

## **Weekly Bulletin**

## **Measles-Rubella-Congenital Rubella Syndrome**



Family, Health Promotion and Life Course/Comprehensive Family Immunization

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Measles, Rubella, and Congenital Rubella Syndrome Surveillance in the Americas

Week ending 23 March 2019

## Confirmed measles cases with D8 genotype and unknown source, Country X, 2017-2018

							201	7							2018										
Subnational	Municipal																								
level	level	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
	Libertad	1																							
	Cártago						1																		
Madero	Atenas																	1							
	Granada																			2	2				
	San Benito				1	2																	1	1	
	Morelia		1																						
	San Diego					1	4																		
Belen	Cordoba					3	4	1														2			
Beleii	Valdivia						1																		
	Santiago					1	4																		
	Salinas					)																1			
	Delta																				1				
	San Mateo																					3		2	
Sucre	Valencia																							2	
	Santos																						1	1	
	Alameda			1																					

Unkn Impo

Unknown source case Import-related case

Imported D8 genotype case (with travel history)

Using fictional data, table 1 shows the distribution of confirmed measles cases with unknown source of infection by sub-national and municipal levels, where the genotype D8 was identified, in the period 2017 and 2018. The numbers placed in each cell represent the number of confirmed cases. In cases classified as imported-related, the source of infection was not identified. According to the table, genotype D8 circulated scattered in country X, with a few exceptions circled in red. A frequent importation of genotype D8 is observed in Belén and Sucre, although epidemiological links between the reported cases were not detected, following a rigorous investigation. In addition, > 12 months elapsed between the last case with an unknown source of infection reported in 2017 and the first case reported in 2018. Therefore, it was unlikely that an endemic transmission chain with genotype D8 had occurred in country. X.

Table.1
Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for Week 12, 2019

Classification of Suspect Measles, Rubella, a								and Co	ngenita	Rubella	Syndrome	(CRS) C	ases for v	veek 12	., 2019		
	region Country	Susp. Cases 2019	I		Confirmed 019	I	Year/Week Last Conf. Measles	Rubella	Confirm	ned 2019	Year/Week Last Conf. Rubella	Discard	osis of ed Cases 119		genital Ru Syndrom	Year/Week Last Conf.	
2		2019	Clin.	Clin. Lab. E		Total	case	Clin.	Lab.	Total	Case	Dengue	Others	Susp.	Conf.	CRI*	CRS Case
AND	BOL	14	0	0		0	2000-40	0	0	0	2006-03	0	2	0	0	0	
	COL	463	0	19		19	2019-06	0	0	0	2012-31	0	382	67	0	0	2005-34
	ECU						2018-33				2004-49						2011-14
	PER	96	0	0		0	2018-41	0	0	0	2009-04	0	78	0	0	0	2007-16
	VEN	2	0	40		40 <sup>a</sup>	2019-07	0	0	0	2007-51	0	2	0	0	0	
BRA	BRA	0		48		48 <sup>a,b</sup>	2019-09				2014-40	0	0	0			2009-34
CAP	CRI	25	0	7		7	2019-12	0	0	0	2001-39	0	13	37	0	0	
	GTM	67	0	0		0	2018-03	0	0	0	2006-31	0	66	0	0	0	2005-00
	HND	68	0	0		0	1998-16	0	0	0	2004-11	0	56	3	0	0	2001-00
	NIC	111	0	0		0	1994-14	0	0	0	2004-19	3	81	9	0	0	2005-00
	PAN	10	0	0		0	2011-20	0	0	0	2002-48	0	8	0	0	0	
	SLV	57	0	0		0	2001-19	0	0	0	2006-30	0	57	0	0	0	2001-00
CAR	CAR	59	0	1	1	2	2019-08	0	0	0	2008-18	0	44	2	0	0	1999-00
LAC	CUB	663	0	0		0	1993-27	0	0	0	2004-06	0	6	0	0	0	1989-10
	DOM	30	0	0		0	2011-18	0	0	0	2007-45	1	21	0	0	0	
	HTI	30	0	0		0	2001-39	0	0	0	2006-21	0	4	7	0	0	
MEX	MEX	689	0	1		1	2019-07	0	0	0	2018-14	0	549	0	0	0	
NOA	CAN			24	4	28	2019-12				2016-06						2018-39
	USA			42	345	387°	2019-12				2017-16						2017-00
SOC	ARG	7	0	2		2	2019-09	0	0	0	2014-22	0	5	0	0	0	2009-27
	CHL	350	0	3		3	2019-06	0	0	0	2011-25	0	268	15	0	0	
	PRY	375	0	0		0	1998-44	0	0	0	2005-21	11	230	2	0	0	2003-06
	URY						1999-08				2001-37						
TO	TAL	3116	0	187	350	537		0	0	0		15	1872	142	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 01-12, 2019

## Table No.3 Measles/Rubella Suspect Cases Under Investigation for the Period of Weeks 01-12, 2019

Subre	gion and		Mea	asles			Rub	ella				Pending Cases	Cumu- lative			W	eek of C	Onset		
	ountry	ı	IR	En.	U	ı	IR	CAC	U		Country	2018	2019	1-7	8	9	10	11	12	% Pend. Cases
AND	BOL										BOL	2	12	11	0	0	1	0	0	86
	COL	10			9						COL	176	62	60	2	0	0	0	0	13
	ECU										ECU	84								
	PER										PER	0	18	6	1	5	1	2	3	19
	<b>VEN</b> <sup>a</sup>			40							VEN	34								
BRA	$BRA^{a,b}$	48									BRA									
CAP	CRI	1	6								CRI	23	5	2	1	0	0	0	2	20
	GTM										GTM	12	1	1	0	0	0	0	0	1
	HND										HND	0	12	6	3	0	2	1	0	18
	NIC										NIC	0	27	2	0	6	10	6	3	24
	PAN										PAN	0	2	2	0					20
	SLV										SLV	0	0	0	0	0	0	0	0	0
CAR	CAR	2									CAR	1	13	2	2	1	5	2	1	22
LAC	CUB										CUB	0	591	386	55	50	48	52	0	89
	DOM										DOM	18	8	8	0	0	0	0	0	27
	HTI										HTI	54	26	23	0	0	2	1	0	87
MEX	MEX	1									MEX	0	139	28	19	19	23	31	19	20
NOA	CAN	13	14		1						CAN									
	USA	34	345		8						USA									
SOC	ARG	2									ARG	374	0	0	0	0	0	0	0	0
	CHL		1		2						CHL	5	79	37	6	16	12	8	0	23
	PRY										PRY	41	134	37	21	14	21	29	12	36
	URY										URY	1								
TO	OTAL	111	366	40	20	0	0	0	0		TOTAL	825	1129	611	110	111	125	132	40	36
I:	Imported: I	R: Imi	oort-rel	ated: Er	n: End	emic c	ase: U	: Unkno	own.	_							No un	dated r	eport re	eceived

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

... No updated report received

Table 4 Indicators of Integrated Measles/Rubella Surveillance for Period of Weeks 01-12. 2019

Subregion and Country		Sites Re Wee	kly	% Cases with Adequate	% Cases with	% Blood Samples	% Lab. Results	Rate of Suspected Cases Last 52 weeks (2018/13-2019/12)			
		Total Units	% This Week	Investigation	Adequate Sample	Received in Lab. ≤5 days	Kesuits ≤4 days	Measles/Rubella (100,000 pop.)	CRS (10,000 lb)		
AND BOL				14	43	83	83	1.7	0.0		
	COL			81	95	92	98	11.6	5.9		
	ECU	2184						2.7	0.0		
	PER	7781		89	98	80	22	3.2	0.0		
	VEN	13092		100	100	50	50	8.7	0.0		
	BRA							5.1	0.1		
CAP	CRI	57		72	96	83	75	1.5	5.5		
	GTM	1541 98		72	94	64	82	2.0	0.1		
HND		470 90		81	99	88	99	2.3	1.4		
NIC		185	100	97	98	98	91	4.8	4.7		
	PAN	324		90	100	60	100	1.5	0.0		
	SLV	1277	90	70	96	98	98	6.8	0.0		
CAR	CAR	763	93	76	93	7	76	4.1	10.2		
LAC	CUB	168		100	100	100	100	27.3	0.0		
	DOM	247		10	100	97	73	1.1	0.0		
	HTI	652	83	93	100	47	60	1.5	0.6		
MEX	MEX	20592	97	96	99	88	88	2.9	0.0		
NOA	CAN										
	USA										
SOC	ARG	784	784 14		100	100	86	2.0	0.3		
	CHL	768		39	96	96	99	4.8	6.6		
	PRY	1253	98	71	88	73	63	15.1	0.1		
	URY	155						0.3	0.0		
Total and	Average*	54950	47	82	96	88	88	5.0	1.0		

... No updated report received \*Weighted

<sup>(</sup>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.