

# 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	256,196
Total population	11,585,021

Table 2: Last endemic cases by year and disease.

Measles	Rubella	CRS
2001	2006	NA

Table 3: Vaccination schedule.

Vaccine	1st Dose	2nd Dose	MMR2 Year Introduced
MR	9 mo	12 mo-13 mo	2016

## Epidemiology and Quality of Surveillance

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

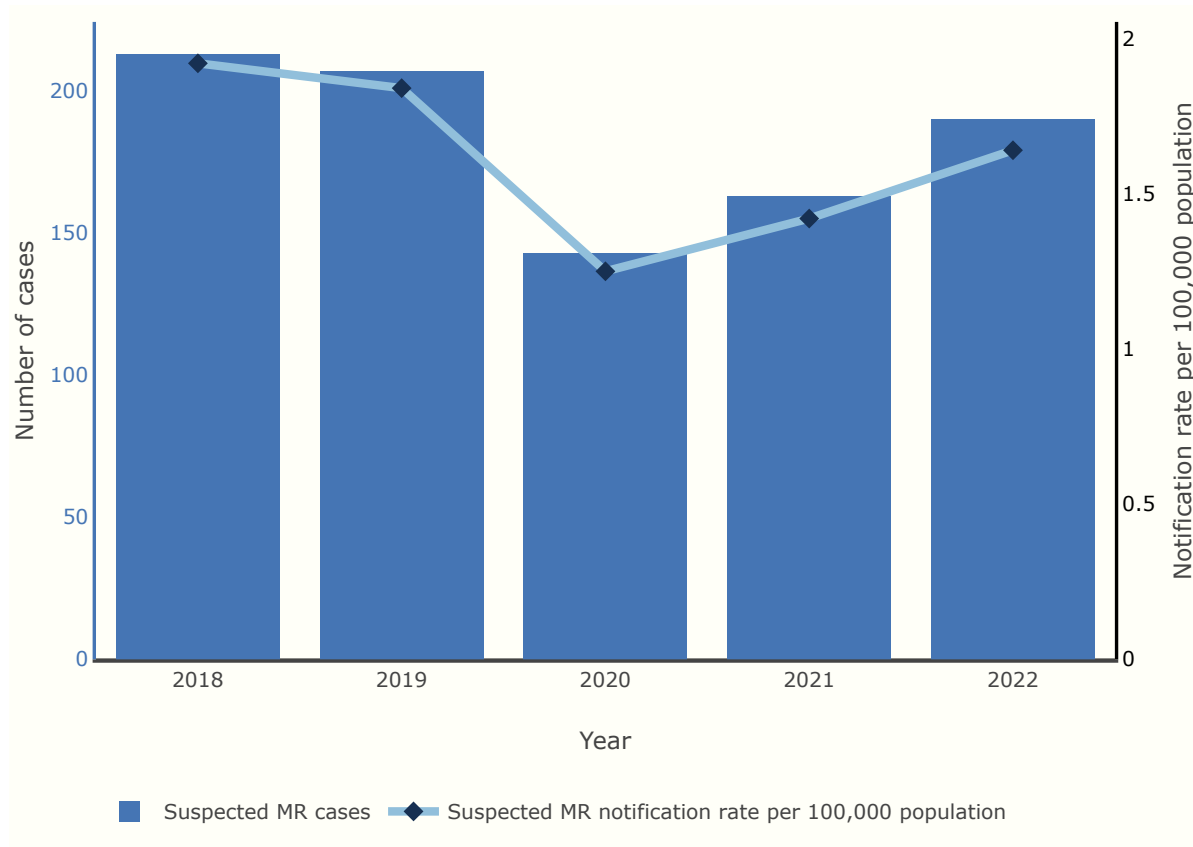


Table 4: Distribution of suspected MR cases and notification rate at the national level, 2018-2022.

	2018	2019	2020	2021	2022
Suspected MR cases	213	207	143	163	190
Suspected MR notification rate per 100,000 population	1.92	1.84	1.25	1.42	1.64

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

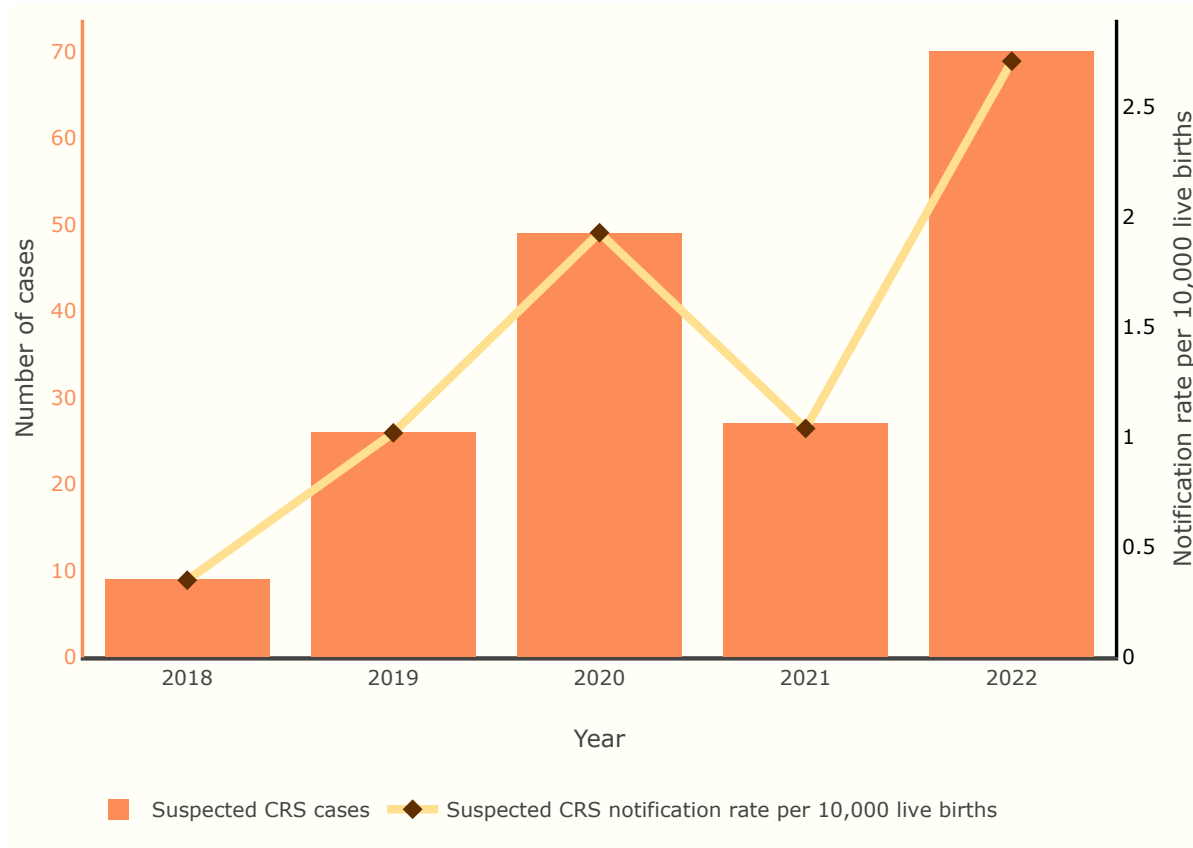


Table 5: Distribution of suspected CRS cases and notification rate at the national level, 2018-2022.

	2018	2019	2020	2021	2022
Suspected CRS cases	9	26	49	27	70
Suspected CRS notification rate per 10,000 live births	0.35	1.02	1.93	1.04	2.71

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

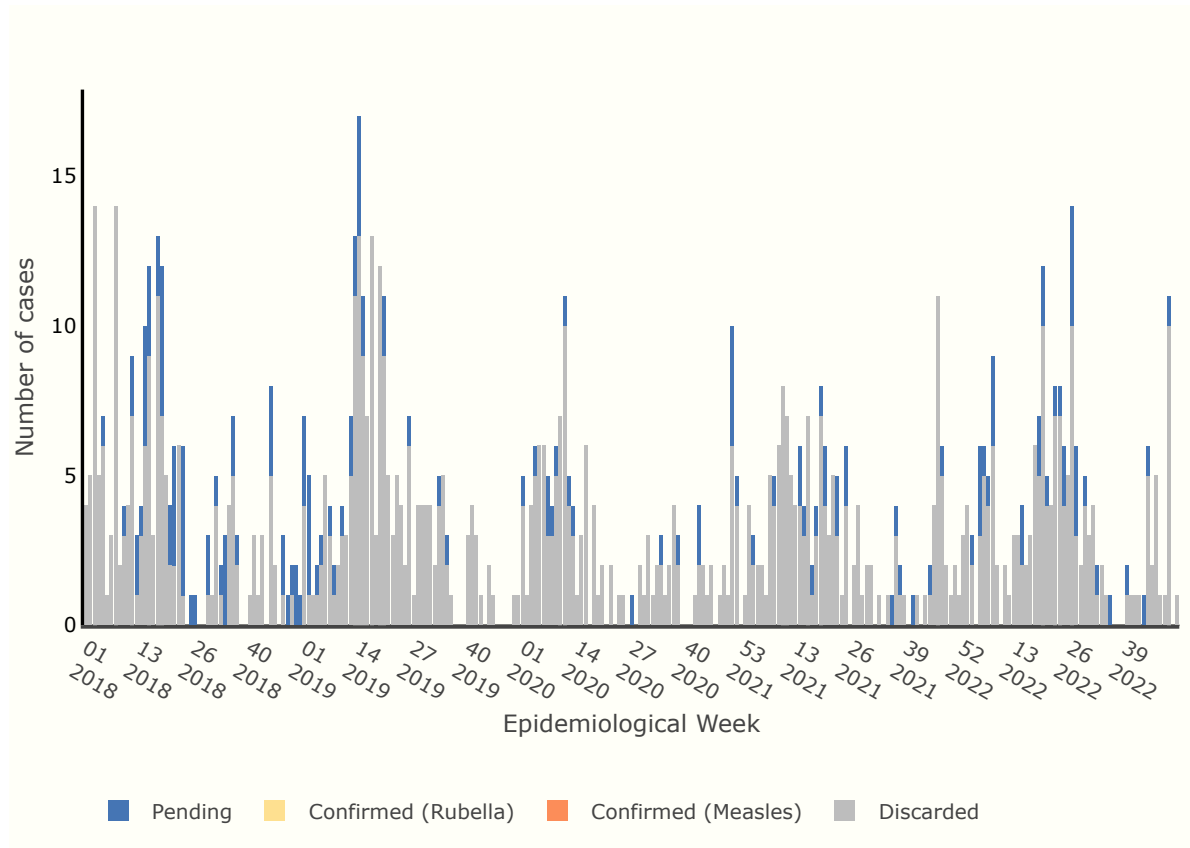


Figure 4: Number of measles and rubella cases by epidemiological year pending final classification, 2018-2022.

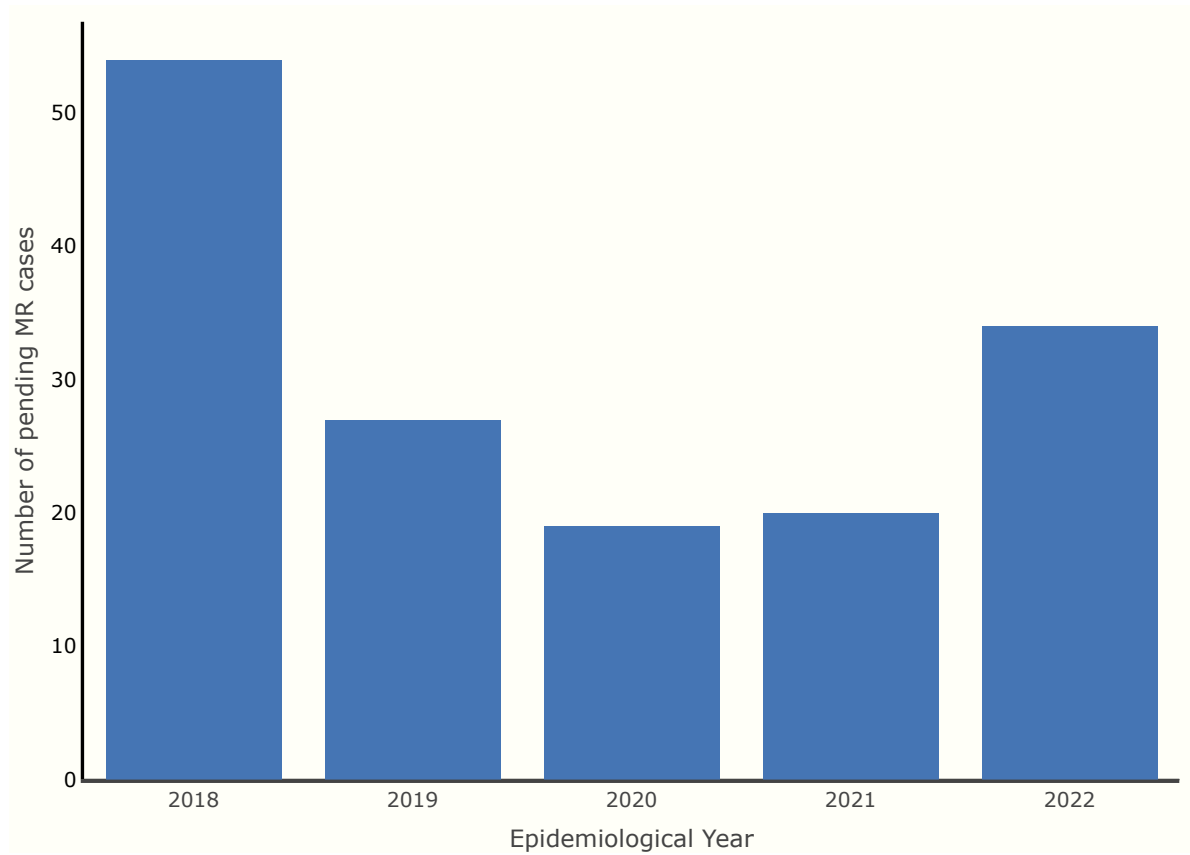


Table 6: Reported cases of measles and rubella by epidemiological year and final classification, 2018-2022.

Classification	2018	2019	2020	2021	2022
Confirmed (Measles)	0	0	0	0	0
Confirmed (Rubella)	0	0	0	0	0
Pending	54	27	19	20	34
Discarded	159	180	124	143	156
Total	213	207	143	163	190

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

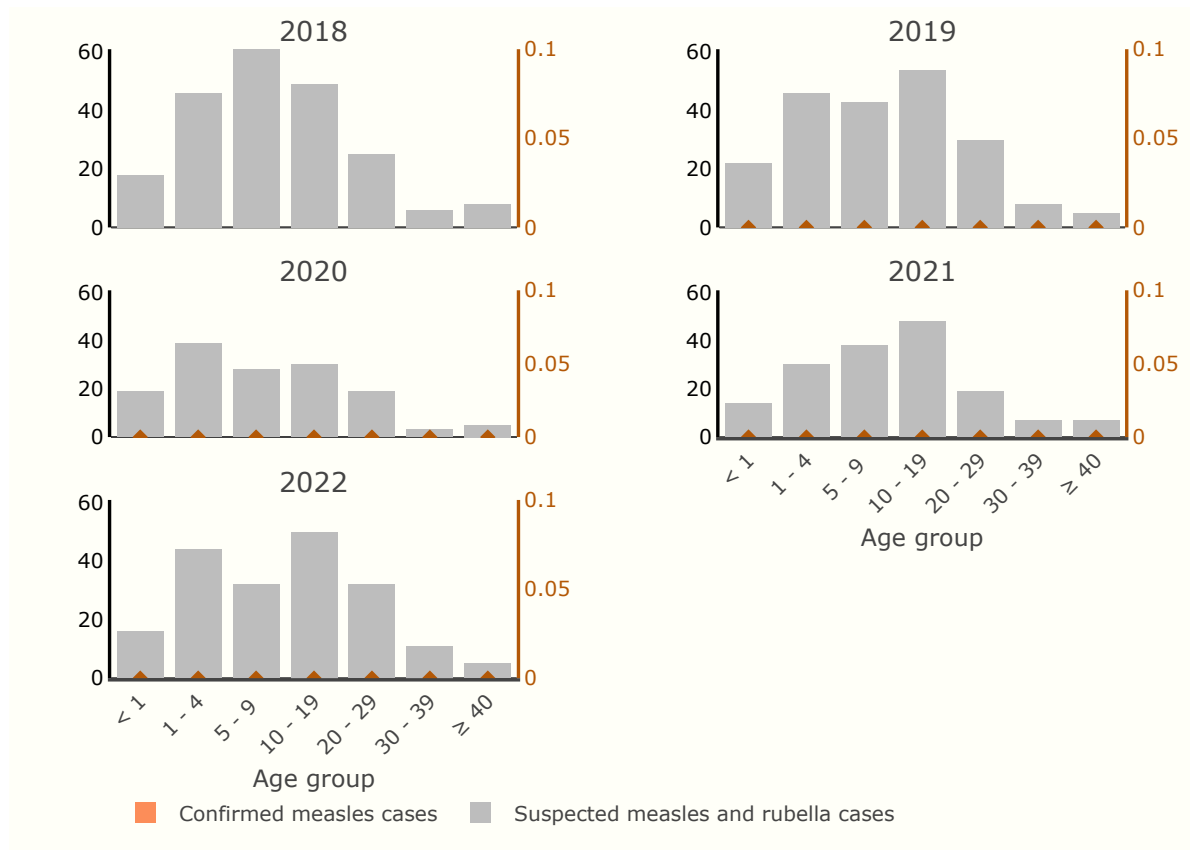


Figure 6: Performance indicators of measles and rubella surveillance by year, 2018-2022.

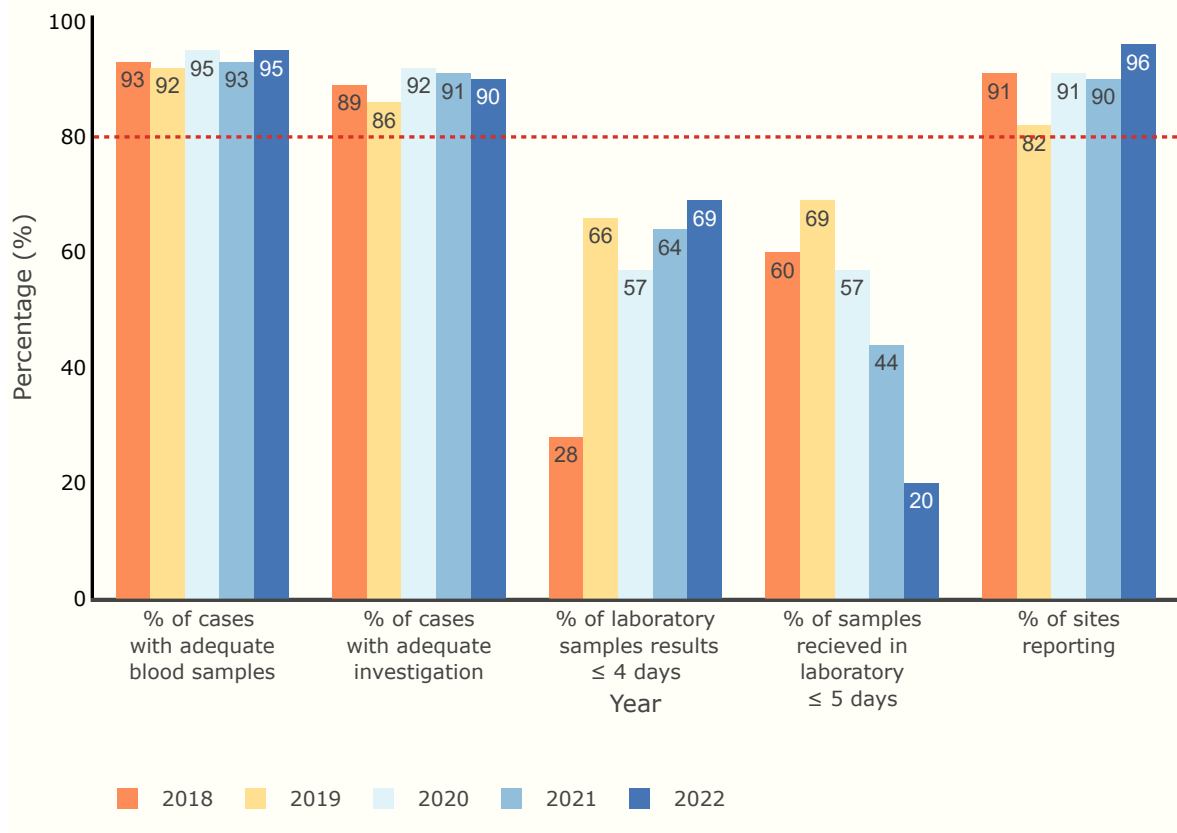




Figure 7: Proportion of the 11 variables reported for adequate investigation indicator, 2022.

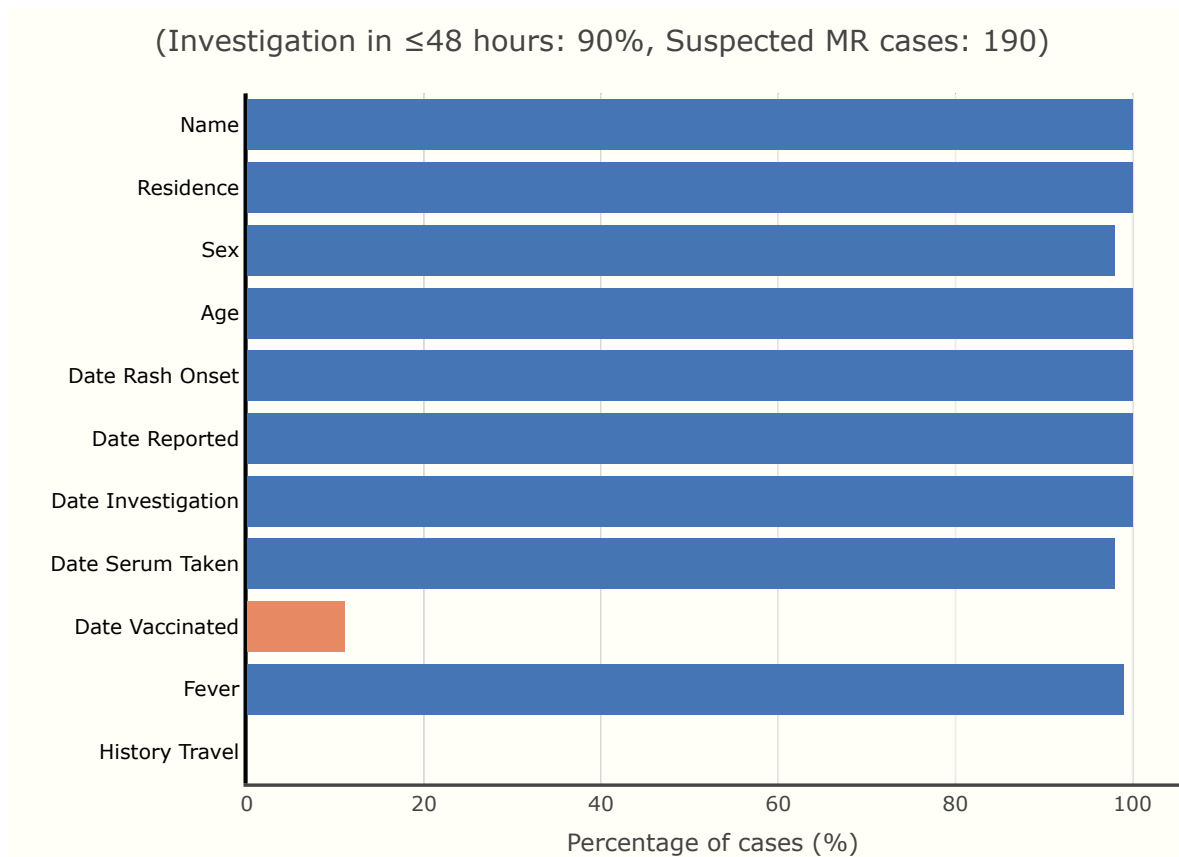


Table 7: Municipalities reporting measles and rubella suspected cases by year, 2018-2022.

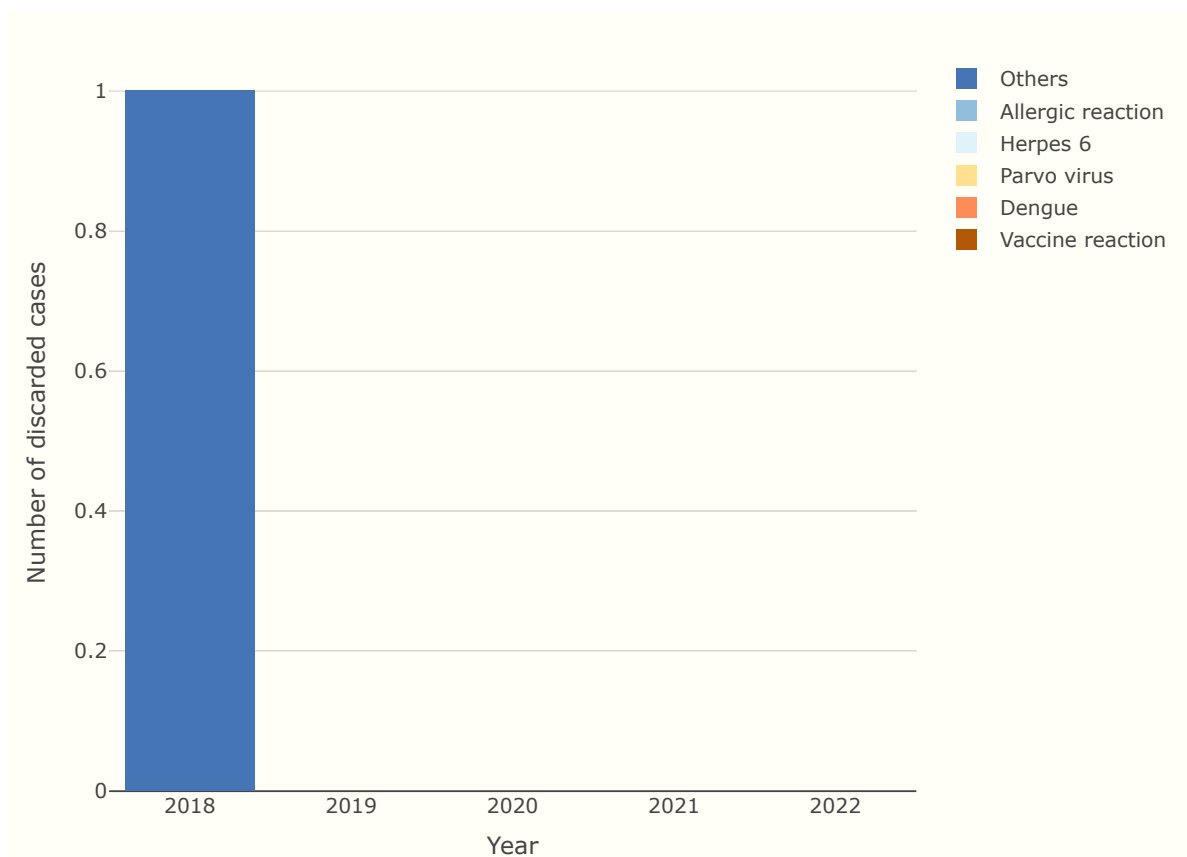
Year	No. of municipalities reporting suspected cases	Total municipalities in the country	% of municipalities reporting suspected cases
2018	NA	140	0
2019	NA	140	0
2020	39	140	28
2021	43	140	31
2022	49	140	35

## 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	213	159	158	0	1	0	0	0	0	0	1
2019	207	180	180	0	0	0	0	0	0	0	0
2020	143	124	124	0	0	0	0	0	0	0	0
2021	163	143	142	1	0	0	0	0	0	0	0
2022	190	156	156	0	0	0	0	0	0	0	0

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.

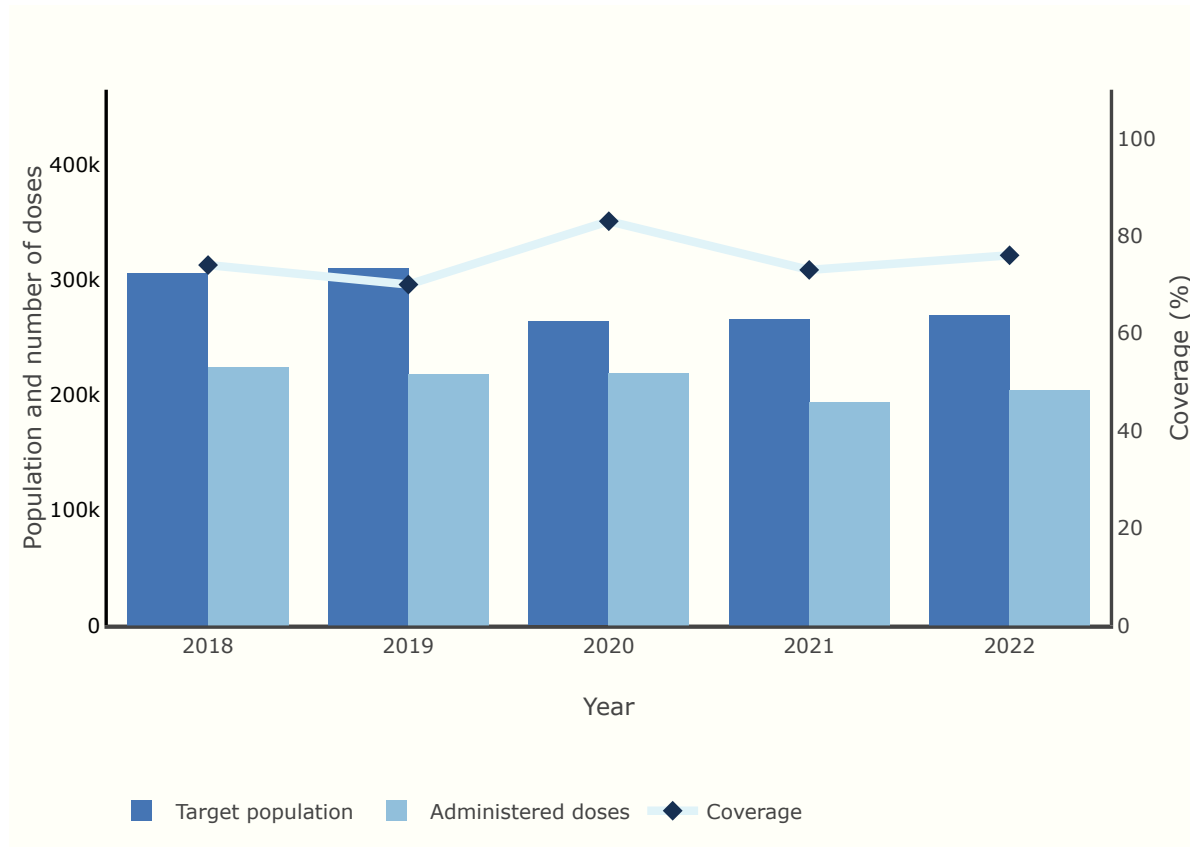


Figure 10: Coverage of the second dose of measles-mumps-rubella (MMR2) vaccine, number of doses administered, and number of children 1 year(s) of age, 2018-2022.

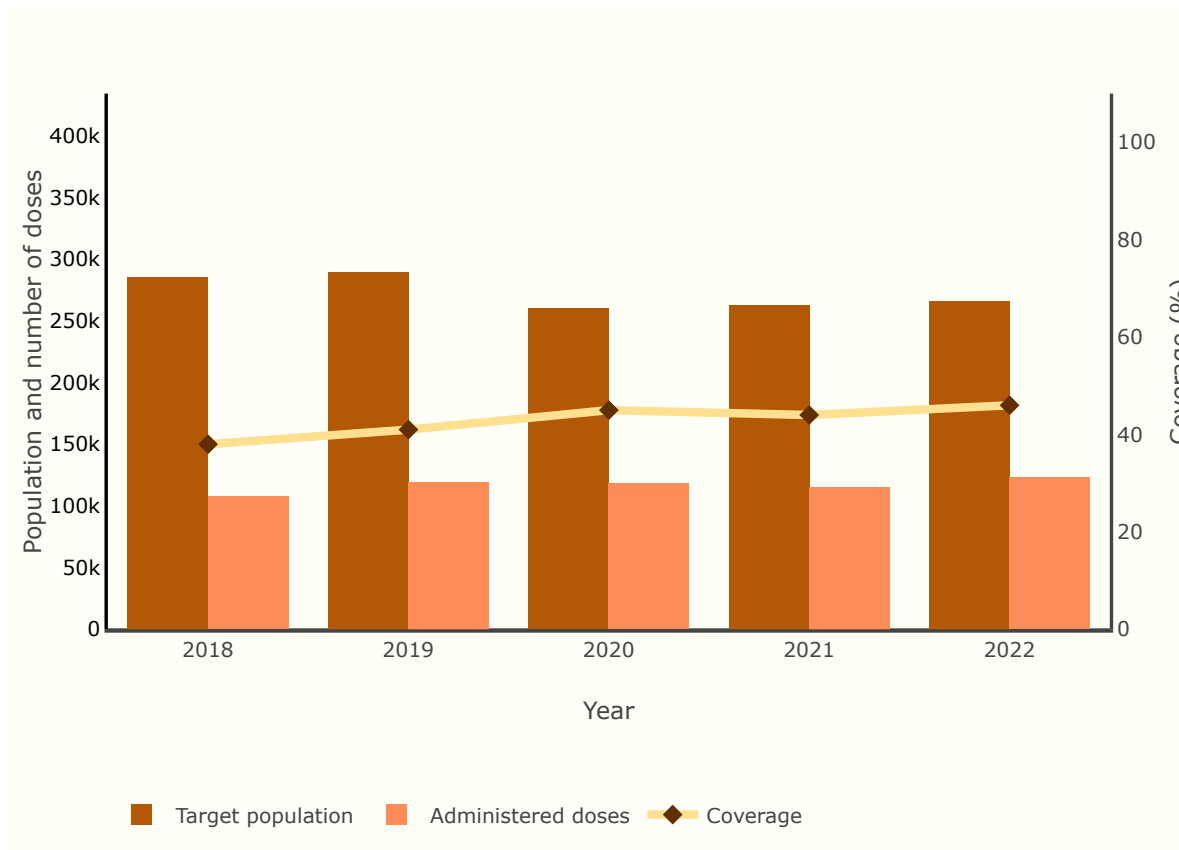


Table 9: Vaccination coverage with first and second dose of measles-mumps-rubella (MMR1 and MMR2) vaccines by target population and administered doses, 2018-2022.

Year	MMR1			MMR2		
	Administered doses	Target population	Coverage	Administered doses	Target population	Coverage
2018	224,892	305,829	74	107,770	285,288	38
2019	218,177	310,285	70	119,365	289,445	41
2020	219,677	264,084	83	118,140	259,894	45
2021	194,086	266,279	73	115,510	262,713	44
2022	204,429	269,554	76	122,908	265,944	46

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

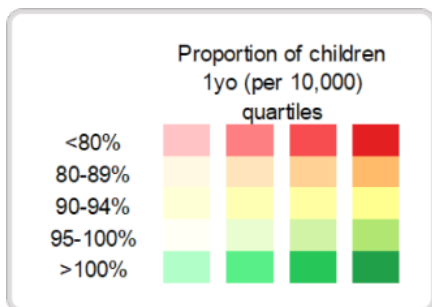
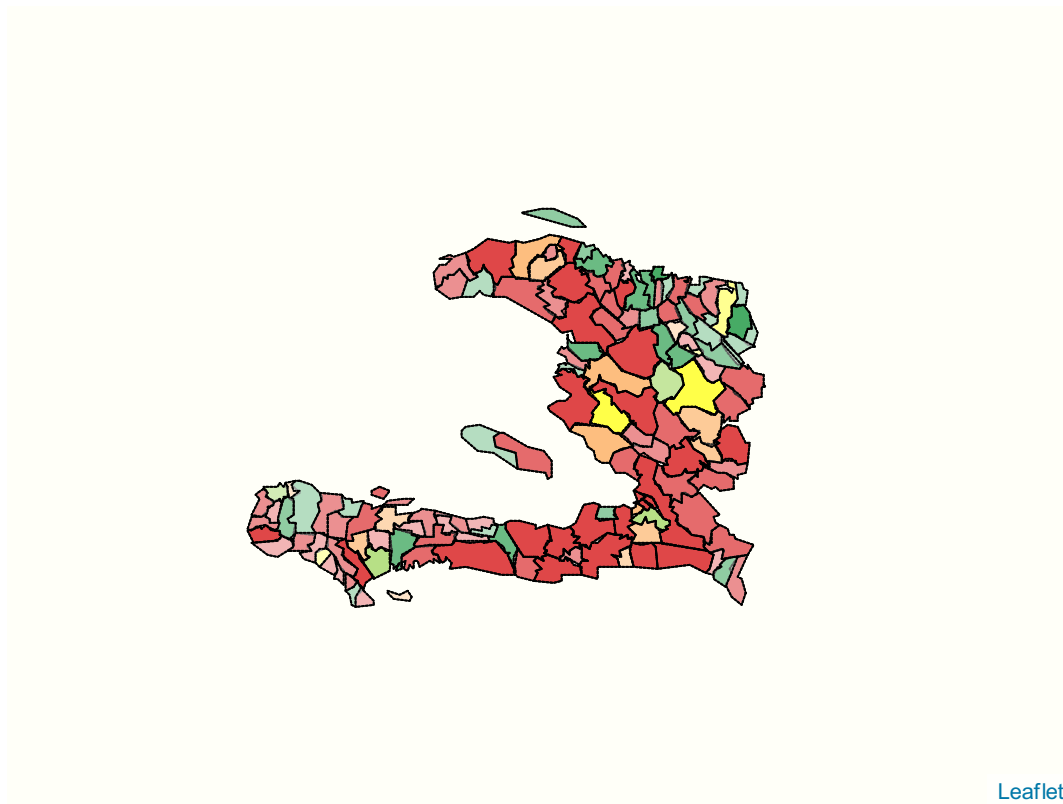


Figure 12: Proportion of municipalities by MMR1 vaccination coverage ranges, 2018-2022.

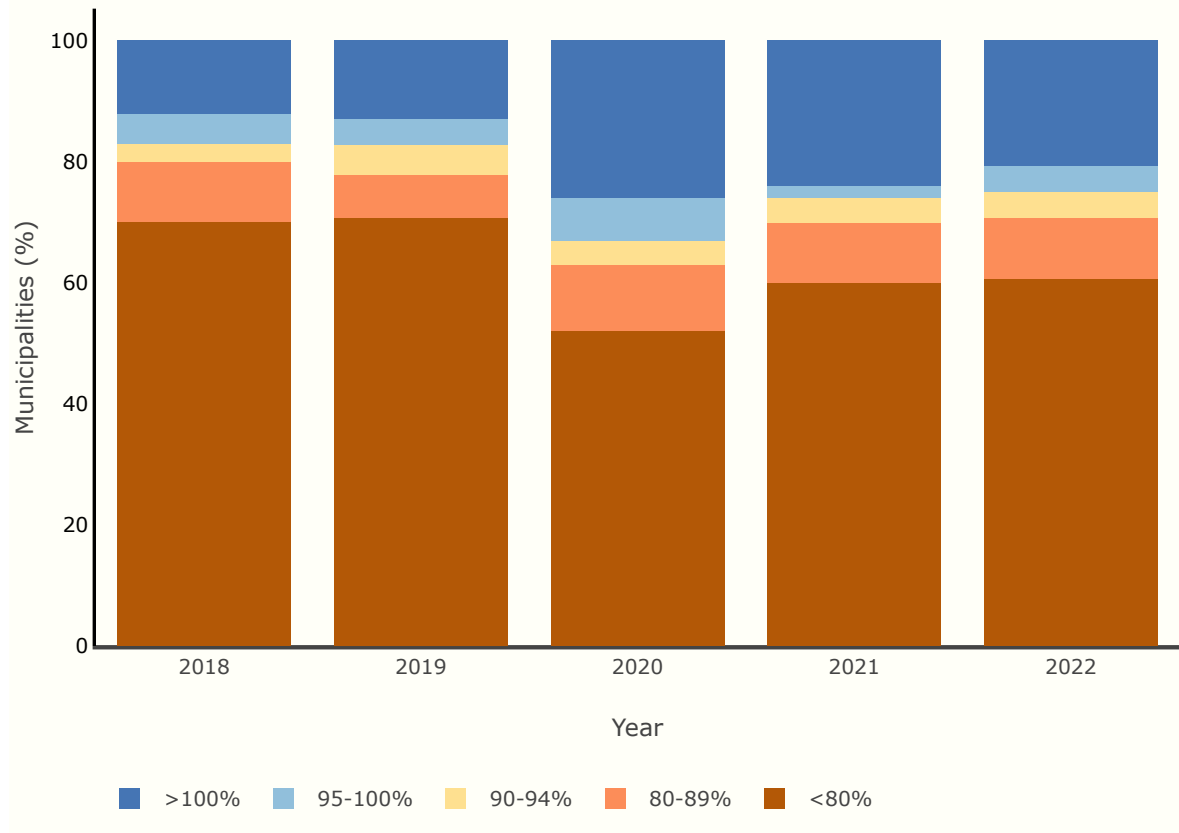


Figure 13: Proportion of children living in those municipalities for MMR1 vaccination coverage ranges, 2018-2022.

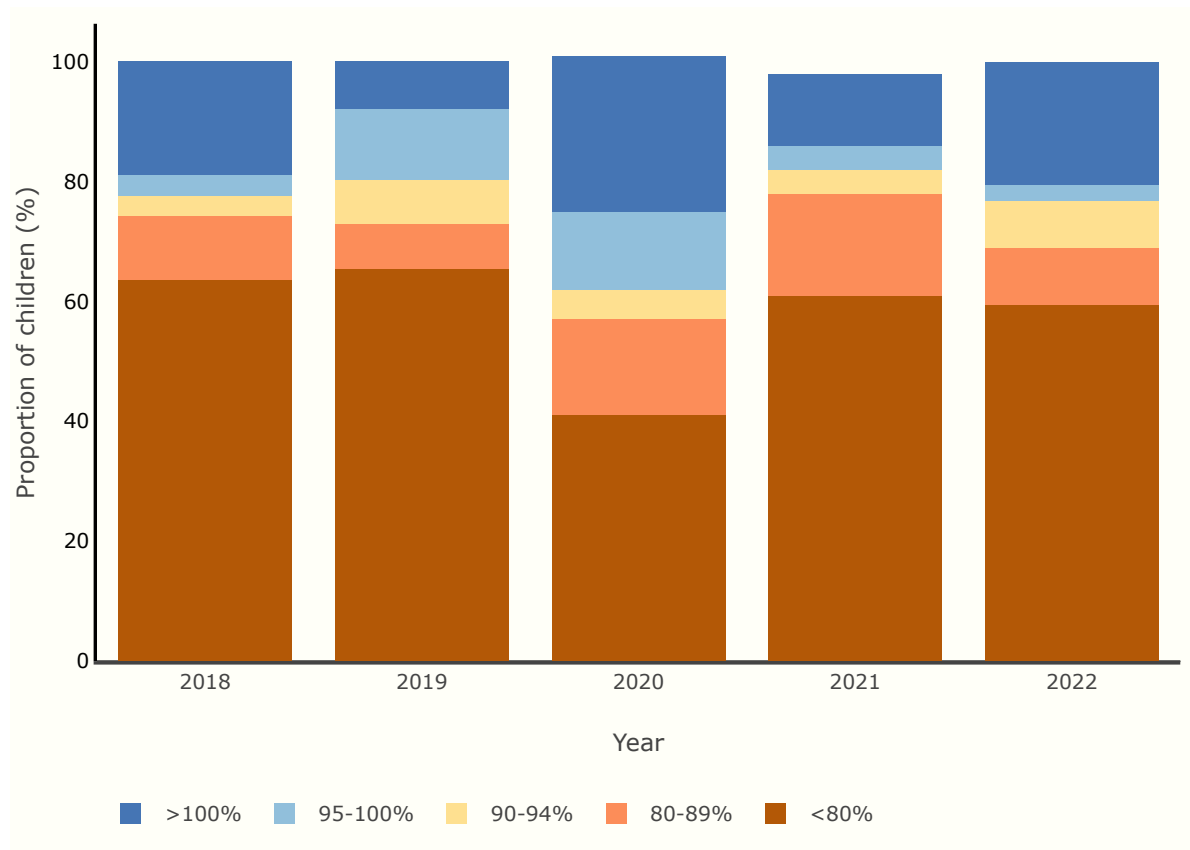


Figure 14: Proportion of municipalities by MMR2 vaccination coverage ranges, 2018-2022.

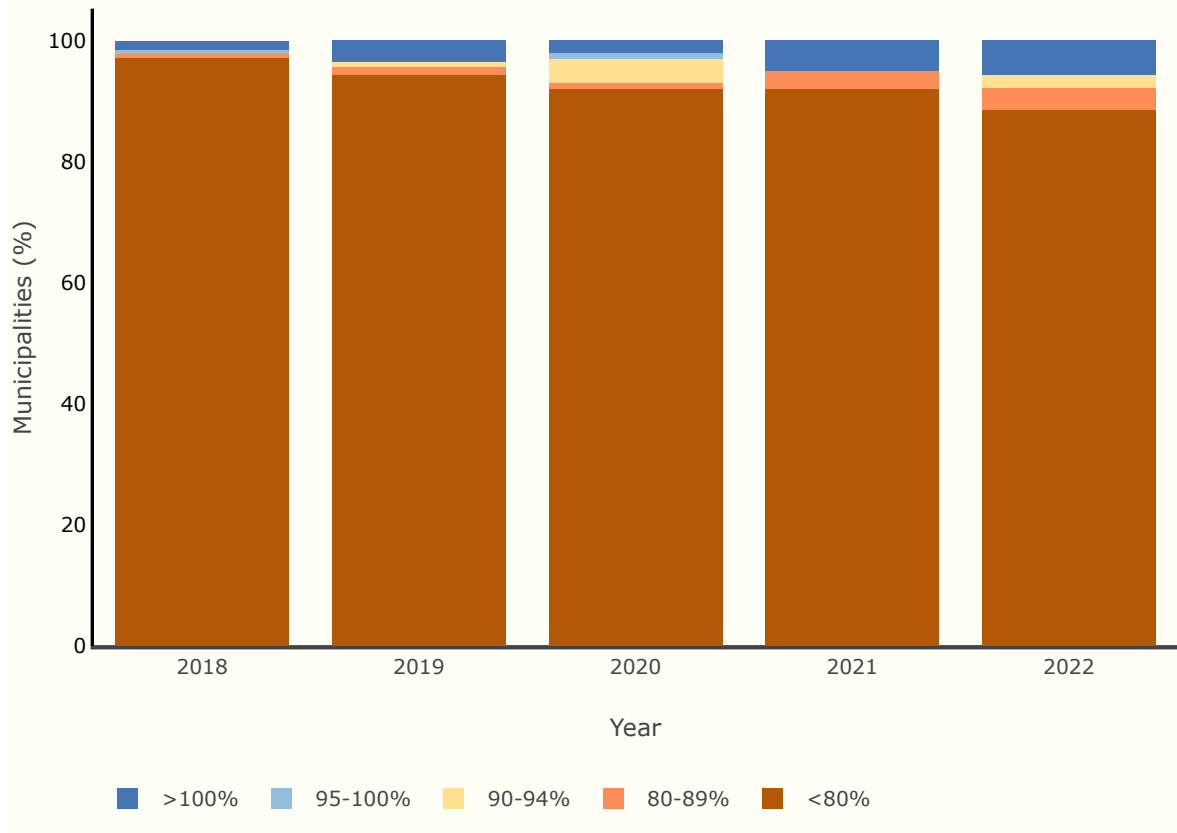




Figure 15: Proportion of children living in those municipalities for MMR2 vaccination coverage ranges, 2018-2022.

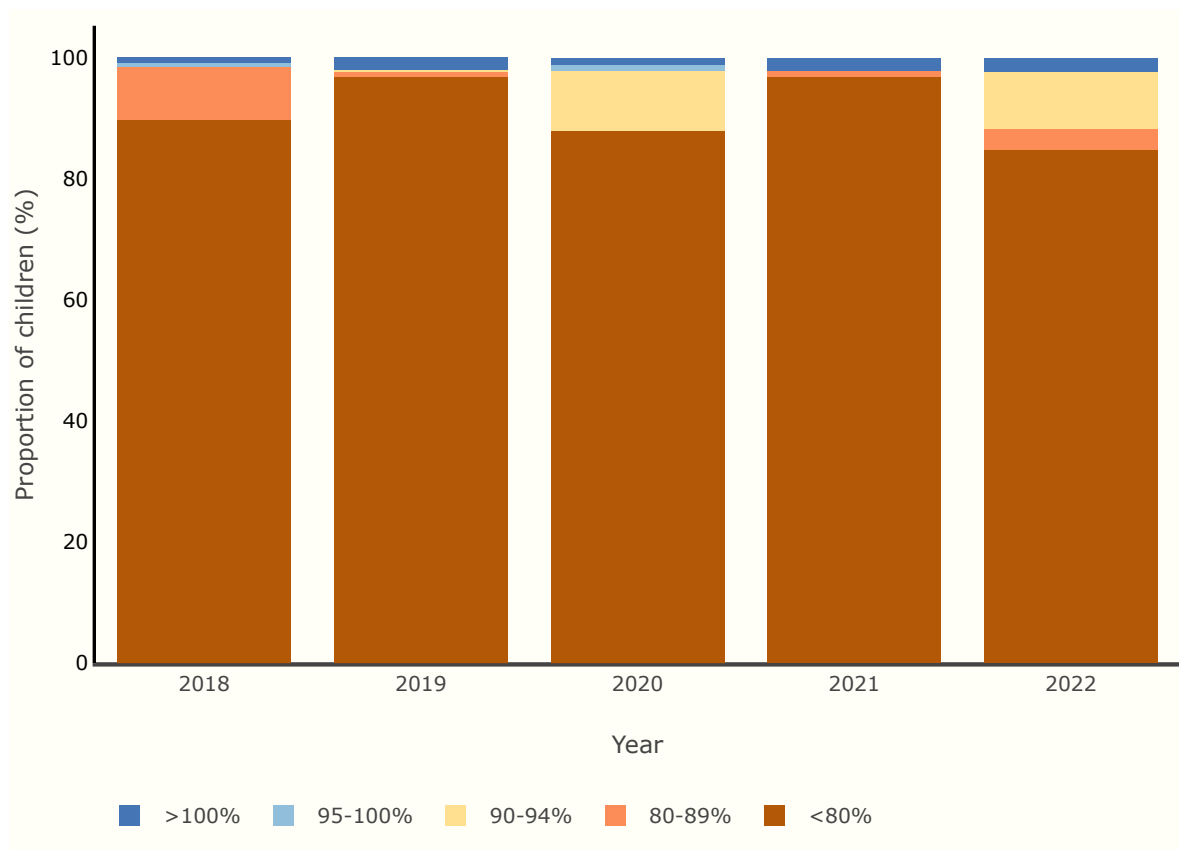


Table 10: Proportion of municipalities with MMR1 and MMR2 coverage ranges and proportion of children living in those municipalities, 2018-2022.

Year	Coverage range (%)	MMR1		MMR2	
		MMR1	MMR2	MMR1	MMR2
2022	<80	60.7	88.6	59.5	84.8
2022	80-89	10.0	3.6	9.4	3.6
2022	90-94	4.3	2.1	7.9	9.3
2022	95-100	4.3	0.0	2.7	0.0
2022	>100	20.7	5.7	20.4	2.3
2021	<80	60.0	92.0	61.0	97.0
2021	80-89	10.0	3.0	17.0	1.0
2021	90-94	4.0	0.0	4.0	0.0

2021	95-100	2.0	0.0	4.0	0.0
2021	>100	24.0	5.0	12.0	2.0
2020	<80	52.0	92.0	41.0	88.0
2020	80-89	11.0	1.0	16.0	0.0
2020	90-94	4.0	4.0	5.0	10.0
2020	95-100	7.0	1.0	13.0	1.0
2020	>100	26.0	2.0	26.0	1.0
2019	<80	70.7	94.3	65.5	96.9
2019	80-89	7.1	1.4	7.5	0.9
2019	90-94	5.0	0.7	7.3	0.3
2019	95-100	4.3	0.0	11.8	0.0
2019	>100	12.9	3.6	7.9	2.0
2018	<80	70.0	97.1	63.7	89.8
2018	80-89	10.0	0.7	10.6	8.8
2018	90-94	2.9	0.0	3.3	0.0
2018	95-100	5.0	0.7	3.5	0.6
2018	>100	12.1	1.4	19.0	0.9

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## References

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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).

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