Pan American Health Organization
Regional Office of the World Health Organization

Measles/Rubella Weekly Bulletin

Comprehensive Family Immunization Project
Family and Community Health Area

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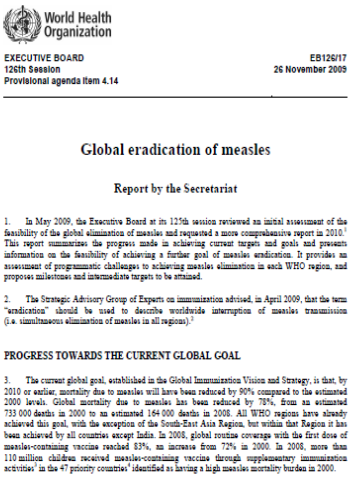
Measles and Rubella Surveillance in the Americas

Week ending
20 February 2010

Moving Towards Measles Eradication

"Measles eradication is achievable. If we want to do this, we can."

-- Dr. Margaret Chan, January 2010



World Health Organization

EXECUTIVE BOARD
126th Session
Provisional agenda item 4.14

EB126/17
26 November 2009

Global eradication of measles

Report by the Secretariat

1. In May 2009, the Executive Board at its 125th session reviewed an initial assessment of the feasibility of the global elimination of measles and requested a more comprehensive report in 2010.[1] This report summarizes the progress made in achieving current targets and goals and presents information on the feasibility of achieving a further goal of measles eradication. It provides an assessment of programmatic challenges to achieving measles elimination in each WHO region, and proposes milestones and intermediate targets to be attained.

2. The Strategic Advisory Group of Experts on immunization advised, in April 2009, that the term "eradication" should be used to describe worldwide interruption of measles transmission (i.e. simultaneous elimination of measles in all regions).[2]

PROGRESS TOWARDS THE CURRENT GLOBAL GOAL

3. The current global goal, established in the Global Immunization Vision and Strategy, is that, by 2010 or earlier, mortality due to measles will have been reduced by 90% compared to the estimated 2000 levels. Global mortality due to measles has been reduced by 78%, from an estimated 733 000 deaths in 2000 to an estimated 164 000 deaths in 2008. All WHO regions have already achieved this goal, with the exception of the South-East Asia Region, but within that Region it has been achieved by all countries except India. In 2008, global routine coverage with the first dose of measles-containing vaccine reached 83%, an increase from 72% in 2000. In 2008, more than 110 million children received measles-containing vaccine through supplementary immunization activities[3] in the 47 priority countries[4] identified as having a high measles mortality burden in 2000.

- **Five out of six Regions have established target dates for elimination:**
  - **PAHO (2000), achieved in 2002**
  - **EMR (2010)**
  - **EUR (2010)**
  - **WPR (2012)**
  - **AFR (2020)**
- **SEAR:**
  - **Target date to be determined**

Table.1
Classification of Suspect Measles, Rubella, and Congenital Rubella Syndrome (CRS) Cases for the Period of Weeks 01-07, 2010

Subregion	and Country	Suspect Cases 2010	Measles Confirmed 2010			Year/Week Last Confir. Measles Case	Rubella Confirmed 2010			Year/Week Last Confir. Rubella Case	Diagnosis of Discarded Cases 2010		Congenital Rubella Syndrome		CRI *
			Clinic.	Lab.	Total		Clinic.	Lab.	Total		Dengue	Other	Suspect	Conf.	
AND	BOL	4	0	0	0	00/40	0	0	0	06/03	0	3	…	…	…
	COL	61	0	0	0	02/39	0	0	0	07/31	0	58	17	0	…
	ECU	48	0	0	0	08/21	0	0	0	04/45	10	37	0	0	…
	PER	35	0	0	0	08/18	0	0	0	06/45	0	22	…	…	…
	VEN	2	0	0	0	07/06	0	0	0	07/34	0	2	…	…	…
BRA	BRA	463	0	0	0	06/48	0	0	0	09/41	9	148	0	0	…
CAP	COR	…	…	…	…	05/22	…	…	…	01/42	…	…	…	…	…
	ELS	11	0	0	0	01/19	0	0	0	06/30	3	8	…	…	…
	GUT	10	0	0	0	98/05	0	0	0	06/30	0	10	5	0	…
	HON	18	0	0	0	97/29	0	0	0	04/11	4	11	5	0	…
	NIC	14	0	0	0	94/14	0	0	0	04/19	0	11	…	…	…
	PAN	5	0	0	0	95/49	0	0	0	02/48	0	5	0	0	…
CAR	CAR	26	0	0	0	08/26	0	0	0	08/18	0	20	0	0	…
LAC	CUB	15	0	0	0	93/27	0	0	0	04/06	0	5	0	0	…
	DOR	0	0	0	0	01/23	0	0	0	06/44	0	0	…	…	…
	FGU	…	…	…	…	…	…	…	…	…	…	…	…	…	…
	GUA	…	…	…	…	…	…	…	…	…	…	…	…	…	…
	HAI	0	0	0	0	01/39	0	0	0	06/47	0	0	0	0	…
	MAR	…	…	…	…	…	…	…	…	…	…	…	…	…	…
	PUR	…	…	…	…		…	…	…		…	…	…	…	…
MEX	MEX	45	0	0	0	06/49	0	0	0	08/20	0	18	0	0	…
NOA	CAN	…	0	2	2	10/04	0	0	0	09/30	…	…	…	…	…
	USA	…	0	1	1	10/05	0	1	1	10/05	…	…	0	0	…
SOC	ARG	10	0	0	0	09/15	0	0	0	09/05	0	6	1	0	…
	CHI	16	0	0	0	09/07	0	0	0	08/30	0	7	…	…	…
	PAR	52	0	0	0	98/44	0	0	0	05/21	9	43	0	0	…
	URU	…	…	…	…	99/08	…	…	…	01/37	…	…			…
TOTAL		835	0	3	3	--	0	1	1	--	35	414	28	0	…

… No report received; * Congenital rubella infection.

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Measles / Rubella Surveillance

Table No.2
Infection Source of Measles and Rubella Confirmed Cases for the Period of Weeks 01-07, 2010

Subregion	Country	Measles			Rubella			
		I	IR	U	I	IR	U	IN
AND	BOL							
	COL							
	ECU							
	PER							
	VEN							
BRA	BRA							
CAP	COR							
	ELS							
	GUT							
	HON							
	NIC							
	PAN							
CAR	CAR							
LAC	CUB							
	DOR							
	FGU							
	GUA							
	HAI							
	MAR							
	PUR							
MEX	MEX							
NOA	CAN	2						
	USA	1			1			
SOC	ARG							
	CHI							
	PAR							
	URU							
TOTAL		3			1			

I: Imported; IR: Import-related; U: Unknown; IN: Indigenous

Table No.3
Measles/Rubella Suspect Cases Under Investigation for the Period of Weeks 01-07, 2010

Country	Pending Cases 2009	Cumulative 2010	Week of Rash Onset						
			1-2	3	4	5	6	7	Unkn.
BOL	2	1	1	0	0	...	...	...	
COL	29	3	1	1	1	0	0	0	
ECU	0	1	0	0	0	1	0	0	
PER	17	13	8	4	1	...	...	...	
VEN	3	0	0	0	0	0	0	0	
BRA	785	304	81	69	76	51	27	...	
COR	...	...	...	...	...	...	...	...	
ELS	0	0	0	0	0	...	...	...	
GUT	5	0	0	0	0	0	0	0	
HON	0	3	2	0	0	0	1	0	
NIC	0	3	1	0	0	0	2	...	
PAN	3	0	0	0	0	0	...	...	
CAR	0	6	4	0	2	0	0	0	
CUB	0	10	0	0	0	0	0	10	
DOR	3	0	0	...	...	...	...	...	
FGU	0	...	...	...	...	...	...	...	
GUA	...	...	...	...	...	...	...	...	
HAI	2	0	0	0	0	0	...	...	
MAR	...	...	...	...	...	...	...	...	
PUR	...	...	...	...	...	...	...	...	
MEX	520	27	11	4	3	3	5	1	
CAN	...	...	...	...	...	...	...	...	
USA	...	...	...	...	...	...	...	...	
ARG	0	0	0	0	0	0	...	...	
CHI	0	9	2	3	3	1	0	...	
PAR	0	0	0	0	0	0	0	0	
URU	0	...	...	...	...	...	...	...	
TOTAL	1369	380	111	81	86	56	35	11	

... No report received

Table No.4
Indicators of Integrated Measles/Rubella Surveillance for the Period of Weeks 01-07, 2010

Sub-region	Country	% Sites Reporting Weekly	% Cases with Adequate Investigation	% Cases with Adequate Sample	% Lab Received ≤5 days	% Lab Result ≤4 days	% Cases Discarded by Lab	Chains of Transmission With Representative Samples for Viral Isolation	
								Measles	Rubella
AND	BOL	...	100	100	100	67	100		
	COL	...	77	95	93	98	100		
	ECU	96	69	100	94	98	100		
	PER	...	91	94	70	52	100		
	VEN	...	0	100	100	0	100		
BRA	BRA	70	...	...	...	...	...		
CAP	COR	...	...	...	...	...	...		
	ELS	...	75	100	100	91	100		
	GUT	...	27	100	67	100	100		
	HON	91	94	100	83	89	100		
	NIC	100	86	93	93	57	100		
	PAN	91	60	100	100	100	100		
CAR	CAR	99	42	81	30	80	100		
LAC	CUB	100	100	100	100	100	33		
	DOR	97	...	...	...	...	...		
	FGU	...	...	...	...	...	...		
	GUA	...	...	...	...	...	...		
	HAI	100	...	...	...	...	...		
	MAR	...	...	...	...	...	...		
	PUR	...	...	...	...	...	...		
MEX	MEX	100	100	100	78	94	100		
NOA	CAN	...	...	...	...	...	...		
	USA	...	...	...	...	...	...		
SOC	ARG	30	...	...	...	...	...		
	CHI	97	6	69	69	100	100		
	PAR	85	67	98	92	100	100		
	URU	...	...	...	...	...	...		
Total and Average		87	74	95	83	90	97		

... No report received.