



One of the challenges for measles epidemiology in the post-elimination era is the occurrence of sporadic cases without any travel history whatsoever. Here, molecular biology plays a pivotal role as an instrument for the documentation of the importation of these cases through the identification of the imported genotypes as well as their place of origin. In 2011, the main genotypes identified in measles outbreaks in the Americas, as a result of importations, are B3, D4, D8, D9, G3, and H1.

Global distribution of measles genotypes, 2011*

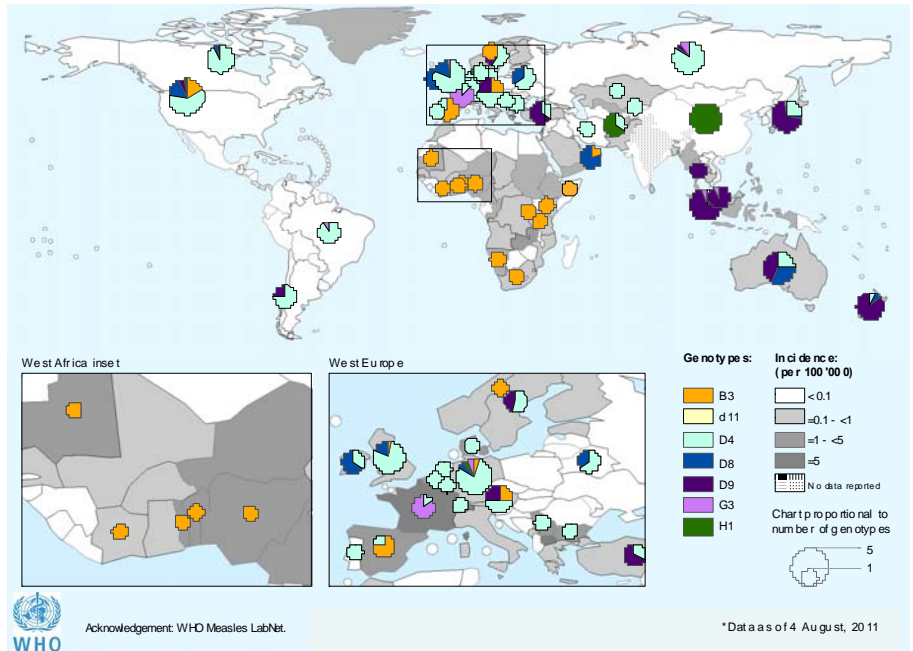


Table.1
Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for the Period of Weeks 01-34, 2011

Subregion and Country	Susp. Cases 2011	Measles Confirmed 2011			Year/Week Last Conf. Measles case	Rubella Confirmed 2011			Year/Week Last Conf. Rubella Case	Diagnosis of Discarded Cases 2011		Congenital Rubella Syndrome			Year/Week Last Conf. CRS Case	
		Clin.	Lab.	Total		Clin.	Lab.	Total		Dengue	Others	Susp.	Conf.	CRIS*		
AND	BOL	144	0	0	0	0	0	0	06/03	2	139	...	...	...	...
	COL	1180	0	3	3	0	0	0	09/18	0	1100	183	0	...	2005/34	
	ECU	435	0	2	2	0	0	0	04/45	42	253	0	0	0	...	
	PER	442	0	0	0	0	0	0	06/45	2	405	...	...	...	2007/16
	VEN	261	0	0	0	0	0	0	10/03	34	196	0	0	0	...	
BRA	BRA	4665	0	18	18	0	0	0	09/41	0	4064	0	0	...	2009/34	
	CAP	9	0	0	0	0	0	0	01/42	0	5	0	0	0	...	
CAR	ELS	198	0	0	0	0	0	0	06/30	4	194	46	0	0	2001/xx	
	GUT	155	0	0	0	0	0	0	06/30	6	131	0	0	0	2005/00	
	HON	49	0	0	0	0	0	0	04/11	3	44	18	0	0	...	
	NIC	115	0	0	0	0	0	0	04/19	0	109	...	...	...	...
	PAN	205	0	4	4	0	0	0	02/48	15	169	0	0	0	1999/xx	
	CAR	238	0	0	0	0	0	0	08/18	0	0	0	0	0	...	
	LAC	CUB	749	0	0	0	0	0	0	04/06	0	749	0	0
	DOR	87	0	1	1	0	0	0	0	06/44	0	58	0	0
	FGU	17	0	4	4	0	0	0	10/06	3	10	...	...	...	...
	GUA	19	0	13	13 ^c	...	...	...	...	0	6	...	...	...	...
MEX	HAI	...	0	0	0	0	0	0	06/47	...	...	...	...	...	...
	MAR	8	...	3	3	...	...	...	...	0	5	...	...	...	...
MEX	PUR	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	NOA	3309	0	3	3	0	0	0	08/20	0	3010	...	...	...	...
	CAN	...	...	725	725 ^a	0	1	1	11/25	...	...	1	1 ^b	...	...
SOC	USA	...	...	198	198 ^a	0	4	4	11/18	...	...	0	0	...	...
	ARG	96	...	3	3	0	0	0	09/05	0	8	19	0	0	...	
	CHI	376	0	6	6	0	2	2	11/25	0	292	23	0	...	...
	PAR	341	0	0	0	0	0	0	05/21	5	333	0	0	0	...	
URU	3	0	0	0	0	0	0	01/37	0	1	0	0	0	...		
TOTAL	13101	0	983	983	--	0	7	7	--	116	11281	290	1	0	--	

... No report received; * Congenital Rubella Infection; (a) Provisional data; (b) imported;

(c) Five cases have been notified in the island of Saint Martin (1 import and 4 import-related), For the surveillance of vaccine-preventable diseases, Saint Martin reports cases to Guadeloupe's Regional Agency of Health.



Measles / Rubella Surveillance

Table No.2

Infection Source of Measles and Rubella Confirmed Cases for the Period of Weeks 01-34, 2011

Subregion and Country		Measles				Rubella			
		I	IR	CAC	U	I	IR	CAC	U
AND	BOL								
	COL	1	2						
	ECU	1	1						
	PER								
	VEN								
BRA	BRA	7	8		3				
	COR								
	ELS								
	GUT								
	HON								
CAR	NIC								
	PAN	4							
	CAR								
	CUB								
	DOR	1							
MEX	FGU	2	2						
	GUA	7	5		1				
	HAI								
	MAR	2			1				
	PUR								
NOA	MEX	3							
	CAN	13	23		689				1
SOC	USA	98	82		18	2	1		1
	ARG	1	2						
	CHI	3	3			1	1		
	PAR								
	URU								
TOTAL		143	128	0	712	3	2		2

I: Imported; IR: Import-related; CAC: Country-acquired case
U: Unknown.

Table No.3

Measles/Rubella Suspect Cases Under Investigation for the Period of Weeks 01-34, 2011

Country	Pending Cases 2010	Cumulative 2011	Week of Onset							% Pend.Cases
			1-29	30	31	32	33	34		
BOL	0	3	0	2	0	0	1	0	2	
COL	9	77	52	5	8	10	2	0	7	
ECU	0	16	15	0	1	0	0	...	4	
PER	0	35	35	0	0	...	...	...	8
VEN	0	31	31	0	0	0	0	0	12	
BRA	45	583	395	44	55	52	37	...	12	
COR	0	4	4	0	0	0	0	0	44	
ELS	0	0	0	0	0	0	0	0	0	
GUT	0	18	18	0	0	0	0	0	12	
HON	0	0	0	0	0	0	0	0	0	
NIC	0	6	4	2	0	0	0	0	5	
PAN	1	17	6	2	2	1	4	2	10	
CAR	0	238	223	6	2	5	2	0	100	
CUB	0	0	0	0	0	0	0	0	0	
DOR	4	28	27	1	0	0	0	0	32	
FGU	0	0	0	0	0	0	0	0	0	
GUA	0	0	0	0	0	0	0	0	0	
HAI	0	...	...	...	...	...	...	...	...
MAR	0	0	0	0	0	0	0	0	0	
PUR	...	...	...	...	...	...	...	...	...
MEX	0	299	248	35	13	3	...	...	9
CAN	...	...	...	...	...	...	...	...	...
USA	...	...	...	...	...	...	...	...	...
ARG	0	85	85	...	...	...	...	...	89
CHI	16	77	56	1	3	9	1	3	19	
PAR	1	2	2	0	0	0	0	0	1	
URU	2	2	2	0	0	0	0	0	67	
TOTAL	78	1521	1203	98	84	80	47	5	12	

... No report received

Table 4.

Indicators of Integrated Measles/Rubella Surveillance for the Period of Weeks 01-34, 2011

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 (2010/35-2011/34)	
		Total Units	% This Week					Measles/Rubella (100,000 pop.)	CRS (10,000 lb)
AND	BOL	2657	0	99	99	92	91	1,8	0.0
	COL	4827	0	72	93	92	94	4,8	1.9
	ECU ^a	1633	0	78	99	95	71	5,7	0.0
	PER	3703	...	74	96	75	75	1,5	0.0
	VEN ^a	3283	0	68	96	94	58	1,7	0.0
BRA	BRA	...	81	25	...	99	...	4,3	0.0
	COR ^a	57	0	44	100	56	44	0,5	0.0
	ELS ^a	256	...	76	99	96	80	4,4	3.8
	GUT ^a	1506	0	95	97	97	85	1,9	0.0
	HON ^a	469	96	56	100	100	94	0,9	0.9
CAR	NIC	185	100	86	97	90	85	2,5	0.0
	PAN ^a	214	79	47	92	92	89	6,4	0.0
	CAR ^a	130	0	75	92	96	93	5,0	0.0
	CUB	444	100	100	100	100	100	6,8	0.0
	DOR	251	0	46	90	67	57	1,2	0.0
LAC	FGU	...	...	...	...	...	...	7,5	...
	GUA	...	...	...	...	...	...	4,1	...
	HAI	76	...	...	...	...	...	0,0	0.0
	MAR	...	...	...	...	...	...	2,0	...
	PUR	...	...	...	...	...	...	...	...
MEX	MEX	...	...	98	...	...	...	2,9	0.0
	CAN	...	...	...	...	...	...	...	...
NOA	USA	...	...	...	...	...	...	...	...
	ARG ^a	409	...	6	83	63	41	0,2	0.3
	CHI	569	99	19	78	79	98	2,5	0.9
SOC	PAR	600	...	45	100	85	79	6,0	0.0
	URU ^a	155	...	33	33	100	0	0,5	0.0
Total and Average		21424	83	61	95	94	86	3.3	0.3

... No report received

(a) Countries using ISIS