

# Measles/Rubella Weekly Bulletin



## Comparison of clinical and epidemiological characteristics of **measles** and its differential diagnoses

Illness	Measles	Rubella	Roseola (exanthema subitum)	Erythema infectiosum
Etiology	Measles virus	Rubella virus	Human herpes virus 6	Human parvovirus B19
Incubation period (days)	7-21	12-23	5-15	4-14
Fever	Yes	Yes	Yes	Yes
Rash Characteristics	Yes	Yes	Yes	Yes
Distribution	Maculopapular	Maculopapular	Maculopapular	Maculopapular
Duration	Cephalocaudal	Cephalocaudal	Thorax and abdomen	Cephalocaudal
	Four to seven days	Four to seven days	Hours to days	Five to ten days
Conjunctivitis	Yes	No	No	No
Cough	Yes	No	No	No
Coryza	Yes	No	No	Yes
Retroauricular Adenopathy	No	Yes	Yes	No
Serological test to detect acute infection	IgM	IgM	IgM	IgM
Vaccination as prevention measure	Yes	Yes	No	No

Source: Pan American Health Organization. Measles Elimination Field Guide. Second Edition. Available at: [http://www1.paho.org/hq/dmdocuments/2010/FieldGuide\\_Measles\\_2ndEd\\_e.pdf](http://www1.paho.org/hq/dmdocuments/2010/FieldGuide_Measles_2ndEd_e.pdf)

Table.1  
Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for the Period of Weeks 01-11, 2016

Subregion and Country	Susp. Cases 2016	Measles Confirmed 2016			Year/Week Last Conf. Measles case	Rubella Confirmed 2016			Year/Week Last Conf. Rubella Case	Diagnosis of Discarded Cases 2016		Congenital Rubella Syndrome			Year/Week Last Conf. CRS Case	
		Clin.	Lab.	Total		Clin.	Lab.	Total		Dengue	Others	Susp.	Conf.	CRI*		
AND	BOL	21	...	...	...	2000/40	...	...	...	2006/03	0	19	0	0	0	...
	COL	287	0	0	0	2015/36	0	0	0	2012/42	0	245	95	0	0	2005/34
	ECU	64	0	0	0	2012/28	0	0	0	2004/45	0	57	0	0	0	2011/14
	PER	68	0	0	0	2015/25	0	0	0	2006/45	0	51	0	0	0	2007/16
	VEN	26	0	0	0	2012/16	0	0	0	2007/51	5	21	0	0	0	...
BRA	BRA	408	0	0	0	2015/32	0	0	0	2014/40	0	238	1	0	0	2009/34
CAP	CRI	2	0	0	0	2005/22	0	0	0	2001/42	0	1	0	0	0	...
	GTM	24	0	0	0	1998/05	0	0	0	2006/30	1	23	0	0	0	2005/00
	HND	15	0	0	0	1997/29	0	0	0	2004/11	1	13	5	0	0	2001/00
	NIC	4	0	0	0	1994/14	0	0	0	2004/19	0	4	4	0	0	2005/00
	PAN	14	0	0	0	2011/20	0	0	0	2002/48	0	14	0	0	0	...
	SLV	14	0	0	0	2001/19	0	0	0	2006/30	0	5	0	0	0	2001/00
CAR	CAR	109	0	0	0	2011/48	0	0	0	2008/18	0	98	9	0	0	1999/00
LAC	CUB	104	0	0	0	1993/27	0	0	0	2004/06	0	104	0	0	0	...
	DOM	0	0	0	0	2011/18	0	0	0	2006/44	0	0	0	0	0	...
	GLP	0	0	0	0	2011/28	0	0	0	...	0	0	0	...	...	2005/00
	GUF	0	0	0	0	2011/26	0	0	0	2010/06	0	0	0	...	...	...
	HTI	2	0	0	0	2001/39	0	0	0	2006/21	0	1	0	0	0	...
	MTQ	0	0	0	0	2011/27	0	0	0	...	0	0	0	...	...	...
MEX	MEX	341	0	0	0	2015/02	0	0	0	2012/49	0	294	0	0	0	...
NOA	CAN	...	...	6	6 <sup>a</sup>	2016/11	0	1	1	2016/06	...	...	...	...	...	2015/50
	USA	...	...	1	1 <sup>a</sup>	2016/01	...	...	...	2015/00	...	...	...	...	...	2015/00
SOC	ARG	23	0	0	0	2014/36	0	0	0	2014/22	0	4	8	0	0	2009/27
	CHL	27	0	0	0	2015/27	0	0	0	2011/25	0	24	0	0	0	...
	PRY	71	0	0	0	1998/44	0	0	0	2005/21	3	53	0	0	0	2003/06
	URY	0	0	0	0	1999/08	0	0	0	2001/37	0	0	0	...	...	...
<b>TOTAL</b>		<b>1624</b>	<b>0</b>	<b>7</b>	<b>7</b>	<b>--</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>--</b>	<b>10</b>	<b>1296</b>	<b>122</b>	<b>0</b>	<b>0</b>	<b>--</b>

\*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 01-11, 2016

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								
	LAC								
	CUB								
MEX	DOM								
	GLP								
	GUF								
	HTI								
	MTQ								
NOA	MEX								
	CAN	6				1			
	USA	1							
SOC	ARG								
	CHL								
	PRY								
	URY								
<b>TOTAL</b>		<b>7</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>0</b>

**Table No.3**  
Measles/Rubella Suspect Cases Under Investigation for the Period of Weeks 01-11, 2016

Country	Pending Cases 2015	Cumulative 2016	Week of Onset							% Pend.Cases
			1-6	7	8	9	10	11		
BOL	0	2	1	0	0	0	1	0	10	
COL	41	42	22	4	5	8	3	...	15	
ECU	42	7	2	1	0	2	1	1	11	
PER	21	17	9	2	2	1	2	1	25	
VEN	0	0	0	0	0	0	0	...	0	
BRA	234	169	95	25	19	16	14	0	41	
CRI	0	1	1	0	0	0	0	0	50	
GTM	1	0	0	0	0	0	0	0	0	
HND	0	0	0	0	0	0	0	0	0	
NIC	0	0	0	...	...	...	...	...	...	
PAN	1	0	0	0	0	0	0	0	0	
SLV	9	9	6	2	1	0	0	...	64	
CAR	2	11	1	0	1	5	3	1	10	
CUB	0	0	0	0	0	0	0	0	0	
DOM	48	0	0	...	...	...	...	...	...	
GLP	0	0	0	0	0	0	...	...	0	
GUF	0	0	0	0	0	0	...	...	0	
HTI	7	1	1	0	0	0	0	0	50	
MTQ	0	0	0	0	0	0	...	...	0	
MEX	7	0	0	0	0	0	0	0	0	
CAN	...	...	...	...	...	...	...	...	...	
USA	...	...	...	...	...	...	...	...	...	
ARG	38	19	19	0	0	0	0	...	83	
CHL	23	3	0	1	0	2	...	...	11	
PRY	10	15	3	4	4	4	0	...	21	
URY	0	0	0	...	...	...	...	...	...	
<b>TOTAL</b>		<b>484</b>	<b>296</b>	<b>160</b>	<b>39</b>	<b>32</b>	<b>38</b>	<b>24</b>	<b>3</b>	<b>18</b>

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

... No report received

**Table 4**  
Indicators of Integrated Measles/Rubella Surveillance for the Period of Weeks 01-11, 2016

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 (2015/12-2016/11)		
		Total Units	% This Week					Measles/Rubella (100,000 pop.)	CRS (10,000 lb)	
AND	BOL	3514	...	100	100	52	76	1.1	0.0	
	COL	5400	94	82	88	84	91	4.4	1.1	
	ECU	3208	0	80	98	76	87	2.1	0.0	
	PER	7314	0	90	96	77	35	2.2	0.0	
	VEN	13092	0	100	100	58	54	1.9	0.0	
CAP	BRA	14789	68	...	23	23	40	2.3	0.0	
	CRI	57	0	50	100	50	100	0.7	0.0	
	GTM	1506	62	17	96	75	83	1.2	0.0	
	HND	470	91	87	100	80	100	0.9	0.2	
	NIC	185	...	25	100	100	75	1.8	0.3	
LAC	PAN	282	79	100	100	86	100	2.0	0.0	
	SLV	1243	...	79	93	92	69	3.6	0.0	
	CAR	714	82	94	98	22	82	4.2	0.0	
	LAC	CUB	168	100	100	100	100	10.5	0.0	
	DOM	247	...	0	0	0	0	0.5	0.0	
MEX	GLP	...	...	...	...	...	...	0.0	0.0	
	GUF	...	...	...	...	...	...	0.4	0.0	
	HTI	320	79	100	100	50	50	1.3	0.0	
	MTQ	...	...	...	...	...	...	0.0	0.0	
	MEX	139	...	98	93	94	89	4.5	0.0	
NOA	CAN	...	...	...	...	...	...	...	...	
	USA	...	...	...	...	...	...	...	...	
	SOC	ARG	809	0	22	65	67	53	0.9	0.1
		CHL	817	...	19	78	90	100	4.1	5.1
SOC	PRY	1050	90	68	99	76	82	7.7	0.3	
	URY	345	...	0	0	0	0	0.3	0.0	
<b>Total and Average*</b>		<b>55659</b>	<b>74</b>	<b>86</b>	<b>76</b>	<b>66</b>	<b>73</b>	<b>2.9</b>	<b>0.2</b>	

\*Weighted

... No report received