

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

Colombia

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	727,309
Total population	51,874,047

Table 2: Last endemic cases by year and disease.

Measles	Rubella	CRS
2002	2006	2005

Table 3: Vaccination schedule.

Vaccine	1st Dose	2nd Dose	MMR2 Year Introduced
MMR	1 yr	5 yr	1997

Epidemiology and Quality of Surveillance

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

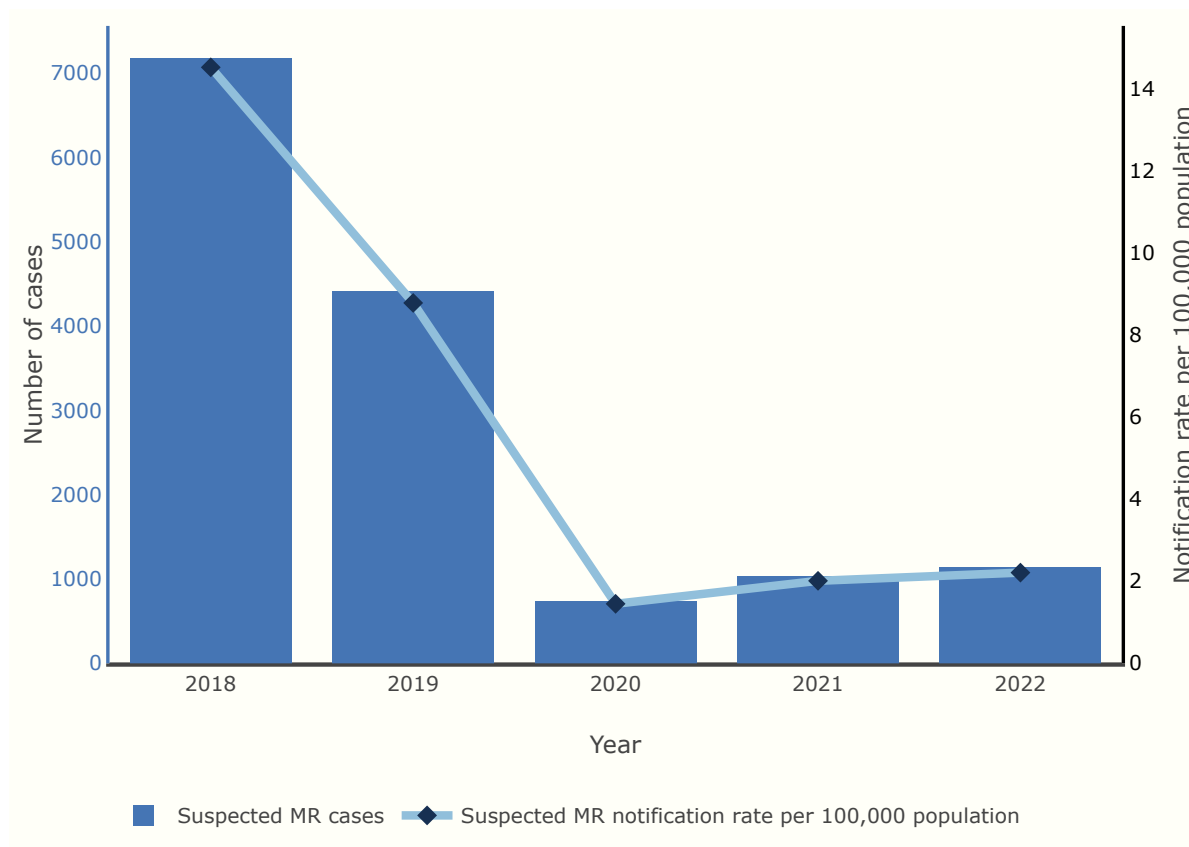


Table 4: Distribution of suspected MR cases and notification rate at the national level, 2018-2022.

	2018	2019	2020	2021	2022
Suspected MR cases	7,184	4,421	740	1,033	1,147
Suspected MR notification rate per 100,000 population	14.52	8.78	1.45	2.01	2.21

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

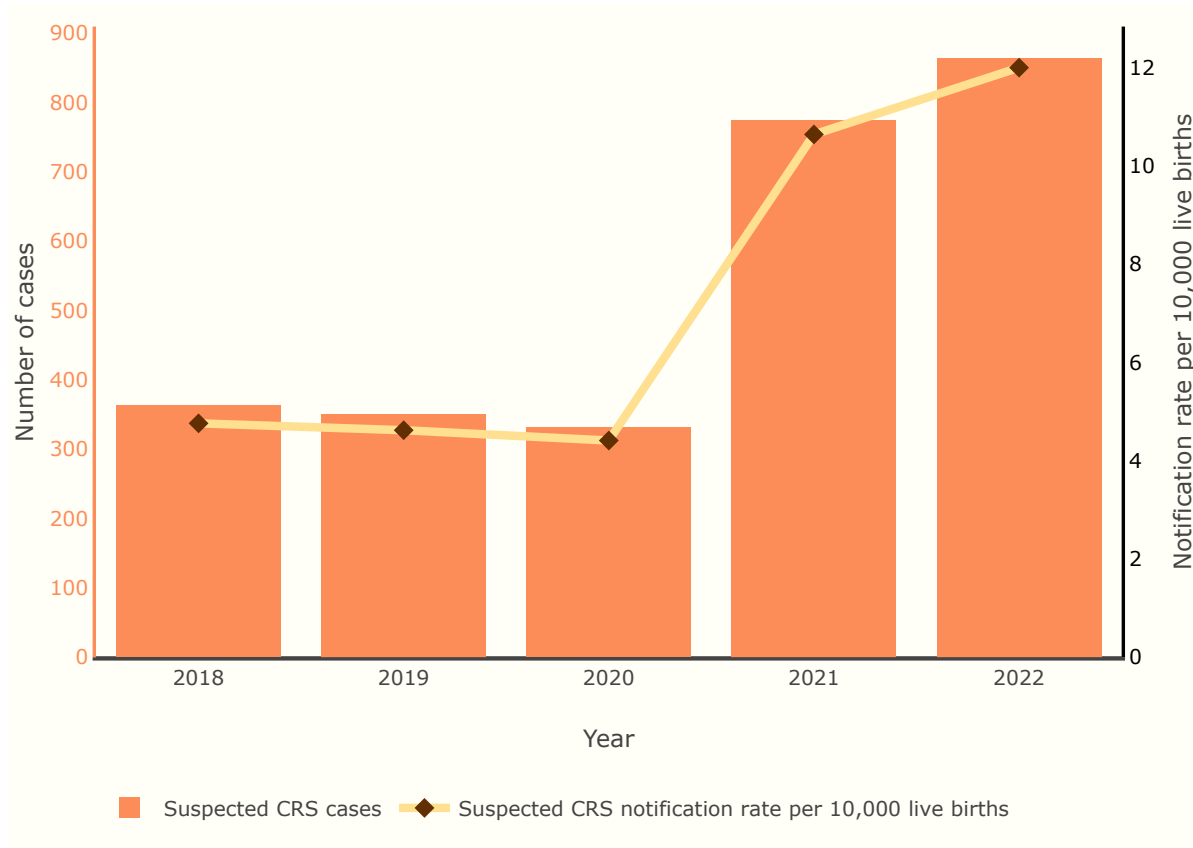


Table 5: Distribution of suspected CRS cases and notification rate at the national level, 2018-2022.

	2018	2019	2020	2021	2022
Suspected CRS cases	363	351	331	775	864
Suspected CRS notification rate per 10,000 live births	4.76	4.62	4.41	10.64	12

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

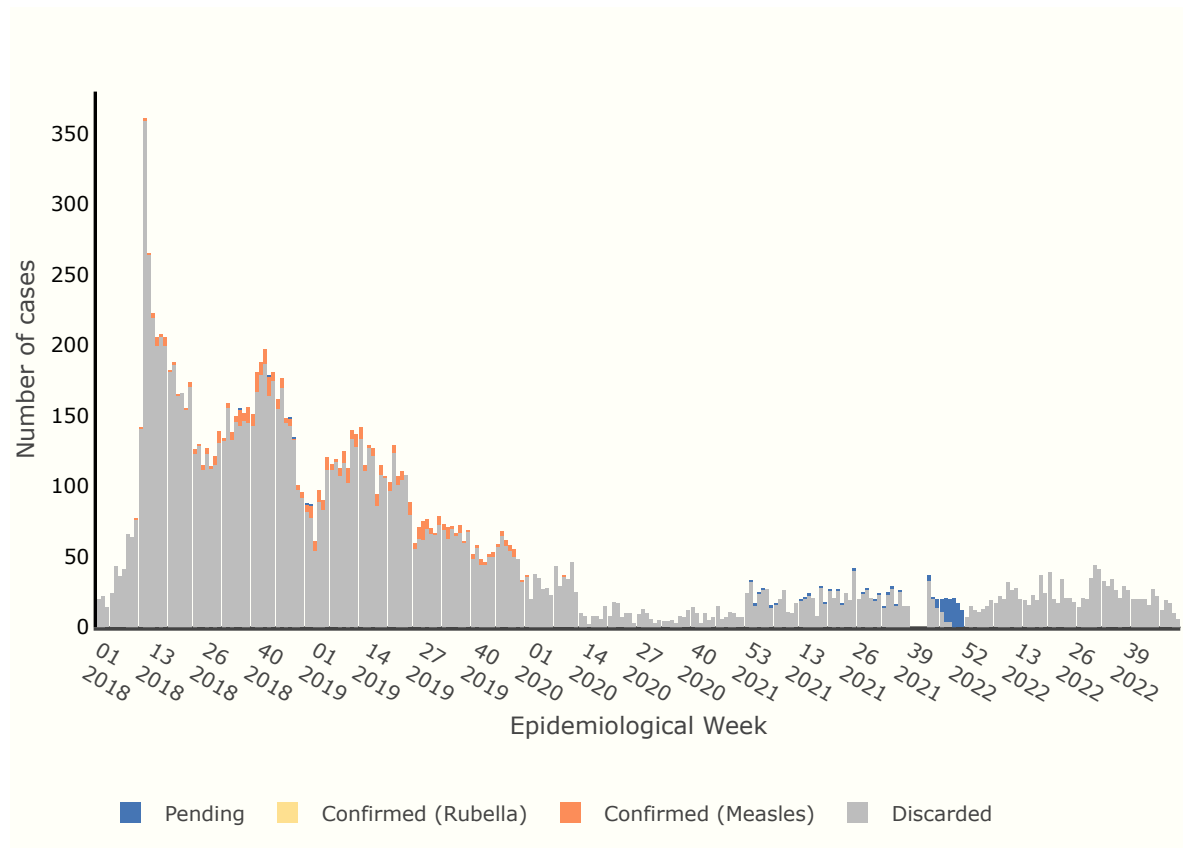


Figure 4: Number of measles and rubella cases by epidemiological year pending final classification, 2018-2022.

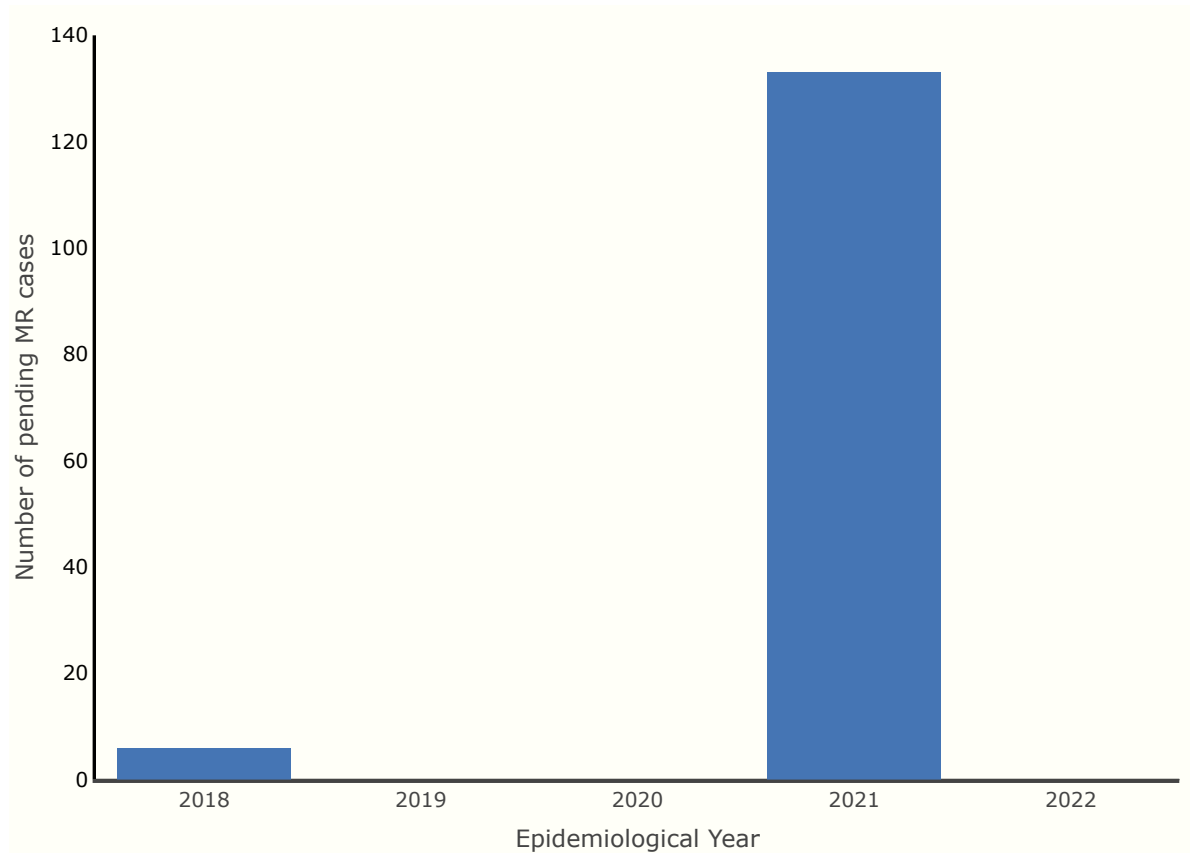


Table 6: Reported cases of measles and rubella by epidemiological year and final classification, 2018-2022.

Classification	2018	2019	2020	2021	2022
Confirmed (Measles)	202	244	1	0	0
Confirmed (Rubella)	0	0	0	0	0
Pending	6	0	0	133	0
Discarded	6976	4177	739	900	1147
Total	7184	4421	740	1033	1147

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

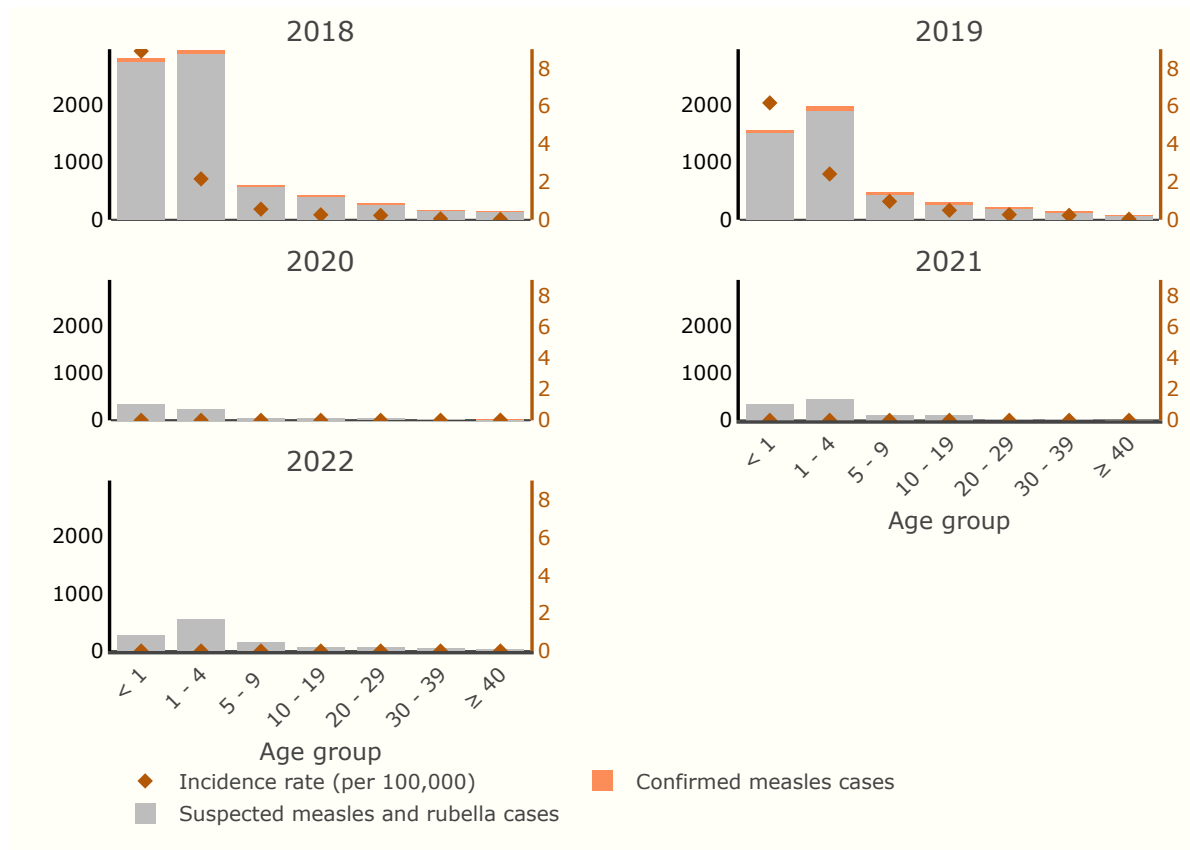


Figure 6: Performance indicators of measles and rubella surveillance by year, 2018-2022.

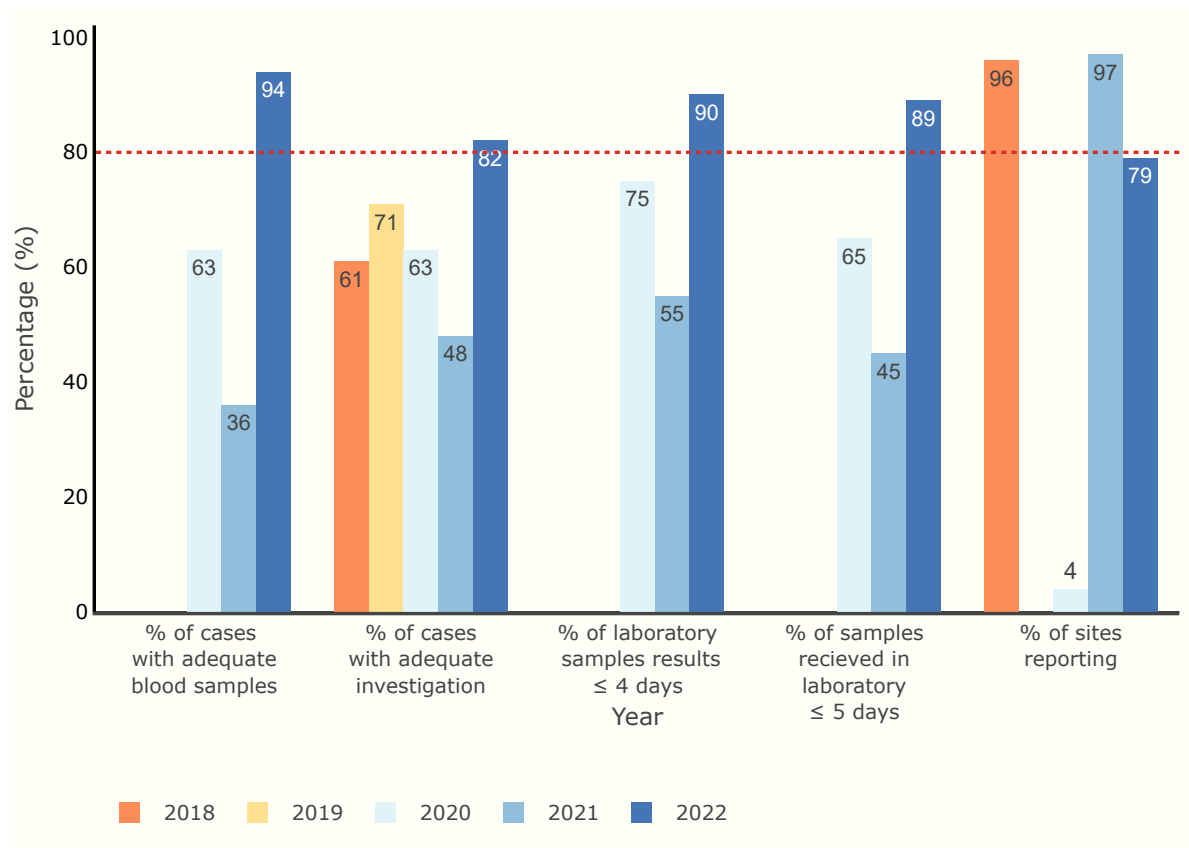


Figure 7: Proportion of the 11 variables reported for adequate investigation indicator, 2022.

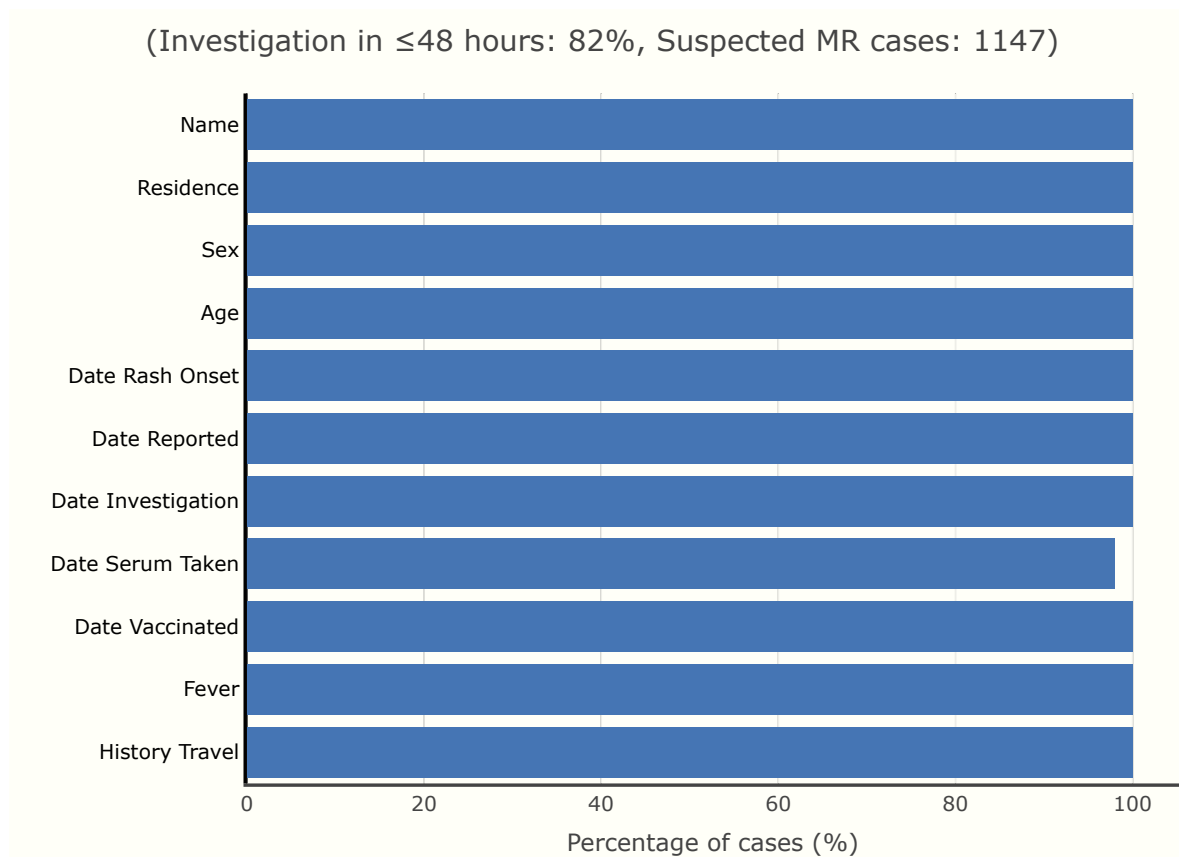


Table 7: Municipalities reporting measles and rubella suspected cases by year, 2018-2022.

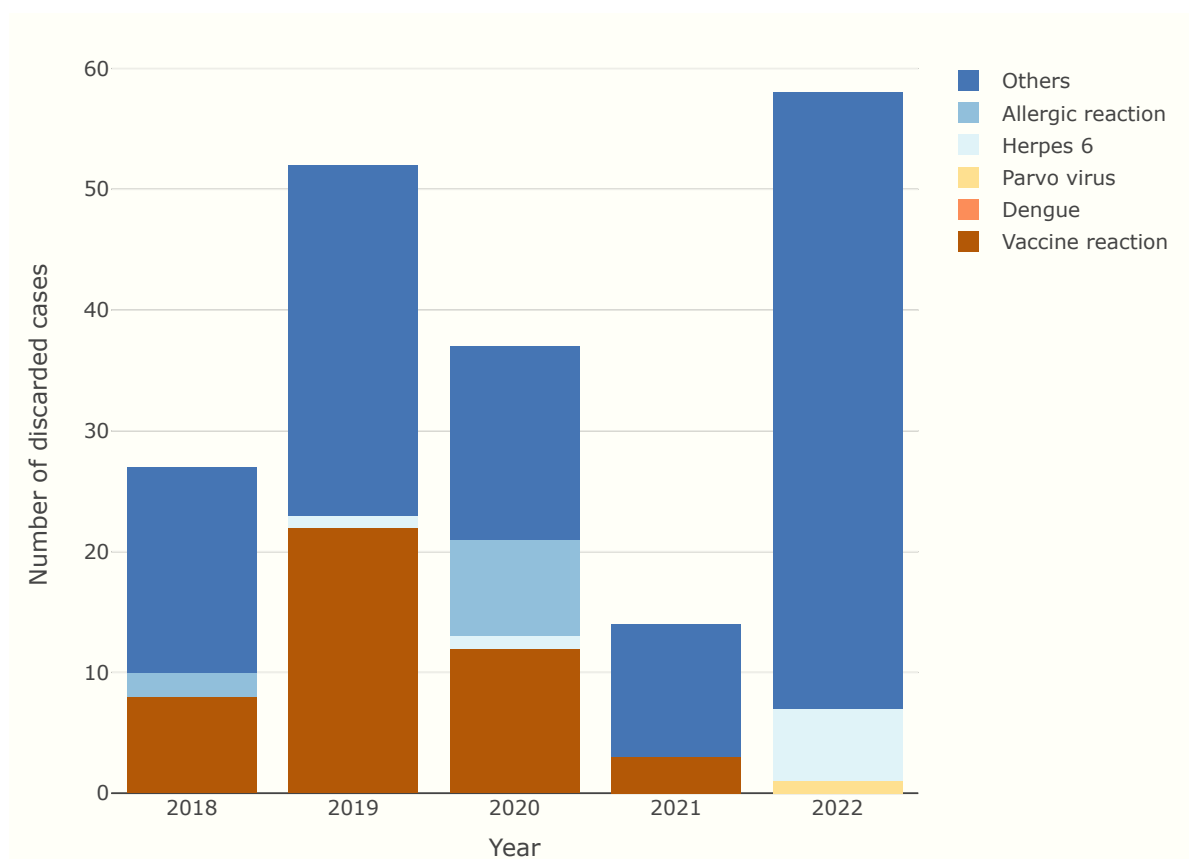
Year	No. of municipalities reporting suspected cases	Total municipalities in the country	% of municipalities reporting suspected cases
2018	367	1122	33
2019	287	1122	26
2020	103	1122	9
2021	171	1122	15
2022	142	1122	13

Laboratory Surveillance

Table 8: Criteria used to discard suspected measles and rubella cases by year, 2018-2022.

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
2018	7184	6976	888	6062	27	8	0	0	0	2	17
2019	4421	4179	551	3576	52	22	0	0	1	0	29
2020	740	739	330	372	37	12	0	0	1	8	16
2021	1033	900	314	572	14	3	0	0	0	0	11
2022	1147	1147	1089	0	58	0	0	1	6	0	51

Figure 8: Distribution of discarded measles and rubella suspected cases by other differential diagnosis, 2018-2022.



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, 2018-2022.

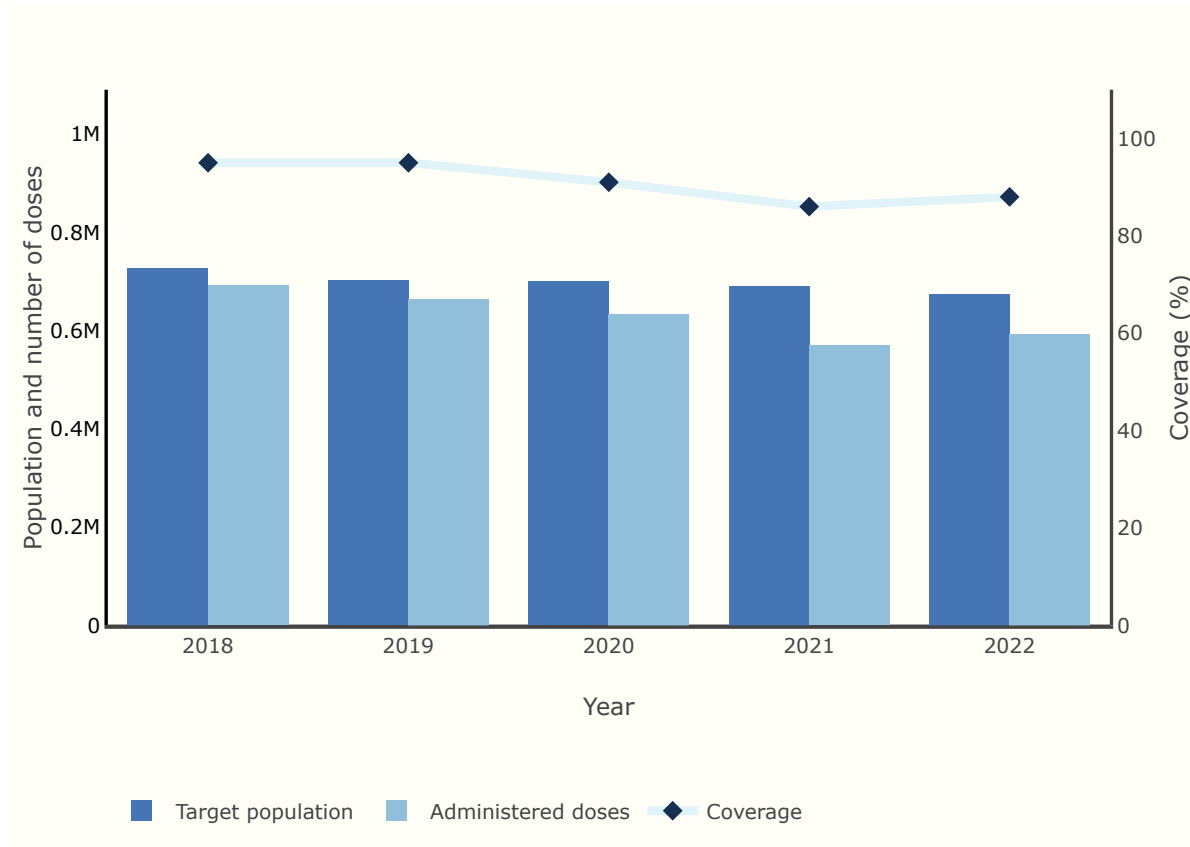


Figure 10: Coverage of the second dose of measles-mumps-rubella (MMR2) vaccine, number of doses administered, and number of children 5 year(s) of age, 2018-2022.

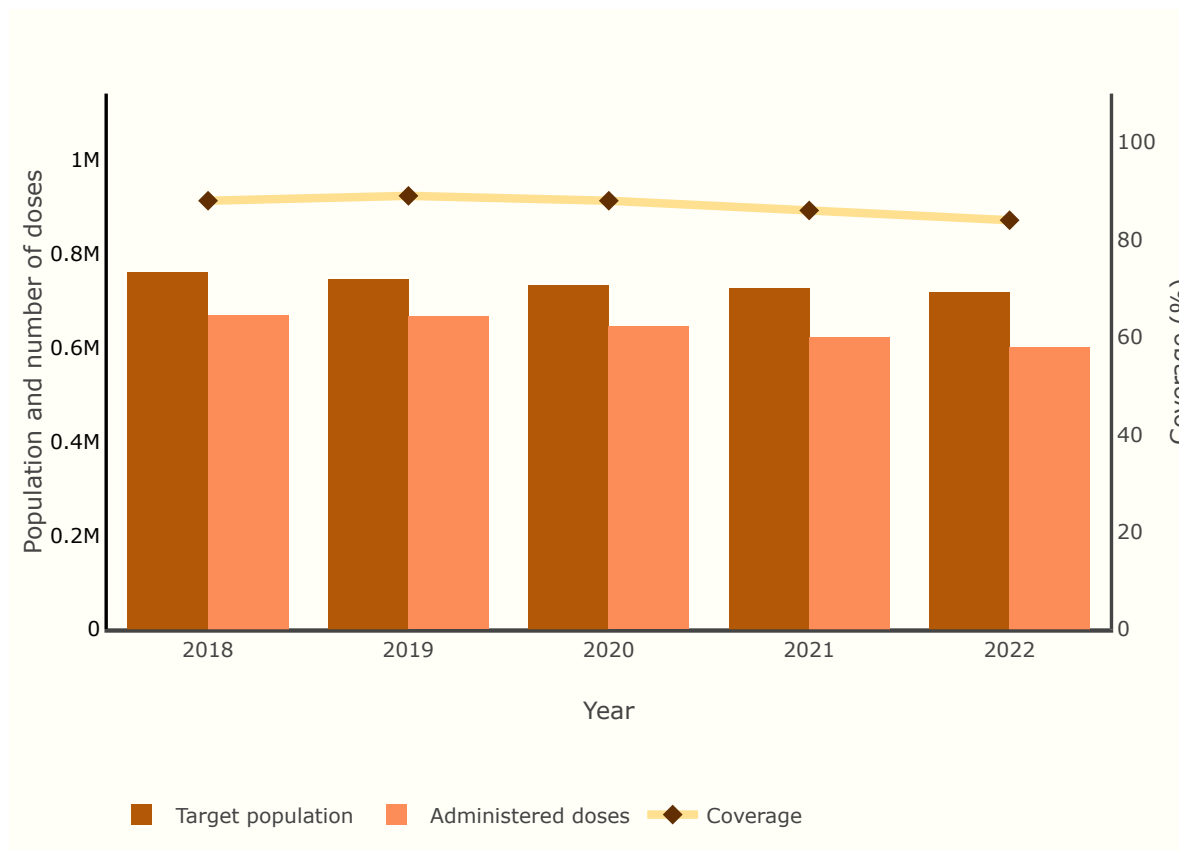


Table 9: Vaccination coverage with first and second dose of measles-mumps-rubella (MMR1 and MMR2) vaccines by target population and administered doses, 2018-2022.

Year	MMR1			MMR2		
	Administered doses	Target population	Coverage	Administered doses	Target population	Coverage
2018	692,174	727,193	95	670,402	761,215	88
2019	663,997	702,452	95	666,362	746,063	89
2020	633,760	700,319	91	645,063	734,295	88
2021	569,966	690,659	86	622,717	727,372	86
2022	594,043	674,937	88	601,245	718,397	84

Figure 11: Subnational coverage of the first dose of measles-mumps-rubella (MMR1) vaccine and proportion of children aged 1 year, 2021

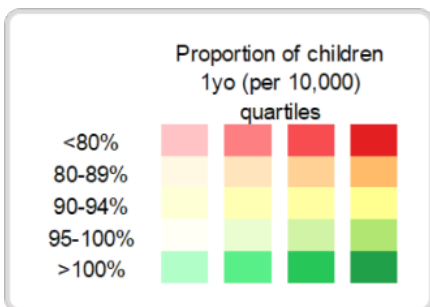
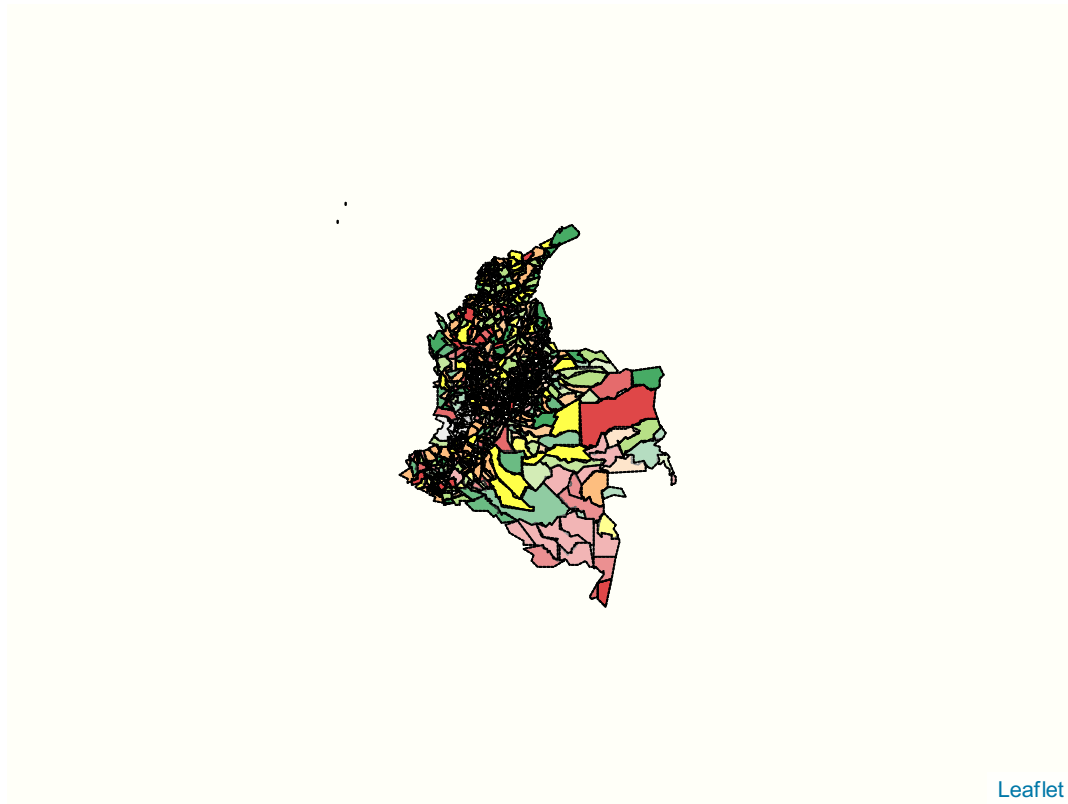


Figure 12: Proportion of municipalities by MMR1 vaccination coverage ranges, 2018-2022.

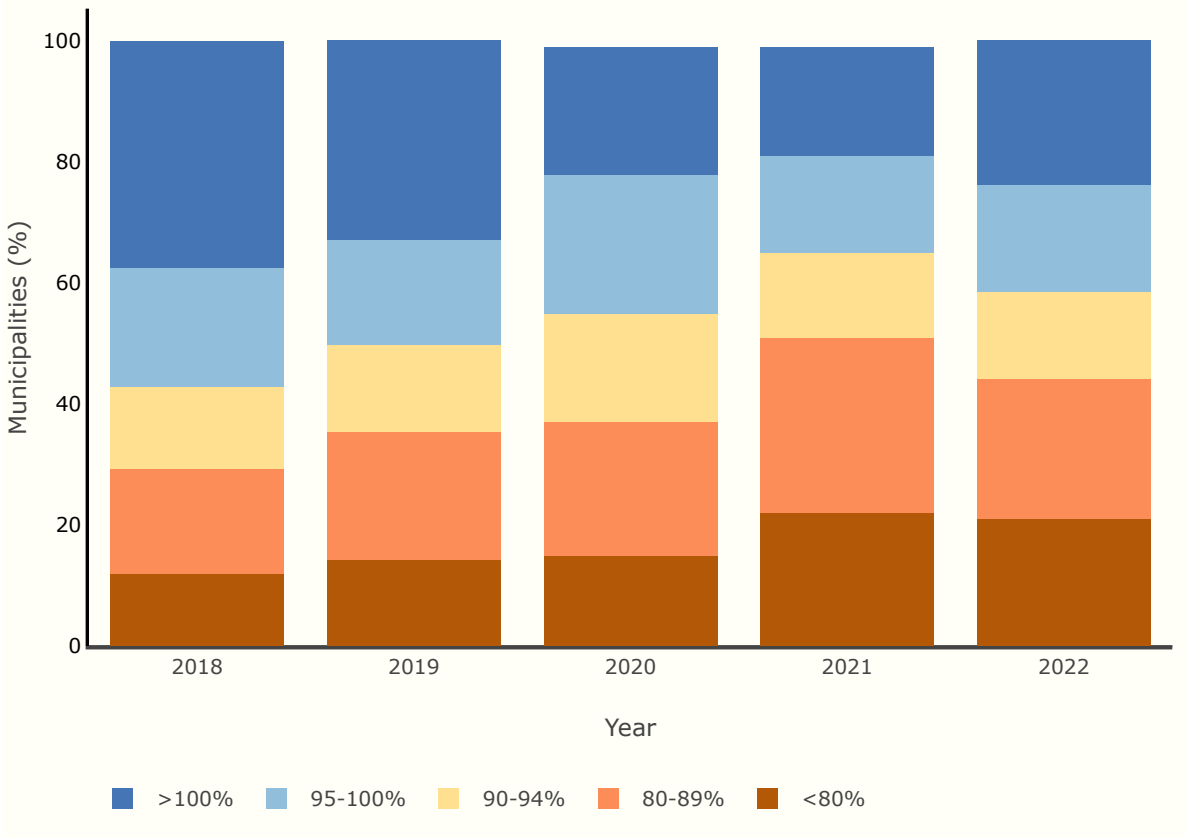


Figure 13: Proportion of children living in those municipalities for MMR1 vaccination coverage ranges, 2018-2022.

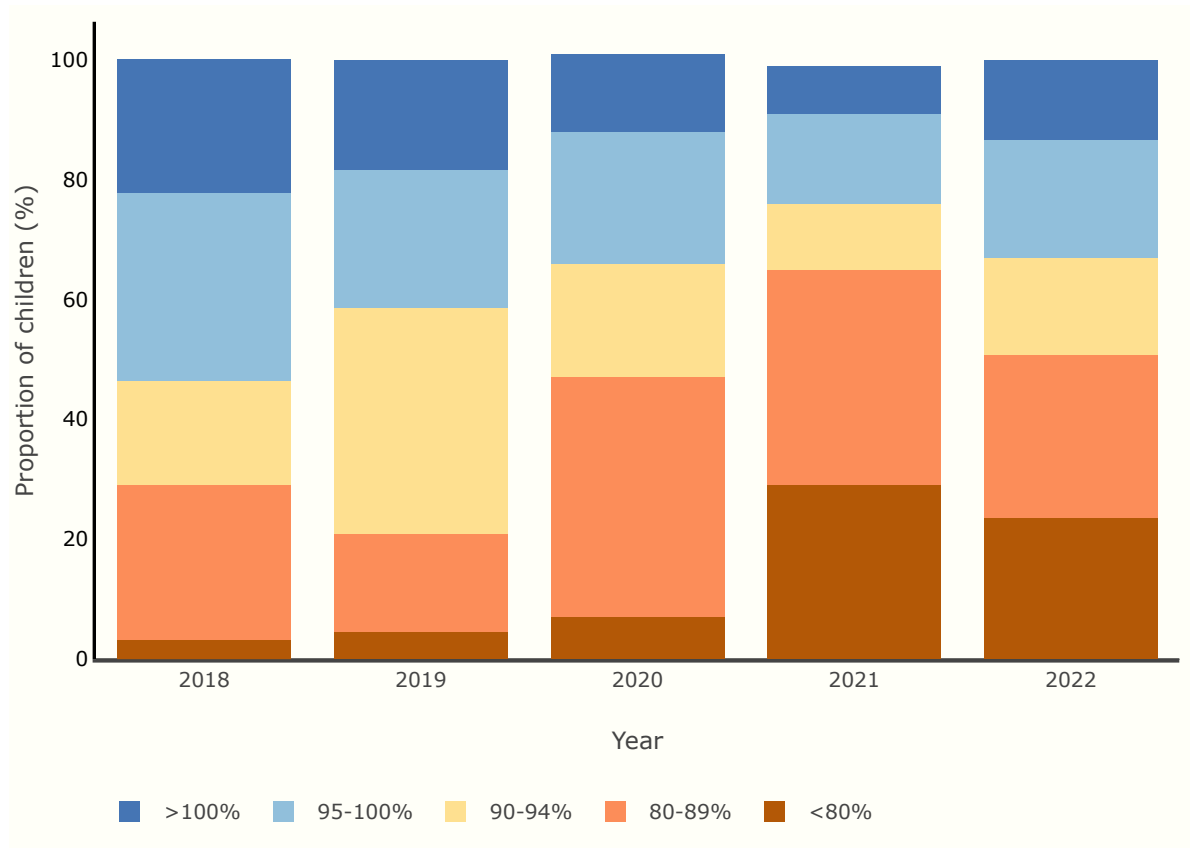


Figure 14: Proportion of municipalities by MMR2 vaccination coverage ranges, 2018-2022.

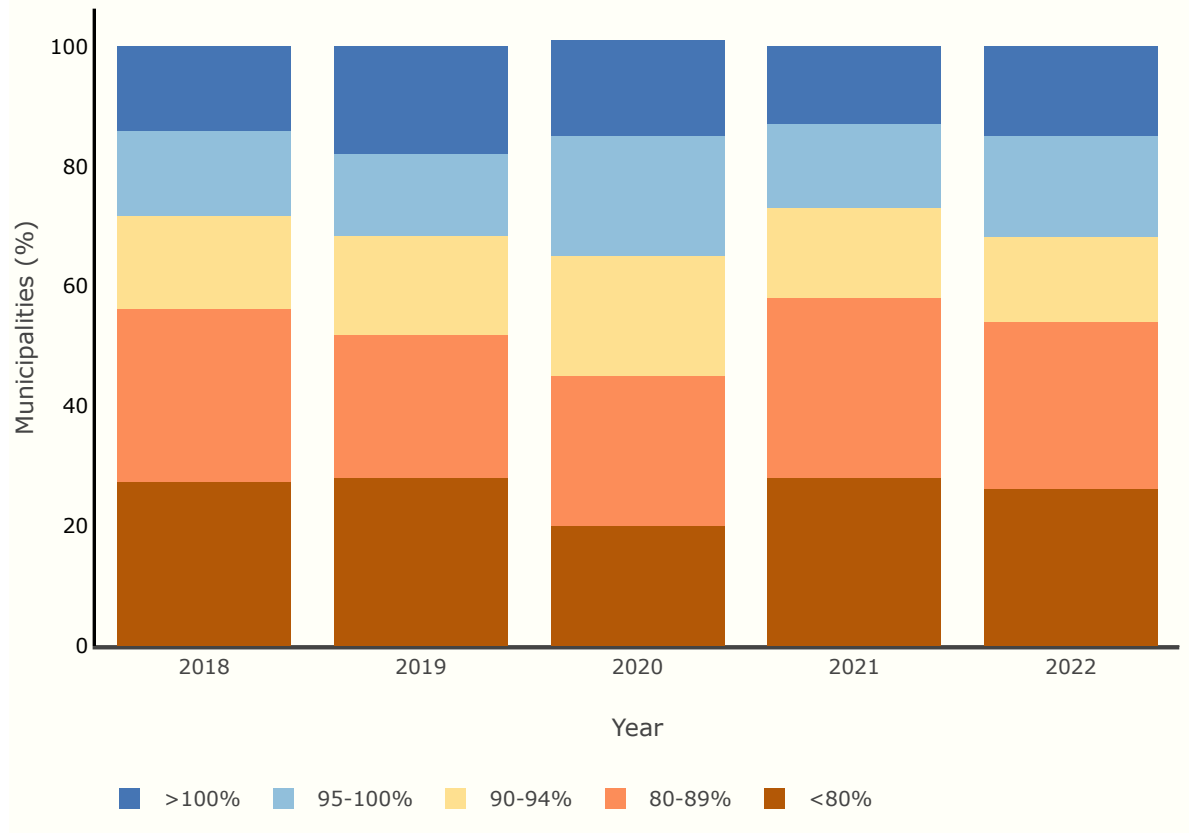


Figure 15: Proportion of children living in those municipalities for MMR2 vaccination coverage ranges, 2018-2022.

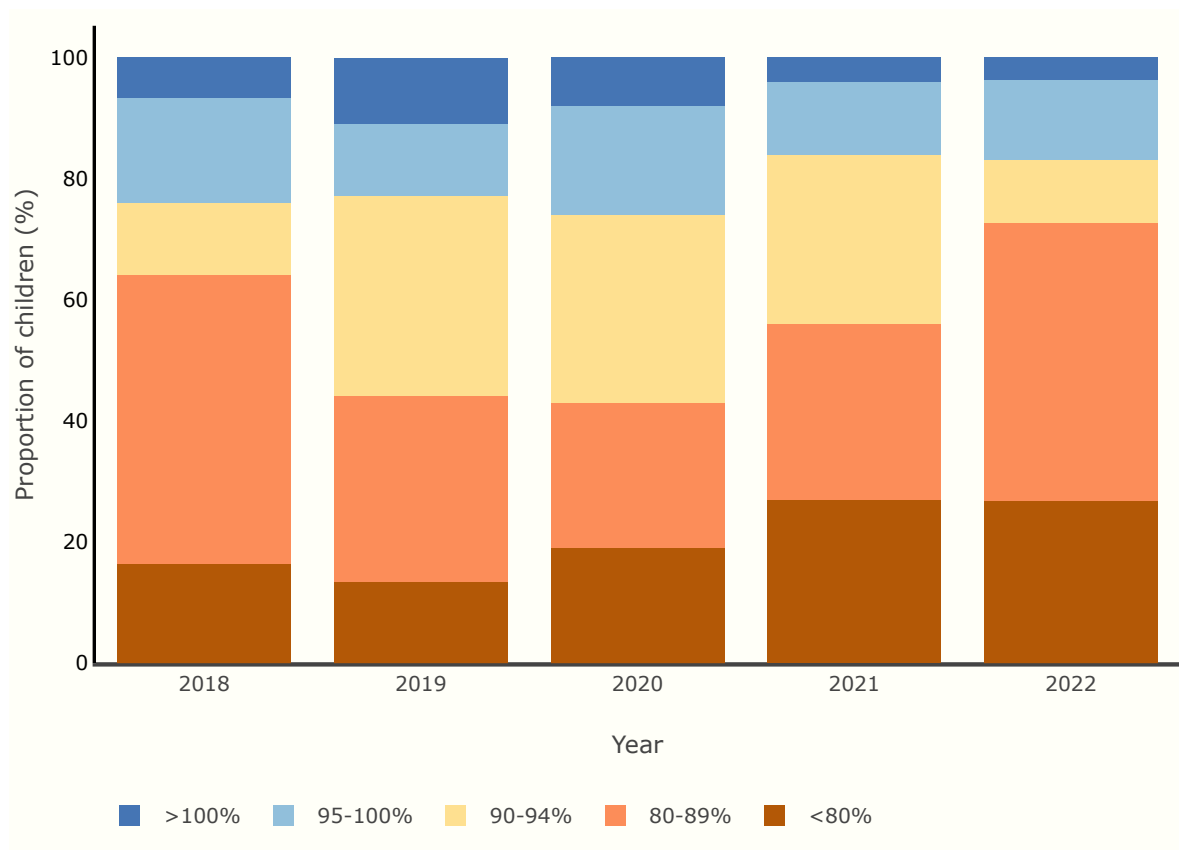


Table 10: Proportion of municipalities with MMR1 and MMR2 coverage ranges and proportion of children living in those municipalities, 2018-2022.

Year	Coverage range (%)	MMR1		MMR2	
		MMR1	MMR2	MMR1	MMR2
2022	<80	21.1	26.3	23.6	26.8
2022	80-89	23.1	27.7	27.2	45.9
2022	90-94	14.4	14.3	16.2	10.4
2022	95-100	17.6	16.7	19.7	13.2
2022	>100	23.9	15.0	13.3	3.7
2021	<80	22.0	28.0	29.0	27.0
2021	80-89	29.0	30.0	36.0	29.0
2021	90-94	14.0	15.0	11.0	28.0

2021	95-100	16.0	14.0	15.0	12.0
2021	>100	18.0	13.0	8.0	4.0
2020	<80	15.0	20.0	7.0	19.0
2020	80-89	22.0	25.0	40.0	24.0
2020	90-94	18.0	20.0	19.0	31.0
2020	95-100	23.0	20.0	22.0	18.0
2020	>100	21.0	16.0	13.0	8.0
2019	<80	14.2	28.1	4.5	13.4
2019	80-89	21.3	23.9	16.5	30.7
2019	90-94	14.3	16.4	37.6	33.0
2019	95-100	17.3	13.6	23.1	12.0
2019	>100	33.0	18.0	18.3	10.8
2018	<80	12.0	27.3	3.2	16.4
2018	80-89	17.3	29.0	26.0	47.8
2018	90-94	13.6	15.4	17.2	11.8
2018	95-100	19.6	14.3	31.4	17.3
2018	>100	37.4	14.1	22.2	6.7

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).
