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

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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	2,052
Total population	179,880

Table 2: Last endemic cases by year and disease.

Measles	Rubella	CRS
1990	1996	1996

Table 3: Vaccination schedule.

Vaccine	1st Dose	2nd Dose	MMR2 Year Introduced
MMR	12 mo	18 mo	1991

Epidemiology and Quality of Surveillance

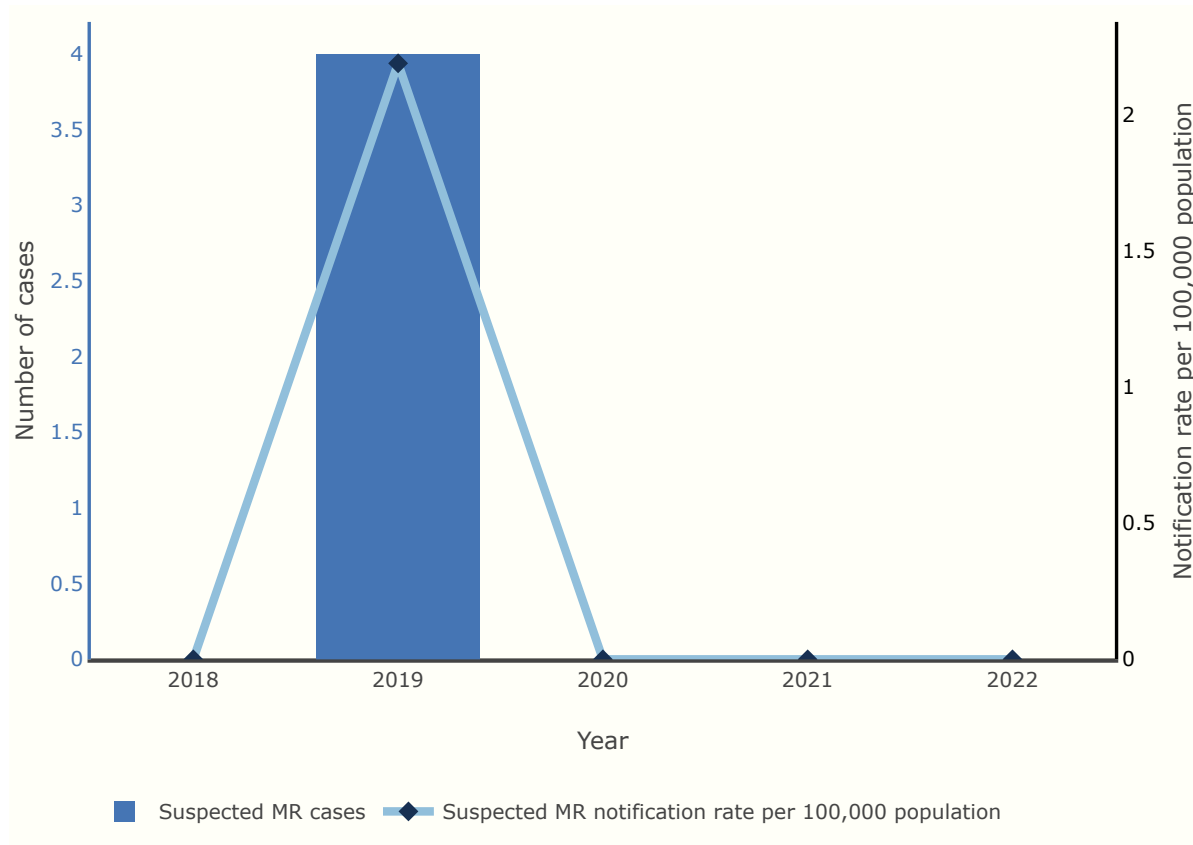Figure 1: Distribution of suspected MR cases and notification rate at the national level, 2018-2022.

Table 4: Distribution of suspected MR cases and notification rate at the national level, 2018-2022.

	2018	2019	2020	2021	2022
Suspected MR cases	0	4	0	0	0
Suspected MR notification rate per 100,000 population	0	2.19	0	0	0

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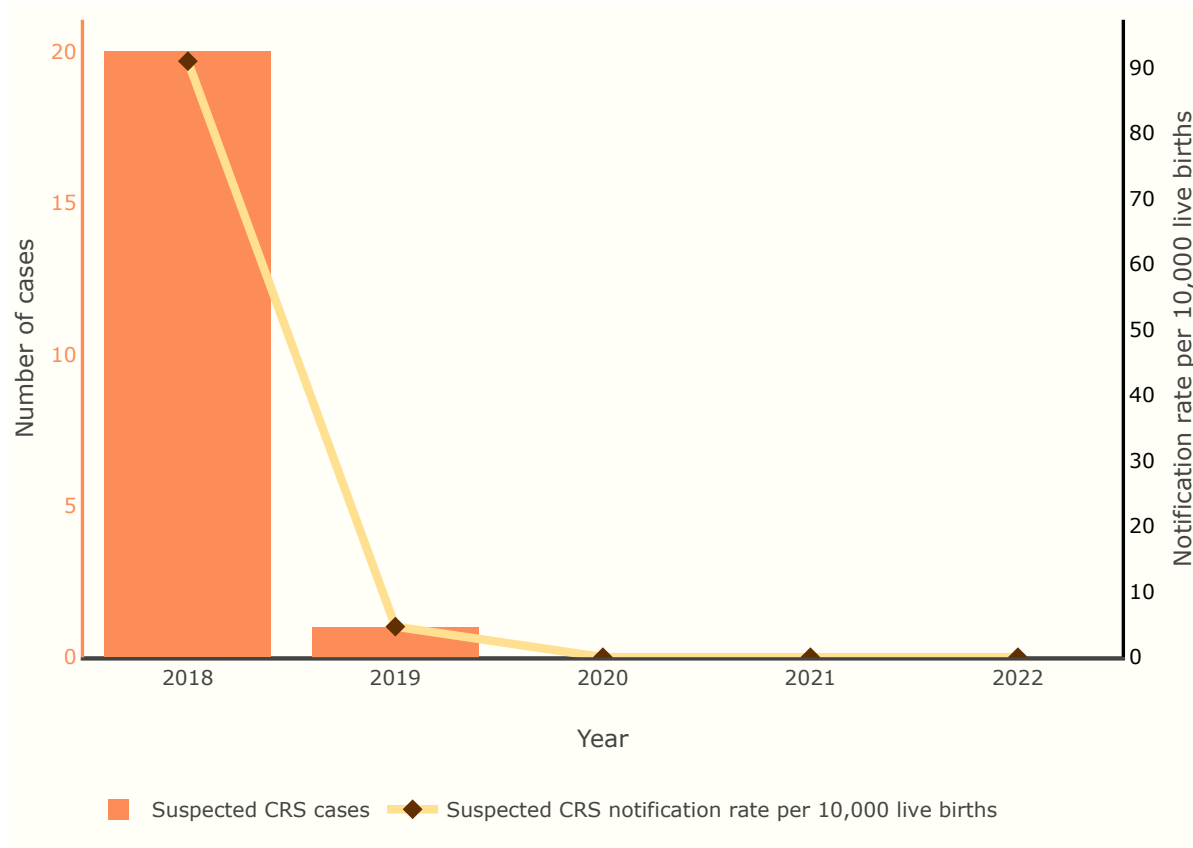

Table 5: Distribution of suspected CRS cases and notification rate at the national level, 2018-2022.

	2018	2019	2020	2021	2022
Suspected CRS cases	20	1	0	0	0
Suspected CRS notification rate per 10,000 live births	90.99	4.67	0	0	0

Figure 3: Reported cases of measles and rubella by epidemiological week and final classification: confirmed, discarded and under investigation, 2018-2022.
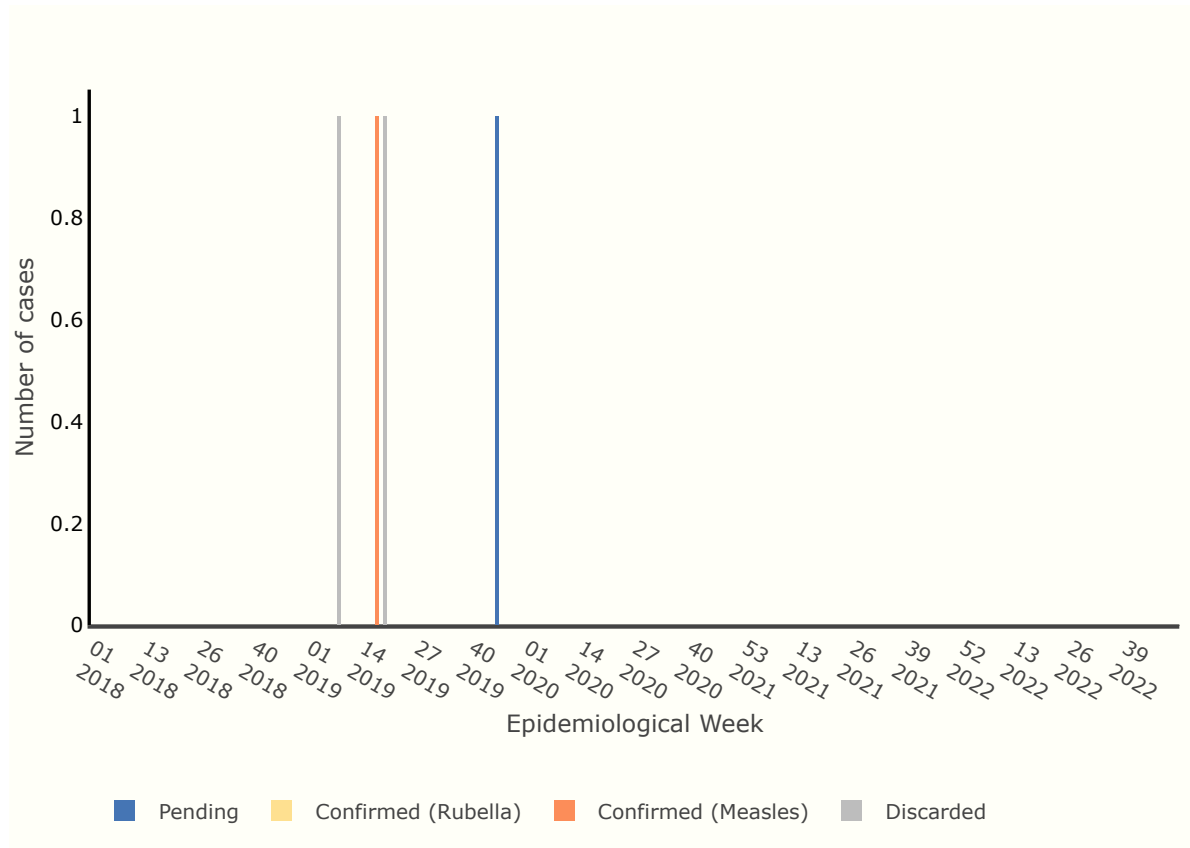
Figure 4: Number of measles and rubella cases by epidemiological year pending final classification, 2018-2022.
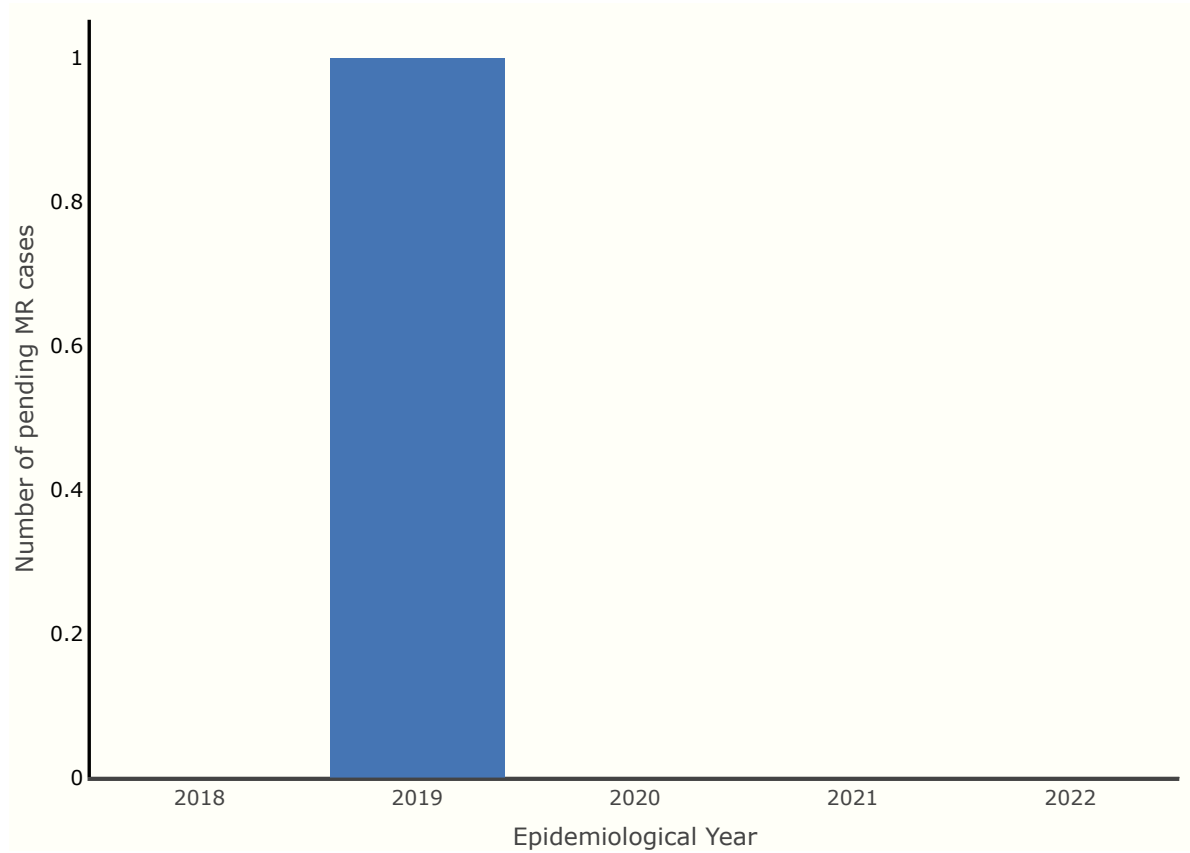

Table 6: Reported cases of measles and rubella by epidemiological year and final classification, 2018-2022.

Classification	2018	2019	2020	2021	2022
Confirmed (Measles)	0	1	0	0	0
Confirmed (Rubella)	0	0	0	0	0
Pending	0	1	0	0	0
Discarded	0	2	0	0	0
Total	0	4	0	0	0

Figure 5: Distribution of reported measles and rubella cases and incidence rate by age group, 2018-2022.
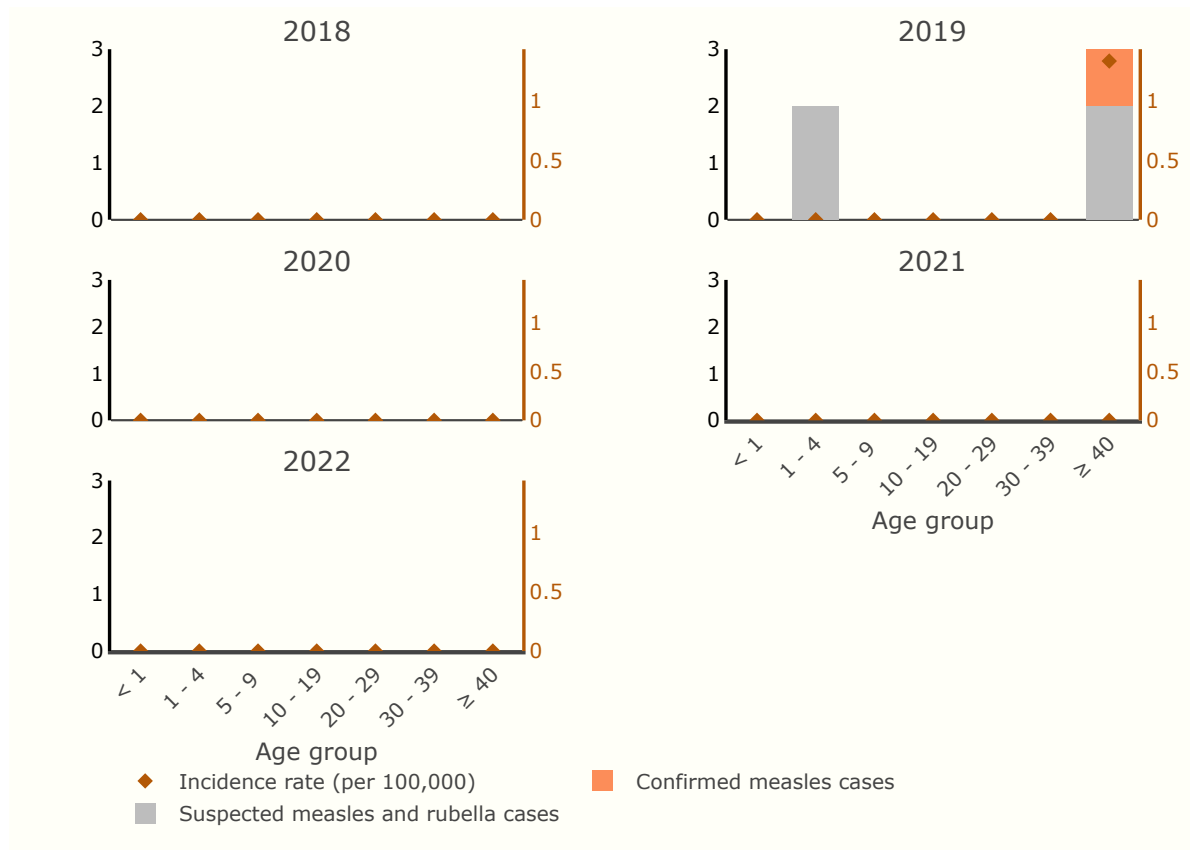
Figure 6: Performance indicators of measles and rubella surveillance by year, 2018-2022.
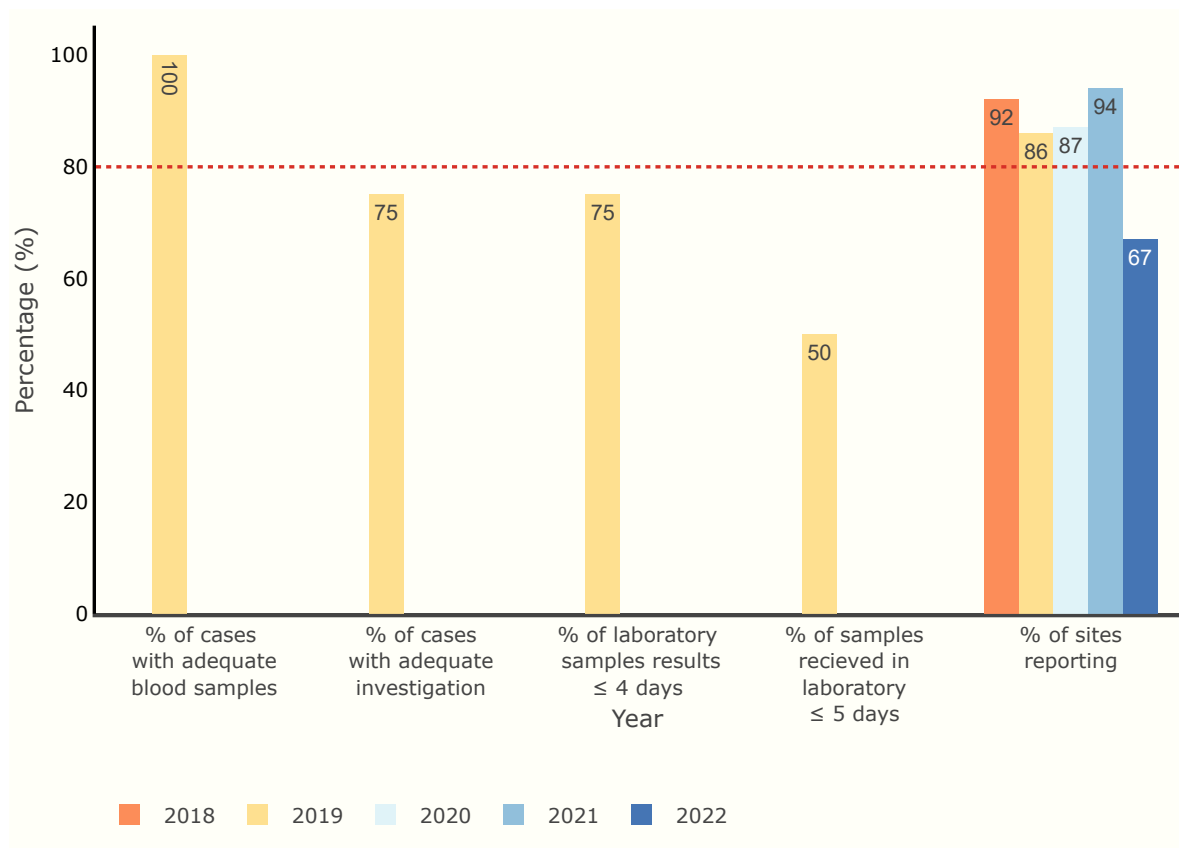

Table 7: Municipalities reporting measles and rubella suspected cases by year, 2018-2022.

Year	No. of municipalities reporting suspected cases	Total municipalities in the country	% of municipalities reporting suspected cases
2018	NA	8	NA
2019	3	8	38
2020	0	8	0
2021	NA	8	NA
2022	0	8	0

Laboratory Surveillance

Table 8: Criteria used to discard suspected measles and rubella cases by year, 2019-2019.

| 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	4	2	2	0	0	0	0	0	0	0	0

Analysis of Vaccination Coverage and Population Cohorts

Figure 7: 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.
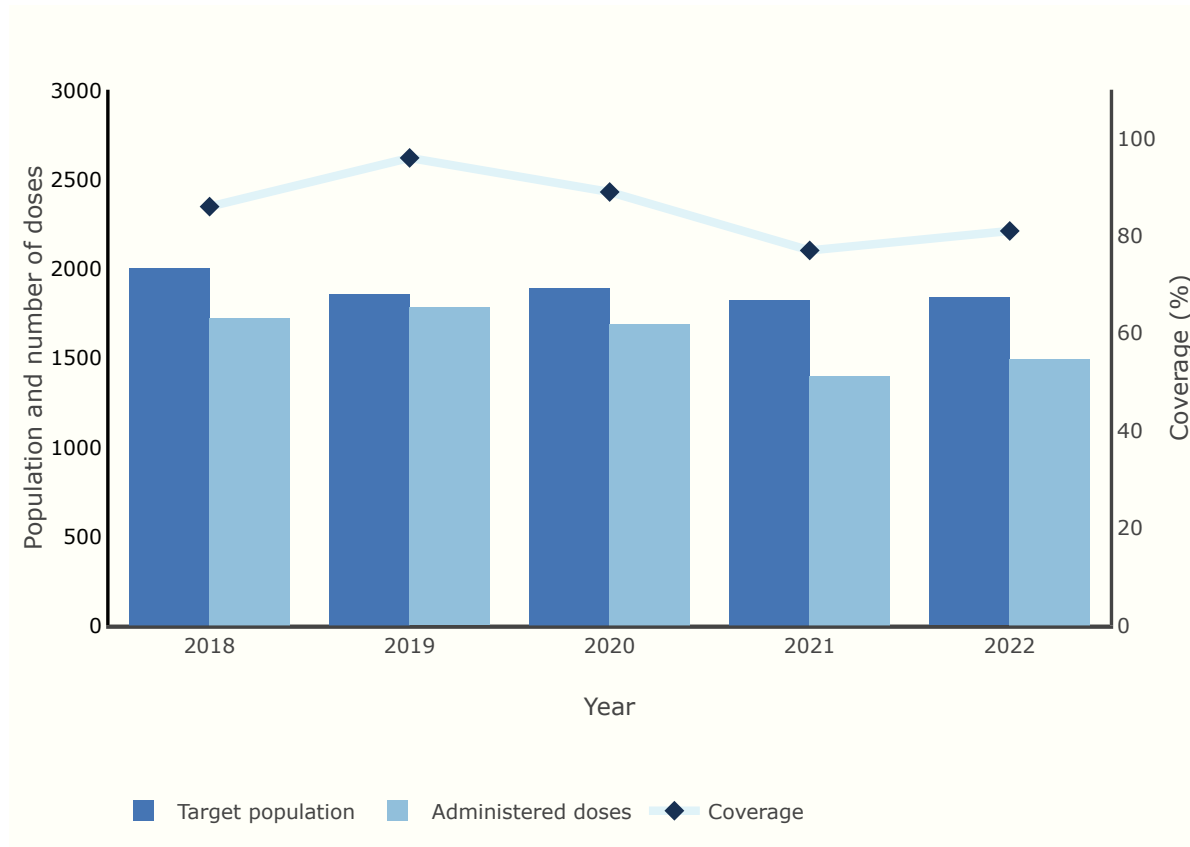
Figure 8: Coverage of the second dose of measles-mumps-rubella (MMR2) vaccine, number of doses administered, and number of children 18 month(s) of age, 2018-2022.
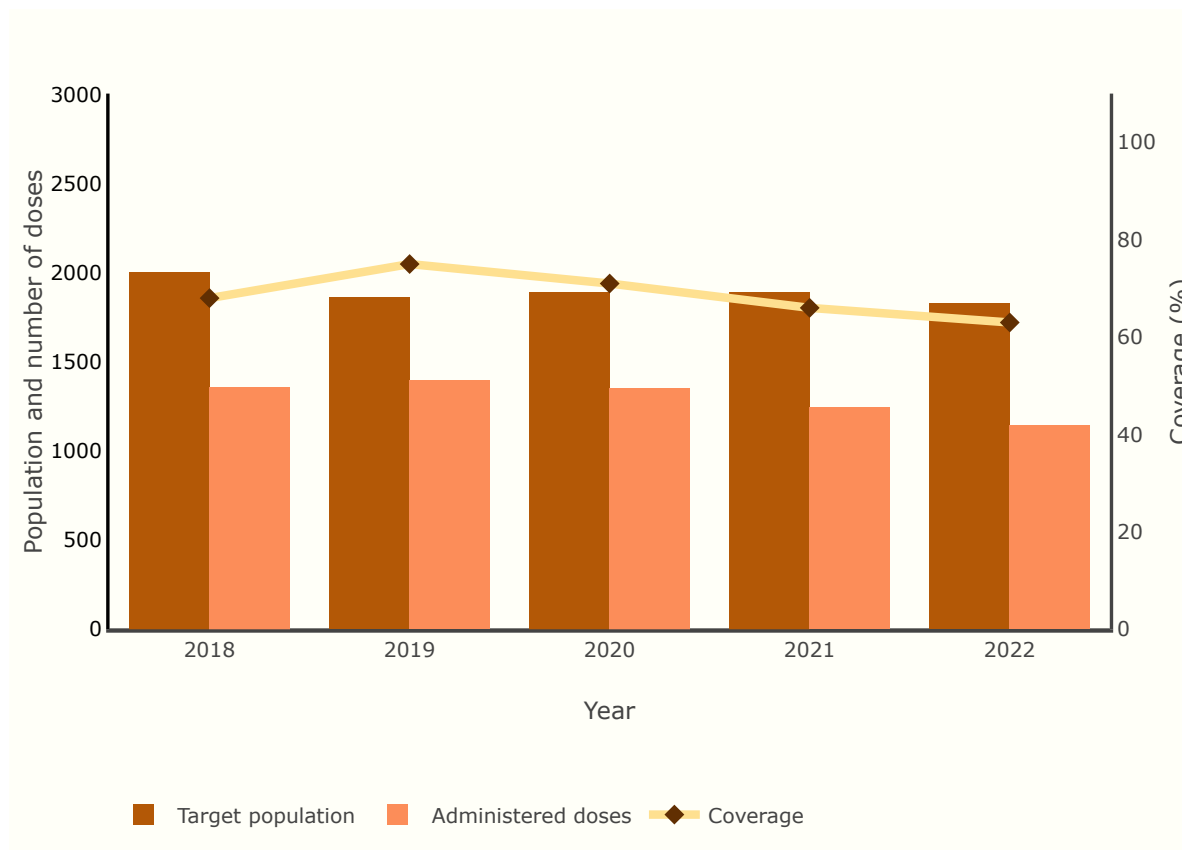

Table 9: Vaccination coverage with first and second dose of measles-mumps-rubella (MMR1 and MMR2) vaccines by target population and administered doses, 2018-2022.

Year	MMR1			MMR2		
	Administered doses	Target population	Coverage	Administered doses	Target population	Coverage
2018	1,728	2,006	86	1,362	2,006	68
2019	1,786	1,864	96	1,397	1,864	75
2020	1,695	1,896	89	1,355	1,896	71
2021	1,403	1,830	77	1,246	1,896	66
2022	1,497	1,842	81	1,145	1,830	63

Figure 9: Proportion of municipalities by MMR1 vaccination coverage ranges, 2018-2022.
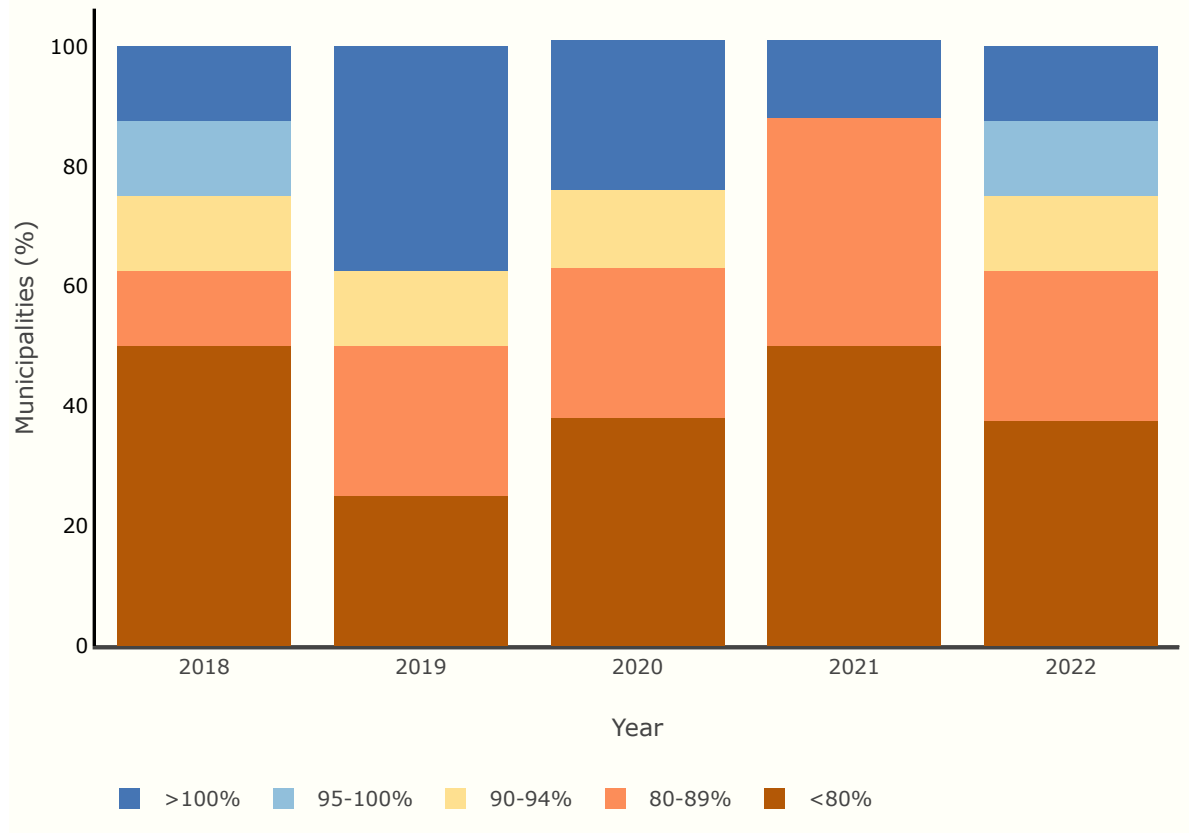
Figure 10: Proportion of children living in those municipalities for MMR1 vaccination coverage ranges, 2018-2022.
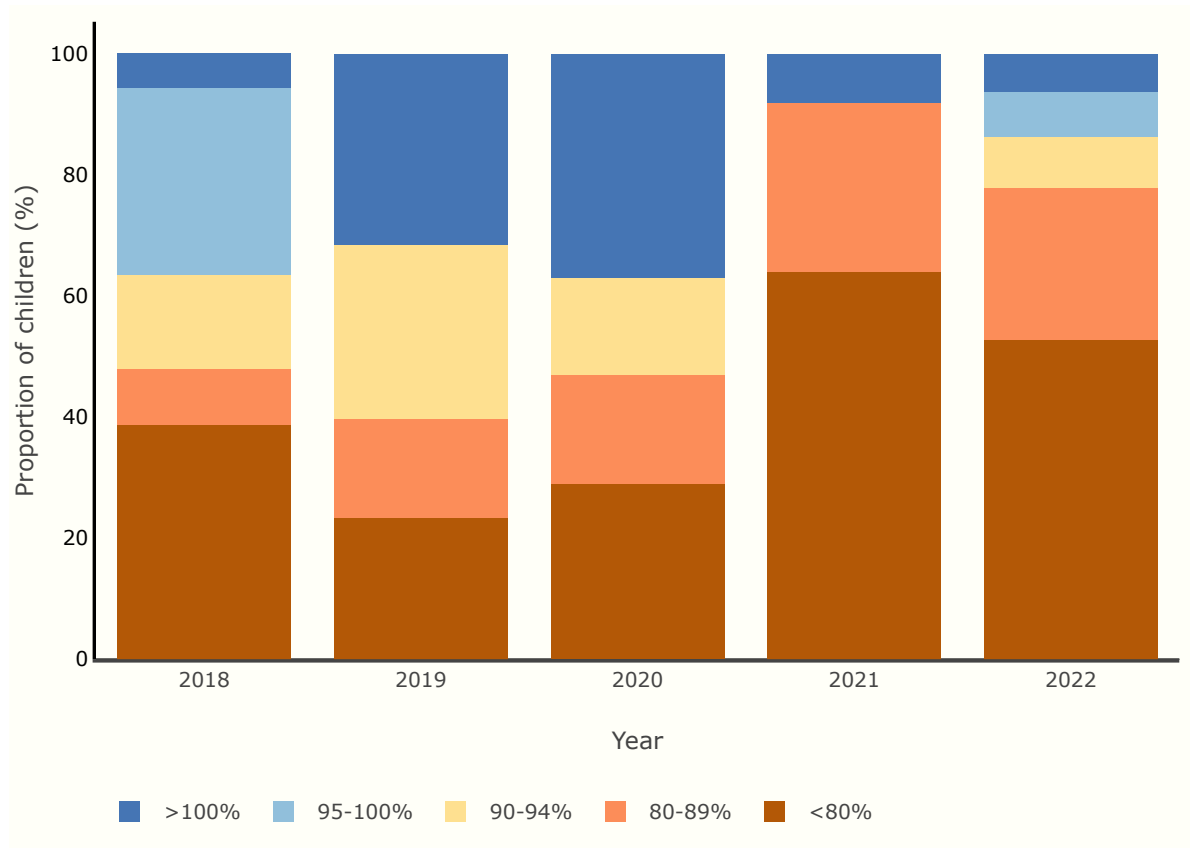
Figure 11: Proportion of municipalities by MMR2 vaccination coverage ranges, 2018-2022.
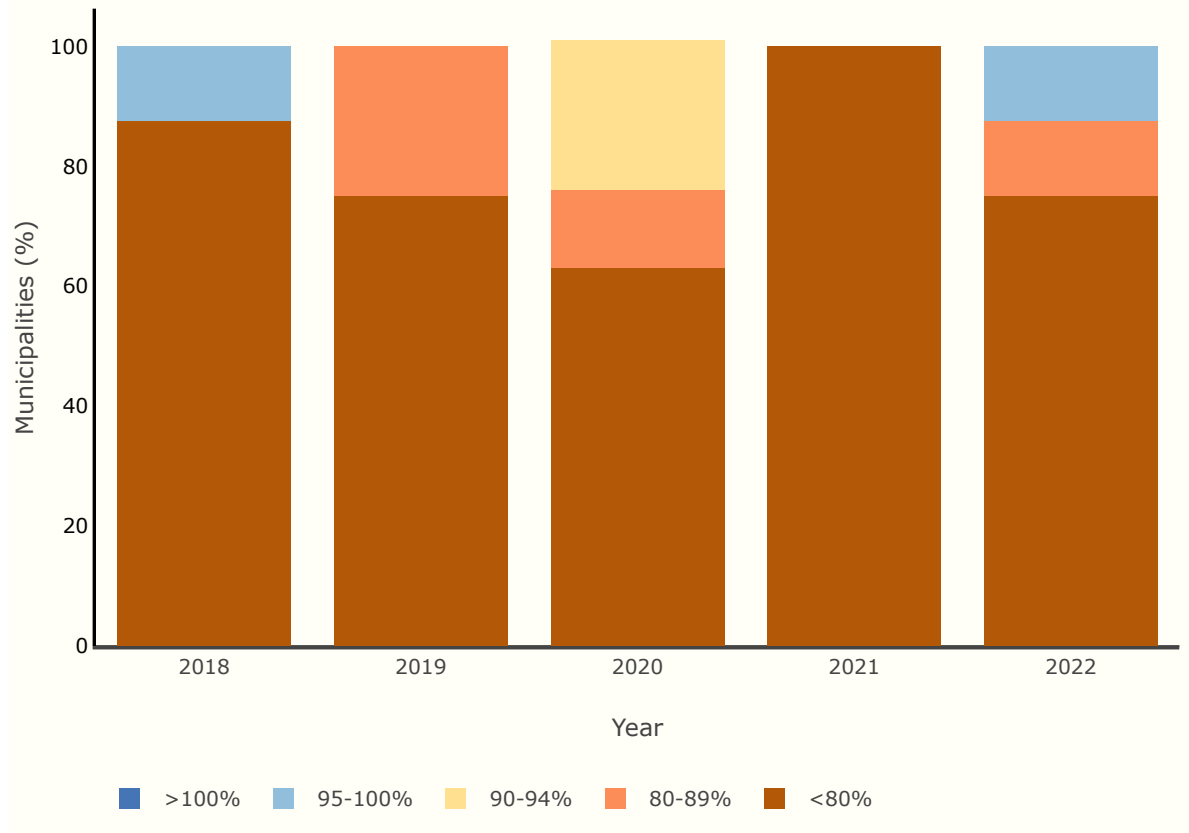
Figure 12: Proportion of children living in those municipalities for MMR2 vaccination coverage
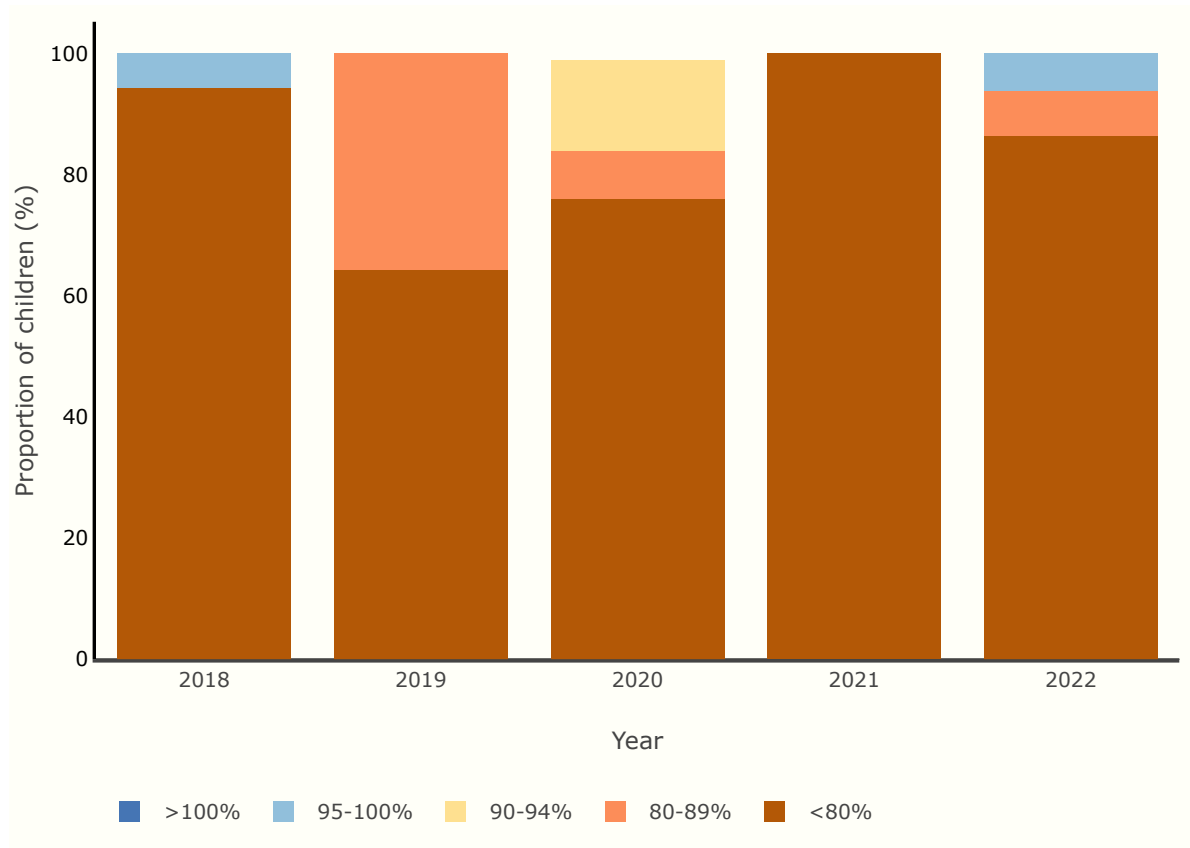ranges, 2018-2022.

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

		MMR1		MMR2	
Year	Coverage range (%)	MMR1	MMR2	MMR1	MMR2
2022	<80	37.5	75.0	52.9	86.4
2022	80-89	25.0	12.5	25.0	7.4
2022	90-94	12.5	0.0	8.5	0.0
2022	95-100	12.5	12.5	7.4	6.2
2022	>100	12.5	0.0	6.2	0.0
2021	<80	50.0	100.0	64.0	100.0
2021	80-89	38.0	0.0	28.0	0.0
2021	90-94	0.0	0.0	0.0	0.0

2021	95-100	0.0	0.0	0.0	0.0
2021	>100	13.0	0.0	8.0	0.0
2020	<80	38.0	63.0	29.0	76.0
2020	80-89	25.0	13.0	18.0	8.0
2020	90-94	13.0	25.0	16.0	15.0
2020	95-100	0.0	0.0	0.0	0.0
2020	>100	25.0	0.0	37.0	0.0
2019	<80	25.0	75.0	23.5	64.3
2019	80-89	25.0	25.0	16.2	35.7
2019	90-94	12.5	0.0	28.8	0.0
2019	95-100	0.0	0.0	0.0	0.0
2019	>100	37.5	0.0	31.5	0.0
2018	<80	50.0	87.5	38.7	94.3
2018	80-89	12.5	0.0	9.3	0.0
2018	90-94	12.5	0.0	15.6	0.0
2018	95-100	12.5	12.5	30.8	5.7
2018	>100	12.5	0.0	5.7	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).