



Route and chains of transmission of an imported measles case

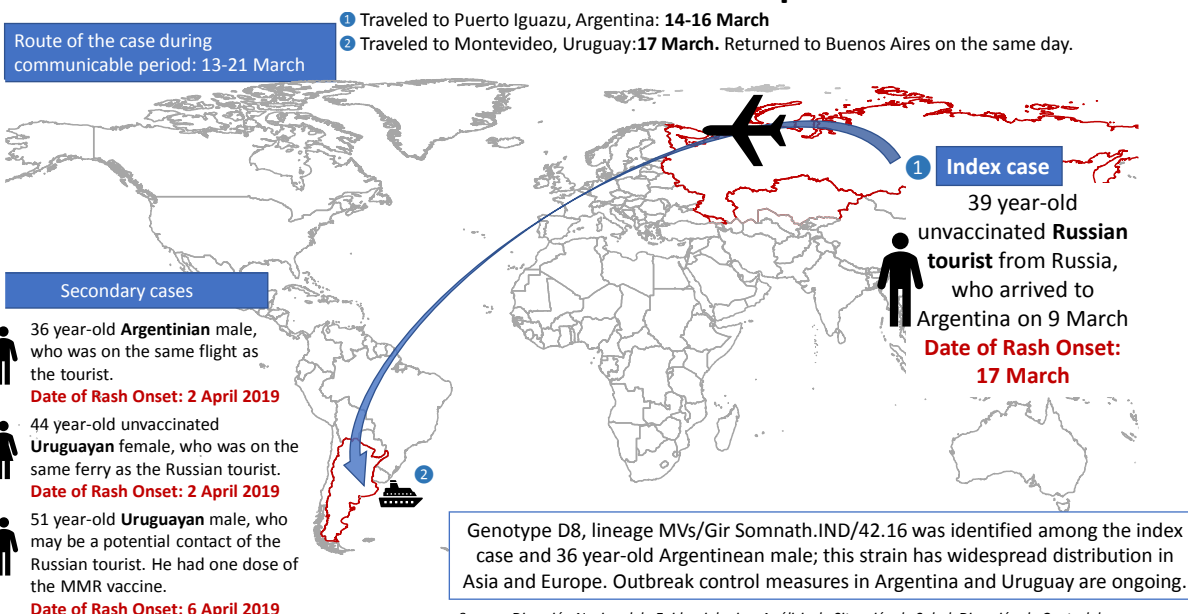


Table.1
Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for Week 16, 2019

Subregion and Country	Susp. Cases 2019	Measles Confirmed 2019				Year/Week Last Conf. Measles case	Rubella Confirmed 2019			Year/Week Last Conf. Rubella Case	Diagnosis of Discarded Cases 2019		Congenital Rubella Syndrome			Year/Week Last Conf. CRS Case
		Clin.	Lab.	EPI link	Total		Clin.	Lab.	Total		Dengue	Others	Susp.	Conf.	CRI*	
AND	BOL	14	0	0	...	0	0	0	2006-03	0	2	0	0	0	...	
	COL	931	0	86	...	86	0	0	2012-31	1	755	90	0	0	2005-34	
	ECU	...	...	...	...	...	...	...	2018-33	...	...	...	...	...	2011-14
	PER	134	0	1	...	1	0	0	2019-13	0	127	0	0	0	2007-16	
	VEN	488	32	85	23	140 ^a	0	0	0	2009-04	0	2	0	0	...	
BRA	BRA	...	...	48	...	48 ^{a,b}	...	...	...	2007-51	0	...	...	...	2009-34
CAP	CRI	27	0	9	...	9 ^a	0	0	0	2014-40	...	17	37	0	...	
	GTM	108	0	0	...	0	0	0	2019-09	0	99	2	0	0	2009-34	
	HND	87	0	0	...	0	0	0	2014-40	0	99	2	0	0	2005-00	
	NIC	216	0	0	...	0	0	0	2018-03	0	99	2	0	0	2005-00	
	PAN	10	0	0	...	0	0	0	1998-16	0	74	3	0	0	2001-00	
	SLV	91	0	0	...	0	0	0	2004-11	0	74	3	0	0	2001-00	
CAR	CAR	89	0	1	1	2	0	0	0	2004-19	3	125	11	0	2005-00	
LAC	CUB	713	0	0	...	0	0	0	2011-20	0	8	0	0	0	...	
	DOM	33	0	0	...	0	0	0	2001-19	0	69	0	0	0	2001-00	
	HTI	72	0	0	...	0	0	0	2006-30	0	69	0	0	0	2001-00	
MEX	MEX	1031	0	1	...	1	0	0	2008-18	0	78	4	0	0	1999-00	
NOA	CAN	...	...	40	4	44	0	0	0	2008-18	0	78	4	0	0
	USA	...	...	42	584	626 ^c	0	0	0	2008-18	0	78	4	0	0
SOC	ARG	16	0	4	...	4	0	0	0	2008-18	0	78	4	0	0	
	CHL	415	0	3	...	3	0	0	0	2008-18	0	78	4	0	0	
	PRY	517	0	0	...	0	0	0	0	2008-18	0	78	4	0	0	
	URY	...	...	3	...	3 ^a	...	...	...	2008-18	0	78	4	0	0
TOTAL		4992	32	323	612	967	0	0	0	18	2859	193	0	0	...	

*Congenital Rubella Infection.

...No updated report received

(a) PAHO/WHO. Epidemiological Update: Measles. 17 April 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) Centers for Disease Control and Prevention (<https://www.cdc.gov/measles/cases-outbreaks.html>). Cases as of 19 April 2019. Case count is preliminary and subject to change. Data are updated every Monday.



Table No.2
Infection Source of Measles and Rubella Confirmed Cases for the Period of Weeks 01-16, 2019

Subregion and Country		Measles				Rubella			
		I	IR	En.	U	I	IR	CAC	U
AND	BOL	75			11				
	COL								
BRA	ECU								
	PER ^a	1		40	100				
CAP	VEN ^a								
	BRA ^{a,b}	48							
LAC	CRI	3	6						
	GTM								
CAR	HND								
	NIC								
NOA	PAN								
	SLV								
SOC	CAR	2							
	CUB								
MEX	DOM								
	HTI								
NOA	MEX	1			7				
	CAN	23	14		8				
SOC	USA	34	584						
	ARG	3	1						
URY ^a	CHL		1		2				
	PRY								
TOTAL		191	608	40	128	0	0	0	0

Table No.3
Measles/Rubella Suspect Cases Under Investigation for the Period of Weeks 01-16, 2019

Country	Pending Cases 2018	Cumulative 2019	Week of Onset							% Pend. Cases
			1-11	12	13	14	15	16		
BOL	2	12	12	0	...	...	...	...	...	86
COL	184	89	76	7	4	2	0	0	0	10
ECU	84	...	...	...	...	...	...	...	...	...
PER	0	6	1	0	1	1	0	3	4	4
VEN	34	0	0	0	...	...	...	...	...	...
BRA	...	...	...	...	...	...	...	...	...	...
CRI	23	3	2	1	0	0	0	0	0	11
GTM	12	9	3	1	2	3	0	0	0	8
HND	0	13	13	0	0	0	0	0	0	15
NIC	0	88	5	3	25	35	18	2	41	41
PAN	0	2	2	...	...	...	...	...	...	20
SLV	0	0	0	0	0	0	0	0	0	0
CAR	1	9	2	0	2	3	2	0	10	10
CUB	0	641	591	50	0	...	...	...	...	90
DOM	18	9	9	0	0	0	0	0	0	27
HTI	56	56	28	3	10	6	8	1	78	78
MEX	0	242	105	29	22	27	48	11	23	23
CAN	...	...	...	...	...	...	...	...	...	...
USA	...	...	...	...	...	...	...	...	...	...
ARG	360	0	0	0	0	0	0	0	0	0
CHL	3	45	26	0	4	8	6	1	11	11
PRY	25	213	93	20	22	32	28	18	41	41
URY	1	...	...	...	...	...	...	...	...	...
TOTAL		803	1437	968	114	92	117	110	36	29

I: Imported; IR: Import-related; En: Endemic case; U: Unknown. ... No updated report received
(a) PAHO/WHO. Epidemiological Update: Measles. 17 April 2019, Washington, D.C.: PAHO/WHO; 2019; (b) Confirmed measles cases in Brazil were among crewmembers of a cruise ship.

Table 4
Indicators of Integrated Measles/Rubella Surveillance for Period of Weeks 01-16, 2019

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 (2018/17-2019/16)	
		Total Units	% This Week					Measles/Rubella (100,000 pop.)	CRS (10,000 lb)
AND	BOL	2657	...	14	43	83	83	1.3	0.0
	COL	5179	98	89	95	93	97	11.8	6.3
CAP	ECU	2184	...	...	...	...	...	1.4	0.0
	PER	7781	...	90	97	87	33	3.0	0.0
LAC	VEN	13092	...	100	100	50	50	6.0	0.0
	BRA	0	...	...	...	...	...	4.8	0.1
CAR	CRI	57	...	67	96	85	77	1.3	5.5
	GTM	1541	...	73	96	58	80	1.9	0.2
NOA	HND	470	90	83	99	83	99	2.1	1.4
	NIC	185	100	96	98	97	77	6.0	4.9
SOC	PAN	324	...	90	100	60	100	1.3	0.0
	SLV	1279	84	74	98	99	99	6.9	0.0
MEX	CAR	763	93	78	98	9	85	4.1	10.2
	LAC	168	...	100	100	100	100	26.9	0.0
NOA	DOM	247	...	18	97	91	70	1.0	0.0
	HTI	652	86	92	100	49	60	1.6	0.8
SOC	MEX	20559	95	96	99	88	89	2.8	0.0
	CAN	...	...	...	...	...	...	...	...
URY ^a	USA	...	...	...	...	...	...	...	...
	ARG	784	...	6	100	94	94	1.6	0.3
MEX	CHL	768	...	34	98	96	100	5.0	7.4
	PRY	1253	96	65	85	78	60	15.7	0.1
NOA	URY	155	...	...	...	...	...	0.3	0.0

Total and Average*		60098	48	83	96	88	87	4.7	1.0

*Weighted

... No updated report received