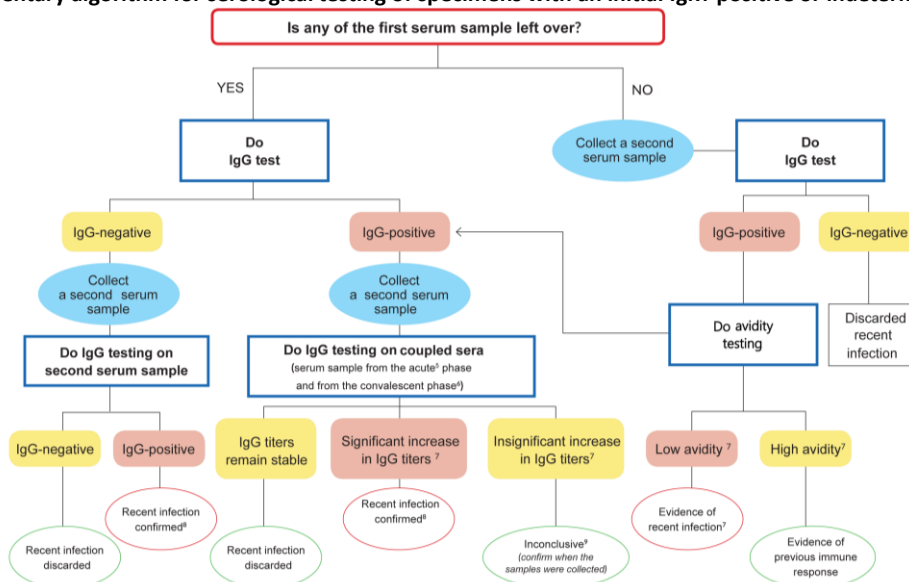




Complementary algorithm for serological testing of specimens with an initial IgM-positive or indeterminate result



5 Collect an adequate serum sample within 7 days of rash onset.
 6 Collect an adequate serum sample in the convalescent phase, 14-21 days after the sample from the acute phase.
 7 Follow the criteria for test interpretation.
 8 Evidence indicates a recent infection (either wild type or a vaccine strain).
 9 Correlate with IgG avidity results.

Source: Pan American Health Organization. Guidance for testing of measles and rubella in the Laboratory Network of the Region of the Americas. Washington, D.C.: PAHO; 2018. In press.

Table 1
Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for Week 14, 2019

Subregion and Country	Susp. Cases 2019	Measles Confirmed 2019				Year/Week Last Conf. Measles case	Rubella Confirmed 2019			Year/Week Last Conf. Rubella Case	Diagnosis of Discarded Cases 2019		Congenital Rubella Syndrome			Year/Week Last Conf. CRS Case	
		Clin.	Lab.	EPI link	Total		Clin.	Lab.	Total		Dengue	Others	Susp.	Conf.	CRI*		
AND	BOL	14	0	0	...	0	0	0	2006-03	0	2	0	0	0	0	...	
	COL	847	0	79	...	79	0	0	2012-31	1	688	78	0	0	0	2005-34	
	ECU	...	...	...	...	...	...	...	2018-33	...	...	...	...	...	...	2011-14
	PER	101	0	0	...	0	0	0	2018-41	0	94	0	0	0	0	2007-16	
	VEN	2	0	40	...	40 ^a	0	0	0	2019-07	0	2	0	0	0	...	
BRA	BRA	...	...	48	...	48 ^{a,b}	...	...	...	2014-40	...	...	...	...	...	2009-34
	CRI	26	0	7	...	7	0	0	0	2001-39	0	14	37	0	0	...	
CAP	GTM	108	0	0	...	0	0	0	2018-03	0	99	2	0	0	0	2005-00	
	HND	82	0	0	...	0	0	0	1998-16	0	69	3	0	0	0	2001-00	
	NIC	163	0	0	...	0	0	0	1994-14	0	107	11	0	0	0	2005-00	
	PAN	10	0	0	...	0	0	0	2011-20	0	8	0	0	0	0	...	
	SLV	57	0	0	...	0	0	0	2001-19	0	57	0	0	0	0	2001-00	
	CAR	80	0	1	1	2	2019-08	0	0	0	2008-18	0	71	2	0	0	1999-00
	LAC	CUB	713	0	0	...	0	0	0	1993-27	0	6	0	0	0	0	1989-10
MEX	DOM	30	0	0	...	0	0	0	2011-18	0	21	0	0	0	0	...	
	HTI	46	0	0	...	0	0	0	2001-39	0	11	10	0	0	0	...	
	MEX	869	0	1	...	1	0	0	2019-07	0	688	0	0	0	0	...	
NOA	CAN	...	...	35	4	39	...	...	...	2016-06	...	...	...	...	...	2018-39
	USA	...	...	42	345	387 ^c	...	...	...	2019-12	...	...	...	...	...	2017-00
SOC	ARG	15	0	3	...	3	0	0	0	2014-22	0	12	0	0	0	2009-27	
	CHL	398	0	3	...	3	0	0	0	2019-06	0	351	34	0	0	...	
	PRY	442	0	0	...	0	0	0	0	1998-44	0	261	2	0	0	2003-06	
	URY	...	...	...	...	...	...	...	...	1999-08	...	...	...	...	...	...
TOTAL	4003	0	259	350	608	--	0	0	0	--	16	2561	179	0	0	--	

*Congenital Rubella Infection.

...No updated report receive

(a) PAHO/WHO. Epidemiological Update: Measles. 4 March 2019, Washington, D.C.: PAHO/WHO; 2019;

(b) Ministry of Health Brazil. Report No.37,19 March 2019. Some of the confirmed measles cases in Brazil were among crewmembers of a cruise ship; (c) Provisional data.



Table No.2
Infection Source of Measles and Rubella Confirmed Cases for the Period of Weeks 01-14, 2019

Subregion and Country		Measles				Rubella			
		I	IR	En.	U	I	IR	CAC	U
AND	BOL	68		40	11				
	COL								
	ECU								
	PER								
BRA	VEN ^a	48	6						
	BRA ^{a,b}								
CAP	CRI	1							
	GTM								
	HND								
	NIC								
CAR	PAN	2							
	SLV								
	CAR								
	CUB								
LAC	DOM	1	13	6					
	HTI								
	MEX								
NOA	CAN	20	345	8					
	USA								
SOC	ARG	3	1	2					
	CHL								
	PRY								
	URY								
TOTAL		177	365	40	27	0	0	0	0

Table No.3
Measles/Rubella Suspect Cases Under Investigation for the Period of Weeks 01-14, 2019

Country	Pending Cases 2018	Cumulative 2019	Week of Onset							% Pend. Cases
			1-9	10	11	12	13	14		
BOL	2	12	11	1	0	0	...	...	86
COL	172	79	70	1	3	2	2	1	9	
ECU	84	...	...	...	...	...	...	...	...
PER	0	7	7	0	0	0	0	0	7	
VEN	34	0	0	0	0	0	...	...	0
BRA	0	...	...	...	...	...	...	...	...
CRI	23	5	3	0	0	2	0	0	19	
GTM	12	9	2	0	1	1	2	3	8	
HND	0	13	9	2	2	0	0	0	16	
NIC	0	53	3	2	6	6	23	13	33	
PAN	0	2	2	...	...	...	...	...	20
SLV	0	0	0	0	0	0	...	...	0
CAR	1	7	0	1	1	0	1	4	9	
CUB	0	641	491	48	52	50	0	0	90	
DOM	18	8	8	0	0	0	0	0	27	
HTI	56	35	24	3	1	1	6	0	76	
MEX	0	180	59	19	27	32	25	18	21	
CAN	...	...	...	...	...	...	...	...	...
USA	...	...	...	...	...	...	...	...	...
ARG	360	0	0	0	0	0	0	0	0	
CHL	3	44	24	1	2	0	6	11	11	
PRY	25	170	68	16	31	21	18	16	38	
URY	1	...	...	...	...	...	...	...	...
TOTAL	791	1265	781	94	126	115	83	66	32	

I: Imported; IR: Import-related; En: Endemic case; U: Unknown.

(a) PAHO/WHO. Epidemiological Update: Measles. 4 March 2019, Washington, D.C.: PAHO/WHO; 2019;

(b) Confirmed measles cases in Brazil were among crewmembers of a cruise ship.

... No updated report received

Table 4
Indicators of Integrated Measles/Rubella Surveillance for Period of Weeks 01-14, 2019

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 (2018/15-2019/14)	
		Total Units	% This Week					Measles/Rubella (100,000 pop.)	CRS (10,000 lb)
AND	BOL	2657	...	14	43	83	83	1.5	0.0
	COL	5161	97	89	96	93	97	11.5	6.1
	ECU	2184	...	...	...	...	...	2.0	0.0
	PER	7781	...	88	98	82	21	3.0	0.0
CAP	VEN	13092	...	100	100	50	50	7.4	0.0
	BRA	...	...	...	...	...	...	4.9	0.1
	CRI	57	...	73	96	84	76	1.4	5.5
	GTM	1541	98	73	96	58	80	2.1	0.1
CAR	HND	470	91	82	99	83	99	2.3	1.4
	NIC	185	100	97	97	98	88	5.5	4.9
	PAN	324	0	90	100	60	100	1.3	0.0
	SLV	...	...	70	96	98	98	6.7	0.0
LAC	CAR	763	93	79	98	6	86	4.2	10.2
	CUB	168	...	100	100	100	100	27.4	0.0
	DOM	247	...	10	100	97	73	1.0	0.0
MEX	HTI	652	85	87	100	57	63	1.6	0.8
	MEX	20587	97	95	99	89	90	2.8	0.0
NOA	CAN	...	...	...	...	...	...	...	...
	USA	...	...	...	...	...	...	...	...
SOC	ARG	784	...	7	100	93	93	1.7	0.3
	CHL	768	88	35	97	96	99	5.0	7.4
	PRY	1253	92	69	89	74	56	15.5	0.1
	URY	155	...	...	...	...	...	0.3	0.0
Total and Average*		58829	51	83	97	88	88	4.9	1.1

*Weighted

... No updated report received