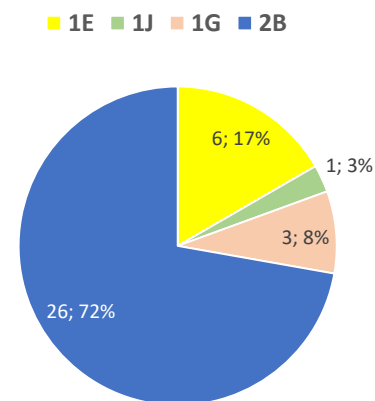




Identification of rubella genotypes by country and year. The Americas 2012 - 2019

Between 2012 and 2019, four countries in the region have reported 36 genetic sequences of the rubella virus to RubeNS (rubella nucleotide surveillance database) from imported rubella cases. These genetic sequences have allowed the identification of four rubella genotypes: 2B (72%), 1E (17%), 1G (8%), and 1J (3%). A total of 80.5% of sequences were reported by United States.

RubeNS	2012		2013		2014		2015		2016		2017		2018		2019		TOTAL
Gene E1	1E	2B	1E	2B	1E	2B	1J	2B	1G	2B	1G	2B	2B	1E	2B		
Colombia		1															1
Canada			1				1	1					1	1			5
Mexico		1															1
USA	1	1	1	4	2	3	3	2	4	1	3	2	2	1	1		29
Total	1	3	1	5	2	3	1	4	2	4	1	3	3	2	1		36



Source: RubeNS and country report

Table.1
Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for Weeks 01-32, 2020

Subregion and Country	Susp. Cases 2020	Measles Confirmed 2020				Year/Week Last Conf. Measles case	Rubella Confirmed 2020			Year/Week Last Conf. Rubella Case	Diagnosis of Discarded Cases 2020		Congenital Rubella Syndrome			Year/Week Last Conf. CRS Case	
		Clin.	Lab.	EPI link	Total		Clin.	Lab.	Total		Dengue	Others	Susp.	Conf.	CRI*		
AND	BOL	35	0	2	...	2	2020-16	0	0	0	2006-03	2	31	0	0	0	...
	COL	556	...	1	...	1	2020-09	0	0	0	2012-31	...	411	156	0	0	2005-34
	ECU	...	...	...	...	...	2018-33	...	...	...	2004-49	...	...	...	...	...	2011-14
	PER	47	0	0	...	0	2019-18	0	0	0	2009-04	0	42	0	0	0	2007-16
	VEN	491	0	0	...	0	2019-33	0	0	0	2007-51	0	345	19	0	0	...
BRA	BRA	15394	2589	4843	...	7432	2020-29	0	0	0	2014-40	0	7007	18	0	0	2009-34
	CAP	42	0	0	...	0	2019-13	0	0	0	2001-39	1	13	0	0	0	...
	GTM	42	0	0	...	0	2018-03	0	0	0	2006-31	1	39	1	0	0	2005-00
	HND	78	0	0	...	0	1998-16	0	0	0	2004-11	0	78	6	0	0	2001-00
	NIC	56	0	0	...	0	1994-14	0	0	0	2004-19	4	48	20	0	0	2005-00
	PAN	28	0	0	...	0	2011-20	0	0	0	2002-48	0	27	0	0	0	...
	SLV	65	0	0	...	0	2001-19	0	0	0	2006-30	0	64	149	0	0	2001-00
CAR	CAR	45	0	0	...	0	2019-48	0	0	0	2008-18	0	35	12	0	0	1999-00
	LAC	684	0	0	...	0	2019-24	0	0	0	2004-06	0	684	0	0	0	1989-10
	DOM	15	0	0	...	0	2011-18	0	0	0	2007-45	4	8	0	0	0	...
MEX	HTI	90	0	0	...	0	2001-39	0	0	0	2006-21	0	58	23	0	0	...
	MEX	1989	...	186	9	195	2020-23	0	0	0	2018-14	0	1754	0	0	0	...
	CAN	...	...	1	...	1	2020-06	0	0	0	2019-50	...	...	...	...	...	2018-39
SOC	USA	...	...	12	...	12	2020-10	...	...	...	2019-03	...	...	...	...	...	2017-00
	ARG	326	0	60	1	61	2020-12	0	0	0	2019-47	3	261	0	0	0	2009-27
	CHL	38	0	2	...	2	2020-03	0	0	0	2019-14	0	32	0	0	0	...
	PRY	484	0	0	...	0	1998-44	0	0	0	2005-21	2	427	6	0	0	2003-06
	URY	2	0	0	2	2	2020-07	0	0	0	2001-37	0	0	0	0	0	...
TOTAL	20507	2589	5107	12	7708	--	0	0	0	--	17	11364	410	0	0	0	--

*Congenital Rubella Infection.

...No updated report received



Table No.2
Infection Source of Measles and Rubella Confirmed Cases
for the Period of Weeks 01-32, 2020

Subregion and Country		Measles				Rubella		
		I	IR	En.	U	I	IR	U
AND	BOL				2			
	COL	1						
BRA	PER							
	VEN							
	BRA			7432				
	CAP							
	CRI							
CAR	GTM							
	HND							
	NIC							
	PAN							
	SLV							
LAC	CAR							
	CUB							
MEX	DOM							
	HTI							
NOA	MEX*							
	CAN	1						
SOC	USA	12						
	ARG	7			54			
	CHL	2						
	PRY							
	URY		2					
TOTAL		23	2	7432	56	0	0	0

I: Imported; IR: Import-related; En: Endemic case; U: Unknown.
* Pending final classification

Table No.3
Measles/Rubella Suspect Cases Under Investigation
for the Period of Weeks 01-32, 2020

Country	Pending Cases 2019	Cumulative 2020	Week of Onset							% Pend. Cases
			1-27	28	29	30	31	32		
BOL	1	0	0	0	0	...	...	...	0
COL	0	144	132	3	2	5	2	0	26	
ECU	8	...	...	...	...	...	...	...	...
PER	13	5	5	0	0	0	0	0	11	
VEN	5	0	0	0	0	0	0	0	0	
BRA	2597	958	925	14	10	9	0	...	7	
CRI	0	28	28	...	...	...	...	...	67
GTM	0	2	2	0	...	...	...	...	5
HND	0	0	0	0	0	0	0	0	0	
NIC	0	8	1	0	3	1	2	1	14	
PAN	1	1	1	...	...	...	...	...	4
SLV	0	0	0	0	0	...	...	...	0
CAR	6	10	10	0	0	0	0	0	22	
CUB	0	0	0	0	0	0	...	...	0
DOM	20	3	3	...	...	...	...	...	20
HTI	30	32	31	0	1	0	0	0	36	
MEX	248	40	30	3	1	5	1	0	2	
CAN	...	...	...	...	...	...	...	...	...
USA	...	...	...	...	...	...	...	...	...
ARG	3	1	1	0	0	0	0	0	0	
CHL	9	4	4	...	...	...	...	...	11
PRY	85	55	51	0	1	0	0	3	11	
URY	3	0	0	...	...	...	...	...	0
TOTAL	3029	1291	1224	20	18	20	5	4	6	

... No updated report received

Table 4
Indicators of Integrated Measles/Rubella Surveillance for Period of Weeks 01-32, 2020

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 (2019/33-2020/32)		
		Total Units	% This Week					Measles/Rubella (100,000 pop.)	CRS (10,000 lb)	
AND	BOL	2657	...	94	86	60	83	0.9	0.0	
	COL	4612	...	47	...	...	...	1.1	7.1
	ECU	2184	...	...	...	...	...	...	...
	PER	7781	...	96	79	62	54	0.5	0.0	
	VEN	13092	...	100	95	11	11	0.5	0.3	
CAP	BRA	...	...	...	...	56	74	30.1	0.1
	CRI	57	...	95	33	100	86	1.2	8.4	
	GTM	1541	...	100	100	55	86	0.6	0.0	
	HND	469	90	96	100	79	97	2.3	1.6	
	NIC	185	100	95	96	95	96	2.3	4.2	
CAR	PAN	324	...	93	96	71	89	1.2	0.0	
	SLV	1282	...	86	97	98	92	3.4	0.0	
	CAR	763	66	64	87	13	60	1.9	4.4	
	LAC	CUB	168	...	100	100	100	100	16.4	0.0
	DOM	247	...	53	93	80	53	0.4	0.0	
MEX	HTI	659	87	88	98	50	46	1.1	1.7	
	MEX	19975	96	96	98	93	90	3.1	0.0	
NOA	CAN	...	...	...	...	...	...	...	...
	USA	...	...	...	...	...	...	...	...
SOC	ARG	784	...	7	92	67	52	1.4	0.0	
	CHL	767	...	8	95	92	94	1.1	7.4	
	PRY	1291	98	74	92	84	93	15.1	0.9	
	URY	155	...	100	0	0	0	0.2	0.0	
Total and Average*		58993	38	82	96	61	75	11.7	0.9	

*Weighted

... No updated report received