

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

Dominican Republic

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	199,462
Total population	11,228,842

Table 2: Last endemic cases by year and disease.

Measles	Rubella	CRS
2001	2006	2007

Table 3: Vaccination schedule.

Vaccine	1st Dose	2nd Dose	MMR2 Year Introduced
MMR	12 mo	18 mo	2018

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
2015	MR	1-4 years	742,792	95.37	73,226	2021

Epidemiology and Quality of Surveillance

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

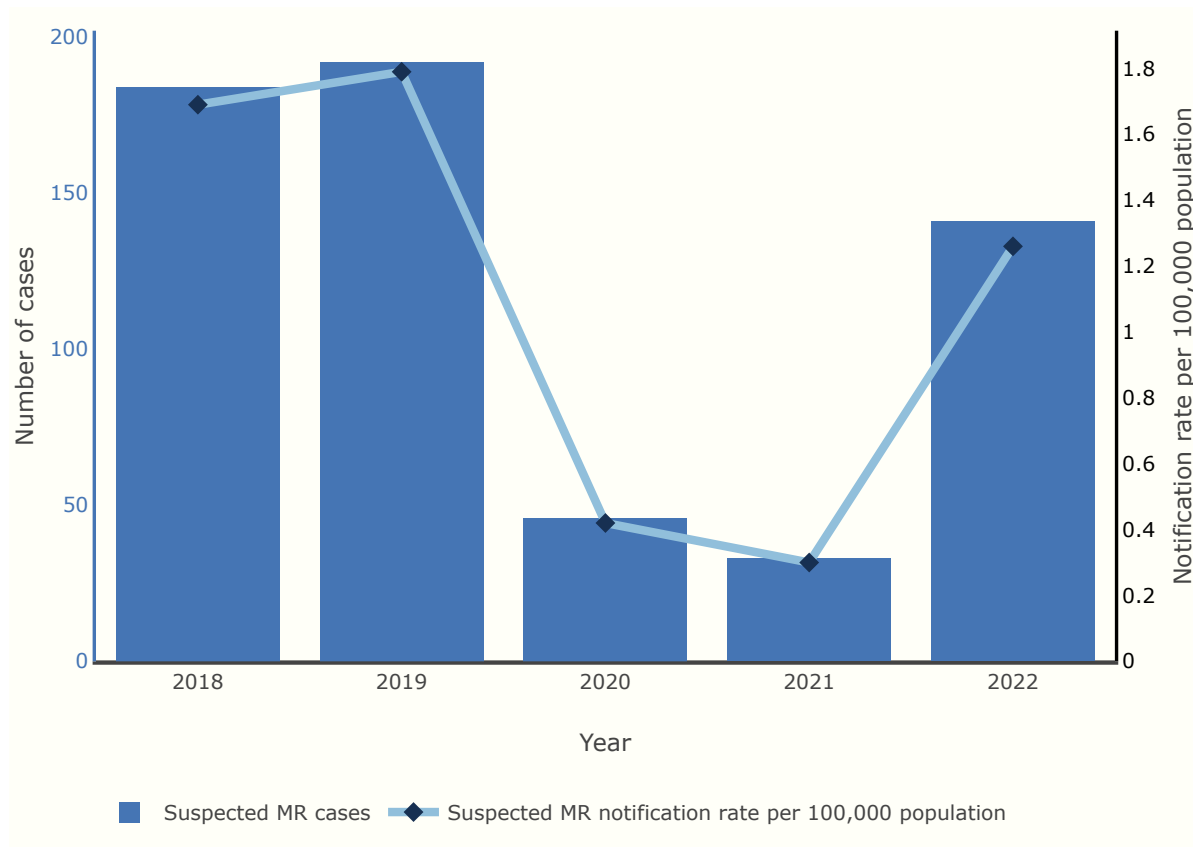


Table 5: Distribution of suspected MR cases and notification rate at the national level, 2018-2022.

	2018	2019	2020	2021	2022
Suspected MR cases	184	192	46	33	141
Suspected MR notification rate per 100,000 population	1.69	1.79	0.42	0.3	1.26

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

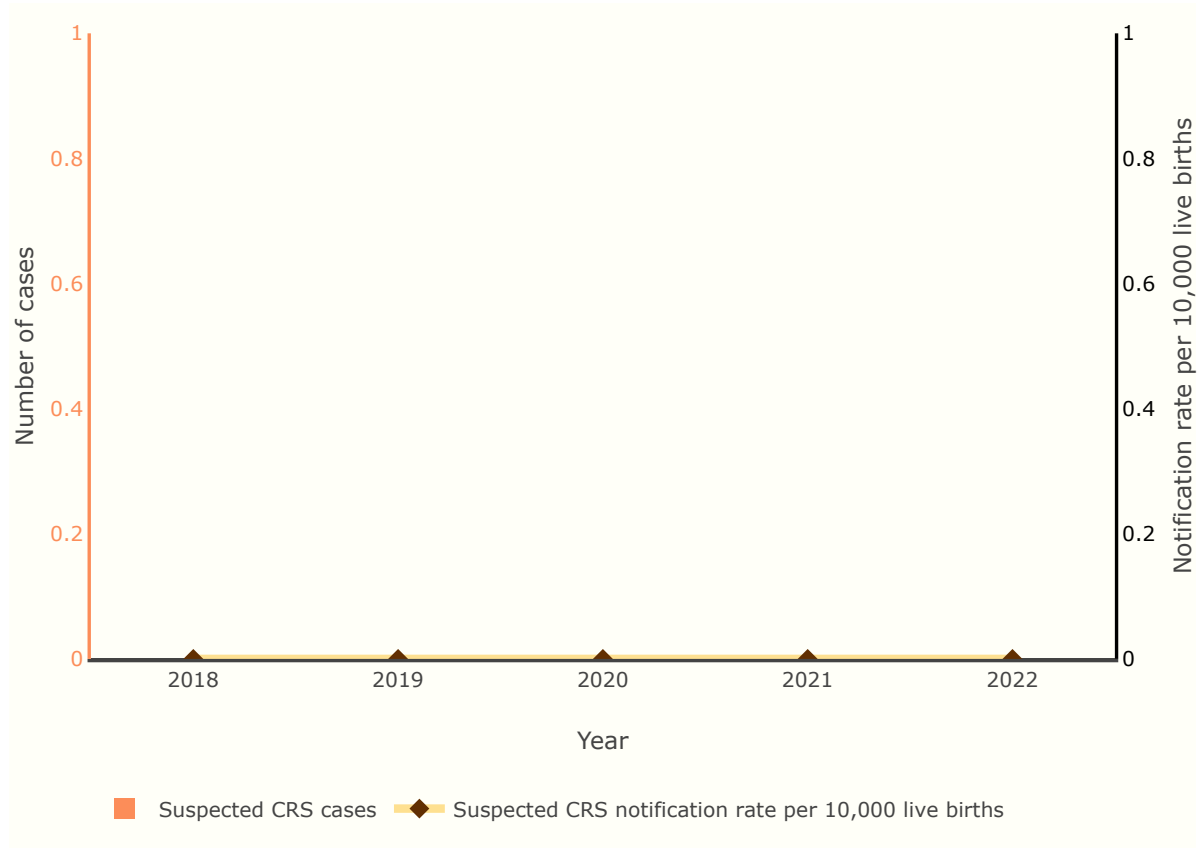


Table 6: Distribution of suspected CRS cases and notification rate at the national level, 2018-2022.

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

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

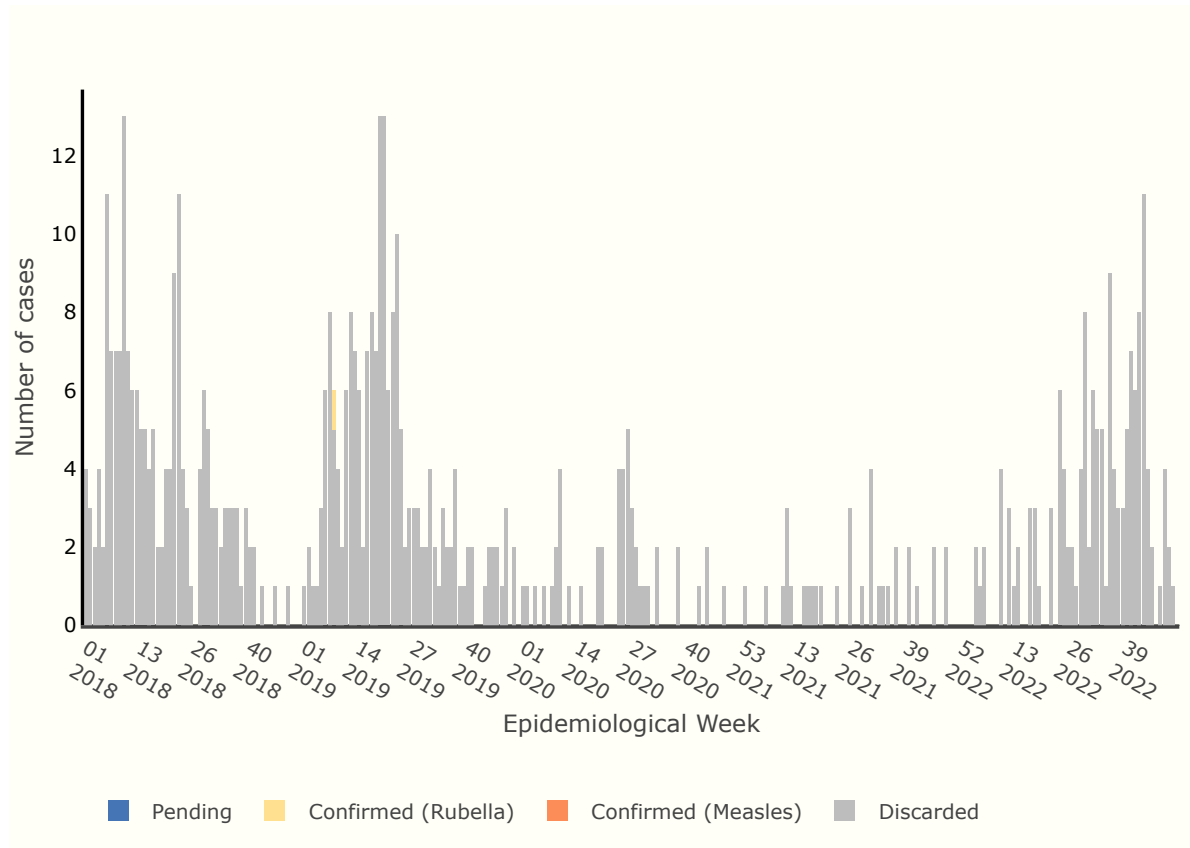


Table 7: Reported cases of measles and rubella by epidemiological year and final classification, 2018-2022.

Classification	2018	2019	2020	2021	2022
Confirmed (Measles)	0	0	0	0	0
Confirmed (Rubella)	0	1	0	0	0
Pending	0	0	0	0	0
Discarded	184	191	46	33	141
Total	184	192	46	33	141

Figure 4: Distribution of reported measles and rubella cases and incidence rate by age group, 2018-2022.

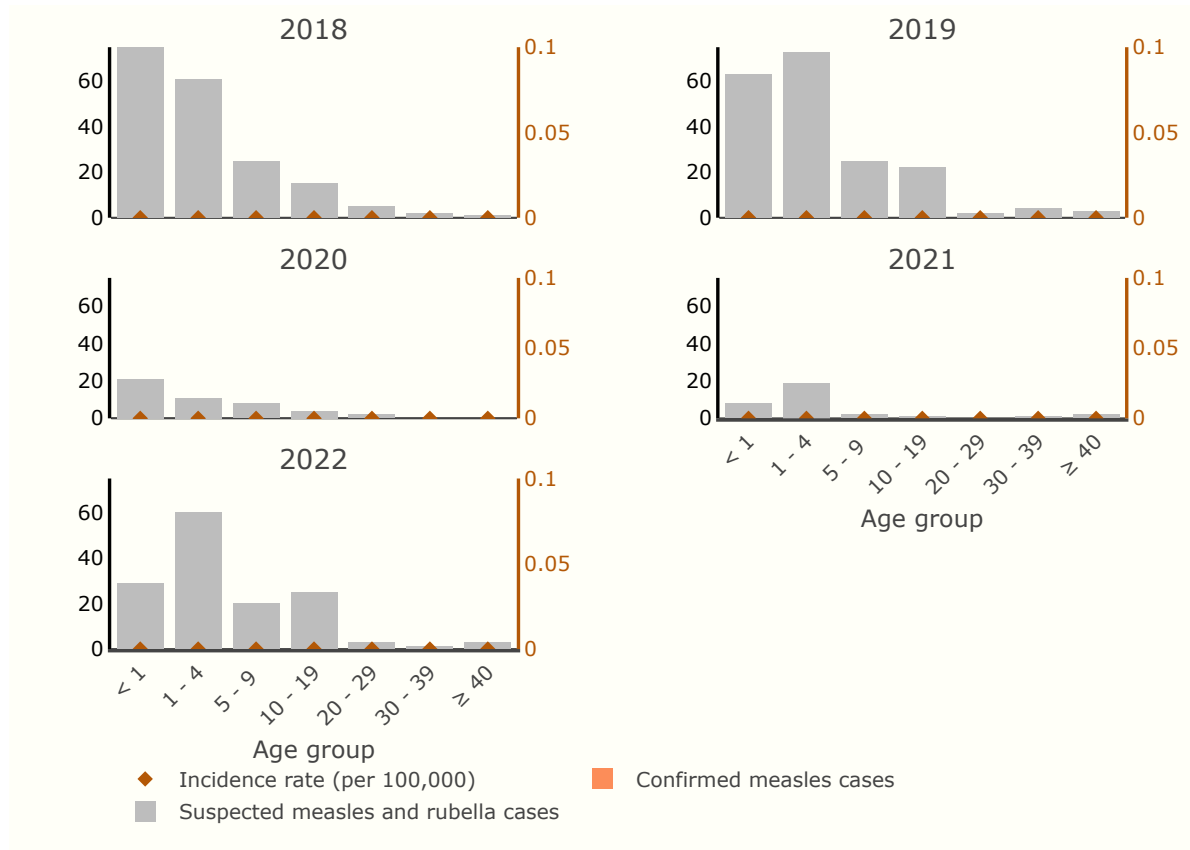


Figure 5: Performance indicators of measles and rubella surveillance by year, 2018-2022.

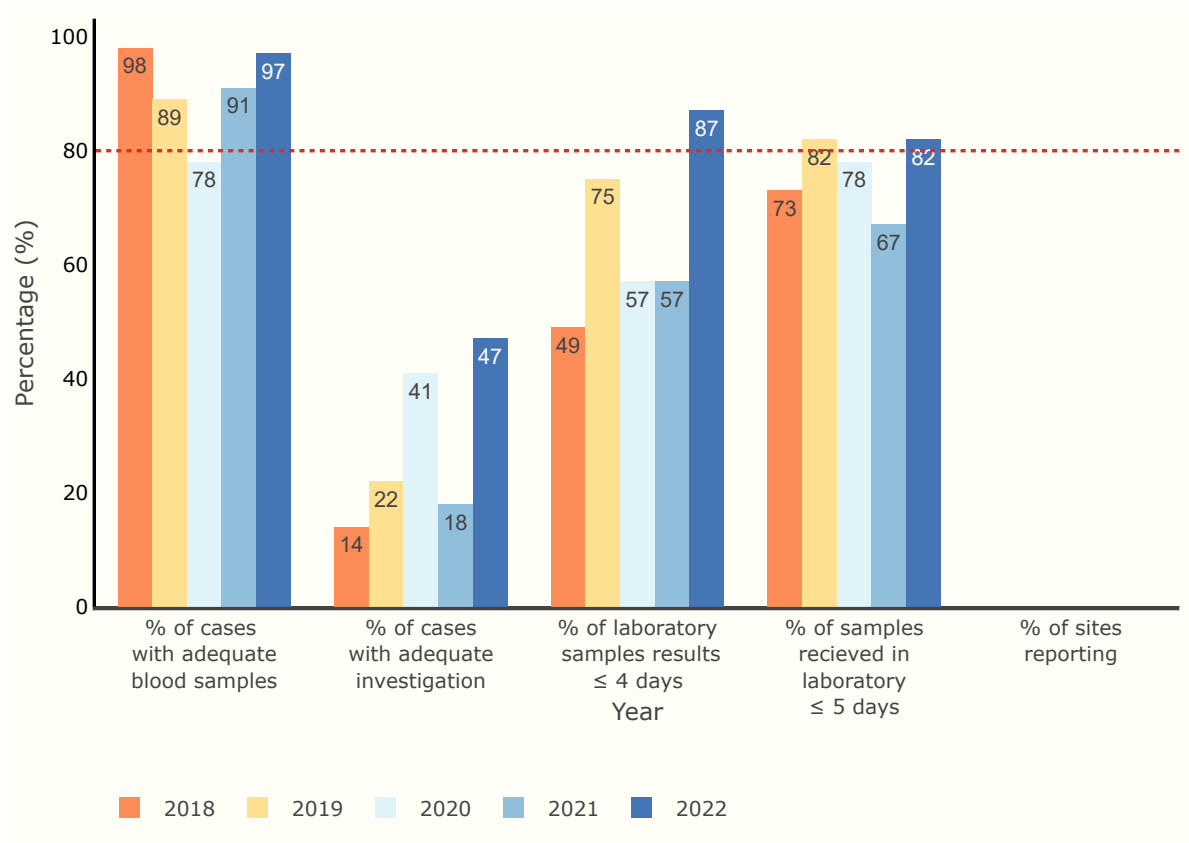


Figure 6: Proportion of the 11 variables reported for adequate investigation indicator, 2022.

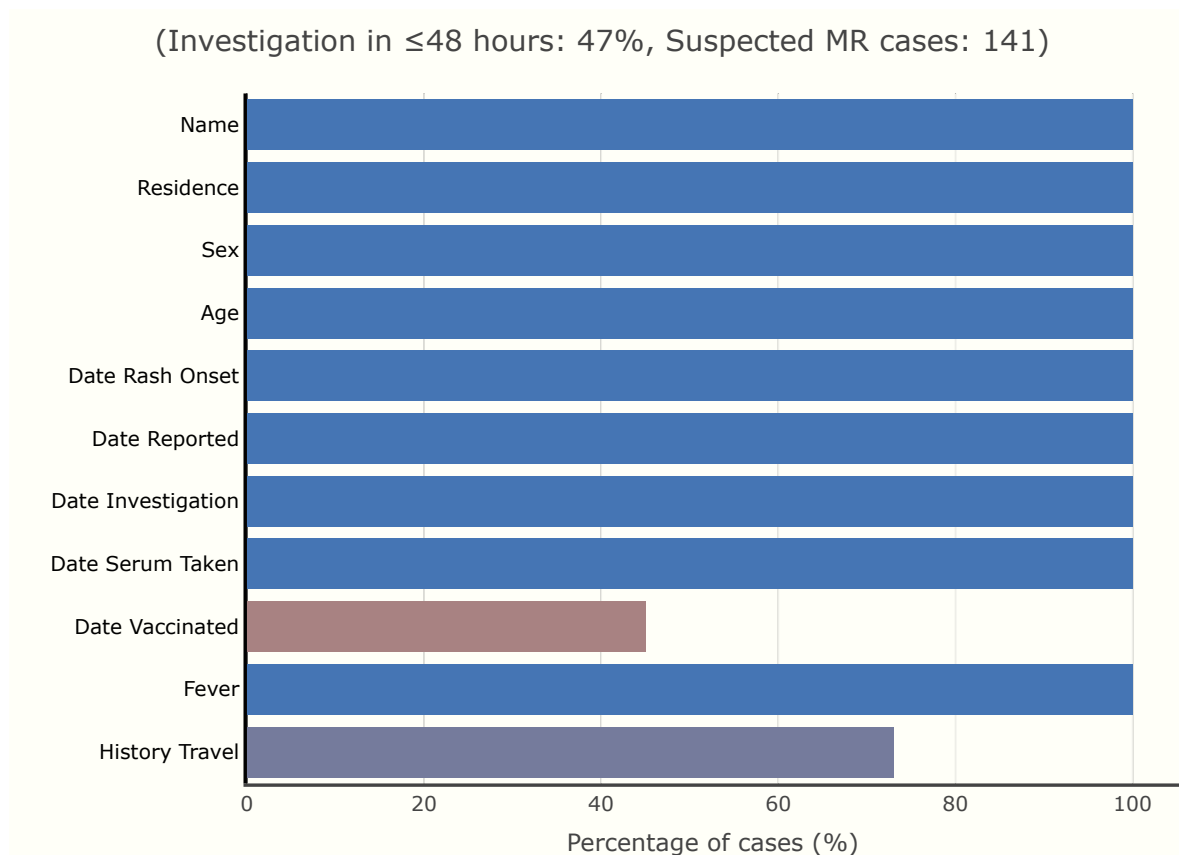


Table 8: Municipalities reporting measles and rubella suspected cases by year, 2018-2022.

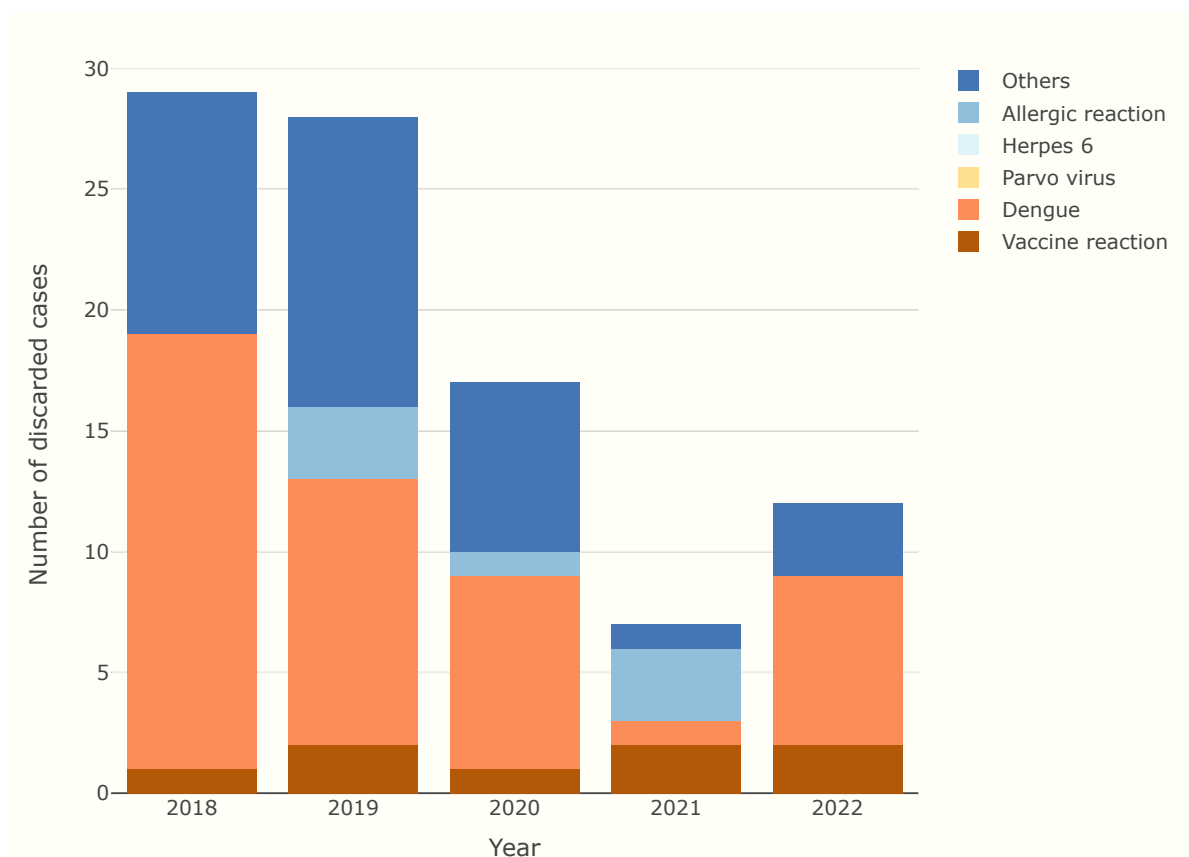
Year	No. of municipalities reporting suspected cases	Total municipalities in the country	% of municipalities reporting suspected cases
2018	48	157	31
2019	53	157	34
2020	22	157	14
2021	18	157	12
2022	55	157	35

Laboratory Surveillance

Table 9: 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	184	184	154	1	29	1	18	0	0	0	10
2019	192	191	162	1	28	2	11	0	0	3	12
2020	46	46	29	0	17	1	8	0	0	1	7
2021	33	33	26	0	7	2	1	0	0	3	1
2022	141	141	129	0	12	2	7	0	0	0	3

Figure 7: Distribution of discarded measles and rubella suspected cases by other differential diagnosis, 2018-2022.



Analysis of Vaccination Coverage and Population Cohorts

Figure 8: 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.

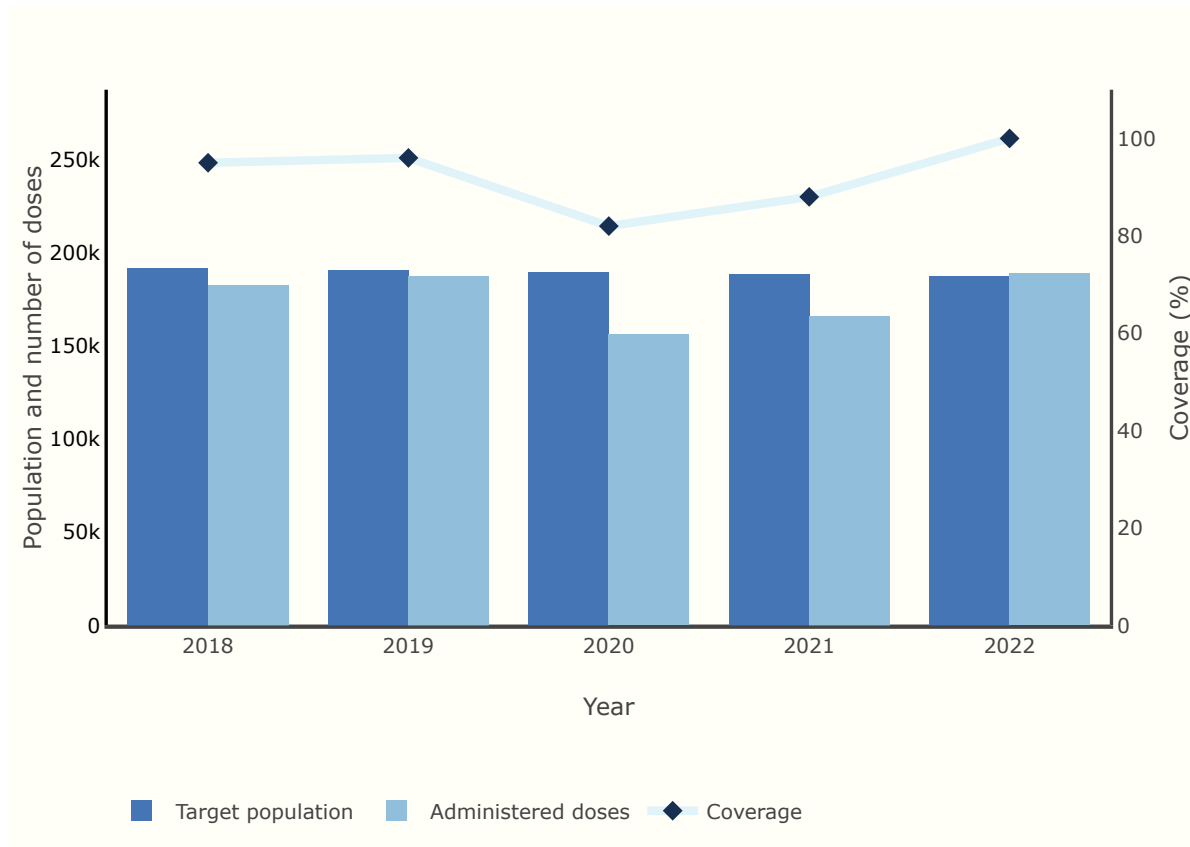


Figure 9: Coverage of the second dose of measles-mumps-rubella (MMR2) vaccine, number of doses administered, and number of children 18 month(s) of age, 2018-2022.

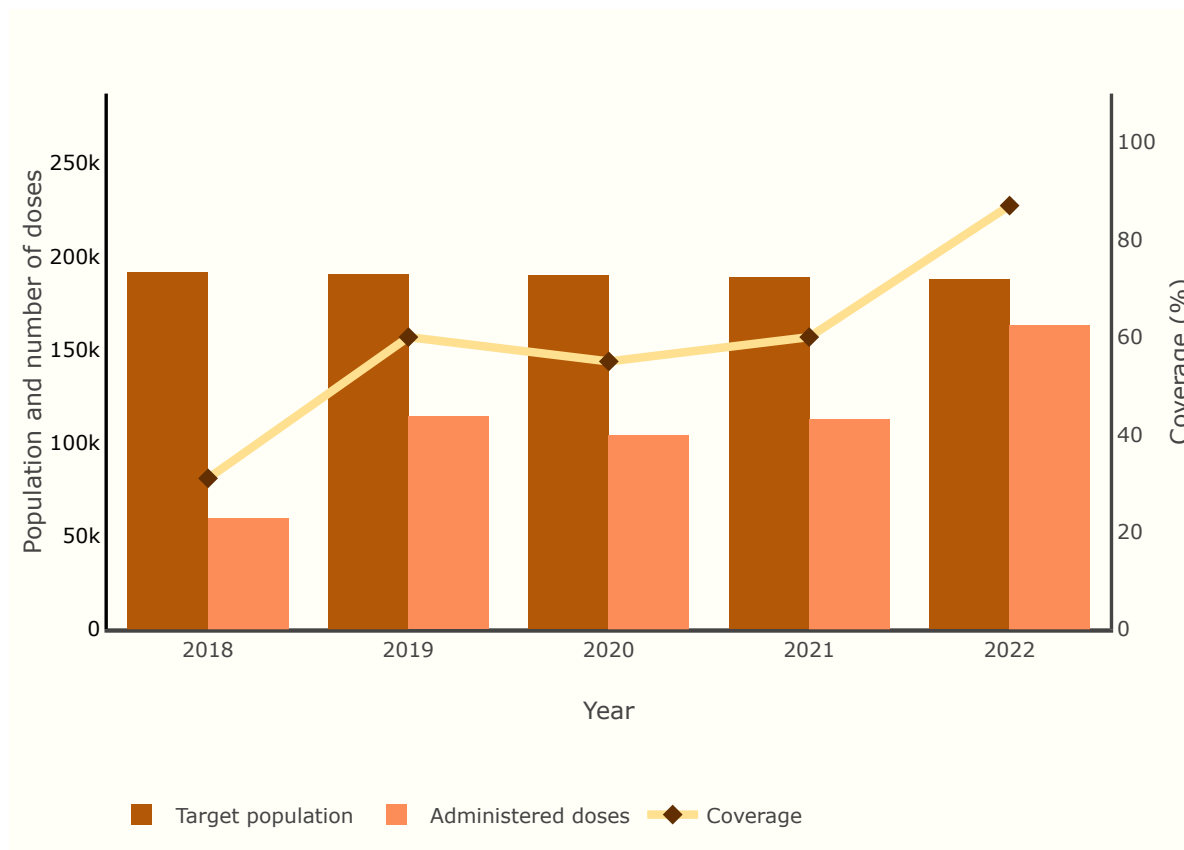


Table 10: Vaccination coverage with first and second dose of measles-mumps-rubella (MMR1 and MMR2) vaccines by target population and administered doses, 2018-2022.

Year	MMR1			MMR2		
	Administered doses	Target population	Coverage	Administered doses	Target population	Coverage
2018	182,863	191,614	95	59,585	191,614	31
2019	187,272	190,554	96	114,115	190,554	60
2020	156,096	189,790	82	104,242	189,790	55
2021	165,884	188,705	88	112,827	188,705	60
2022	188,845	187,615	100	163,165	187,615	87

Figure 10: Subnational coverage of the first dose of measles-mumps-rubella (MMR1) vaccine and proportion of children aged 1 year, 2021

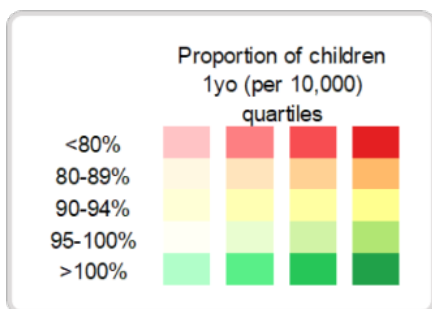
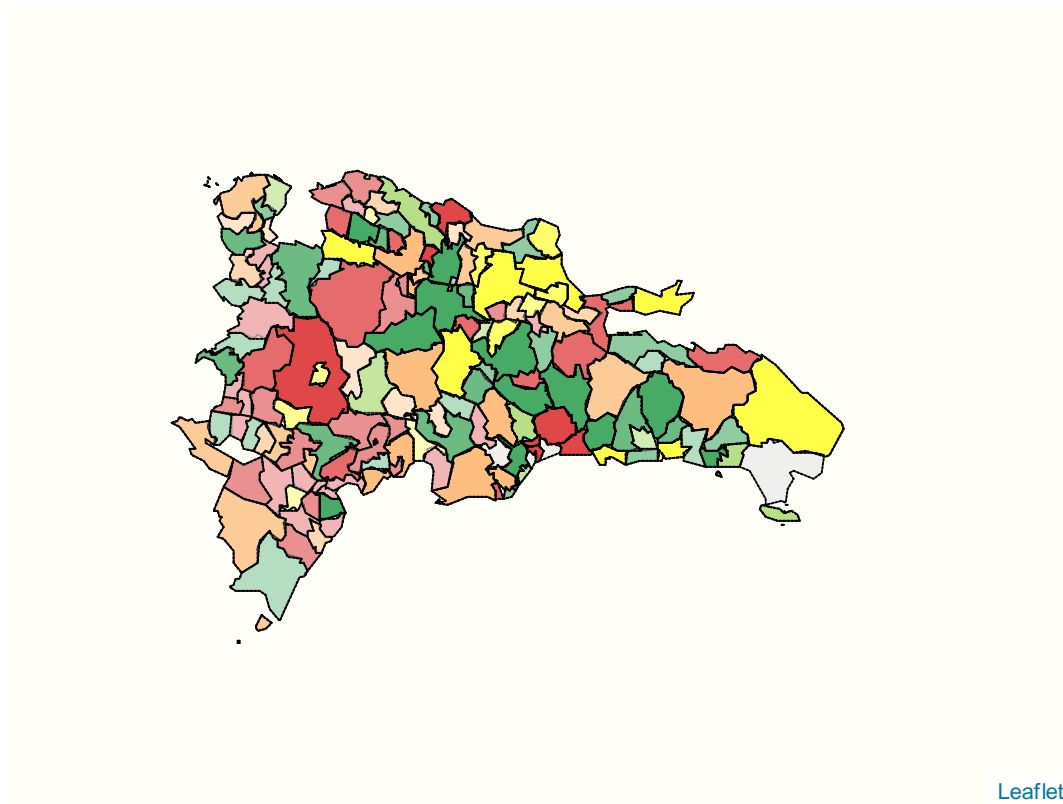


Figure 11: Proportion of municipalities by MMR1 vaccination coverage ranges, 2018-2022.

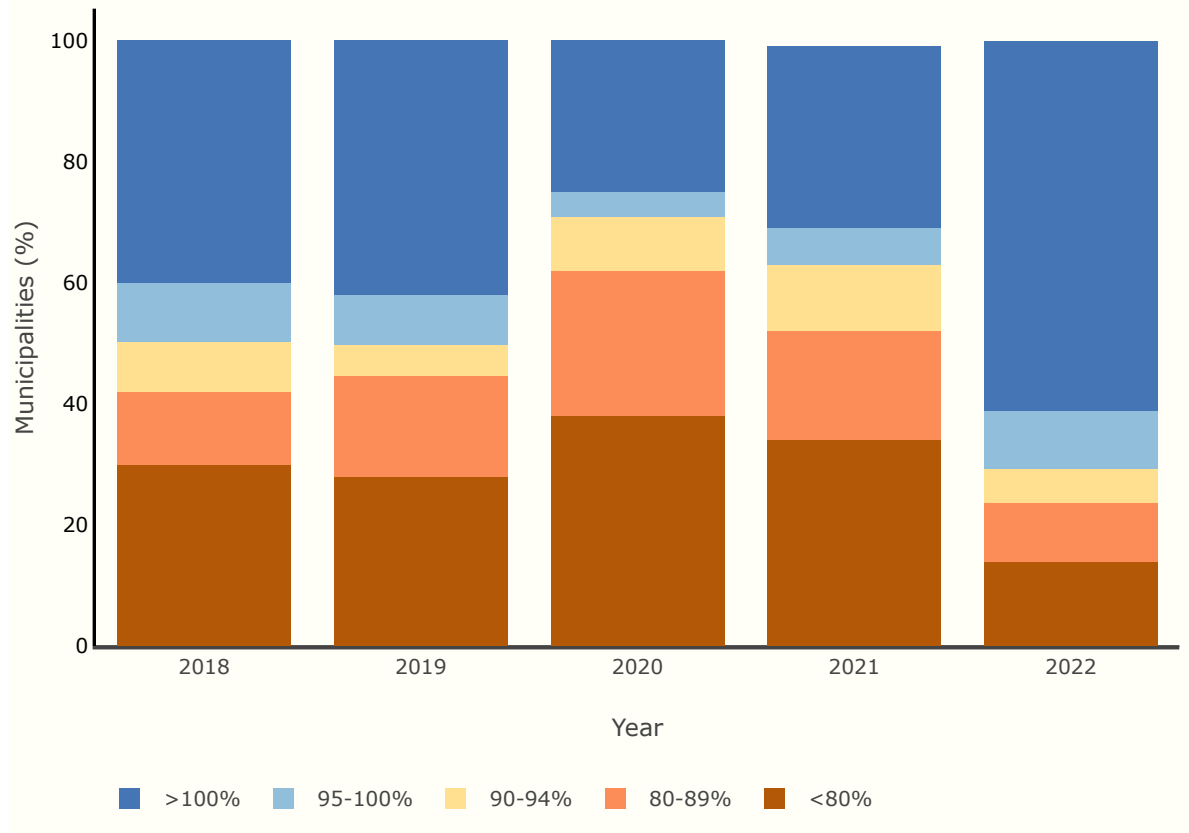


Figure 12: Proportion of children living in those municipalities for MMR1 vaccination coverage ranges, 2018-2022.

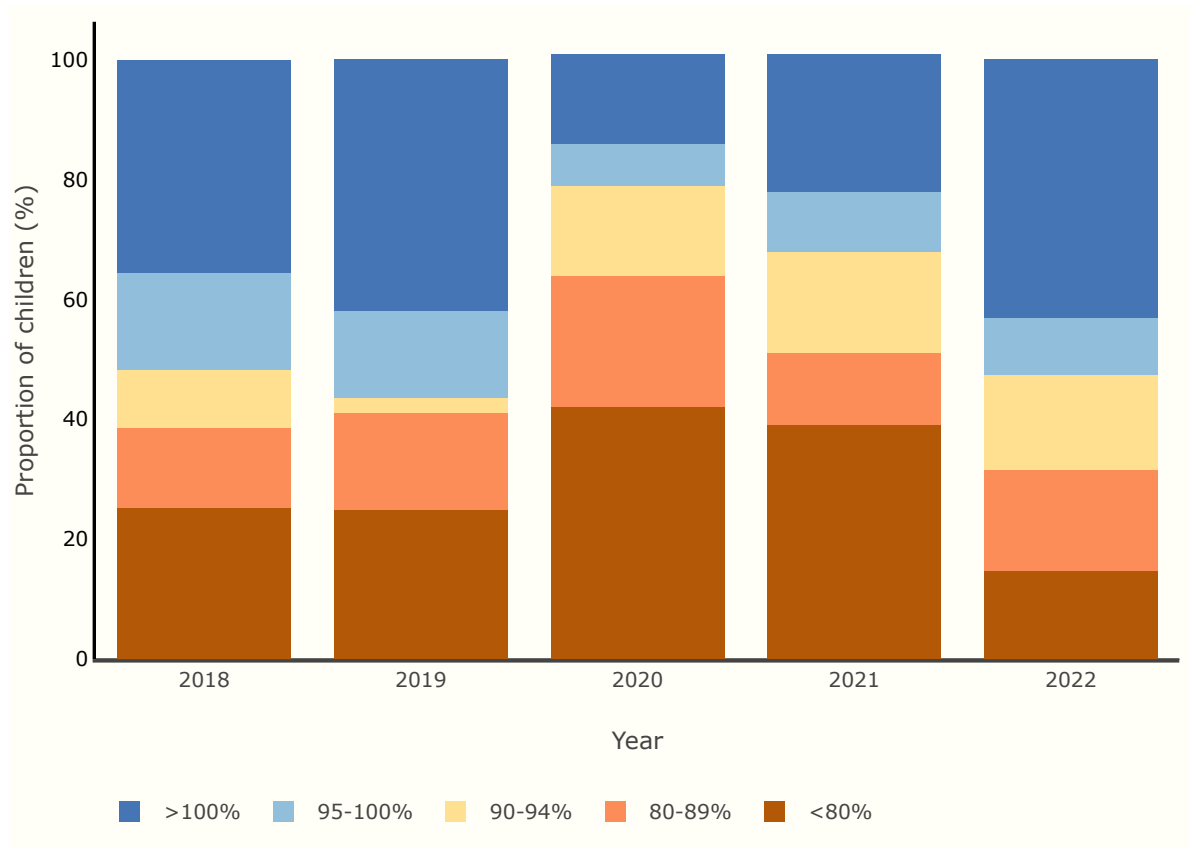


Figure 13: Proportion of municipalities by MMR2 vaccination coverage ranges, 2018-2022.

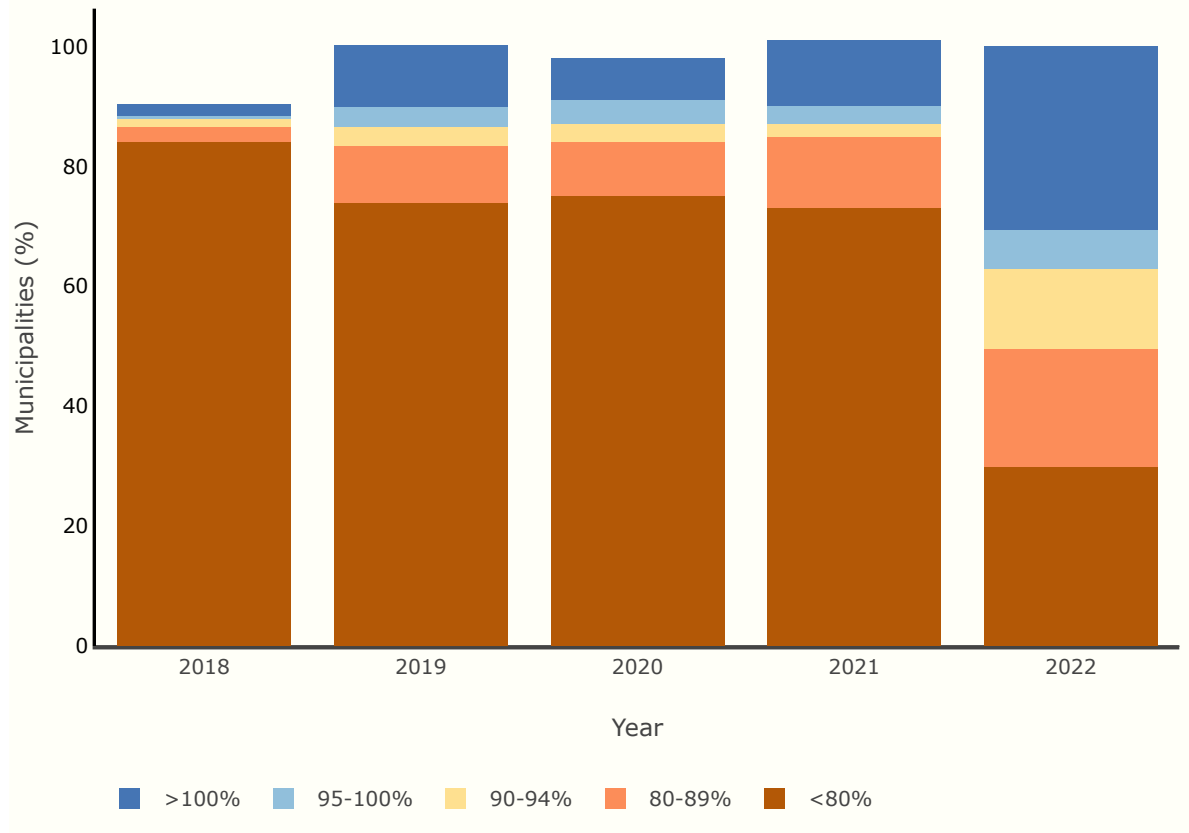


Figure 14: Proportion of children living in those municipalities for MMR2 vaccination coverage ranges, 2018-2022.

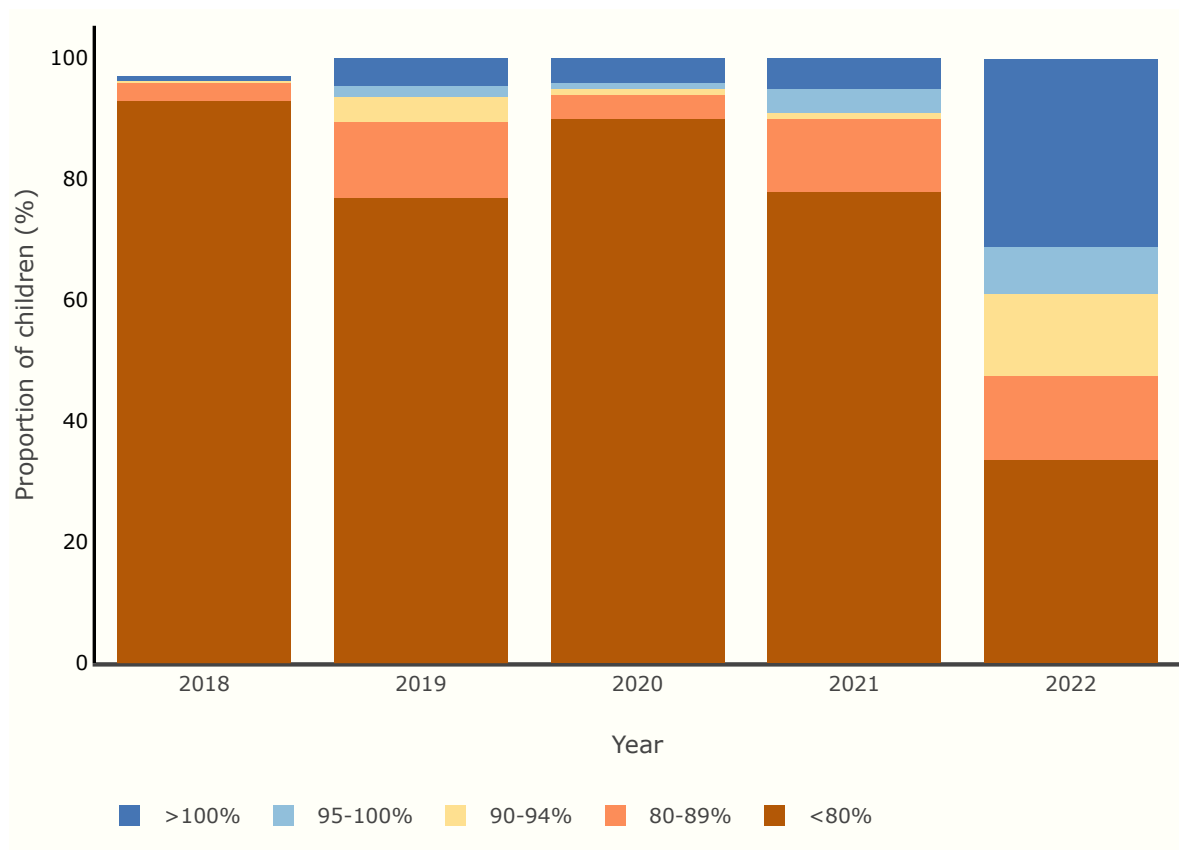


Table 11: Proportion of municipalities with MMR1 and MMR2 coverage ranges and proportion of children living in those municipalities, 2018-2022.

Year	Coverage range (%)	MMR1		MMR2	
		MMR1	MMR2	MMR1	MMR2
2022	<80	14.0	29.9	14.7	33.7
2022	80-89	9.6	19.7	16.9	13.8
2022	90-94	5.7	13.4	15.8	13.6
2022	95-100	9.6	6.4	9.5	7.8
2022	>100	61.1	30.6	43.1	31.0
2021	<80	34.0	73.0	39.0	78.0
2021	80-89	18.0	12.0	12.0	12.0
2021	90-94	11.0	2.0	17.0	1.0

2021	95-100	6.0	3.0	10.0	4.0
2021	>100	30.0	11.0	23.0	5.0
2020	<80	38.0	75.0	42.0	90.0
2020	80-89	24.0	9.0	22.0	4.0
2020	90-94	9.0	3.0	15.0	1.0
2020	95-100	4.0	4.0	7.0	1.0
2020	>100	25.0	7.0	15.0	4.0
2019	<80	28.0	73.9	25.0	76.9
2019	80-89	16.6	9.6	16.1	12.7
2019	90-94	5.1	3.2	2.5	4.0
2019	95-100	8.3	3.2	14.5	1.9
2019	>100	42.0	10.2	41.9	4.6
2018	<80	29.9	84.1	25.2	92.9
2018	80-89	12.1	2.5	13.3	3.1
2018	90-94	8.3	1.3	9.8	0.2
2018	95-100	9.6	0.6	16.1	0.1
2018	>100	40.1	1.9	35.5	0.8

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).
