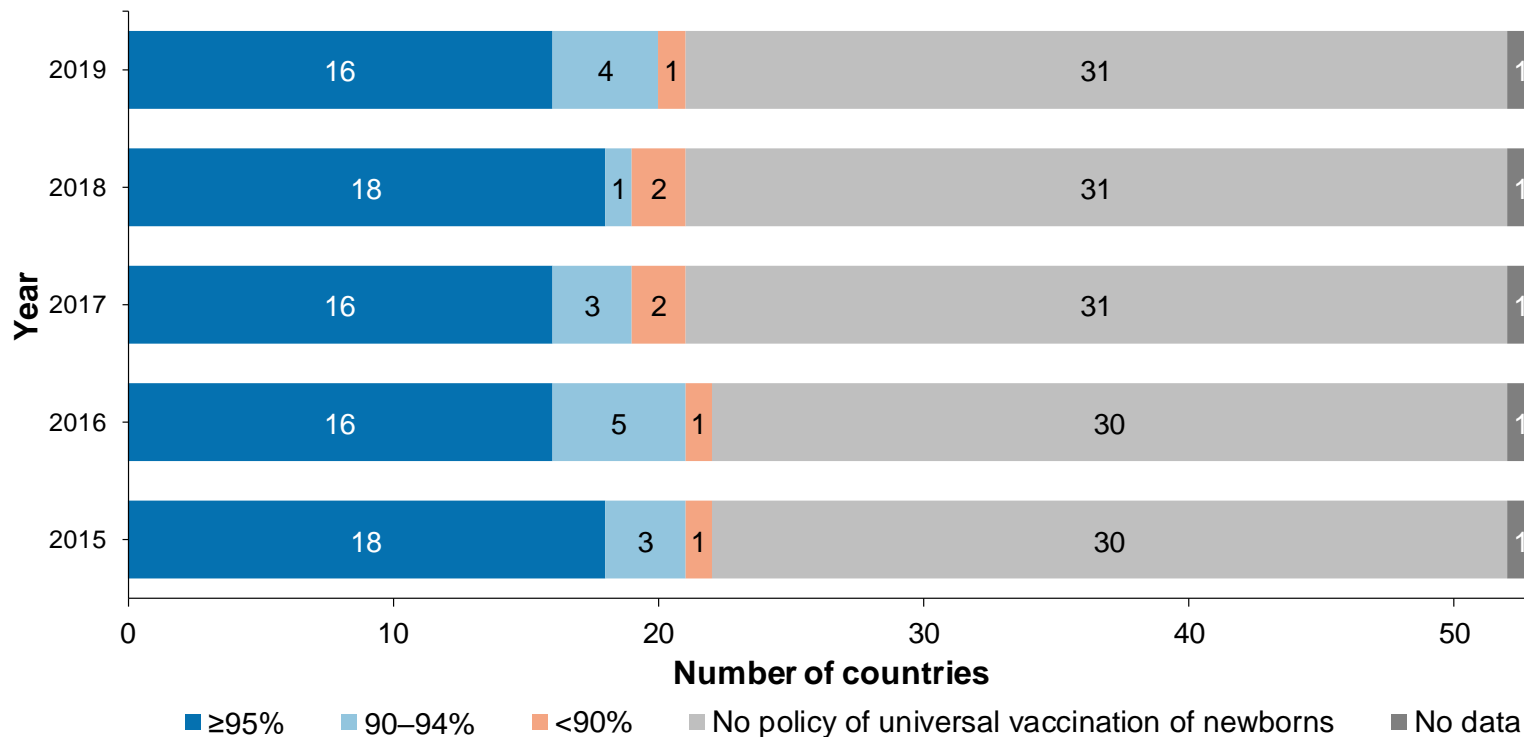
Data source: WHO/UNICEF Joint Reporting Form on immunization (JRF) as of 18 August 2020

Number of countries not reporting district MCV2 coverage by category were 15 in 2015 and 2016, 12 in 2017 and 2018, and 15 in 2019

# Hepatitis-containing vaccine, birth and third dose

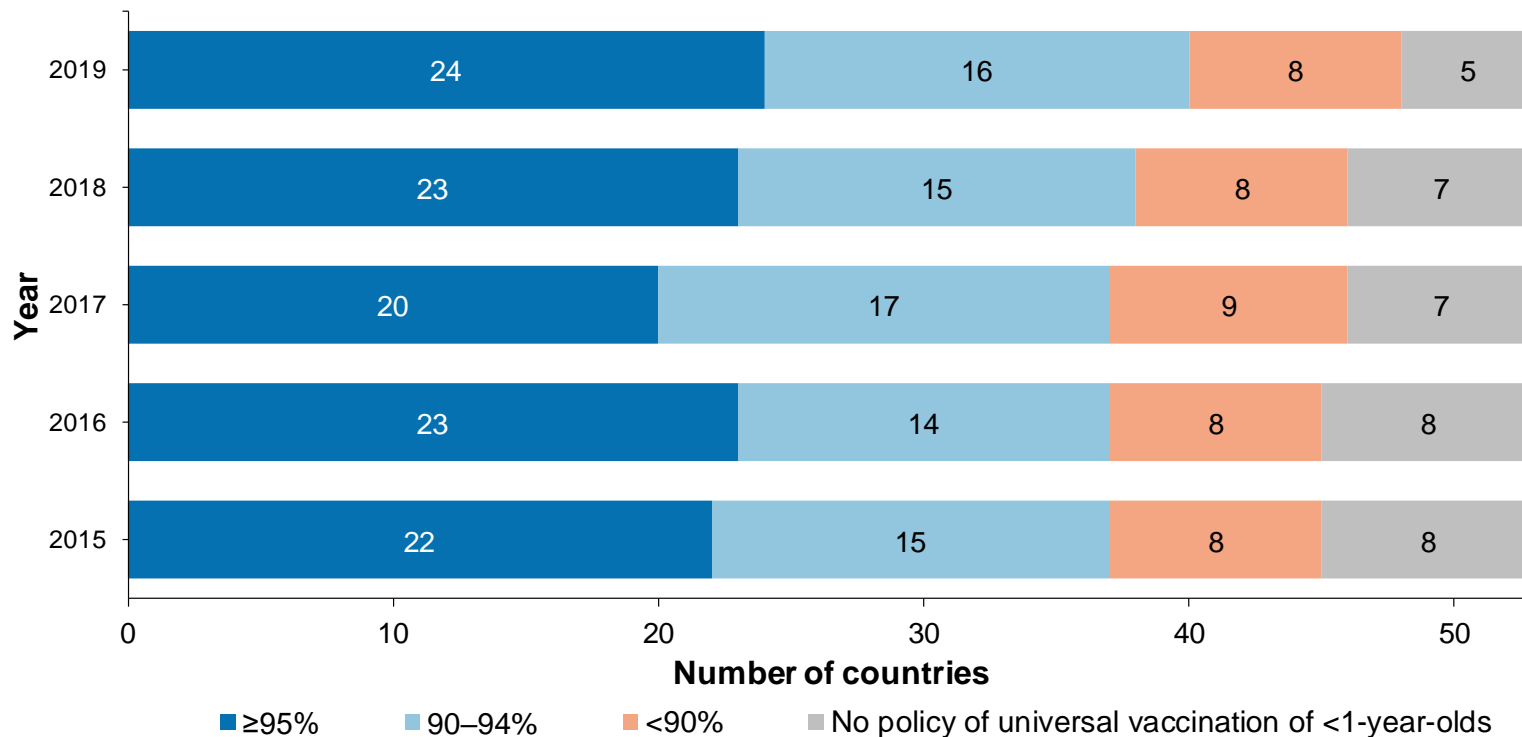


# Number of countries categorized by national HepB-BD coverage estimate—WHO European Region, 2015–2019



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, 2015–2019



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)  
[http://apps.who.int/immunization\\_monitoring/globalsummary/timeseries/tswucoveragebcg.html](http://apps.who.int/immunization_monitoring/globalsummary/timeseries/tswucoveragebcg.html)
- Polio laboratory network  
[www.euro.who.int/poliolabnetwork](http://www.euro.who.int/poliolabnetwork)