

# Measles/Rubella Weekly Bulletin



## Measles outbreaks with genotype information. Latin American countries, 2010-2015

Year	Outbreak with 1 case	Outbreaks with 2-5 cases	Outbreaks with 6-20 cases	Outbreaks >20 cases
2010	FRG – 2 (D4)	BRA – 1 (B3)	ARG – 1 (B3) BRA – 1 (B3)	BRA – 1 (B3)
2011	ARG – 1 (D4) BRA – 5 (D4) CHI – 1 (D9) JAM – 1 (B3) MEX – 3 (D4) <b>BRA – 2 (NA)</b>	ARG – 1 (D4) BRA – 6 (D4) CHI – 2 (D4) DOR – 1 (D4) PAN – 1 (D4)	COL – 1 (D4) FRG – 1 (D4) GLP – 1 (D4)	BRA – 1 (D4) ECU – 1 (B3) <sup>(a)</sup>
2012	ARG – 1 (D4) COL – 1 (D4) VEN – 1 (D4)	<b>BRA – 1 (NA)</b>	BRA – 1 (D8)	ECU – 1 (B3) <sup>(a)</sup>
2013	BRA – 2 (D8) BRA – 1 (D4) <b>BRA – 2 (NA)</b> <b>COL – 1 (NA)</b>	BRA – 2 (D8)		BRA – 1 (D8) <sup>(b)</sup>
2014	ARG – 1 (D8) BRA – 1 (B3) <b>BRA – 1 (NA)</b>	BRA – 2 (D8)		BRA – 1 (D8) <sup>(b)</sup>
2015	COL – 1 (B3) <b>BRA – 2 (NA)</b> <b>MEX – 1 (NA)</b>	PER – 1 (D8)	CHI – 1 (H1)	BRA – 1 (D8) <sup>(b)</sup>
<b>TOTAL Outbreaks and % genotype identified</b>	<b>31– (71%)</b>	<b>18 – (94%)</b>	<b>7– (100%)</b>	<b>4– (100%)</b>

Source: Country reports.

(a) Same outbreak B3; (b) Same outbreak, D8, NA – Not available

A total of 62 outbreaks have been reported between 2010-2015 in Latin America and the Caribbean (LAC) countries. Out of this total, 31 outbreaks consisted of one case (each); 18 outbreaks consisted of 2-5 cases; 7 outbreaks consisted of 6-20 cases and 4 outbreaks had more than 20 cases. In 57% of the outbreaks, genotype D4 was found (n=30). Genotypes D8 (n=1,118 cases) and B3 (n=414) were identified as those with the highest number of secondary cases across different years and countries.

Table.1  
Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for the Period of Weeks 01-12, 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 314	0	0	0	2015/36	0	0	0	2012/42	0	262	114	0	0	2005/34
	ECU 67	0	0	0	2012/28	0	0	0	2004/45	0	59	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 462	0	0	0	2015/32	0	0	0	2014/40	0	272	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 116	0	0	0	2011/48	0	0	0	2008/18	0	100	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 429	0	0	0	2015/02	0	0	0	2012/49	0	371	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 26	0	0	0	2014/36	0	0	0	2014/22	0	4	16	0	0	2009/27
	CHL 27	0	0	0	2015/27	0	0	0	2011/25	0	24	10	0	0	...
	PRY 113	0	0	0	1998/44	0	0	0	2005/21	3	90	0	0	0	2003/06
	URY 0	0	0	0	1999/08	0	0	0	2001/37	0	0	0	...	...	...
<b>TOTAL</b>	<b>1848</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>1438</b>	<b>159</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 01-12, 2016

Subregion and Country		Measles				Rubella			
		I	IR	CAC	U	I	IR	CAC	U
AND	BOL								
	COL								
	ECU								
	PER								
	VEN								
BRA	BRA								
CAP	CRI								
	GTM								
	HND								
	NIC								
	PAN								
	SLV								
CAR	CAR								
LAC	CUB								
	DOM								
	GLP								
	GUF								
	HTI								
	MTQ								
MEX	MEX								
NOA	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 01-12, 2016

Country	Pending Cases 2015	Cumulative 2016	Week of Onset							% Pend.Cases
			1-7	8	9	10	11	12		
BOL	0	2	1	0	0	1	0	...	10	
COL	27	52	26	5	15	6	0	0	17	
ECU	42	8	3	0	2	1	2	0	12	
PER	21	17	11	2	1	2	1	...	25	
VEN	0	0	0	0	0	0	0	0	0	
BRA	234	190	116	16	20	22	16	...	41	
CRI	0	1	1	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	
SLV	9	9	8	1	0	0	...	...	64	
CAR	1	16	1	1	5	4	3	2	14	
CUB	0	0	0	0	0	0	0	...	0	
DOM	48	0	0	0	0	0	0	0	...	
GLP	0	0	0	0	0	0	0	...	0	
GUF	0	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	...	0	
MEX	7	0	0	0	0	0	0	0	0	
CAN	...	...	...	...	...	...	...	...	...	
USA	...	...	...	...	...	...	...	...	...	
ARG	23	22	21	0	1	0	0	0	85	
CHL	23	3	1	0	2	...	...	...	11	
PRY	10	20	4	1	7	6	2	0	18	
URY	0	0	0	...	...	...	...	...	...	
<b>TOTAL</b>		<b>454</b>	<b>341</b>	<b>194</b>	<b>26</b>	<b>53</b>	<b>42</b>	<b>42</b>	<b>2</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 01-12, 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 (2015/13-2016/12)	
		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	0	81	86	83	92	4.5	1.3
	ECU	3208	0	79	99	76	86	2.0	0.0
	PER	7314	...	90	96	77	35	2.2	0.0
	VEN	13092	0	100	100	58	54	1.9	0.0
	BRA	14613	73	...	23	23	40	2.3	0.0
CAP	CRI	57	...	50	100	50	100	0.7	0.0
	GTM	1506	76	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	1.7	0.3
	PAN	282	...	100	100	86	100	1.9	0.0
	SLV	1243	...	79	93	92	69	3.5	0.0
CAR	CAR	714	91	91	98	21	79	4.1	0.7
LAC	CUB	168	...	100	100	100	100	10.2	0.0
	DOM	247	0	0	0	0	0	0.4	0.0
	GLP	...	...	...	...	...	...	0.0	0.0
	GUF	...	...	...	...	...	...	0.4	0.0
	HTI	320	81	100	100	50	50	1.2	1.2
	MTQ	...	...	...	...	...	...	0.0	0.0
MEX	MEX	139	...	98	93	94	89	4.6	0.0
NOA	CAN	...	...	...	...	...	...	...	...
	USA	...	...	...	...	...	...	...	...
SOC	ARG	809	0	19	69	72	50	0.9	0.2
	CHL	817	...	19	78	90	100	4.0	5.1
	PRY	1050	87	65	98	81	82	8.3	0.3
	URY	345	...	0	0	0	0	0.3	0.0
<b>Total and Average*</b>		<b>55493</b>	<b>74</b>	<b>85</b>	<b>75</b>	<b>66</b>	<b>74</b>	<b>2.9</b>	<b>0.2</b>

\*Weighted

... No report received