



Surveillance summary measles and analysis of selected performance indicators for measles/rubella surveillance-EMRO, Week 39 2009

As of September 2009, case-based surveillance with laboratory confirmation of measles is operational in 19 countries of EMR.

A. Measles reported data year to date for both 2008 and 2009:

Country	Reported cases of measles suspects		No. cases tested for measles		Total Measles cases		Measles Laboratory confirmed		measles incidence		Total Rubella cases	
	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009	2008	2009
Afghanistan	1321	2786	541	1376	1060	2353	279	950	44.17	87.15	5	30
Bahrain	96	73	94	73	2	2	2	2	2.00	2.00	0	8
Djibouti	14	34	9	34	5	20	1	19	5.00	20.00	2	2
Iran	846	1145	752	1021	108	234	14	104	1.54	3.21	7	7
Iraq	6664	9456	5910	3386	5598	8863	4620	2783	139.38	295.43	20	5
Jordan	174	67	174	67	0	0	0	0	0.00	0.00	2	1
Egypt	2276	558	1261	528	653	200	301	170	8.95	2.47	1027	10
Kuwait	1883	743	1852	725	773	129	27	107	257.67	43.00	19	25
Lebanon	57	59	26	30	32	29	1	3	8.00	7.25	1	1
Libya	162	503	162	503	0	325	0	325	0.00	54.17	0	3
Morocco	1725	611	109	22	1666	591	51	2	53.74	19.06	9	0
Oman	448	473	444	467	12	18	5	18	4.00	6.00	3	1
Pakistan	280	605	280	417	48	318	48	130	0.31	1.80	16	77
Palestine	156	105	148	100	0	5	0	0	0.00	1.25	0	1
Qatar	265	98	51	39	92	43	4	2	92.00	43.00	161	4
Saudi Arabia	655	258	493	257	315	80	126	68	13.13	3.20	1	9
Somalia	312	1402	31	53	294	1360	13	11	36.75	151.11	0	8
Sudan	356	655	319	489	82	46	47	15	2.22	1.12	111	311
Syria	163	302	153	292	10	33	0	19	0.53	1.57	1	2
Tunisia	476	252	476	243	0	16	0	6	0.00	1.60	153	73
UAE	75	128	65	105	36	51	26	28	9.00	12.75	5	41
Yemen	508	636	462	613	47	96	1	64	2.14	4.36	149	164
Total EMR	18912	20949	13812	10840	10833	14812	5566	4826	18.55	25.11	1692	783

B. Surveillance performance indicators:

The reporting rate of measles for the Region is 1.74 per 100,000 populations in September 2009 compared to 2.25 in September 2008. 8 countries met this indicator in 2009 while 11 countries met this indicator in 2008.

Measles suspected cases tested: 10840 compared to 13812 in September 2008, Eight countries did not meet the target of 80% in 2008. Only six did not meet this indicator in 2009.

Eight countries met the indicator of measles cases with complete investigation in 2009, one country in 2008.

C. Measles Laboratory performance:

Specimen received at the lab within seven days: 85%, compared to 81% in September 2008.

Specimen received in good condition: 98%, compared to 94% in September 2008.

Results reported back within 7 days: 96%, compared to 87% in September 2008.

Regional and country up coming updates

Notification of Measles/Rubella Outbreaks, 2009

Member states are encouraged to exercise care and due diligence in their review of most recent surveillance data, and collaboratively furnish to EMRO information regarding chains of transmission or outbreaks detected and documented through monthly reports, as stated in the agreement elaborated under the RTAG recommendation 3.

EMRO congratulates Egypt for the Success of the Measles and rubella campaign October 2009

Send your comments or questions

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Table 1: Cumulative measles/rubella case counts and surveillance indicators

Between 01/01/2009 & 30/09/2009

Country	Measles case finding report							Rubella case finding report					** Measles incidence	*** Measles Reporting rate	Indicators target>80%							Reporting period		Virus Genotypes		Importation	
	Total suspected cases for measles	Number of specimens tested for measles	Measles Lab confirmed	Measles Epi-Linked	Measles clinically diagnosed	Total measles	Discarded Measles	Number of rubella tested	Rubella Lab confirmed	Rubella Epi-Linked	Total rubella	Discarded rubella			* % of suspects tested for measles	% of cases with complete investigation	% of specimens received at the Lab within 7 days	% of adequate specimens	% of results reported to EPI within 7 days	% specimens IgM-ve	Months	Date	Measles	Rubella	Cases	Measles genotypes	
Afghanistan	2786	1376	950	855	548	2353	433	436	30	0	30	405	87.15	1.60	71%	7%	94%	55%	56%	31%	9	22/10/2009					
Bahrain	73	73	2	0	0	2	71	73	8	0	8	63	2.00	7.10	100%	100%	100%	100%	97%	9	04/12/2009	D4					
Djibouti	34	34	19	0	1	20	14	16	2	0	2	14	20.00	1.40	100%	59%	97%	100%	97%	44%	9	11/07/2009					
Iran	1145	1021	104	0	130	234	911	1016	7	0	7	1009	3.21	1.25	89%	51%	100%	100%	100%	90%	9	30/09/2009	D4,H1		2	H1	
Iraq	9456	3386	2783	6070	10	8863	593	3323	5	0	5	3215	295.43	1.98	100%	79.0%	60%	100%	80%	18%	9	26/09/2009	D4				
Jordan	67	67	0	0	0	0	67	67	1	0	1	66	0.00	1.12	100%	79%	80%	100%	94%	100%	9	05/09/2009					
Egypt	558	528	170	30	0	200	358	529	10	0	10	519	2.47	0.44	100%	99%	84%	95%	95%	68%	8	21/08/2009					
Kuwait	743	725	107	0	22	129	614	729	25	0	25	698	43.00	20.47	98%		96%	100%	100%	85%	9	02/10/2009					
Lebanon	59	30	3	0	26	29	30	30	1	0	1	28	7.25	0.75	51%	58%	39%	100%	100%	90%	7	23/07/2009					
Libya	503	503	325	0	0	325	178	503	3	0	3	500	54.17	2.97	100%	100%	94%	100%	100%	35%	9	30/09/2009	B3				
Morocco	611	22	2	0	589	591	20	21	0	0	0	21	19.06	0.06	4%	100%	100%	100%	88%	91%	9	02/09/2009					
Oman	473	467	18	0	0	18	455	467	1	0	1	462	6.00	15.17	99%	88%	82%	99%	100%	96%	8	07/07/2009	D8,B3		8	B3	
Pakistan	605	417	130	0	188	318	287	413	77	0	77	336	1.80	0.16	69%	57%	96%	96%	100%	69%	9	30/09/2009	D4				
Palestine	105	100	0	0	5	5	100	104	1	0	1	103	1.25	2.50	95%	62%	93%	100%	100%	100%	9	30/09/2009					
Qatar	98	39	2	0	41	43	55	32	4	0	4	28	43.00	5.50	40%	60%	91%	100%	98%	95%	6	04/06/2009					
Saudi Arabia	258	257	68	0	12	80	178	229	9	0	9	220	3.20	0.71	100%	2%	34%	100%	100%	74%	8	19/08/2009					
Somalia	1402	53	11	0	1349	1360	42	53	8	0	8	45	151.11	0.47	4%	0%	100%	100%	88%	79%	7	06/07/2009					
Sudan	655	489	15	13	18	46	609	488	176	135	311	313	1.12	1.49	96%	81%	68%	100%	100%	97%	9	09/10/2009					
Syria	302	292	19	1	13	33	269	285	2	0	2	275	1.57	1.28	97%	96%	96%	97%	100%	93%	9	28/09/2009	D4		7	D4	
Tunisia	252	243	6	0	10	16	236	239	73	0	73	166	1.60	2.36	96%	85%	85%	100%	100%	98%	5	10/05/2009	B3		5	B3	
UAE	128	105	28	1	22	51	77	77	41	0	41	36	12.75	1.93	83%	67%	90%	100%	99%	73%	9	26/09/2009					
Yemen	636	613	64	0	32	96	540	563	164	0	164	396	4.36	2.45	96%	63%	70%	99%	97%	90%	9	11/10/2009					

Morocco, Pakistan and Somalia figures are derived from sentinel surveillance sites.
 Afghanistan and Iraq are testing large number of samples related to outbreaks leading to shortage of Kits which will impact the indicator results reported within 7 days.
Definition of importation :Case exposed outside the country during the period of 7 to 21 days prior to rash onset; supported by epi and/or virological evidence.
 * excluding Epi-Linked cases.
 ** This figure represents the measles lab confirmed+measles Epi linked +measles clinical cases/per million.
 *** This figure represents the rate of non-measles suspected cases/100,000 population.

Green cells= indicator met.
Yellow cells=indicator not met.
Red cells=missing data for calculating indicator.
Gray cells=no data reported

Cases which have been completely investigated contains:
 -district.
 -Age.
 -Gender.
 -date of onset.
 -known vaccination status.
 -Date last vaccination.
 -Date specimen collected.

Table 3. Measles results by month, EMRO, September 2009

Measles case finding																					Monthly distribution of total measles cases by country during the past 12 Months										
2009																															
01/01/2009 & 30/09/2009																															
Country	Suspects	Tested	Lab-confirmed	Equivocal	EPI-Linked	clinical	Total	Discarded	Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09											
Afghanistan	2786	1376	950	1	855	548	2353	433	40	45	43	173	210	283	350	257	770	224	17	69											
Bahrain	73	73	2	0	0	0	2	71	0	0	0	0	0	1	1	0	0	0	0	0											
Djibouti	34	34	19	1	0	1	20	14	0	0	0	2	1	3	11	2	1	0	0	0											
Iran	1145	1021	104	6	0	130	234	911	7	9	15	12	15	13	18	69	46	34	21	6											
Iraq*	9456	3386	2783	0	6070	10	8863	593	554	451	1	1448	2656	2373	1006	830	320	176	26	28											
Jordan*	67	67	0	0	0	0	0	67	0	0	0	0	0	0	0	0	0	0	0	0											
Egypt	558	528	170	0	30	0	200	358	39	39	40	17	11	28	35	42	46	17	4	0											
Kuwait	743	725	107	0	0	22	129	614	0	2	5	10	7	17	20	20	21	20	0	14											
Lebanon	59	30	3	0	0	26	29	30	4	2	3	2	1	3	6	7	4	6	0	0											
Libya	503	503	325	0	0	0	325	178	0	6	2	23	62	122	40	49	22	3	0	4											
Morocco	611	22	2	0	0	589	591	20	70	49	35	65	44	109	52	94	124	68	35	0											
Oman*	473	467	18	5	0	0	18	455	3	1	0	1	0	3	9	5	0	0	0	0											
Pakistan*	605	417	130	1	0	188	318	287	0	5	0	23	32	41	62	104	14	8	9	25											
Palestine	105	100	0	0	0	5	5	100	0	0	0	0	5	0	0	0	0	0	0	0											
Qatar	98	39	2	0	0	41	43	55	6	5	3	10	9	6	9	9	0	0	0	0											
Saudi Arabia*	258	257	68	11	0	12	80	178	1	1	1	5	8	32	17	6	6	3	3	0											
Somalia	1402	53	11	0	0	1349	1360	42	94	455	286	85	83	127	386	510	166	1	2	0											
Sudan	655	489	15	0	13	18	46	609	9	0	6	9	9	9	4	5	0	1	4	5											
Syria*	302	292	19	5	1	13	33	269	0	0	0	3	8	7	3	8	2	1	1	0											
Tunisia	252	243	6	0	0	10	16	236	0	0	0	2	4	6	0	4	0	0	0	0											
UAE	128	105	28	0	1	22	51	77	3	1	0	3	8	10	9	7	7	4	3	0											
Yemen*	636	613	64	8	0	32	96	540	0	2	0	6	1	18	12	22	15	3	14	5											
Total	20949	10840	4826	38	6970	3016	14812	6137	830	1073	440	1899	3174	3211	2050	2050	1564	569	139	156											

* = Country reported equivocal cases as clinical cases , Red = No report , Total measles is lab confirmed and epilinked and clinically diagnosed measles

Commulative geographic distribution of measles cases in the EMR countries between July and Sept 2009

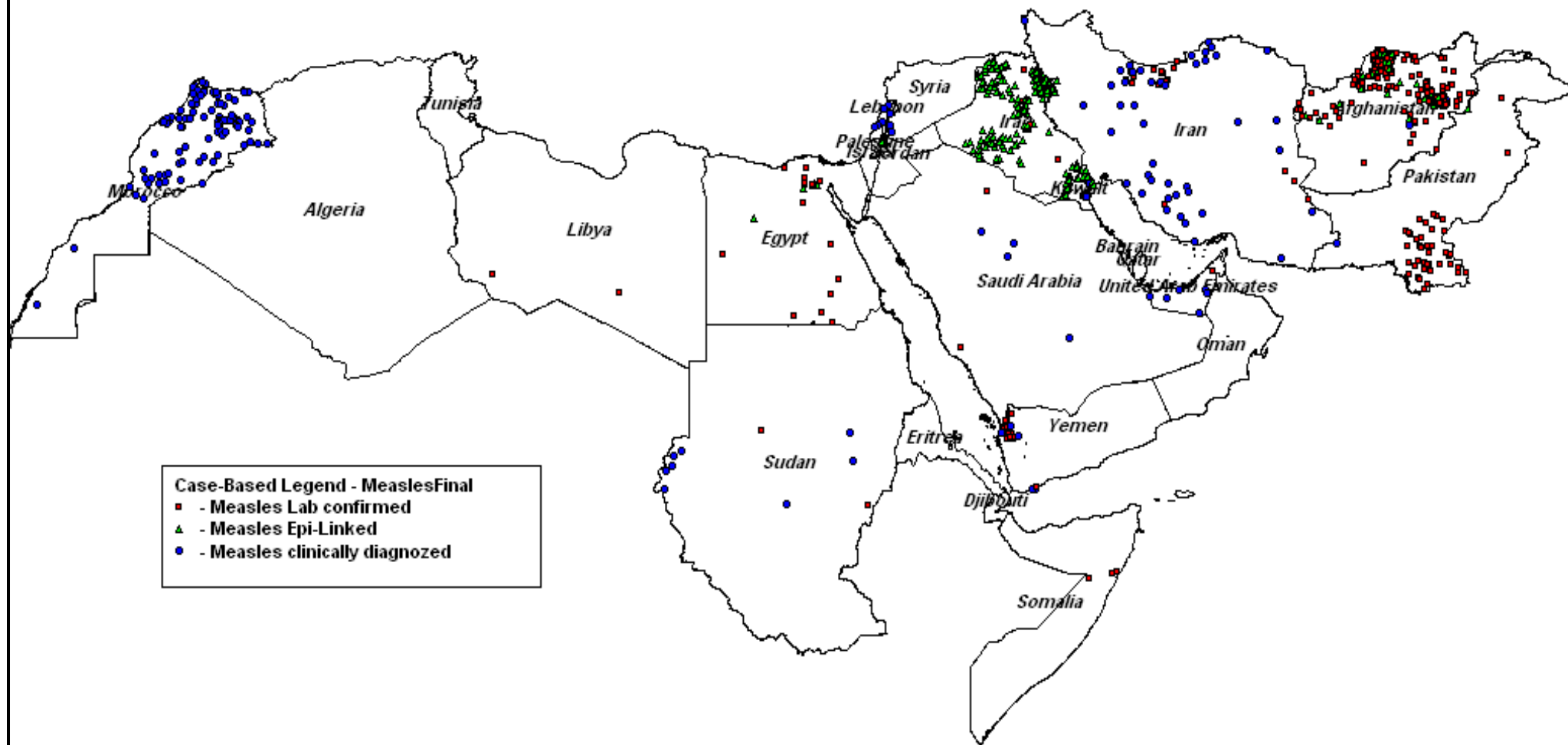


Table 4. Rubella results by month, EMRO, Septemeber 2009

Rubella case finding																		
Country	2009						Monthly distribution of total rubella cases by country during the past 12 Months											
	01/01/2009 & 30/09/2009						Oct-08	Nov-08	Dec-08	Jan-09	Feb-09	Mar-09	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09
	Suspects	Tested	Lab-confirmed	EPI-Linked	Total Rubella	Discarded												
Afghanistan	2786	436	30	0	30	2756	0	1	1	1	1	1	3	4	10	10	1	0
Bahrain	73	73	8	0	8	65	0	1	0	1	0	2	3	0	4	0	0	0
Djibouti	34	16	2	0	2	32	0	0	0	0	0	0	2	0	0	0	0	0
Iran	1145	1016	7	0	7	1138	1	3	1	5	0	0	0	0	0	1	1	0
Iraq	9456	3323	5	0	5	9451	6	4	0	88	18	1	1	0	0	0	0	0
Jordan	67	67	1	0	1	66	0	0	0	0	0	0	0	0	0	0	1	0
Egypt	558	529	10	0	10	548	11	16	5	0	0	3	2	3	2	0	0	0
Kuwait	743	729	25	0	25	718	6	1	0	1	2	10	3	11	1	0	1	1
Lebanon	59	30	1	0	1	58	0	2	0	0	0	0	1	1	0	0	0	0
Libya	503	503	3	0	3	500	0	0	0	0	0	0	3	0	0	0	0	0
Morocco	611	21	0	0	0	611	0	0	0	0	0	0	0	0	0	0	0	0
Oman	473	467	1	0	1	472	2	2	0	1	0	1	1	1	0	0	0	0
Pakistan	605	413	77	0	77	528	1	0	0	1	1	14	23	20	14	3	1	0
Palestine	105	104	1	0	1	104	0	0	0	0	1	0	0	0	0	0	0	0
Qatar	98	32	4	0	4	94	0	0	1	0	0	4	0	0	0	0	0	0
Saudi Arabia	258	229	9	0	9	249	1	0	1	1	0	3	2	2	0	1	0	0
Somalia	1402	53	8	0	8	1394	0	0	0	0	0	8	0	0	0	0	0	0
Sudan	655	488	176	135	311	344	4	14	11	65	87	62	26	14	5	26	14	11
Syria	302	285	2	0	2	300	0	1	1	0	1	2	2	1	2	0	2	0
Tunisia	252	239	73	0	73	179	0	0	0	2	2	15	26	28	0	0	0	0
UAE	128	77	41	0	41	87	0	4	1	0	2	3	28	5	1	1	0	1
Yemen	636	563	164	0	164	472	0	1	2	15	16	29	37	46	13	5	5	1
Total	20949	9693	648	135	783	20166	32	50	24	181	131	158	163	136	52	47	26	14

Total rubella is lab confirmed and epilinked rubella

Commulative geographic distribution of rubella cases in the EMR countries between July and Sept 2009

