

Measles/Rubella Weekly Bulletin



Comprehensive Family Immunization/Family, Gender and Life Course
Measles and Rubella Surveillance in the Americas

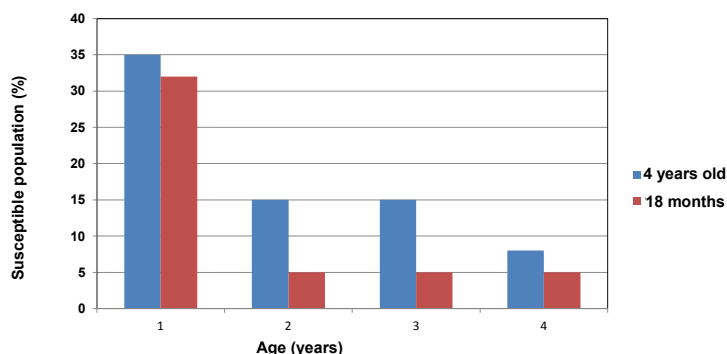


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Week ending 27 July 2013

TAG recommendation 2013: Measles-Rubella containing Vaccine 2nd Dose in Routine Immunization

In order to maintain the elimination of measles and rubella, coverage >95% with two doses of MMR/MR is required. In light of this situation, countries should take advantage of every opportunity that children have contact with health facilities, for treatment or for the provision of health interventions including other vaccines, to provide MMR2. In its recent meeting, PAHO's Technical Advisory Group on Vaccine-preventable Diseases (TAG) recommended to administer MMR2 vaccine at 15-18 months, when it can be given simultaneously with other vaccines, such as the first DPT booster. Giving MMR2 at 15-18 months of age ensures early protection of the individual and delays the accumulation of susceptible children as seen in the graph.



Percentage of susceptible children 1-4 year old by age when MMR2 is given at 4 years (blue) and 18 months (red).

A mathematical model suggested that providing MMR2 at 18 months instead of 4 years of age would considerably reduce susceptibility in the 2-4 year age-group. It predicted that the proportion of susceptible children in the 0-4 age-group would fall from 25% to 20% once the new schedule has been established.

Source: Wood James G., Gidding Heather F., Heywood Anita, Macartney Kristine, McIntyre Peter B., MacIntyre C. Raina. Potential impacts of schedule changes, waning immunity and vaccine uptake on measles elimination in Australia. Vaccine. 2009 27(2). p.313

Table.1
Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for the Period of Weeks 01-30, 2013

Subregion and Country	Susp. Cases 2013	Measles Confirmed 2013			Year/Week Last Conf. Measles case	Rubella Confirmed 2013			Year/Week Last Conf. Rubella Case	Diagnosis of Discarded Cases 2013		Congenital Rubella Syndrome			Year/Week Last Conf. CRS Case	
		Clin.	Lab.	Total		Clin.	Lab.	Total		Dengue	Others	Susp.	Conf.	CRI*		
AND	BOL	64	0	0	0	2000/40	0	0	0	2006/03	1	60	19	...	...	...
	COL	1075	0	0	0	2012/05	0	0	0	2012/42	9	1000	166	0	0	2005/34
	ECU	0	...	...	...	2012/28	...	...	...	2004/45	0	0	0	...	...	...
	PER	252	0	0	0	2008/18	0	0	0	2006/45	0	241	0	...	...	2007/16
	VEN	145	0	0	0	2012/16	0	0	0	2007/51	18	79	0	0	0	...
BRA	BRA	2831	0	72	72	2013/27	0	0	0	2009/41	0	2216	66	0	0	2009/34
	CAP	15	0	0	0	2005/22	0	0	0	2001/42	2	11	0	0	...	...
	GTM	159	0	0	0	1998/05	0	0	0	2006/30	33	122	4	0	0	2005/00
	HND	30	0	0	0	1997/29	0	0	0	2004/11	8	22	60	0	0	2001/00
	NIC	107	0	0	0	1994/14	0	0	0	2004/19	4	99	25	0	...	2005/00
CAR	PAN	79	0	0	0	2011/20	0	0	0	2002/48	0	75	1	0	...	...
	SLV	84	0	0	0	2001/19	0	0	0	2006/30	0	0	0	0	0	2001/00
	CAR	191	0	0	0	2011/48	0	0	0	2008/18	0	16	0	...	...	1999/00
	LAC	600	0	0	0	1993/27	0	0	0	2004/06	0	600	0	0	...	...
	DOM	36	0	0	0	2011/18	0	0	0	2006/44	0	24	0	...	...	...
MEX	GLP	1	0	0	0	2011/28	0	0	0	...	0	1	0	0	...	2005/00
	GUF	0	0	0	0	2011/26	0	0	0	2010/06	0	0	0	0	...	...
	HTI	239	0	0	0	2001/39	0	0	0	2006/21	0	1	25	0	...	...
	MTQ	0	0	0	0	2011/27	0	0	0	...	0	0	0	0	...	...
	PRI	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
NOA	MEX	2356	0	0	0	2011/12	0	0	0	2012/49	0	2489	0	0	...	...
	CAN	0	0	30 ^a	30	2013/30	0	1	1	2013/15	0	0	0	...	...	2011/12
	USA	0	...	128 ^a	128	2013/28	0	6	6	2013/04	0	0	0	...	...	2012/44
SOC	ARG	137	0	0	0	2012/20	0	0	0	2011/20	1	38	53	...	...	2009/27
	CHL	73	0	0	0	2011/25	0	0	0	2011/25	0	72	73	0	0	...
	PRY	328	0	0	0	1998/44	0	0	0	2005/21	140	170	0	0	0	2003/06
	URY	0	0	0	0	1999/08	0	0	0	2001/37	0	0	0	0	0	...
TOTAL	8802	0	230	230	--	0	7	7	--	216	7336	492	0	0	--	

*Congenital Rubella Infection; (a) Provisional data;

...No report received



Measles/Rubella Surveillance

Table No.2

Infection Source of Measles and Rubella Confirmed Cases for the Period of Weeks 01-30, 2013

Subregion and Country		Measles				Rubella			
		I	IR	CAC	U	I	IR	CAC	U
AND	BOL								
	COL								
	ECU								
	PER								
	VEN								
BRA	BRA				72				
	CAP								
	CRI								
	GTM								
	HND								
CAR	NIC								
	PAN								
	SLV								
	CAR								
	LAC								
	CUB								
	DOM								
	GLP								
	GUF								
	HTI								
MEX	MTQ								
	PRI								
	MEX								
NOA	CAN	7	4		19	1			
	USA	38	90			4			2
SOC	ARG								
	CHL								
	PRY								
	URY								
TOTAL		45	94		91	5			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 01-30, 2013

Country	Pending Cases 2012	Cumulative 2013	Week of Onset							% Pend.Cases	
			1-25	26	27	28	29	30			
BOL	6	3	3	...	...	...	...	...	...	5
COL	1	66	46	11	7	2	0	0	0	6	
ECU	78	...	...	...	...	...	...	...	...	...
PER	0	11	5	1	1	2	2	0	0	4	
VEN	0	47	47	0	0	0	0	...	...	32
BRA	511	589	472	35	33	13	36	...	...	21
CAP	0	2	2	0	0	0	0	0	0	13	
CRI	0	4	4	0	0	0	0	0	0	3	
GTM	0	0	0	0	0	0	0	0	0	0	
HND	0	4	2	1	1	0	0	0	0	4	
NIC	0	4	2	1	1	0	0	0	0	4	
PAN	0	4	4	0	0	0	...	...	...	5
SLV	0	17	17	...	...	...	...	...	...	20
CAR	0	175	157	2	7	6	3	0	0	92	
CUB	0	0	0	0	0	0	0	0	0	0	
DOM	0	12	12	0	0	0	0	0	0	33	
GLP	0	0	0	0	0	0	...	...	...	0
GUF	0	0	0	0	0	0	...	...	...	0
HTI	0	238	214	8	11	3	1	1	1	100	
MTQ	0	0	0	0	0	0	...	...	...	0
PRI	...	...	...	...	...	...	...	...	...	...
MEX	0	10	10	0	0	0	0	0	0	0	
NOA	...	...	...	...	...	...	...	...	...	...
CAN	...	...	...	...	...	...	...	...	...	...
USA	...	...	...	...	...	...	...	...	...	...
SOC	143	97	97	0	0	0	0	0	0	71	
ARG	0	1	1	0	0	0	0	0	0	1	
CHL	1	18	18	0	0	0	0	0	0	5	
PRY	0	0	0	...	...	...	...	...	...	0
URY	0	0	0	...	...	...	...	...	...	0
TOTAL			740	1298	1111	58	60	26	42	1	15

... No report received

Table 4.

Indicators of Integrated Measles/Rubella Surveillance for the Period of Weeks 01-30, 2013

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 (2012/31-2013/30)	
		Total Units	% This Week					Measles/Rubella (100,000 pop.)	CRS (10,000 lb)
AND	BOL	...	...	98	98	80	97	1.2	1.1
	COL	5029	97	72	95	91	96	4.8	3.6
	ECU	2184	...	...	...	...	...	0.2	0.0
	PER	...	0	78	96	75	56	1.6	0.0
	VEN	13092	0	68	93	15	15	1.1	0.0
BRA	BRA	13666	90	99	...	99	...	2.6	0.4
	CAP	57	0	20	67	67	60	0.7	0.0
	GTM	1506	9	0	96	74	82	2.0	0.1
	HND	469	95	43	100	67	100	0.9	5.3
	NIC	185	100	90	98	90	93	2.7	1.8
CAR	PAN	219	...	82	99	77	95	3.8	0.3
	SLV	893	...	0	0	0	0	2.1	10.2
	CAR	738	60	7	4	29	100	4.9	0.0
	LAC	150	100	100	100	100	100	10.2	0.0
	CUB	4	100	8	91	58	56	0.9	0.0
	DOM	...	...	...	...	...	...	0.4	...
	GLP	...	...	...	...	...	...	1.3	...
	GUF	...	...	...	...	...	...	...	...
	HTI	100	81	83	99	79	70	2.5	0.9
	MTQ	...	...	...	...	...	...	0.0	...
PRI	...	...	...	...	...	...	...	...
MEX	MEX	11138	...	98	...	...	...	4.1	0.0
NOA	CAN	...	...	...	...	...	...	...	...
	USA	...	...	...	...	...	...	...	...
SOC	ARG	779	2	9	88	60	43	0.6	1.9
	CHL	569	100	62	96	89	92	0.9	4.2
	PRY	921	90	78	92	95	88	9.5	0.0
	URY	155	...	...	...	...	...	0.0	0.0
Total and Average*		51854	85	88	91	89	85	2.8	0.9

*Weighted

... No report received