Measles, Rubella and Congenital Rubella Syndrome (CRS) Country Profile

Venezuela

Pan American Health Organization

Introduction

The measles and rubella country profile aims to facilitate the analysis of data compiled in the last five years. This profile was only developed for those countries who officially reported vaccination coverage and case by case surveillance and laboratory data to the Pan American Health Organization (PAHO). There may be minor differences in the country profile if the country has updated data that was not reported to PAHO. The country profile will be automatically updated twice per year: at the end of April (surveillance data) and at the end of September (vaccination coverage data).

> **Note**
>
> The latest update dates for this country profile are available in the ***Update dates*** section.

General Information

Table 1: Demographic data, 2023.

Demographic group	Population
1 year of age	440,551
Total population	28,838,499

Table 2: Last endemic cases by year and disease.

Measles	Rubella	CRS
2019	2007	NA

Table 3: Vaccination schedule.

Vaccine	1st Dose	2nd Dose	MMR2 Year Introduced
MMR	12 mo	18 mo	2009

Table 4: Accumulation of susceptibles for measles and rubella.

Year of the last follow-up campaign	Vaccine used (M, MR, MMR)	Age group vaccinated	Number vaccinated (numerator)	Coverage of the follow-up campaign (B/C)*100	Number of susceptibles 1-4 years of age	Year of next campaign
2022	MMR	1-6 years	2,479,675	88	NA	NA

Epidemiology and Quality of Surveillance

Figure 1: Distribution of suspected MR cases and notification rate at the national level, 2019-2023.

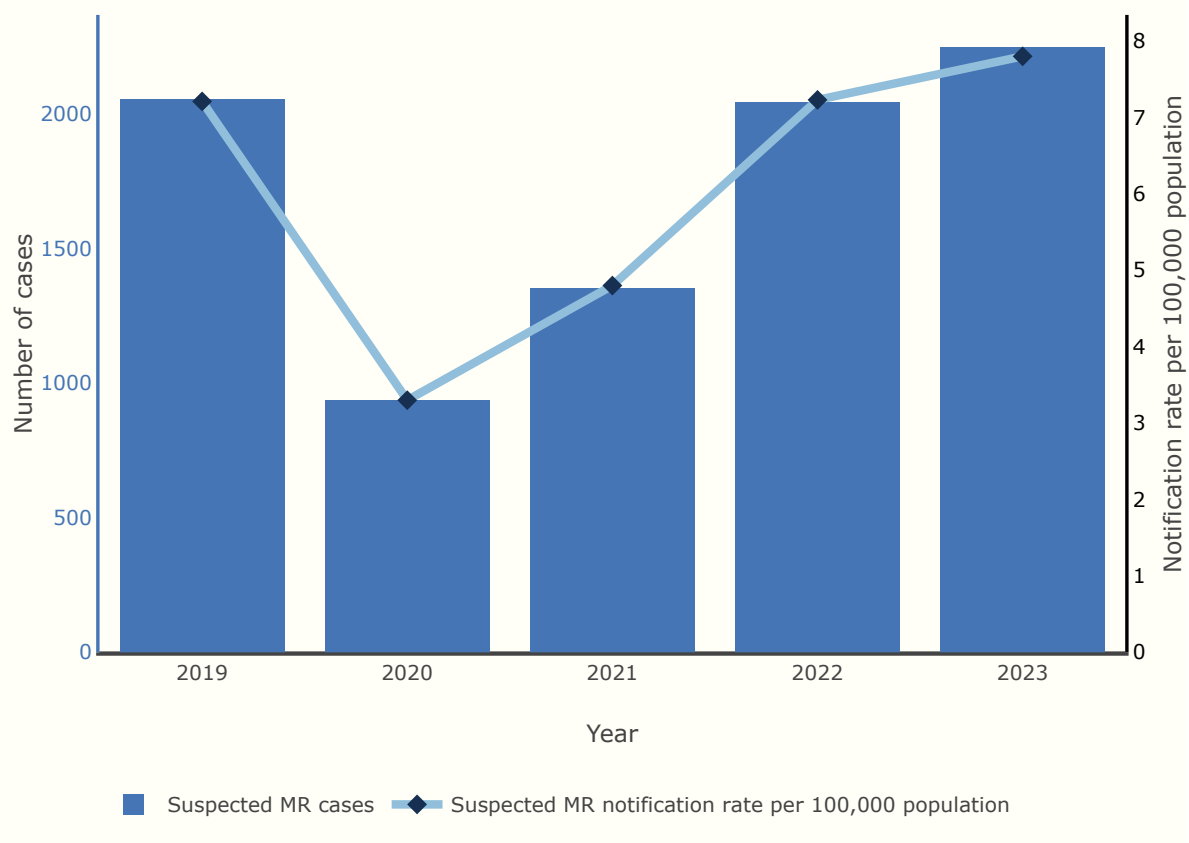


Table 5: Distribution of suspected MR cases and notification rate at the national level, 2019-2023.

	2019	2020	2021	2022	2023
Suspected MR cases	2,056	937	1,354	2,045	2,249
Suspected MR notification rate per 100,000 population	7.21	3.3	4.8	7.23	7.8

Figure 2: Distribution of suspected CRS cases and notification rate at the national level, 2019-2023.

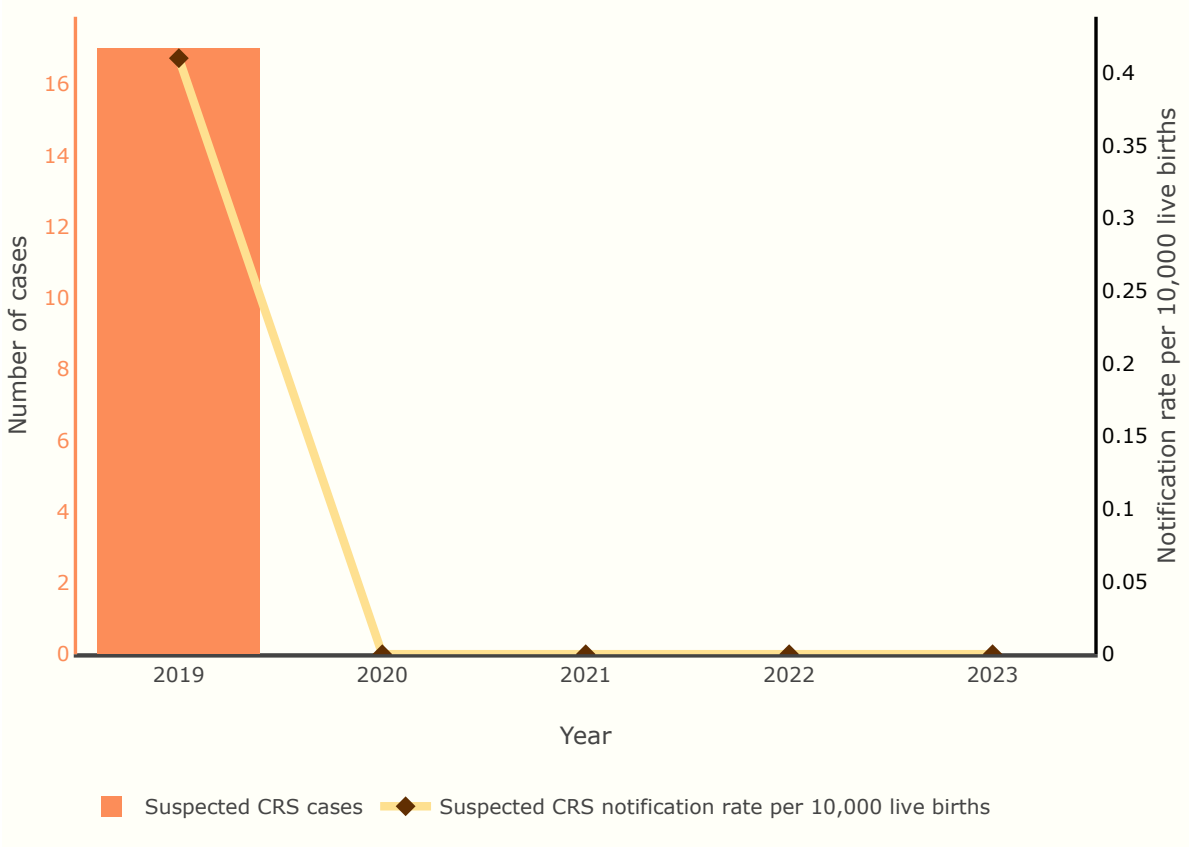


Table 6: Distribution of suspected CRS cases and notification rate at the national level, 2019-2023.

	2019	2020	2021	2022	2023
Suspected CRS cases	17	0	0	0	0
Suspected CRS notification rate per 10,000 live births	0.41	0	0	0	0

Figure 3: Reported cases of measles and rubella by epidemiological week and final classification: confirmed, discarded and under investigation, 2019-2023.

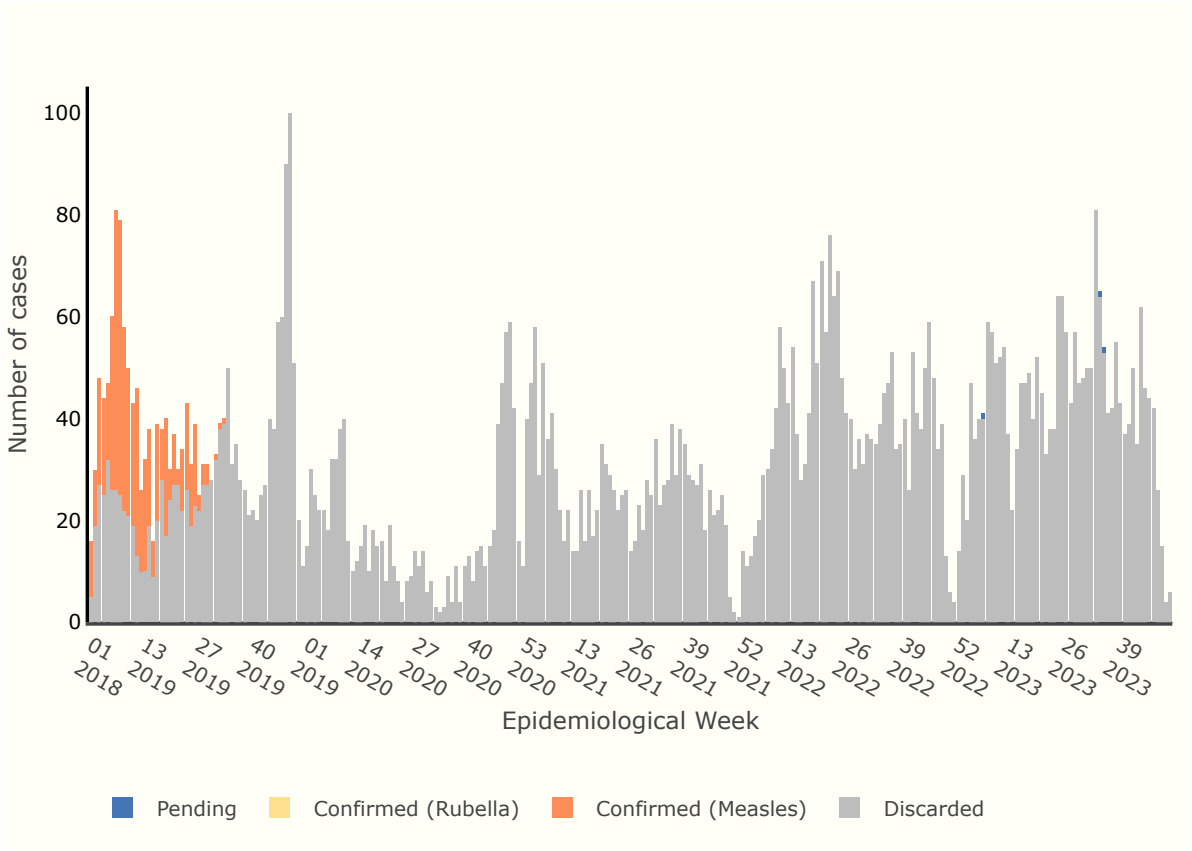


Figure 4: Reported cases of measles and rubella by year and final classification: confirmed, discarded and under investigation, 2019-2023.

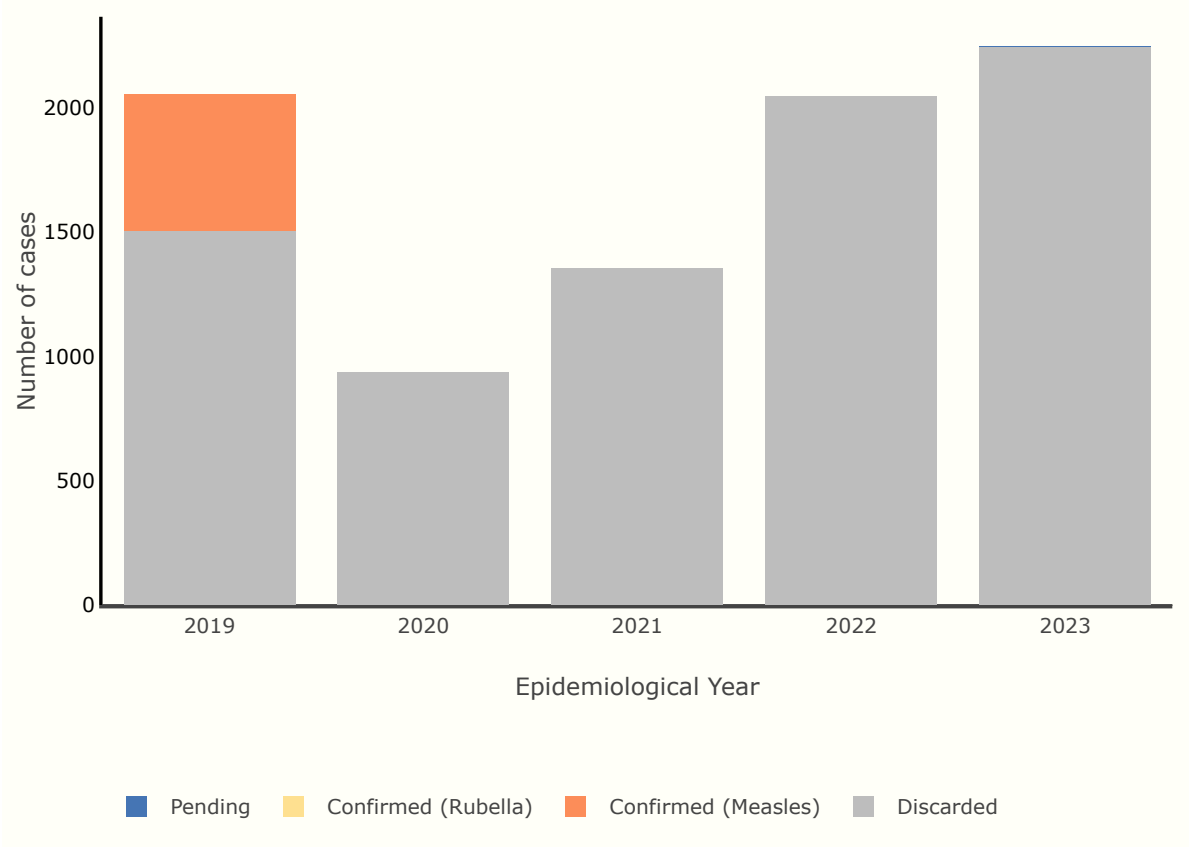


Table 7: Reported cases of measles and rubella by epidemiological year and final classification, 2019-2023.

Classification	2019	2020	2021	2022	2023
Confirmed (Measles)	548	0	0	0	0
Confirmed (Rubella)	0	0	0	0	0
Pending	0	0	0	0	3
Discarded	1508	937	1354	2045	2246
Total	2056	937	1354	2045	2249

Figure 5: Distribution of reported measles and rubella cases and incidence rate by age group, 2019-2023.

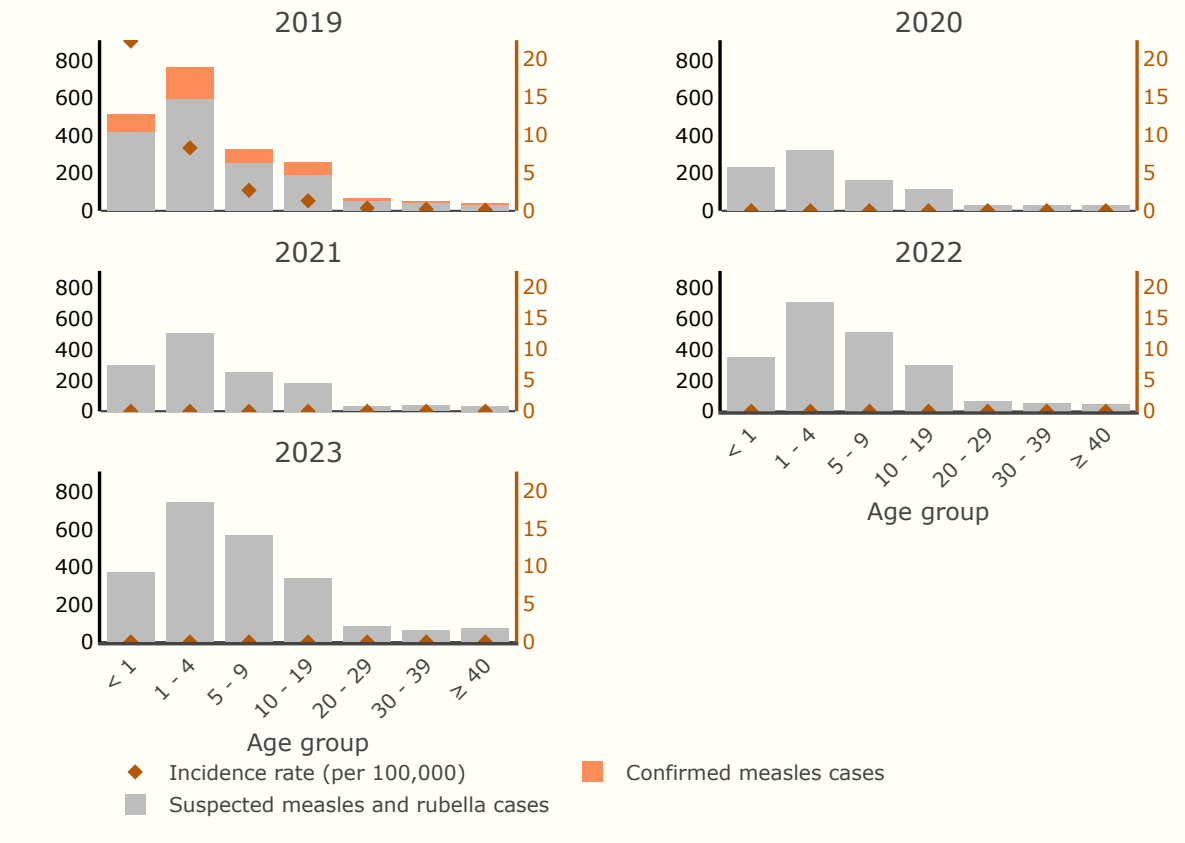


Figure 6: Performance indicators of measles and rubella surveillance by year, 2019-2023.

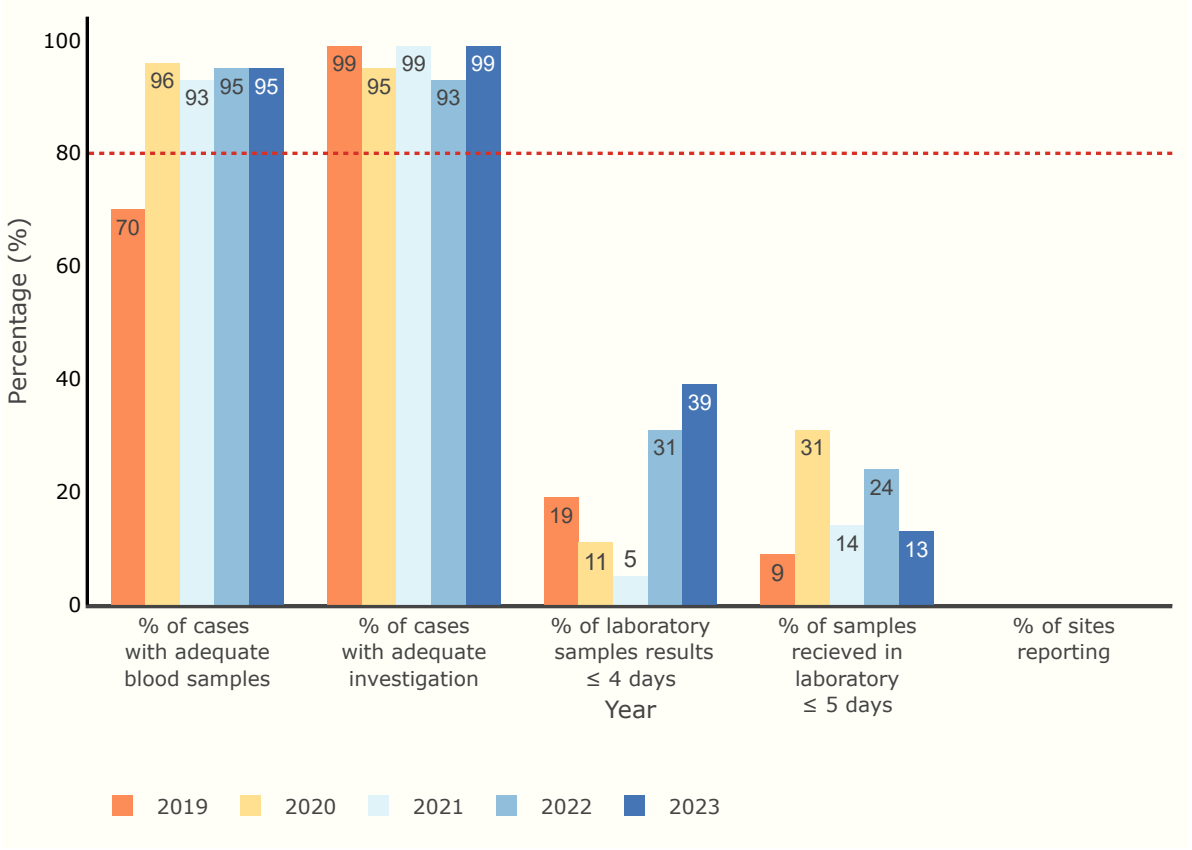


Figure 7: Proportion of the 11 variables reported for adequate investigation indicator, 2023.

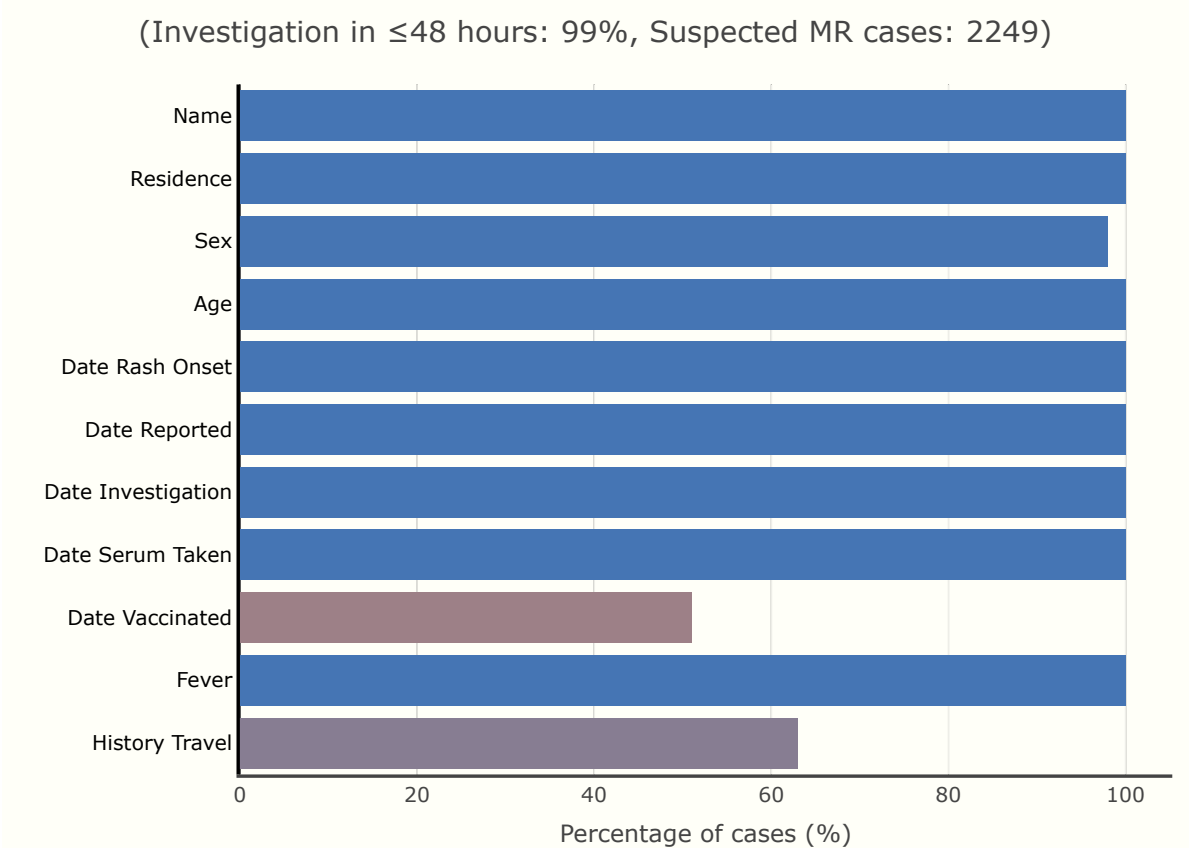


Table 8: Municipalities reporting measles and rubella suspected cases by year, 2019-2023.

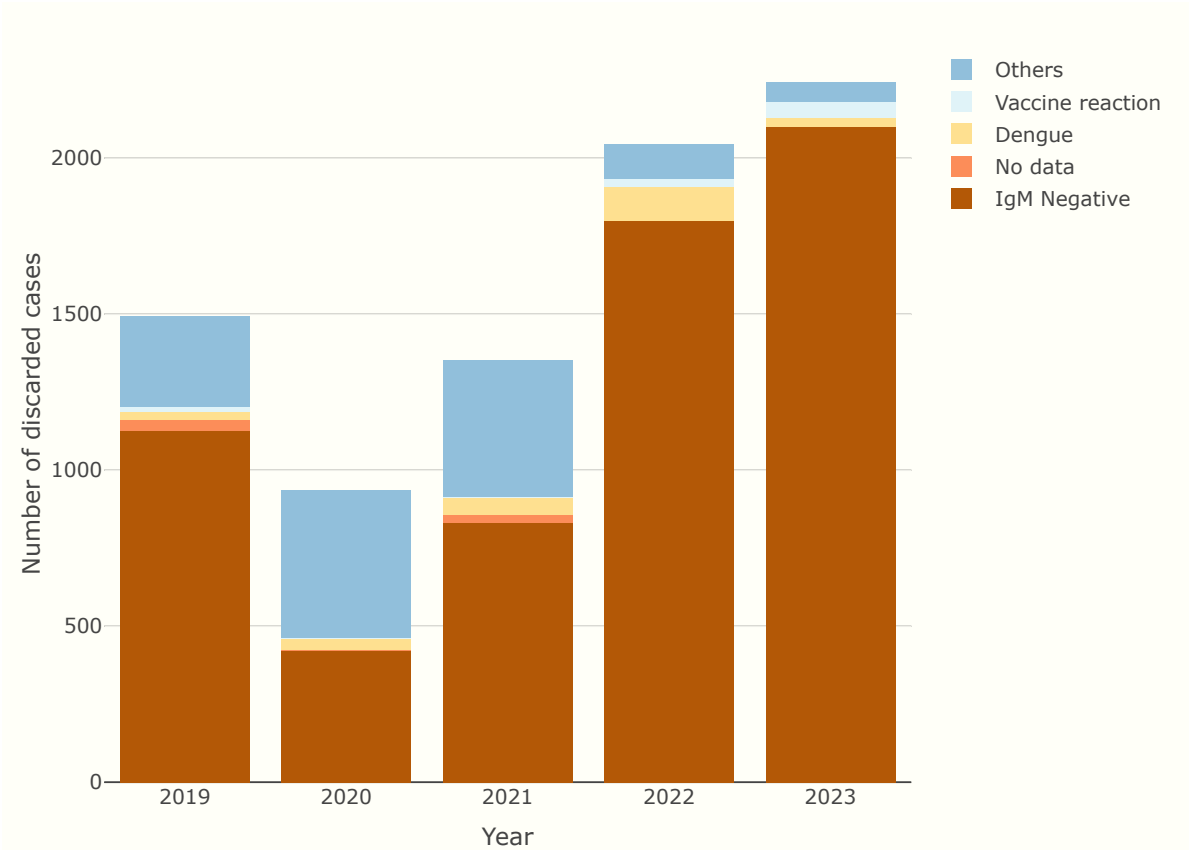
Year	No. of municipalities reporting suspected cases	Total municipalities in the country	% of municipalities reporting suspected cases
2019	265	366	72
2020	266	366	0
2021	302	335	90
2022	287	335	86
2023	321	335	96

Laboratory Surveillance

Table 9: Criteria used to discard suspected measles and rubella cases by year, 2019-2023.

Year	No. of suspected cases reported	No. of discarded cases	Criteria for discarding			No. of cases discarded by other differential diagnosis					
			IgM Negative	No data	Others	Vaccine reaction	Dengue	Parvo virus	Herpes 6	Allergic reaction	Others
2019	2057	1491	1128	33	332	17	26	0	0	0	289
2020	935	935	421	3	511	4	35	1	0	8	463
2021	1354	1354	831	27	496	5	52	0	0	30	409
2022	2045	2045	1798	0	247	23	112	1	0	2	109
2023	2248	2245	2100	1	144	53	28	1	0	0	62

Figure 8: Distribution of discarded measles and rubella suspected cases by basis for discarding, 2019-2023.



Analysis of Vaccination Coverage and Population Cohorts

Figure 9: Coverage of the first dose of measles-mumps-rubella (MMR1) vaccine, number of doses administered, and number of children 1 year of age, 2019-2023.

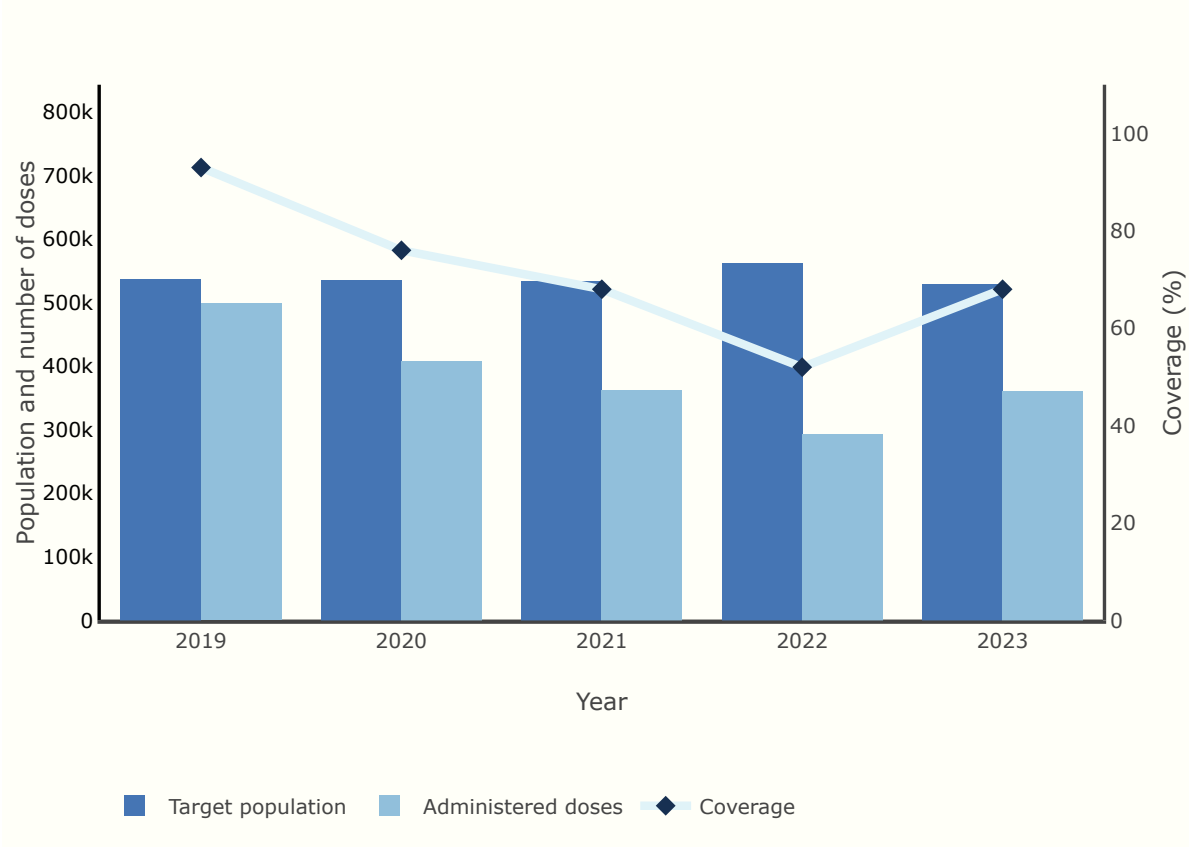


Figure 10: Coverage of the second dose of measles-mumps-rubella (MMR2) vaccine, number of doses administered, and number of children 18 month(s) of age, 2019-2023.

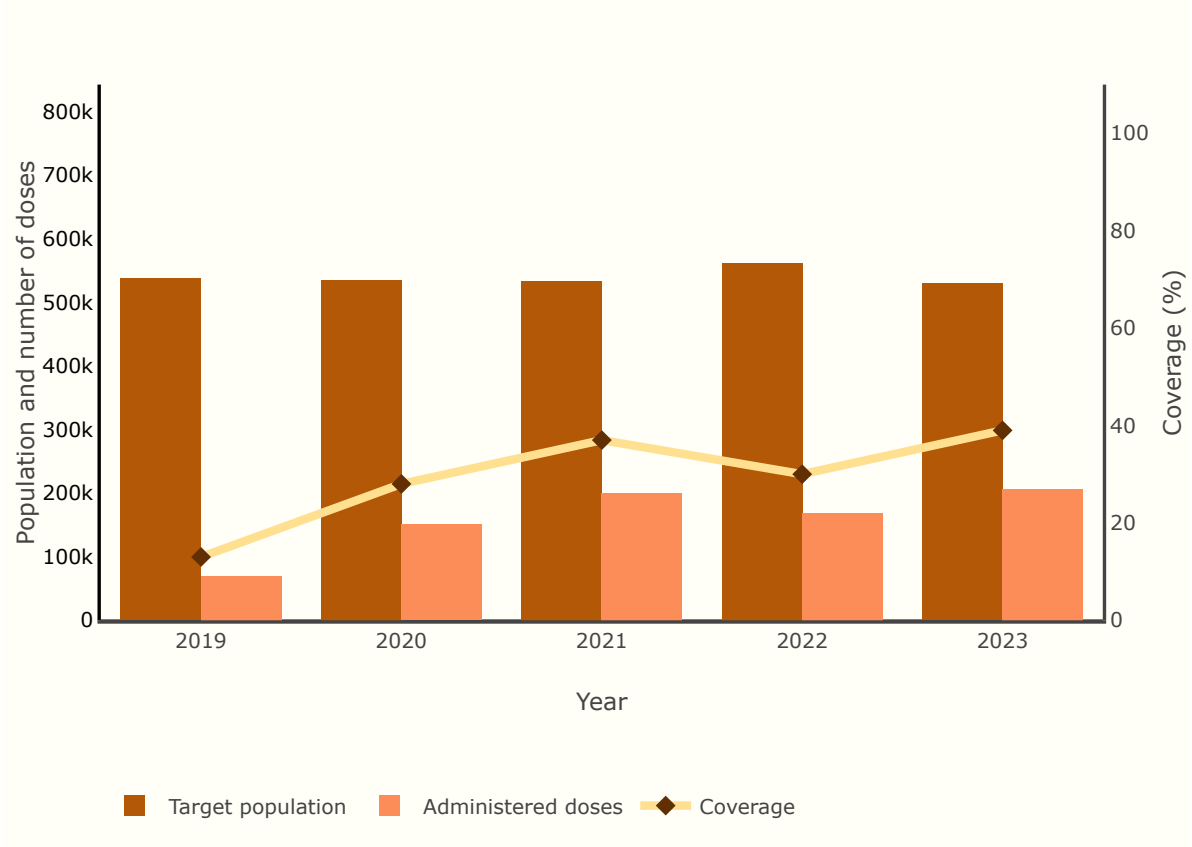


Table 10: Vaccination coverage with first and second dose of measles-mumps-rubella (MMR1 and MMR2) vaccines by target population and administered doses, 2019-2023.

	MMR1			MMR2		
Year	Administered doses	Target population	Coverage	Administered doses	Target population	Coverage
2019	498,537	537,482	93	69,292	537,482	13
2020	407,949	535,575	76	151,011	535,575	28
2021	362,793	533,590	68	199,978	533,590	37
2022	293,176	561,850	52	168,410	561,850	30
2023	360,732	529,741	68	206,906	529,741	39

Figure 11: Proportion of municipalities by MMR1 vaccination coverage ranges, 2019-2023.

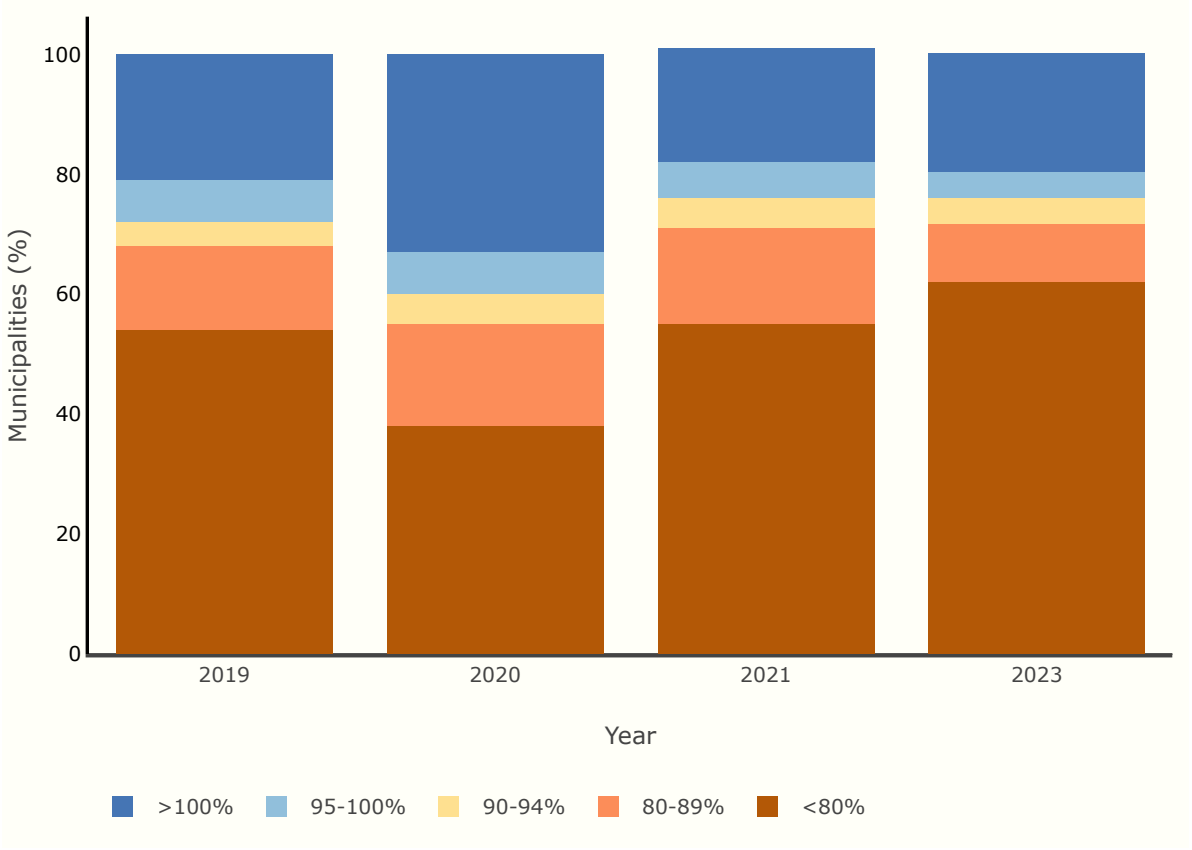


Figure 12: Proportion of children living in those municipalities for MMR1 vaccination coverage ranges, 2019-2023.

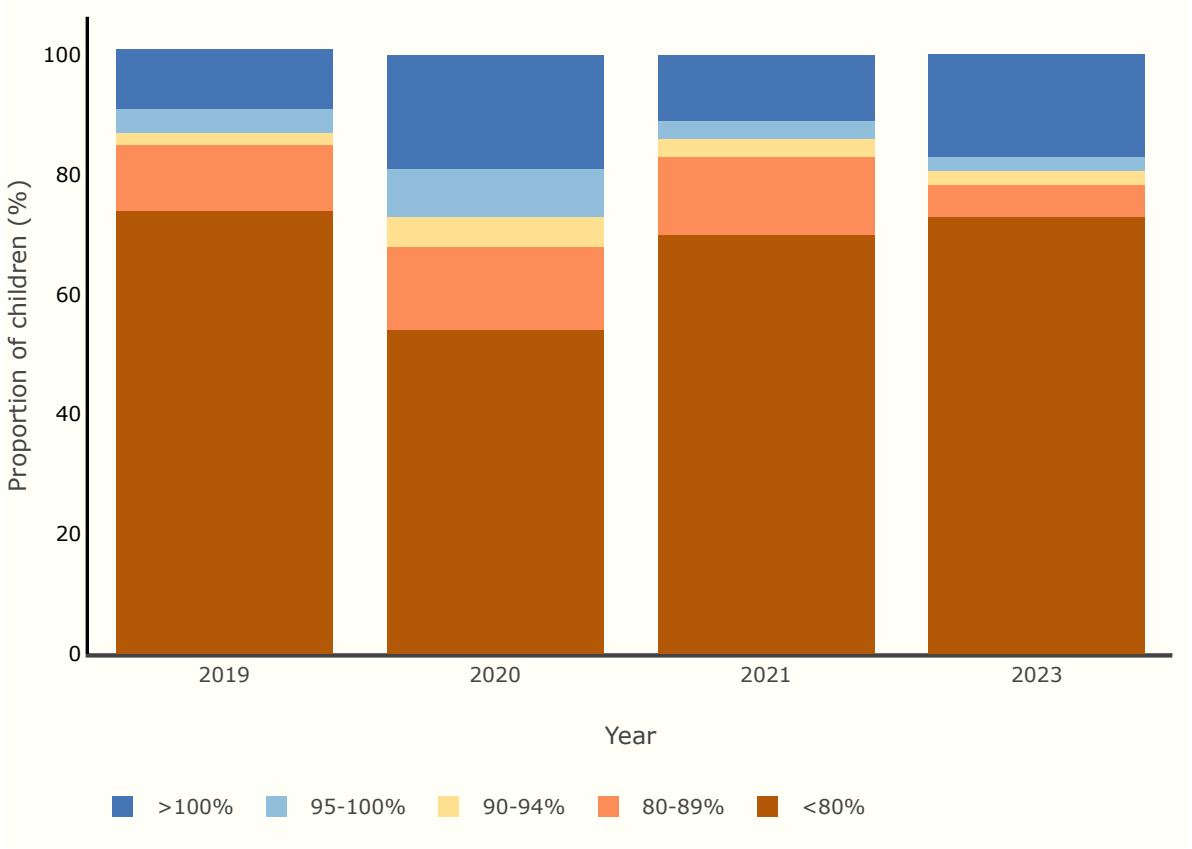


Figure 13: Proportion of municipalities by MMR2 vaccination coverage ranges, 2019-2023.

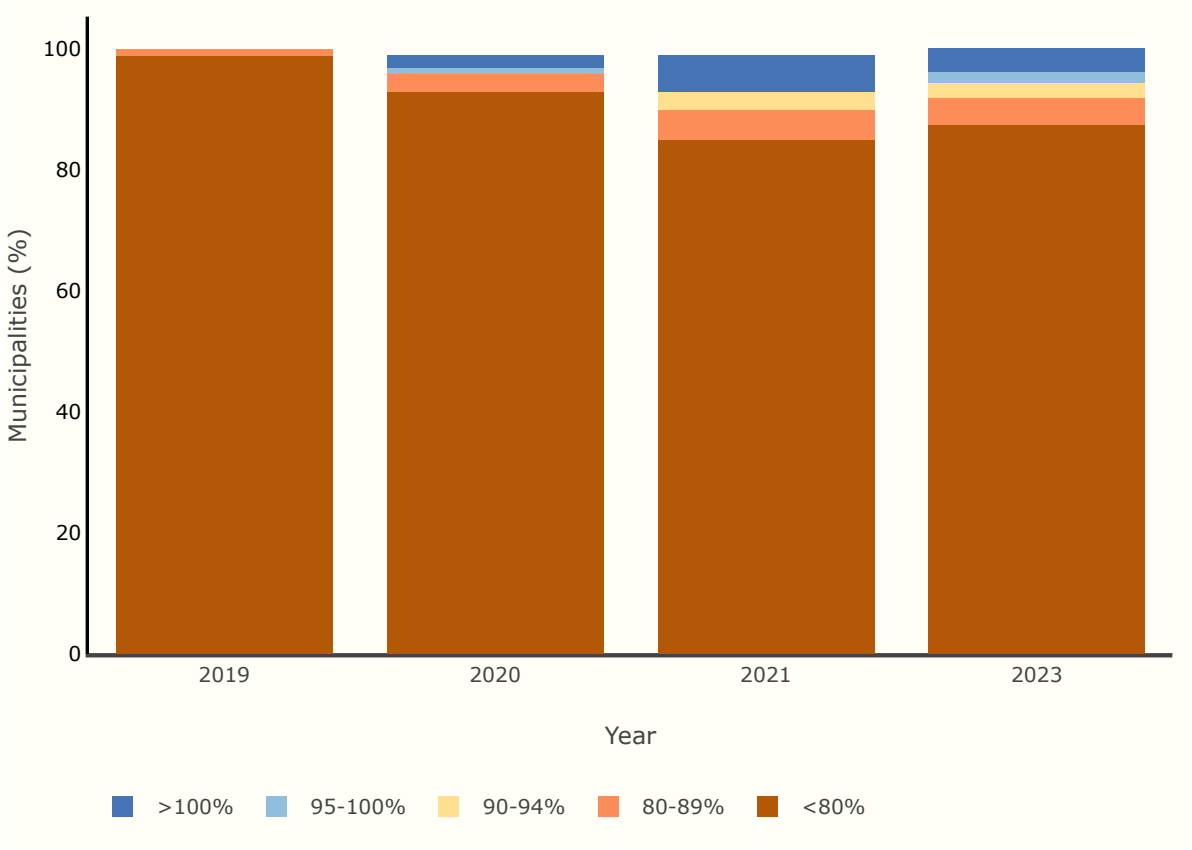


Figure 14: Proportion of children living in those municipalities for MMR2 vaccination coverage ranges, 2019-2023.

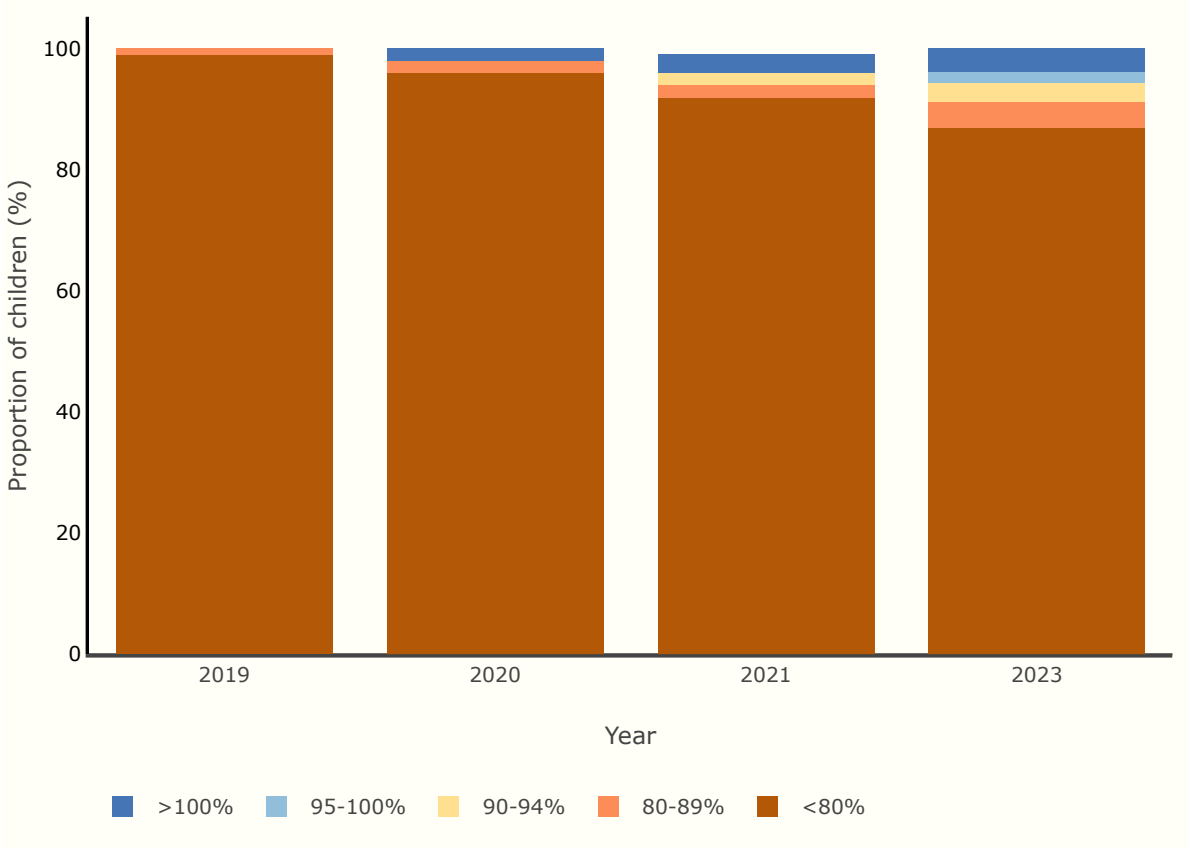


Table 11: Proportion of municipalities with MMR1 and MMR2 coverage ranges and proportion of children living in those municipalities, 2019-2023.

		MMR1		MMR2	
Year	Coverage range (%)	MMR1	MMR2	MMR1	MMR2
2023	<80	62.1	72.9	86.9	87.5
2023	80-89	9.6	5.5	4.4	4.5
2023	90-94	4.5	2.2	3.0	2.4
2023	95-100	4.2	2.3	1.9	1.8
2023	>100	19.7	17.1	3.8	3.9
2022	<80	NA	NA	NA	NA
2022	80-89	NA	NA	NA	NA
2022	90-94	NA	NA	NA	NA

2022	95-100	NA	NA	NA	NA
2022	>100	NA	NA	NA	NA
2021	<80	55.0	70.0	92.0	85.0
2021	80-89	16.0	13.0	2.0	5.0
2021	90-94	5.0	3.0	2.0	3.0
2021	95-100	6.0	3.0	0.0	0.0
2021	>100	19.0	11.0	3.0	6.0
2020	<80	38.0	54.0	96.0	93.0
2020	80-89	17.0	14.0	2.0	3.0
2020	90-94	5.0	5.0	0.0	0.0
2020	95-100	7.0	8.0	0.0	1.0
2020	>100	33.0	19.0	2.0	2.0
2019	<80	54.0	74.0	99.0	99.0
2019	80-89	14.0	11.0	1.0	1.0
2019	90-94	4.0	2.0	0.0	0.0
2019	95-100	7.0	4.0	0.0	0.0
2019	>100	21.0	10.0	0.0	0.0

References

Section	Sources
General Information	[1] United Nations, Department of Economic and Social Affairs, Population Division (2022). World Population Prospects 2022, Online Edition. [2] Country reports through the electronic PAHO-WHO/UNICEF Joint Reporting Form (eJRF).
Epidemiology and Quality of Surveillance	[3] Integrated Surveillance Information System (ISIS) and country reports to CIM/PAHO. [2] Country reports through the electronic PAHO-WHO/UNICEF Joint Reporting Form (eJRF).
Laboratory Surveillance	[3] Integrated Surveillance Information System (ISIS) and country reports to CIM/PAHO.
Analysis of Vaccination Coverage and Population Cohorts	[2] Country reports through the electronic PAHO-WHO/UNICEF Joint Reporting Form (eJRF).

Update dates

The latest update dates for this country profile are shown below. Note that the ***Year of data*** reflects the year up to which the data are available, while the ***Latest update date*** reflects the date on which any amends, modifications and/or withdrawals of data from member countries or territories was performed.

Data	Year of data	Latest update date
Surveillance	2023	2024-10-16
Coverage	2023	2024-10-03