

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

Brazil

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).

General Information

Table 1: Demographic data, 2022.

Demographic group	Population
1 year of age	2,738,362
Total population	215,313,521

Table 2: Last endemic cases by year and disease.

Measles	Rubella	CRS
2015-07-06	2008	8/26/2009

Table 3: Vaccination schedule.

Vaccine	1st Dose	2nd Dose	MMR2 Year Introduced
MMR	12 mo	NA	2004

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
2018	MMR	1-4 years	10,976,747	97.89	236,531	2022

Epidemiology and Quality of Surveillance

Figure 1: Distribution of suspected MR cases and notification rate at the national level, 2018-2022.

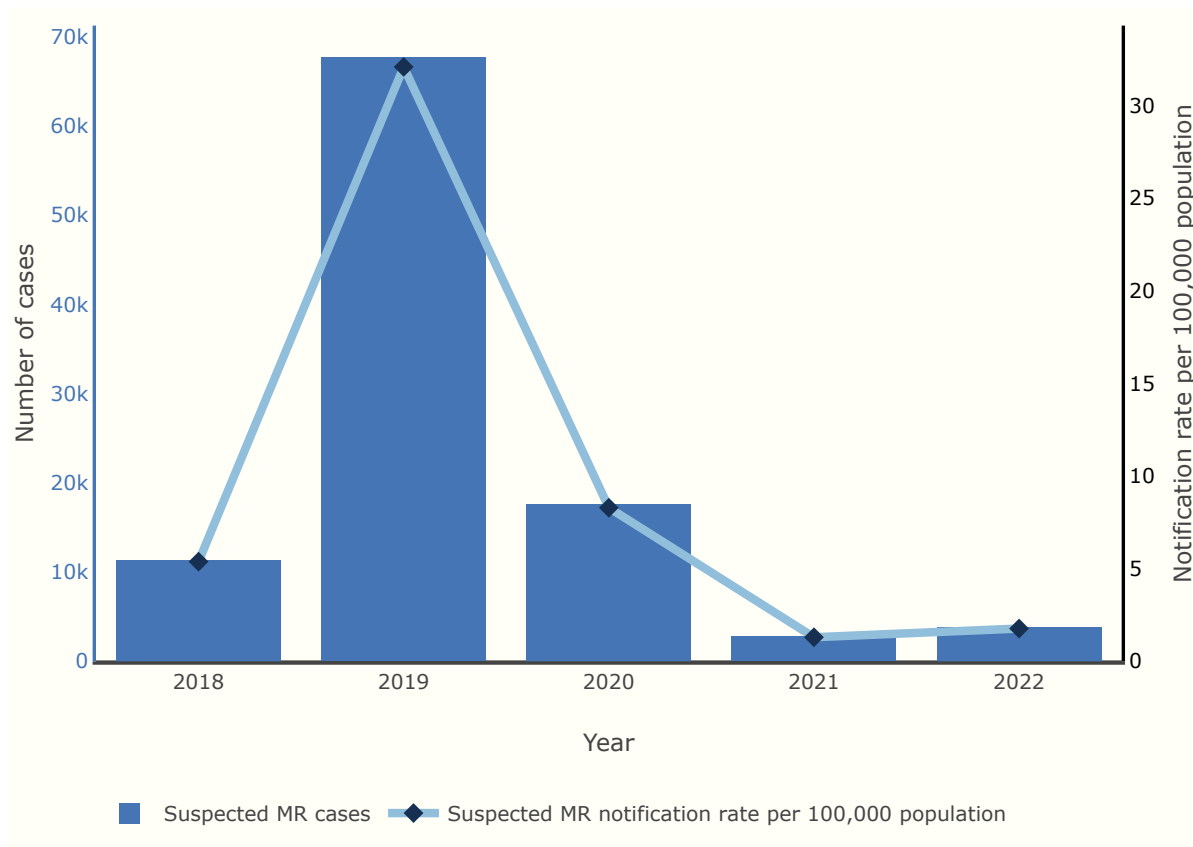


Table 5: Distribution of suspected MR cases and notification rate at the national level, 2018-2022.

	2018	2019	2020	2021	2022
Suspected MR cases	11,335	67,702	17,630	2,787	3,818
Suspected MR notification rate per 100,000 population	5.38	32.08	8.29	1.3	1.77

Figure 2: Distribution of suspected CRS cases and notification rate at the national level, 2018-2022.

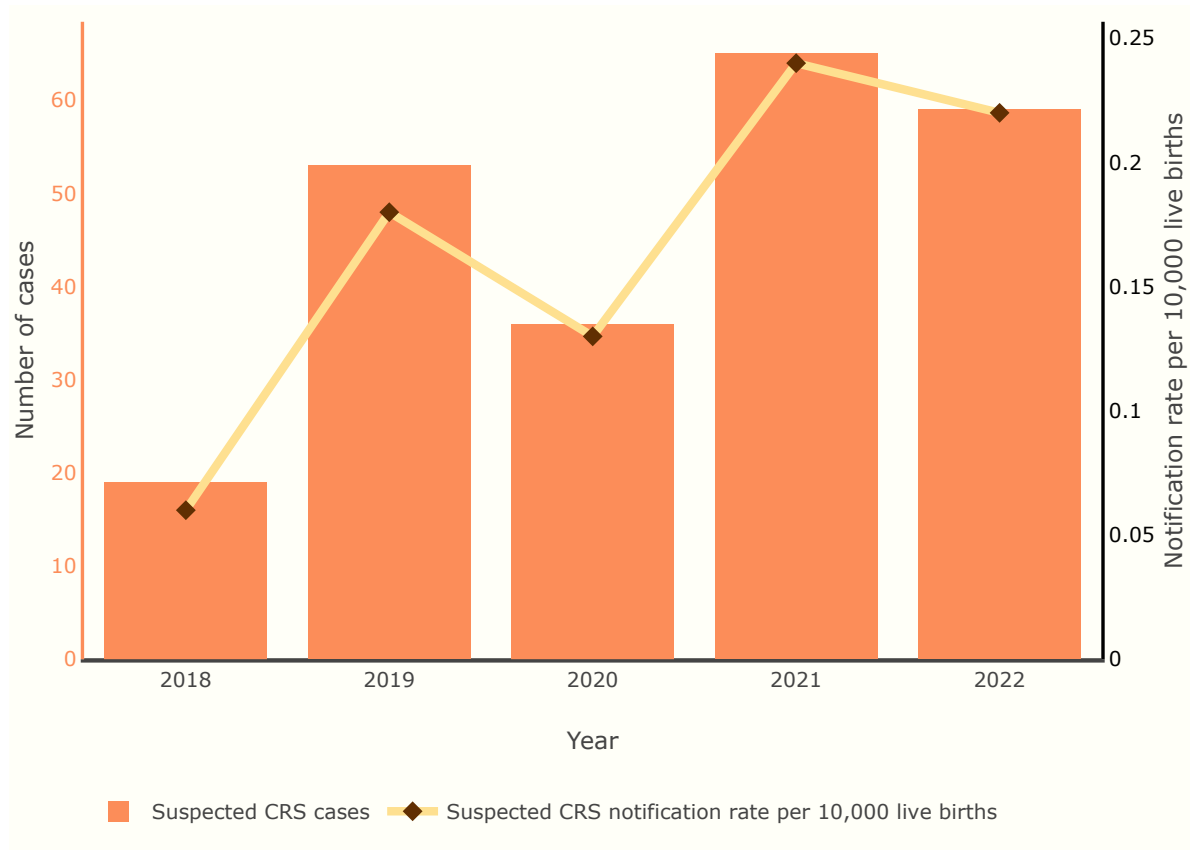


Table 6: Distribution of suspected CRS cases and notification rate at the national level, 2018-2022.

	2018	2019	2020	2021	2022
Suspected CRS cases	19	53	36	65	59
Suspected CRS notification rate per 10,000 live births	0.06	0.18	0.13	0.24	0.22

Figure 3: Reported cases of measles and rubella by epidemiological week and final classification: confirmed, discarded and under investigation, 2018-2022.

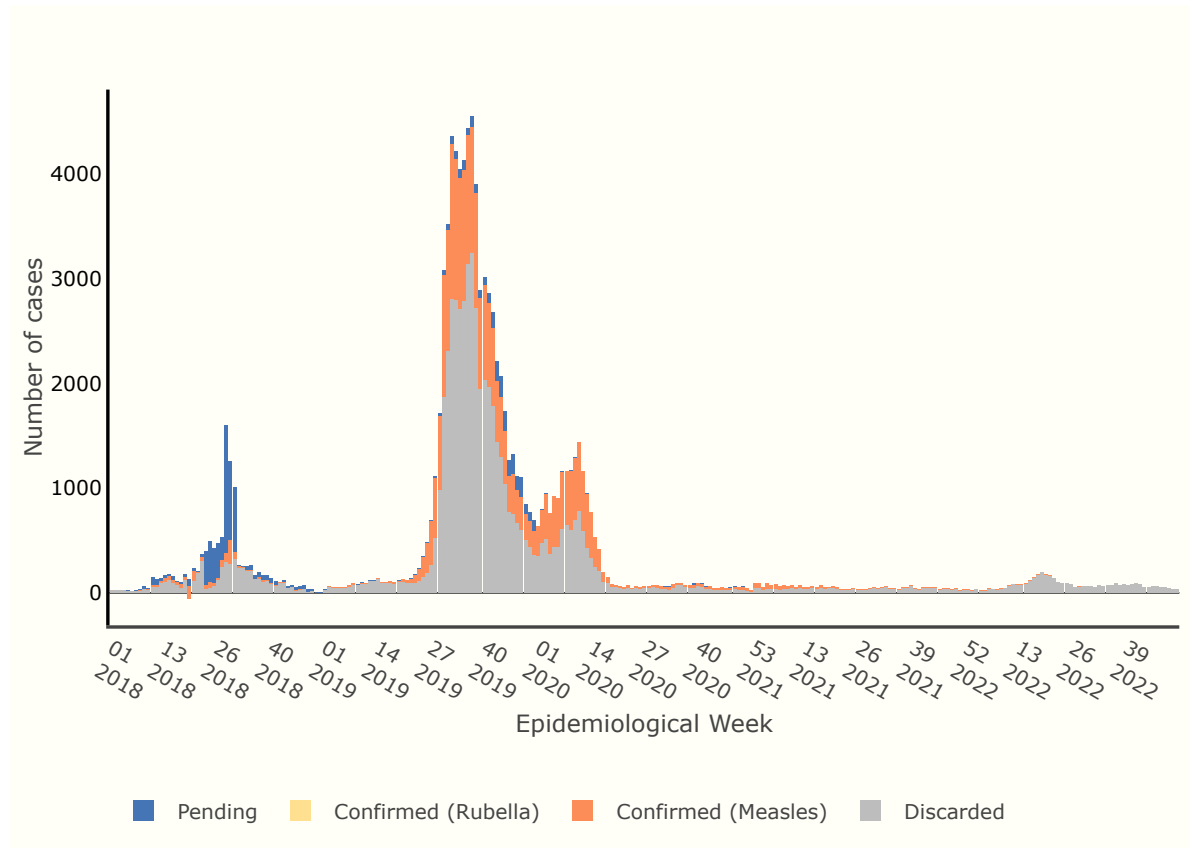


Figure 4: Number of measles and rubella cases by epidemiological year pending final classification, 2018-2022.

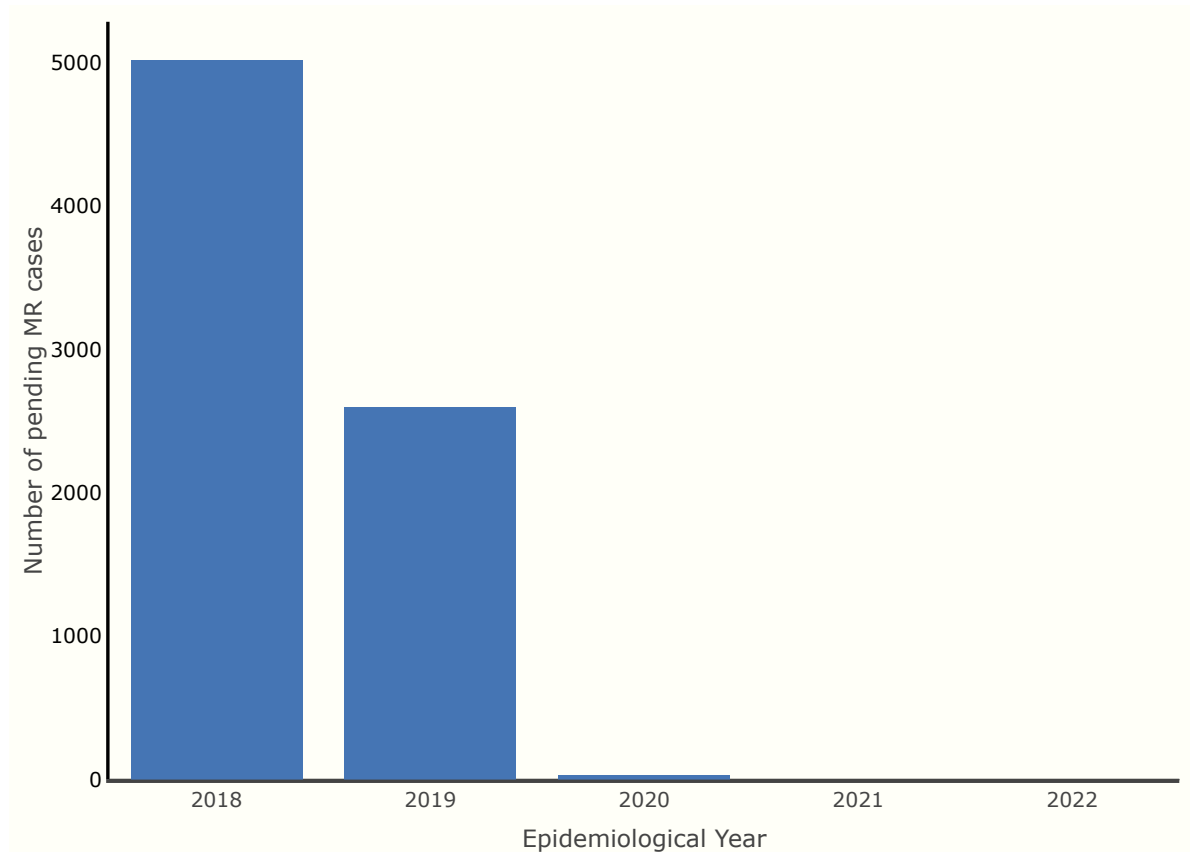


Table 7: Reported cases of measles and rubella by epidemiological year and final classification, 2018-2022.

Classification	2018	2019	2020	2021	2022
Confirmed (Measles)	1276	20901	8100	670	41
Confirmed (Rubella)	0	0	0	0	0
Pending	5021	2597	28	0	0
Discarded	5038	44204	9502	2117	3777
Total	11335	67702	17630	2787	3818

Figure 5: Performance indicators of measles and rubella surveillance by year, 2018-2022.

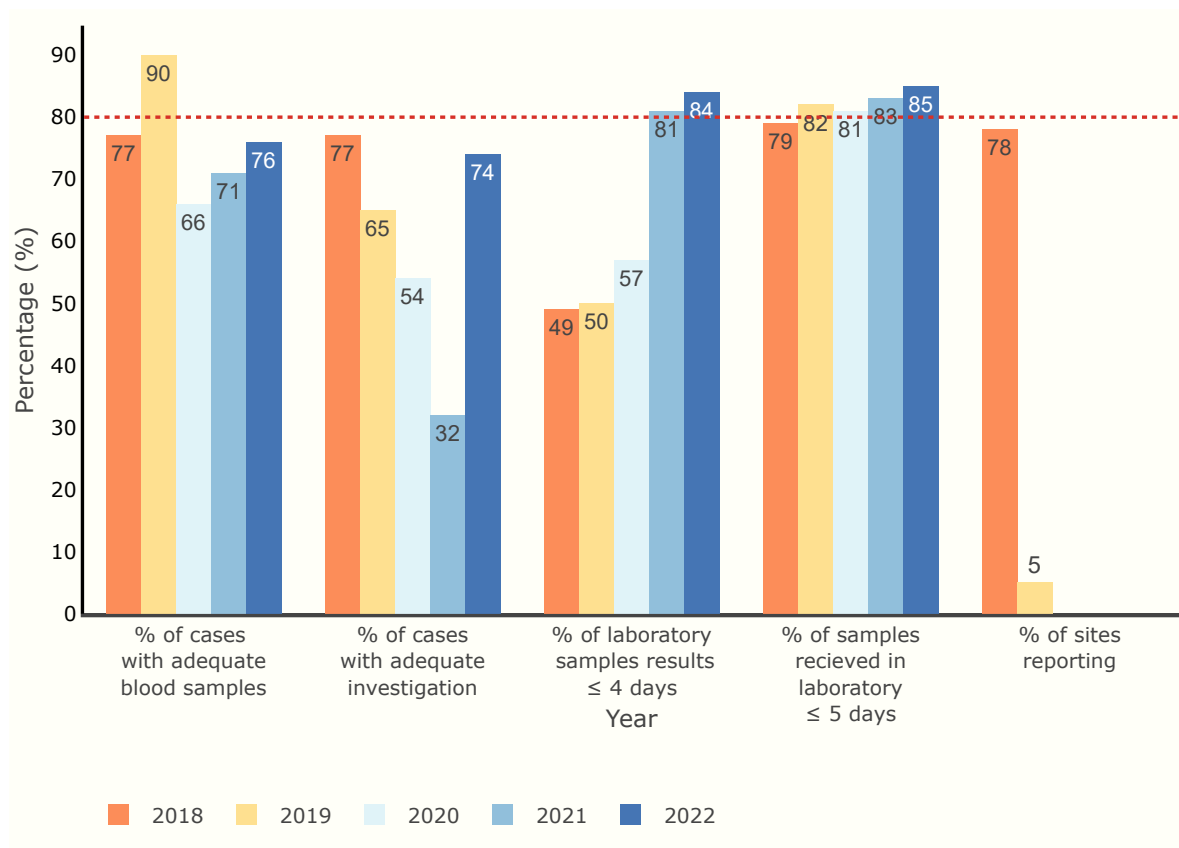


Table 8: Municipalities reporting measles and rubella suspected cases by year, 2018-2022.

Year	No. of municipalities reporting suspected cases	Total municipalities in the country	% of municipalities reporting suspected cases
2018	NA	5570	NA
2019	NA	5570	NA
2020	27	5570	0
2021	26	5570	0
2022	27	5570	0

Laboratory Surveillance

No data to show.

Analysis of Vaccination Coverage and Population Cohorts

Figure 6: Coverage of the first dose of measles-mumps-rubella (MMR1) vaccine, number of doses administered, and number of children 1 year of age, 2018-2022.

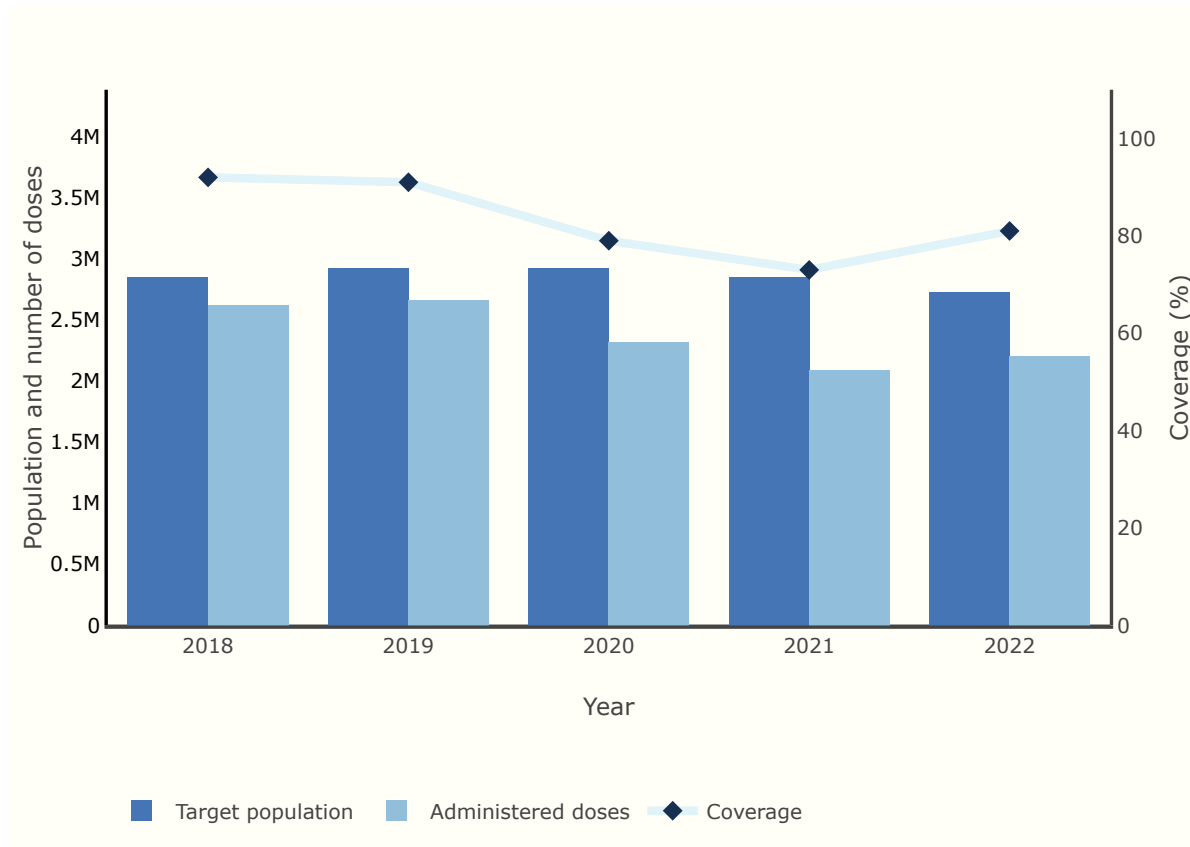


Figure 7: Coverage of the second dose of measles-mumps-rubella (MMR2) vaccine, number of doses administered, and number of children 1 year(s) of age, 2018-2022.

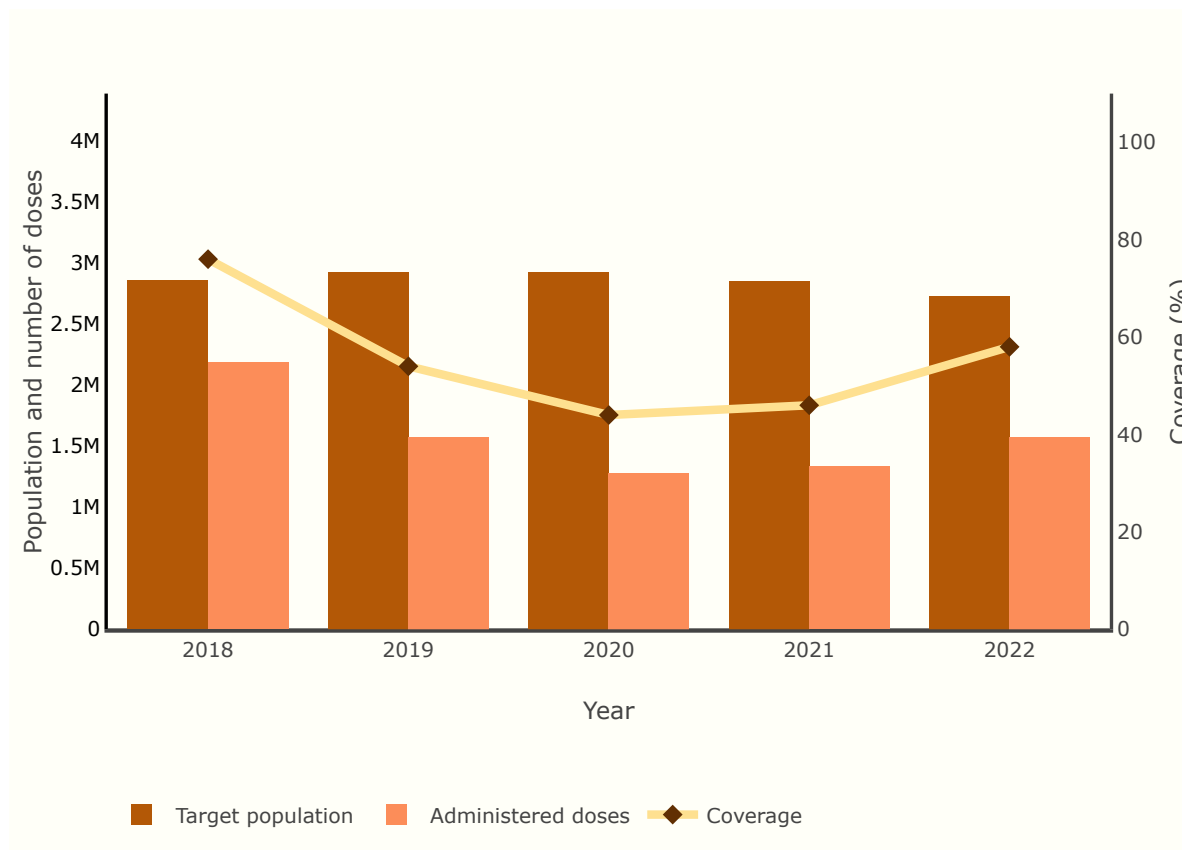


Table 9: Vaccination coverage with first and second dose of measles-mumps-rubella (MMR1 and MMR2) vaccines by target population and administered doses, 2018-2022.

Year	MMR1			MMR2		
	Administered doses	Target population	Coverage	Administered doses	Target population	Coverage
2018	2,622,197	2,854,295	92	2,183,221	2,854,295	76
2019	2,663,064	2,923,441	91	1,573,772	2,923,441	54
2020	2,322,905	2,923,441	79	1,278,970	2,923,441	44
2021	2,092,969	2,849,064	73	1,331,534	2,849,064	46
2022	2,202,073	2,730,050	81	1,571,791	2,730,050	58

Figure 8: Proportion of municipalities by MMR1 vaccination coverage ranges, 2018-2022.

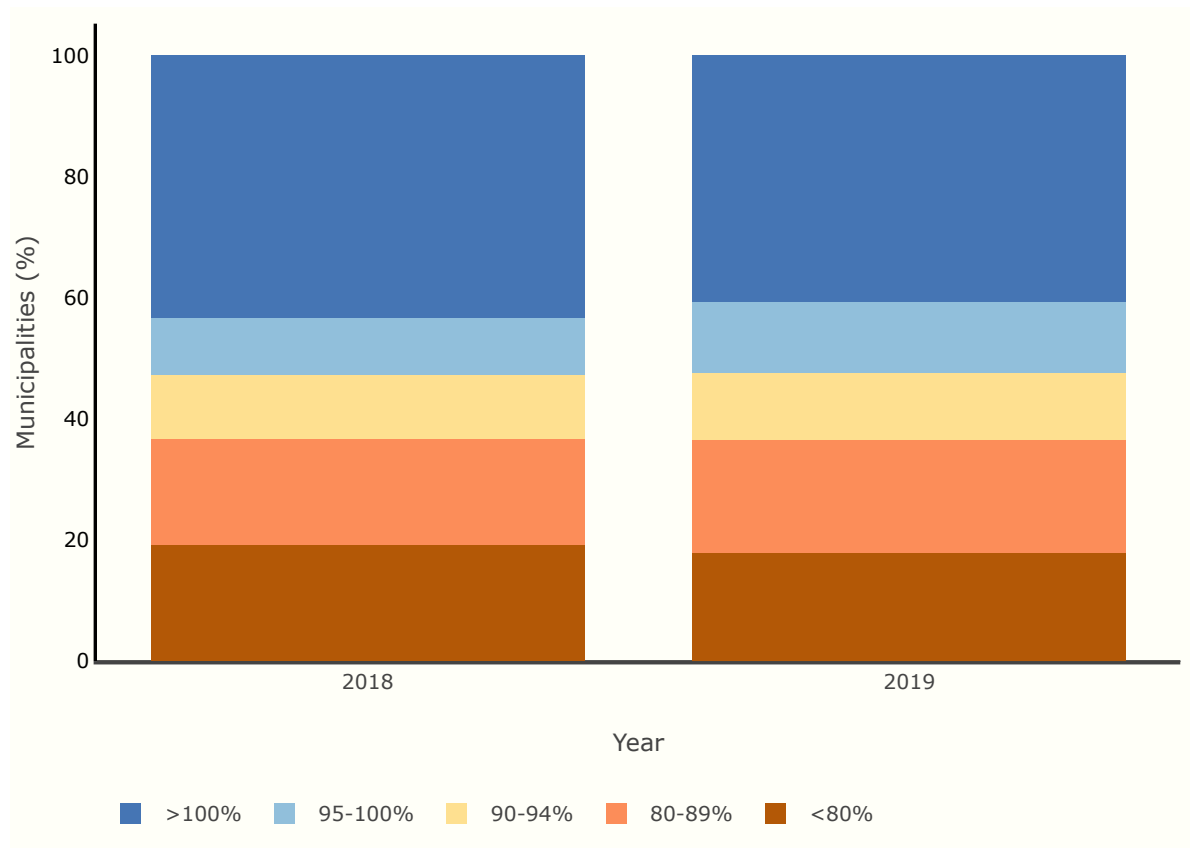


Figure 9: Proportion of children living in those municipalities for MMR1 vaccination coverage ranges, 2018-2022.

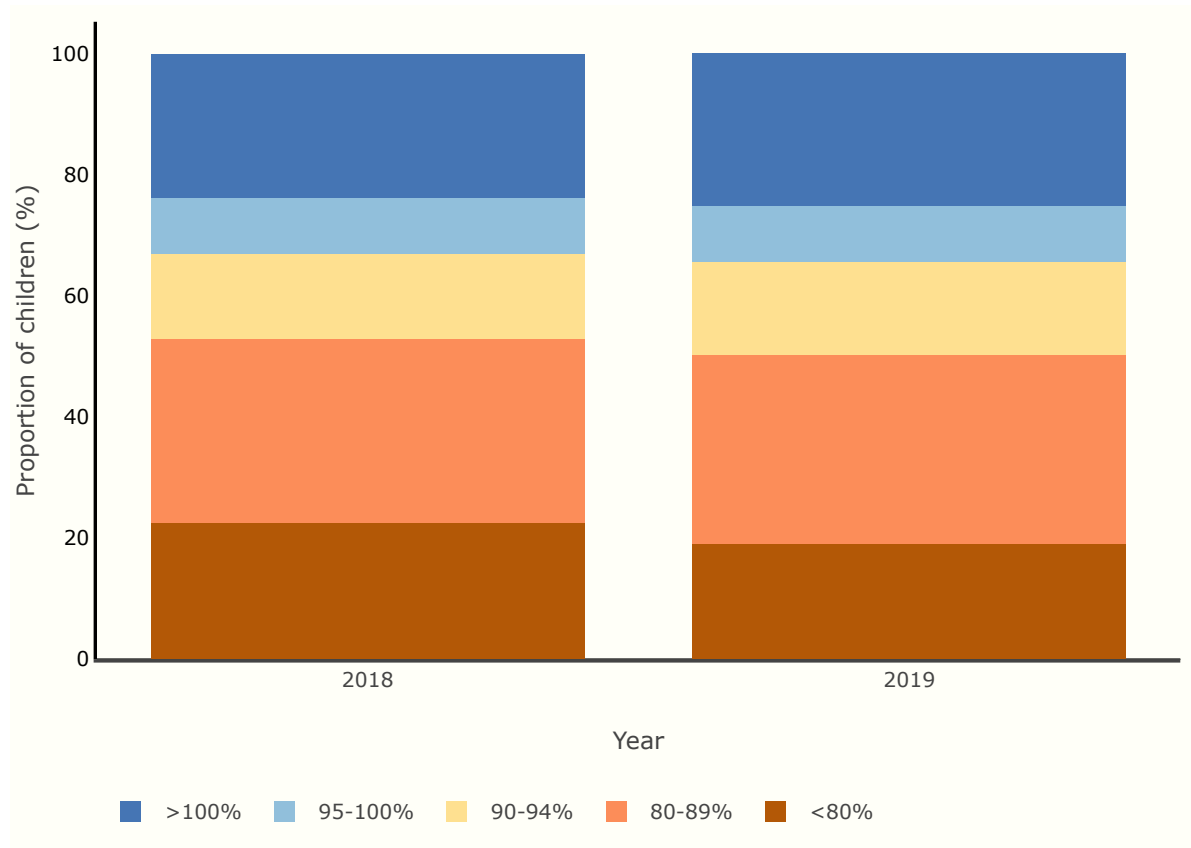


Figure 10: Proportion of municipalities by MMR2 vaccination coverage ranges, 2018-2022.

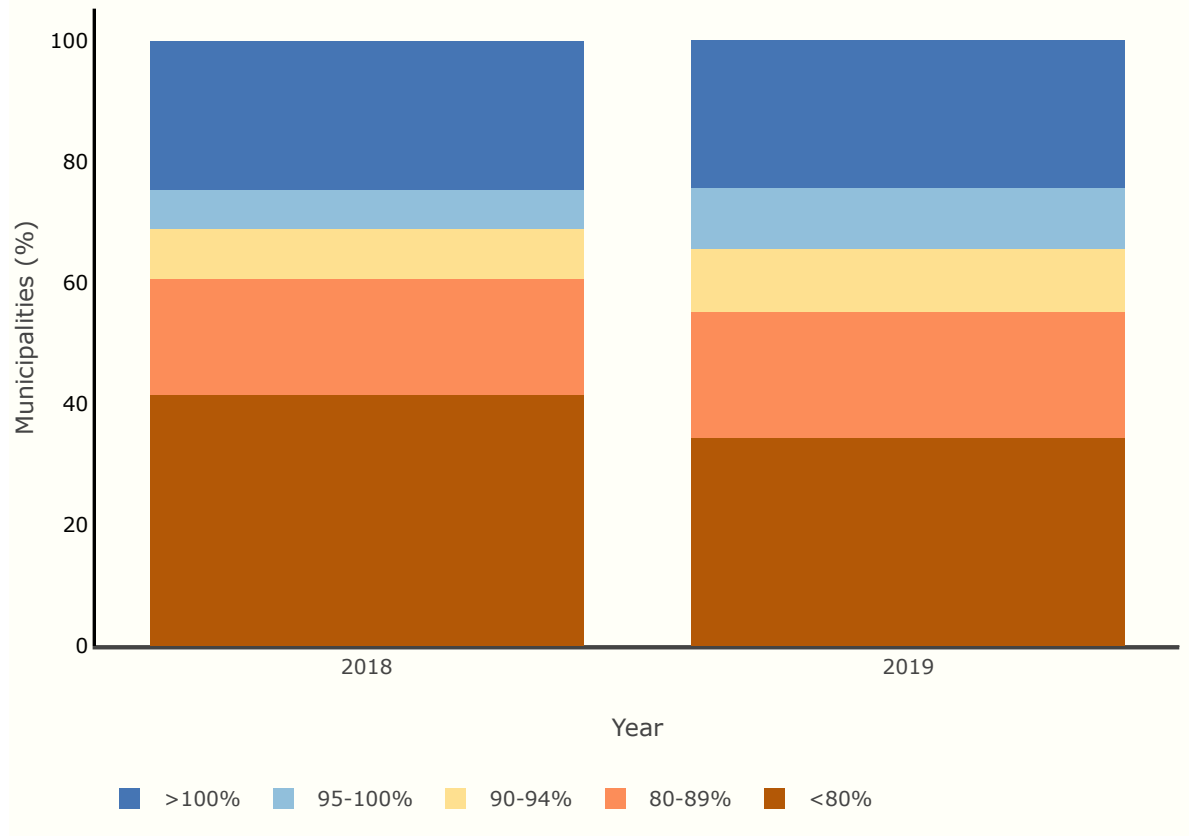


Figure 11: Proportion of children living in those municipalities for MMR2 vaccination coverage ranges, 2018-2022.

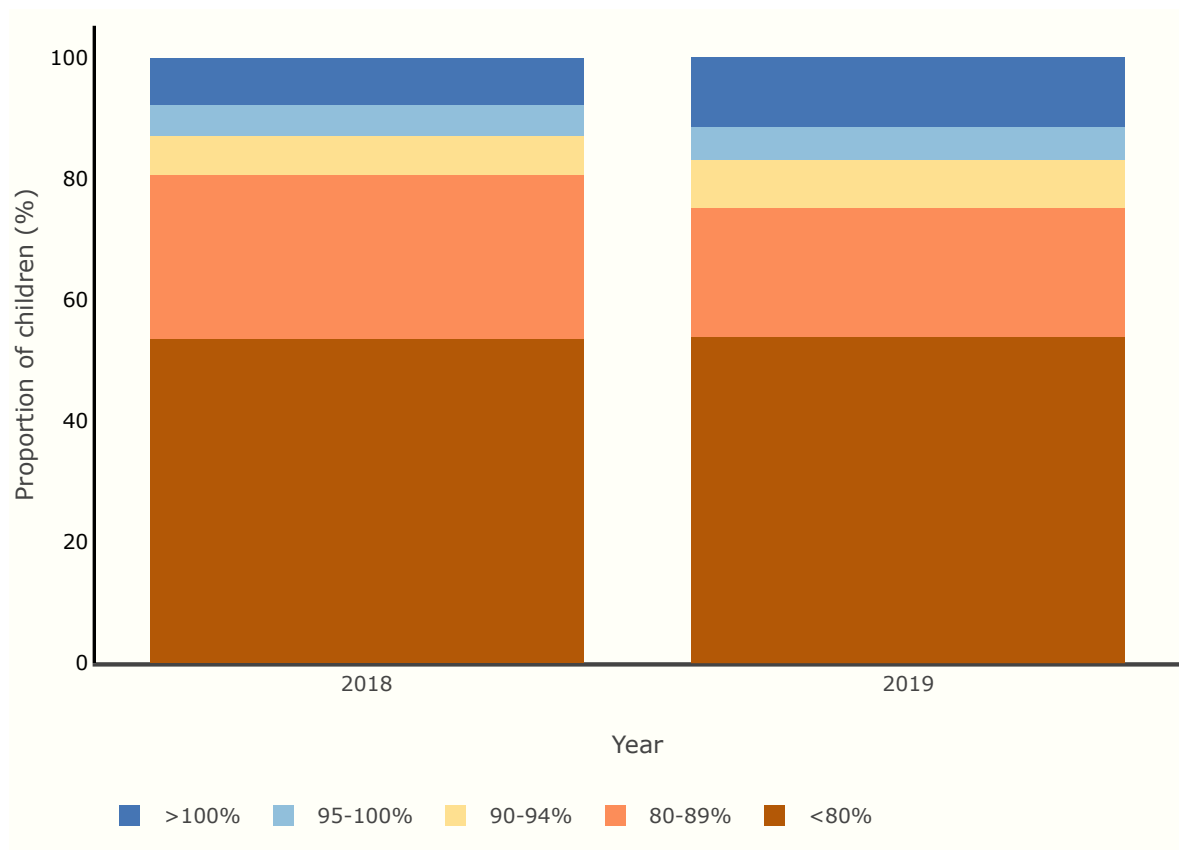


Table 10: Proportion of municipalities with MMR1 and MMR2 coverage ranges and proportion of children living in those municipalities, 2018-2022.

Year	Coverage range (%)	MMR1		MMR2	
		MMR1	MMR2	MMR1	MMR2
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
2019	<80	18.0	34.4	19.1	53.9
2019	80-89	18.5	20.9	31.1	21.4
2019	90-94	11.2	10.3	15.5	7.8

2019	95-100	11.6	10.1	9.1	5.5
2019	>100	40.7	24.3	25.2	11.4
2018	<80	19.3	41.5	22.6	53.6
2018	80-89	17.4	19.2	30.3	27.0
2018	90-94	10.6	8.1	14.1	6.5
2018	95-100	9.3	6.6	9.2	5.1
2018	>100	43.4	24.6	23.7	7.7

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).
