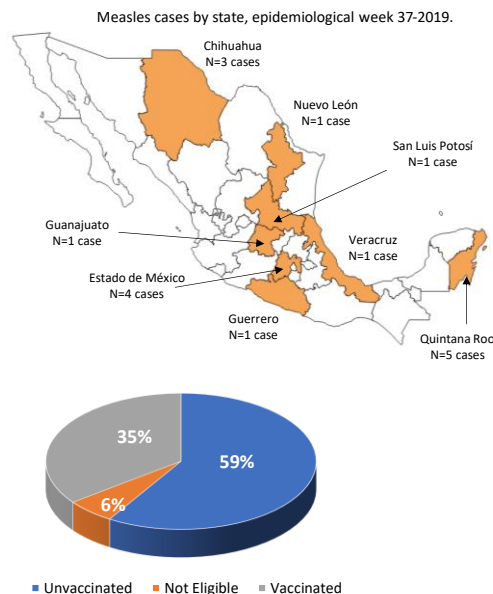
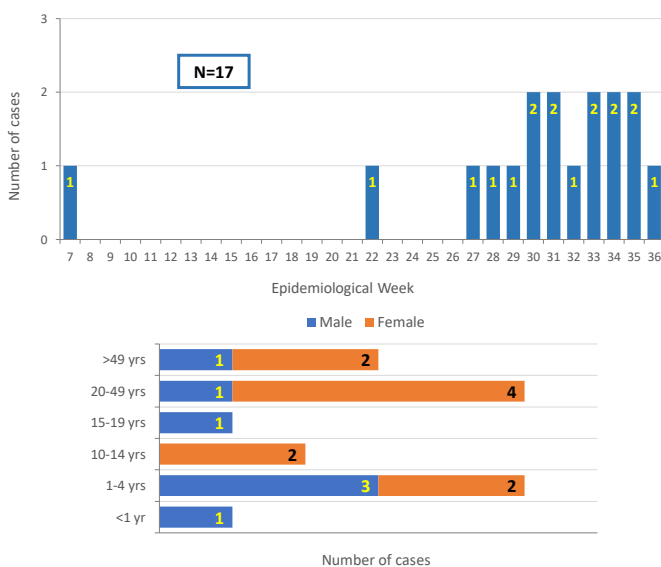




Characteristics of measles outbreak in Mexico, 2019*

Since 1 January to 11 September of 2019, Mexico confirmed 17 measles cases. Of this total, 3 chains of transmission were identified that generated a limited number of import-related cases; and isolated cases. Genotypes D8 and B3 were identified in these outbreaks.



Source: Ministry of Health, Mexico, Data as of 11 September 2019.

Table.1
Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for Weeks 01-37, 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	72	0	0	...	0	2000-40	0	0	0	2006-03	1	30	8	0	0	...
	COL	3543	0	201	...	201 ^a	2019-36	0	0	0	2012-31	1	2870	239	0	0	2005-34
	ECU	2	0	0	0	0	2018-33	0	0	0	2004-49	0	2	0	...	...	2011-14
	PER	324	0	2	...	2	2019-17	0	0	0	2009-04	0	315	0	0	0	2007-16
	VEN	461	32	391	23	446 ^b	2019-34	0	0	0	2007-51	9	186	19	0	0	...
BRA	BRA	31688	259	4217	...	4476	2019-37	...	...	...	2014-40	0	5839	28	0	0	2009-34
CAP	CRI	49	0	10	...	10	2019-13	0	0	0	2001-39	0	38	25	0	0	...
	GTM	327	0	0	...	0	2018-03	0	0	0	2006-31	1	201	2	0	0	2005-00
	HND	292	0	0	...	0	1998-16	0	0	0	2004-11	0	280	16	0	0	2001-00
	NIC	626	0	0	...	0	1994-14	0	0	0	2004-19	9	577	22	0	0	2005-00
	PAN	52	0	0	...	0	2011-20	0	0	0	2002-48	0	47	0	0	0	...
	SLV	394	0	0	...	0	2001-19	0	0	0	2006-30	0	394	0	0	0	2001-00
CAR	CAR	252	0	3	1	4	2019-07	0	0	0	2008-18	0	236	36	0	0	1999-00
LAC	CUB	2397	0	1	...	1 ^c	2019-24	0	0	0	2004-06	0	2397	0	0	0	1989-10
	DOM	140	0	0	...	0	2011-18	0	0	0	2007-45	7	123	0	0	0	...
	HTI	182	0	0	...	0	2001-39	0	0	0	2006-21	0	57	18	0	0	...
MEX	MEX	3823	0	17	...	17	2019-37	0	0	0	2018-14	0	3114	0	0	0	...
NOA	CAN	...	...	102	9	111	2019-34	...	...	...	2016-06	0	0	0	...	...	2018-39
	USA	...	...	42	1199	1241 ^d	2019-37	...	1	1	2019-03	0	0	0	...	...	2017-00
SOC	ARG	149	0	6	...	6	2019-33	0	3	3	2019-16	0	134	0	0	0	2009-27
	CHL	670	0	8	...	8	2019-36	0	1	1	2019-14	0	654	111	0	0	...
	PRY	1073	0	0	...	0	1998-44	0	0	0	2005-21	87	745	2	0	0	2003-06
	URY	67	0	9	...	9	2019-22	...	...	...	2001-37	0	56	0	0	...	...
TOTAL		46583	291	5009	1232	6532	--	0	5	5	--	115	18295	526	0	0	--

*Congenital Rubella Infection.

...No updated report received

(a) *Boletín Epidemiológico Semanal, SE 36-2019, Instituto Nacional de Salud, Colombia*; (b) Ministry of Health Venezuela reports to PAHO/WHO Venezuela (data up to epidemiological week 34); (c) PAHO/WHO. Epidemiological Update: Measles. 7 August 2019, Washington, D.C.: PAHO/WHO; 2019; (d) Centers for Disease Control and Prevention (<https://www.cdc.gov/measles/cases-outbreaks.html>). Cases as of 12 September 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 01-37, 2019

Subregion and Country		Measles				Rubella			
		I	IR	En.	U	I	IR	CAC	U
AND	BOL				16				
	COL	63	122						
	ECU								
	PER	1	1						
	VEN			446					
BRA	BRA	39		48	4389				
	CRI	1	9						
	GTM								
	HND								
	NIC								
CAP	PAN								
	SLV								
	CAR	4							
	LAC	1							
	CUB*								
MEX	DOM								
	HTI								
	MEX	5	12						
NOA	CAN	41	62		8				
	USA	57	1167		17	1			
	USA								
SOC	ARG	4	1		1	3			
	CHL	3	3		2	1			
	PRY								
	URY	2	6		1				
	URY								
TOTAL		221	1383	494	4434	5	0	0	0

Table No.3
Measles/Rubella Suspect Cases Under Investigation for the Period of Weeks 01-37, 2019

Country	Pending Cases 2018	Cumulative 2019	Week of Onset							% Pend. Cases
			1-32	33	34	35	36	37		
BOL	3	41	41	0	0	0	...	...	57
COL	184	114	109	0	1	2	2	0	3	
ECU	84	0	0	0	0	0	...	...	0
PER	1	7	4	0	0	1	2	0	2	
VEN	2	4	4	0	0	0	0	0	1	
BRA	465	20972	9314	3244	3294	3248	2478	394	66	
CRI	23	1	1	0	0	0	0	...	2	
GTM	12	125	96	7	11	3	7	1	38	
HND	0	12	12	0	0	0	0	0	4	
NIC	0	40	18	6	5	5	5	1	6	
PAN	0	5	1	1	1	2	...	...	10
SLV	0	0	0	0	0	0	0	0	0	
CAR	0	12	10	1	0	0	0	1	5	
LAC	0	0	0	0	0	0	0	...	0	
CUB*	0	10	10	0	0	...	...	...	7
HTI	56	125	118	5	2	0	0	0	69	
MEX	0	693	359	50	57	50	96	81	18	
CAN	...	...	...	...	...	...	...	...	...
USA	...	...	...	...	...	...	...	...	...
ARG	241	2	2	0	0	0	0	0	1	
CHL	0	7	4	1	0	1	1	0	1	
PRY	9	240	186	11	11	15	12	5	22	
URY	0	2	2	0	0	0	0	0	3	
TOTAL		1080	22412	10291	3326	3382	3327	2603	483	48

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

... No updated report received

(a) PAHO/WHO. Epidemiological Update: Measles.7 August 2019, Washington, D.C.: PAHO/WHO; 2019

Table 4
Indicators of Integrated Measles/Rubella Surveillance for Period of Weeks 01-37, 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 (2018/38-2019/37)	
		Total Units	% This Week					Measles/Rubella (100,000 pop.)	CRS (10,000 lb)
AND	BOL	2657	...	63	81	77	77	1.1	0.3
	COL	5211	98	93	96	93	97	7.9	8.3
	ECU	2184	...	100	100	100	100	1.1	0.0
	PER	7781	...	90	97	87	48	2.4	0.0
	VEN	13092	...	100	57	10	17	2.0	0.3
CAP	BRA	...	...	...	...	...	...	14.8	0.1
	CRI	57	...	73	86	86	79	1.3	3.7
	GTM	1541	98	86	97	63	86	2.1	0.0
	HND	470	91	77	99	81	98	3.7	2.2
	NIC	185	100	96	94	93	82	11.3	5.9
CAR	PAN	324	...	96	94	79	96	1.6	0.0
	SLV	1281	92	74	98	97	95	8.0	0.0
	CAR	763	76	85	96	9	92	4.3	12.6
	LAC	CUB	168	...	100	100	100	30.3	0.0
	DOM	247	...	19	96	84	76	1.4	0.0
MEX	HTI	652	...	90	94	74	66	1.9	0.7
	MEX	20293	97	95	99	90	90	3.4	0.0
	CAN	...	...	...	...	...	...	...	...
NOA	USA	...	...	...	...	...	...	...	...
	ARG	784	...	17	97	81	59	0.8	0.0
	CHL	767	87	24	99	96	98	5.2	10.7
	PRY	1259	99	74	87	83	74	20.5	0.1
	URY	155	0	97	55	55	46	2.0	0.0
Total and Average*		58592	51	88	95	87	88	7.8	1.1

*Weighted

... No updated report received