



Figure 1. Notification of measles, rubella (MR) suspected cases and COVID-19 cases by epidemiological weeks. South America, 2020*

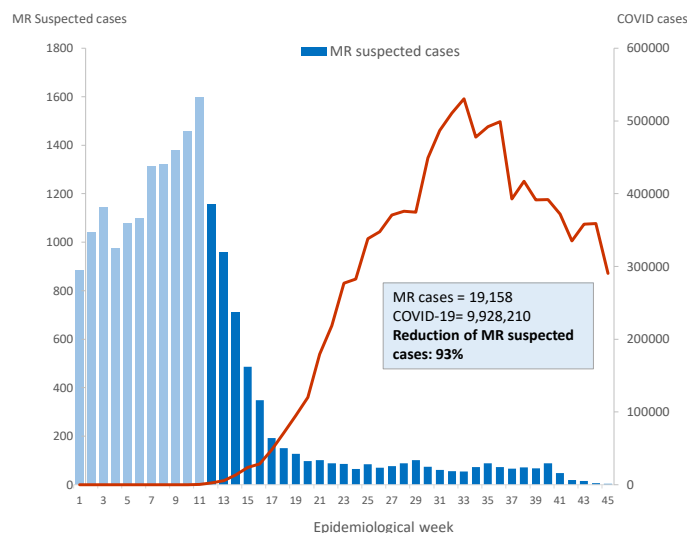


Figure 2. Distribution of the notification rate of suspected measles and rubella cases per 100,000 population by countries. South America, 2016-2020*

Country	2016	2017	2018	2019	2020*
Argentina	0.7	0.8	4.6	9.0	0.7
Bolivia	1.1	0.6	2.2	1.5	0.5
Brazil	1.1	0.9	5.4	32.1	8.0
Chile	1.2	1.0	3.2	4.2	0.2
Colombia	3.2	2.6	14.5	8.8	1.3
Ecuador	1.8	2.2	6.1	3.5	0.8
Paraguay	5.8	8.0	13.1	22.3	7.6
Peru	1.3	1.0	3.6	1.7	0.2
Uruguay	-	0.1	0.4	2.1	0.3
Venezuela	2.5	5.4	24.7	7.2	2.0

Legend: ■ ≥2.00 x 100,000 habitantes ■ 1.00-1.99 x 100,000 habitantes ■ <0.99 x 100,000 habitantes

*Data as of epidemiological week 45, 2020. Source: Surveillance country reports sent to PAHO.

Beginning of epidemiological week 12 of 2020, a significant reduction in the notification of suspected measles and rubella (MR) cases in South America is observed, which coincides with an increase of COVID-19 confirmed cases (Figure 1). When analyzing the annual rate of suspected MR cases for the period 2016-2020 by country (Figure 2), a heterogeneity is observed in the fulfillment of this rate for the years 2016 and 2017; while there is almost full fulfillment in almost all countries during 2018 and 2019. As of epidemiological week 45 of 2020, the rate drops in all countries, except in Brazil, a country that still has ongoing measles circulation. The main cause in the reduction of notification of MR cases is due to COVID-19 pandemic and the implementation of confinement measures.

Table.1
Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for Weeks 01-47, 2020

Subregion and Country	Susp. Cases 2020	Measles Confirmed 2020				Year/Week Last Conf. Measles case	Rubella Confirmed 2020			Year/Week Last Conf. Rubella Case	Diagnosis of Discarded Cases 2020		Congenital Rubella Syndrome			Year/Week Last Conf. CRS Case	
		Clin.	Lab.	EPI link	Total		Clin.	Lab.	Total		Dengue	Others	Susp.	Conf.	CR1*		
AND																	
BOL	74	0	2	...	2	2020-16	0	0	0	2006-03	17	53	0	0	0	...	
COL	653	0	1	...	1	2020-09	0	0	0	2012-31	0	494	331	0	0	2005-34	
ECU	136	0	0	...	0	2020-06	...	...	...	2004-49	1	110	0	0	0	2011-14
PER	70	0	0	...	0	2019-18	0	0	0	2009-04	0	64	0	0	0	2007-16	
VEN	559	0	0	...	0	2019-33	0	0	0	2007-51	32	373	0	0	0	...	
BRA	17036	2830	5524	...	8354	2020-43	0	0	0	2014-40	0	8188	33	0	0	2009-34	
CAP																	
CRI	81	0	0	...	0	2019-13	0	0	0	2001-39	5	48	81	0	0	...	
GTM	51	0	0	...	0	2018-03	0	0	0	2006-31	1	49	1	0	0	2005-00	
HND	103	0	0	...	0	1998-16	0	0	0	2004-11	0	102	7	0	0	2001-00	
NIC	110	0	0	...	0	1994-14	0	0	0	2004-19	10	93	21	0	0	2005-00	
PAN	28	0	0	...	0	2011-20	0	0	0	2002-48	0	27	0	0	0	...	
SLV	159	0	0	...	0	2001-19	0	0	0	2006-30	0	159	181	0	0	2001-00	
CAR	53	0	0	...	0	2019-48	0	0	0	2008-18	0	50	12	0	0	1999-00	
LAC	1408	0	0	...	0	2019-24	0	0	0	2004-06	0	1408	0	0	0	1989-10	
DOM	15	0	0	...	0	2011-18	0	0	0	2007-45	4	8	0	0	0	...	
HTI	118	0	0	...	0	2001-39	0	0	0	2006-21	0	97	40	0	0	...	
MEX	2416	...	184	10	194	2020-23	0	0	0	2018-14	0	2073	0	0	0	...	
NOA	...	...	1	...	1	2020-06	0	0	0	2019-50	...	...	...	...	...	2018-39
USA	...	...	12	...	12	2020-10	...	...	...	2019-03	...	...	...	...	...	2017-00
SOC																	
ARG	326	0	60	1	61	2020-12	0	0	0	2019-47	3	261	0	0	0	2009-27	
CHL	43	0	2	...	2	2020-03	0	0	0	2019-14	0	37	0	0	0	...	
PRY	543	0	0	...	0	1998-44	0	0	0	2005-21	2	484	6	0	0	2003-06	
URY	9	0	0	2	2	2020-07	0	0	0	2001-37	0	6	0	0	0	...	
TOTAL	23991	2830	5786	13	8629	--	0	0	0	--	75	14184	713	0	0	--	

*Congenital Rubella Infection.

...No updated report received



Table No.2
Infection Source of Measles and Rubella Confirmed Cases
for the Period of Weeks 01-47, 2020

Subregion and Country		Measles				Rubella		
		I	IR	En.	U	I	IR	U
AND	BOL				2			
	COL	1						
	ECU							
	PER							
	VEN							
BRA	BRA			8354				
	CAP							
	CRI							
	GTM							
	HND							
	NIC							
	PAN							
	SLV							
	CAR							
	LAC							
MEX	CAR							
	CUB							
	DOM							
	HTI							
NOA	MEX*							
	CAN	1						
	USA	12						
SOC	ARG	7			54			
	CHL	2						
	PRY							
	URY		2					
TOTAL		23	2	8354	56	0	0	0

Table No.3
Measles/Rubella Suspect Cases Under Investigation
for the Period of Weeks 01-47, 2020

Country	Pending Cases 2019	Cumulative 2020	Week of Onset						% Pend. Cases
			1-42	43	44	45	46	47	
BOL	1	2	0	0	0	1	1	0	3
COL	0	158	149	9	0	0	0	0	24
ECU	7	25	25	0	0	0	...	...	18
PER	13	6	1	0	2	3	0	0	9
VEN	19	152	150	2	...	...	...	...	27
BRA	2597	495	433	21	22	8	11	0	3
CAP	0	28	28	0	0	0	0	0	35
CRI	0	1	1	0	0	0	0	...	2
GTM	0	1	1	0	0	0	0	0	1
HND	0	1	1	0	0	0	0	0	1
NIC	0	7	4	0	0	1	2	0	6
PAN	1	1	1	0	...	...	...	...	4
SLV	0	0	0	0	0	0	0	0	0
CAR	6	3	3	0	0	0	0	0	6
LAC	0	0	0	0	0	0	0	0	0
CUB	0	0	0	0	0	0	0	0	0
DOM	20	3	3	...	...	...	...	...	20
HTI	29	21	19	2	0	0	0	0	18
MEX	247	147	95	7	8	19	9	9	6
CAN	...	...	...	...	...	...	...	...	...
USA	...	...	...	...	...	...	...	...	...
ARG	6	1	1	0	0	0	0	0	0
CHL	9	4	4	0	0	0	0	0	9
PRY	49	57	52	0	0	1	1	3	10
URY	3	1	1	...	...	...	...	...	11
TOTAL	3007	1113	971	41	32	33	24	12	5

I: Imported; IR: Import-related; En: Endemic case; U: Unknown.
*Pending final classification

... No updated report received

Table 4
Indicators of Integrated Measles/Rubella Surveillance for Period of Weeks 01-47, 2020

Subregion and Country		Sites Reporting Weekly		% Cases with Adequate Investigation	% Cases with Adequate Sample	% Blood Samples Received in Lab. ≤5 days	% Lab. Results ≤4 days	Rate of Suspected Cases Last 52 weeks (2019/48-2020/47)	
		Total Units	% This Week					Measles/Rubella (100,000 pop.)	CRS (10,000 lb)
AND	BOL	3984	...	88	93	72	88	0.8	0.0
	COL	4612	...	50	...	...	...	1.3	9.6
	ECU	2184	...	99	71	33	61	1.0	0.0
	PER	7781	...	91	86	60	52	0.3	0.0
	VEN	13092	...	100	94	14	11	0.5	0.3
CAP	BRA	...	72	...	...	74	34	10.0	0.1
	CRI	57	144	95	65	94	96	1.6	20.3
	GTM	1541	...	98	100	61	86	0.3	0.0
	HND	469	90	97	100	83	100	1.5	1.7
	NIC	185	196	95	97	94	97	1.9	4.3
	PAN	324	...	100	96	71	89	0.7	0.0
	SLV	1288	...	87	100	97	94	2.8	0.0
CAR	CAR	763	68	58	96	21	74	1.0	1.0
	LAC	168	...	100	100	100	100	12.4	0.0
MEX	DOM	247	...	53	93	80	53	0.2	0.0
	HTI	659	91	91	95	58	60	1.1	2.6
	MEX	20133	94	95	99	94	89	1.9	0.0
	NOA	...	...	...	...	...	...	...	...
SOC	CAN	...	...	...	...	...	...	...	...
	USA	...	...	...	...	...	...	...	...
	ARG	784	...	7	92	67	52	1.1	0.0
	CHL	788	38	9	84	92	94	0.4	7.4
URY	PRY	1293	98	75	92	85	94	9.7	0.9
	URY	155	...	67	33	38	38	0.3	0.0
Total and Average*		60507	37	85	96	76	47	4.4	1.1

*Weighted

... No updated report received