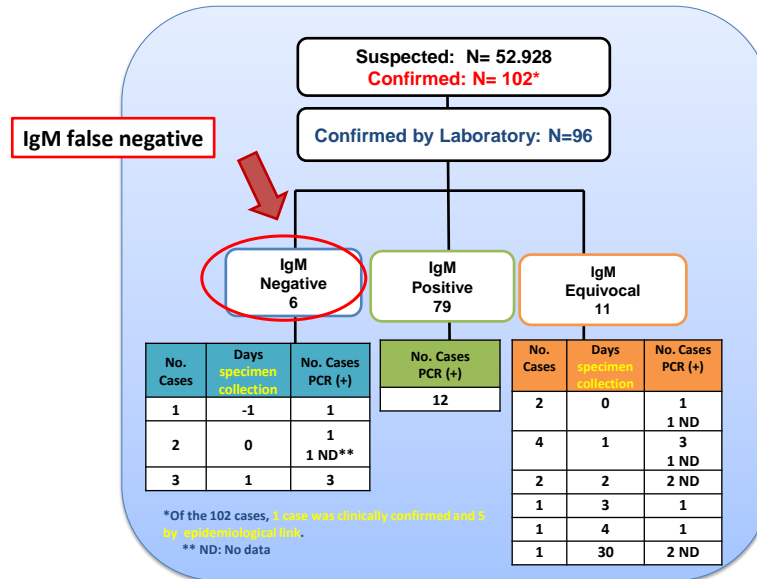


Measles/Rubella Weekly Bulletin



The challenge of cases with IgM false-negative results: Case by case data reported to the measles-rubella surveillance system, 2010-2016

During 2010-2016, 96 laboratory-confirmed measles cases were reported; six of these cases initially have a negative IgM result in a serum sample obtained within 3 days after rash onset. In five of the six cases, PCR was performed in a respiratory specimen, yielding a positive result and thus confirming the measles infection. When a false-negative case is suspected, in cases with a strong clinical suspicion, or cases that have contact with travelers or with international travel history, PAHO recommends to countries obtaining respiratory specimens for viral detection through PCR, and paired serum specimens for additional laboratory tests, to allow final case classification.



Source: SysVPD, MESS, and country reports to FGL-IM as of epidemiological week 24, 2017. The graph excludes countries reporting aggregate data.

Table.1
Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for the Period of Weeks 01-31, 2017

Subregion and Country	Susp. Cases 2017	Measles Confirmed 2017			Year/Week Last Conf. Measles case	Rubella Confirmed 2017			Year/Week Last Conf. Rubella Case	Diagnosis of Discarded Cases 2017		Congenital Rubella Syndrome			Year/Week Last Conf. CRS Case	
		Clin.	Lab.	Total		Clin.	Lab.	Total		Dengue	Others	Susp.	Conf.	CRI*		
AND	BOL	35	0	0	0	2000-40	0	0	0	2006-03	0	30	0	0	0	...
	COL	574	0	0	0	2015-35	0	0	0	2012-31	0	563	257	0	0	2005/34
	ECU	168	0	0	0	2016-14	0	0	0	2004-49	0	160	0	0	0	2004/49
	PER	207	0	0	0	2015-25	0	0	0	2009-04	3	188	0	0	0	2007/16
BRA	VEN	270	0	0	0	2012-17	0	0	0	2015-52	1	269	33	0	0	...
	BRA	778	0	0	0	2015-32	0	0	0	2014-40	0	670	23	0	0	2009/34
	CAP	62	0	0	0	2014-09	0	0	0	2001-39	0	59	116	0	0	...
	GTM	85	0	0	0	1998-05	0	0	0	2006-31	1	84	2	0	0	2005/00
CAR	HND	88	0	0	0	1998-16	0	0	0	2004-11	0	85	19	0	0	2001/00
	NIC	75	0	0	0	1994/14	0	0	0	2004-19	0	67	25	0	0	2005/00
	PAN	33	0	0	0	2011-20	0	0	0	2002-48	0	33	0	0	0	...
	SLV	117	0	0	0	2001-19	0	0	0	2006-30	0	108	0	0	0	2001/00
LAC	CAR	118	0	0	0	2011/48	0	0	0	2008/18	0	112	52	0	0	1999/00
	CUB	836	0	0	0	1993/27	0	0	0	2004/06	0	836	0	0	0	1989/10
MEX	DOM	44	0	0	0	2011-18	0	0	0	2007-45	0	16	0	0	0	...
	HTI	64	0	0	0	2001-39	0	0	0	2006-21	0	48	10	0	0	...
NOA	MEX	2031	0	0	0	2015-02	0	0	0	2001-25	0	1722	0	0	0	...
	CAN	...	0	43	43 ^a	2017/21	0	0	0	2016/06	...	...	...	...	...	2015/50
SOC	USA	...	0	111	111 ^a	2017/26	0	1	1	2017/20	...	...	...	...	...	2015/00
	ARG	190	0	3	3	2017-17	0	0	0	2014-22	0	130	80	0	0	2009/27
	CHL	89	0	0	0	2015-27	0	0	0	2011-25	0	87	68	0	0	...
	PRY	299	0	0	0	1998-44	0	0	0	2005-21	1	292	0	0	0	2003/06
URY	0	0	0	0	1999/08	0	0	0	2001/37	0	0	0	0	0	...	
TOTAL	6163	0	157	157	--	0	1	1	--	6	5559	685	0	0	--	

*Congenital Rubella Infection; (a) Provisional data.

...No report received



Measles/Rubella Surveillance

Table No.2

Infection Source of Measles and Rubella Confirmed Cases for the Period of Weeks 01-31, 2017

Subregion and Country		Measles				Rubella			
		I	IR	CAC	U	I	IR	CAC	U
AND	BOL								
	COL								
	ECU								
	PER								
	VEN								
BRA	BRA								
	CRI								
	GTM								
	HND								
	NIC								
CAP	PAN								
	SLV								
	CAR								
	CUB								
	DOM								
CAR	HTI								
	MEX								
	NOA	7	31		5				
SOC	CAN	18	85		8	1			
	USA								
	ARG	1	2						
	CHL								
	PRY								
	URY								
TOTAL		25	118	0	13	1	0	0	0

I: Imported; IR: Import-related; CAC: Country-acquired case
U: Unknown.

Table No.3

Measles/Rubella Suspect Cases Under Investigation for the Period of Weeks 01-31, 2017

Country	Pending Cases 2016	Cumulative 2017	Week of Onset							% Pend. Cases
			1-26	27	28	29	30	31		
BOL	0	5	4	0	1	0	...	...	14
COL	11	11	11	0	0	0	0	0	2	
ECU	9	8	7	0	0	0	1	0	5	
PER	0	16	9	0	2	0	4	1	8	
VEN	0	0	0	0	0	0	0	0	0	
BRA	184	3	0	10	12	11	4	0	0	
CRI	1	3	2	0	0	1	0	...	5	
GTM	3	0	0	0	0	0	0	0	0	
HND	0	3	1	0	0	0	1	1	3	
NIC	0	8	0	1	0	1	1	5	11	
PAN	0	0	0	0	0	0	0	0	3	
SLV	1	9	6	1	1	0	0	1	8	
CAR	0	6	4	0	0	1	1	0	5	
CUB	0	0	0	0	0	0	0	0	0	
DOM	2	28	26	2	...	...	...	...	64
HTI	0	16	16	0	0	0	0	...	25	
MEX	0	308	246	15	17	11	14	5	15	
CAN	...	...	...	...	...	...	...	...	0
USA	...	...	...	...	...	...	...	...	0
ARG	0	57	49	2	3	2	1	0	30	
CHL	0	2	0	0	0	0	1	1	2	
PRY	0	6	5	0	0	1	0	0	2	
URY	0	0	0	0	0	0	0	0	0	
TOTAL	211	489	386	31	36	28	28	14	8	

... No report received

Table 4

Indicators of Integrated Measles/Rubella Surveillance for the Period of Weeks 01-31, 2017

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 (2017/32-2017/31)		
		Total Units	% This Week					Measles/Rubella (100,000 pop.)	CRS (10,000 lb)	
AND	BOL	3514	...	97	100	69	63	0.7	0.0	
	COL	5214	96	75	98	86	98	2.3	11.0	
	ECU	3208	...	95	100	83	88	1.8	0.0	
	PER	7771	...	84	93	70	52	1.2	0.0	
	VEN	13092	...	100	100	60	67	1.7	0.7	
CAP	BRA	11996	...	...	63	63	58	0.7	0.2
	CRI	57	...	73	95	81	85	1.6	26.4	
	GTM	1541	78	0	94	47	82	1.0	0.0	
	HND	470	89	65	100	83	99	1.3	2.2	
	NIC	185	100	89	100	93	87	2.0	6.3	
CAR	PAN	345	...	76	100	91	91	1.2	0.0	
	SLV	1257	88	72	96	98	87	3.5	0.0	
	CAR	700	63	92	93	12	75	3.4	6.7	
	LAC	CUB	168	...	100	100	100	100	15.6	0.0
	DOM	247	...	2	100	30	16	0.6	0.0	
MEX	HTI	368	...	91	95	47	63	0.8	1.5	
	MEX	20146	...	97	99	93	91	2.9	0.0	
	NOA	CAN	...	...	...	...	...	...	...
SOC	USA	...	...	...	...	...	...	...	...
	ARG	809	...	21	86	63	67	0.7	2.5	
	CHL	783	82	37	84	83	100	1.0	7.0	
	PRY	1159	94	81	97	89	94	6.9	0.0	
	URY	335	...	0	0	0	0	0	0.0	
Total and Average*		73365	13	87	93	82	84	1.8	1.2	

*Weighted

... No report received