



Measles and rubella surveillance summary and data analysis of selected performance indicators - EMR, Week 52 2011

As of December 2011, case-based surveillance with laboratory confirmation of measles and rubella is functional in 23 EMR member states but operating nation wide in 21 countries of the EMR.

A. Measles reported data January to December 2010 and January to December 2011:

Country	Reported cases of measles suspects		No. cases tested for measles		Total Measles cases		Measles Laboratory confirmed		measles incidence		Total Rubella cases	
	2010	2011	2010	2011	2010	2011	2010	2011	2010	2011	2010	2011
Afghanistan	2446	1778	1982	1440	1991	1498	1527	1160	76.87	57.8	46	87
Bahrain	106	142	106	142	0	0	0	0	0.00	0.0	7	3
Djibouti	4	34	4	34	0	18	0	18	0.00	22.0	0	11
Iran	2641	2798	2345	2625	557	171	259	17	7.56	2.3	24	18
Iraq	890	991	823	955	277	15	210	12	8.57	0.5	13	14
Jordan	115	18	115	18	0	0	0	0	0.00	0.0	0	0
Egypt	406	786	406	786	14	26	14	26	0.18	0.3	15	29
Kuwait	571	504	571	445	14	82	14	28	3.85	22.5	25	35
Lebanon	73	61	59	56	21	7	3	1	5.17	1.7	1	1
Libya	180	163	180	163	54	126	54	126	9.64	22.5	31	1
Morocco	1057	986	1023	982	497	446	466	441	17.31	15.5	4	2
Oman	459	735	458	718	3	4	3	4	0.95	1.3	2	1
Pakistan	1807	4007	1804	4007	1011	2675	1008	2675	6.17	16.3	206	211
Palestine	99	58	99	58	2	0	2	0	0.51	0.0	3	0
Qatar	160	185	125	138	98	101	64	60	59.79	61.6	16	15
Saudi Arabia	901	1080	796	830	404	561	296	311	15.92	22.1	30	0
Somalia	627	99	68	99	611	73	47	70	72.39	8.6	0	0
Sudan	1549	6465	1107	1793	604	5616	171	944	15.43	143.4	323	237
Syria	289	281	280	281	9	0	0	0	0.45	0.0	0	2
Tunisia	274	1559	254	1464	0	14	0	6	0.00	1.3	153	1072
UAE	138	288	103	236	77	143	42	89	16.16	30.0	10	31
Yemen	1108	1306	1024	1132	372	847	277	637	16.26	37.0	172	352
South Sudan		643		114		563		38		68.2		80
Total EMR	15900	24967	13732	18516	6616	12986	4457	6663	11.77	23.09	1081	2202

Grey cells = No data reported

B. Surveillance performance indicators:

Measles suspected cases tested between January to December 2011 were 18516 cases compared to 13732 between January to December 2010. The target of 80% of suspected cases tested for measles was met in 20 countries of the 23 countries reported between January to December 2011, 19 countries met this indicator between January to December 2010.

The indicator of 80% of measles cases with complete investigation was met in 18 countries between January to December 2011.

C. Measles Laboratory performance:

The target of 80% and more of the results reported back within 7 days between January to December 2011 was met in 22 countries of the 23 reported countries.

The target of 80% and more of the specimens to be received at the lab within seven days of specimen collection date between January to December 2011 was met in 17 of the 23 reported countries.

The target of 80% and more of the specimens received at the Lab in good condition between January to December 2011 was met in 23 countries of the 23 reported countries.

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

01/01/2011 - 31/12/2011

Country	Measles case finding report							Rubella case finding report					**Measles incidence /1000,000	*** Reporting rate	Indicators : target ≥80%							No. Month reported	last Date reported	Genotypes reported
	Total suspected cases for measles	Number specimens tested for measles	Measles Lab confirmed	Measles Epi-Linked	Measles clinically diagnosed	Total measles	Measles discarded cases	Number of rubella tested	Rubella lab confirmed	Rubella Epi-Linked	Total Rubella	Rubella discarded			*suspects tested for measles	cases with complete investigation	specimens received at the lab within 7days	%specimens with good condition	results reported back within 7days	%specimens measles IgM-ve				
Afghanistan	1778	1440	1160	334	4	1498	280	277	87	0	87	190	57.8	1.1	100%	95%	86%	92%	100%	19%	12	28/12/2011	H1,D4	
Bahrain	142	142	0	0	0	0	142	142	3	0	3	139	0.0	12.8	100%	100%	100%	100%	99%	100%	12	29/12/2011	D8,B3	
Djibouti	34	34	18	0	0	18	16	16	11	0	11	5	22.0	2.0	100%	3%	91%	100%	100%	47%	11	18/11/2011		
Iran	2798	2625	17	0	154	171	2627	2677	18	0	18	2657	2.3	3.6	94%	97%	100%	100%	100%	99%	12	31/12/2011	D4	
Iraq	991	955	12	0	3	15	976	931	14	0	14	917	0.5	3.0	96%	95%	100%	100%	100%	99%	12	31/12/2011		
Jordan	18	18	0	0	0	0	18	18	0	0	0	18	0.0	0.3	100%	100%	78%	100%	100%	100%	5	30/05/2011		
Egypt	786	786	26	0	0	26	760	786	29	0	29	753	0.3	1.0	100%	99%	93%	100%	100%	97%	11	01/12/2011		
Kuwait	504	445	28	0	54	82	422	445	35	0	35	401	22.5	11.6	88%	97%	100%	100%	100%	94%	12	25/12/2011		
Lebanon	61	56	1	0	6	7	54	56	1	0	1	51	1.7	1.3	92%	95%	82%	100%	100%	98%	11	02/11/2011	B3	
Libya	163	163	126	0	0	126	37	163	1	0	1	160	22.5	0.7	100%	100%	19%	100%	100%	23%	11	17/11/2011		
Morocco	986	982	441	0	5	446	540	963	2	0	2	954	15.5	1.9	100%	77%	87%	100%	97%	55%	12	22/12/2011	D4	
Oman	735	718	4	0	0	4	731	718	1	0	1	705	1.3	23.0	98%	100%	86%	99%	100%	99%	12	07/12/2011	D8,B3	
Pakistan	4007	4007	2675	0	0	2675	1332	4007	211	0	211	3796	16.3	0.8	100%	99%	88%	100%	100%	33%	12	25/12/2011	H1,B3,D4	
Palestine	58	58	0	0	0	0	58	57	0	0	0	57	0.0	1.5	100%	95%	88%	100%	96%	100%	12	04/12/2011		
Qatar	185	138	60	0	41	101	84	134	15	0	15	119	61.6	5.1	75%	100%	82%	100%	99%	57%	9	03/10/2011		
Saudi Arabia	1080	830	311	0	250	561	519	1	0	0	0	1	22.1	2.0	77%	90%	55%	100%	81%	63%	12	31/12/2011	B3,D8,D4	
Somalia	99	99	70	3	0	73	26	83	0	0	0	82	8.6	0.3	103%	59%	71%	100%	100%	29%	12	28/12/2011	B3	
Sudan	6465	1793	944	4641	31	5616	849	1784	237	0	237	1393	143.4	2.2	98%	94%	94%	100%	100%	47%	12	31/12/2011	B3	
Syria	281	281	0	0	0	0	281	281	2	0	2	272	0.0	1.4	100%	99%	95%	100%	99%	100%	11	17/11/2011		
Tunisia	1559	1464	6	0	8	14	1545	1473	994	78	1072	479	1.3	14.8	99%	79%	100%	100%	100%	100%	10	19/10/2011		
UAE	288	236	89	2	52	143	145	131	31	0	31	100	30.0	3.0	83%	15%	95%	100%	97%	62%	11	12/11/2011		
Yemen	1306	1132	637	51	159	847	459	1132	350	2	352	786	37.0	2.0	90%	100%	69%	100%	97%	44%	10	03/11/2011		
South Sudan	643	114	38	0	525	563	80	78	65	15	80	1	68.2	1.0	18%	99%	48%	100%	24%	67%	9	05/09/2011		

"Individual equivocal cases of measles and rubella added in total cases are described in the following pages.
 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 clinically compatible 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

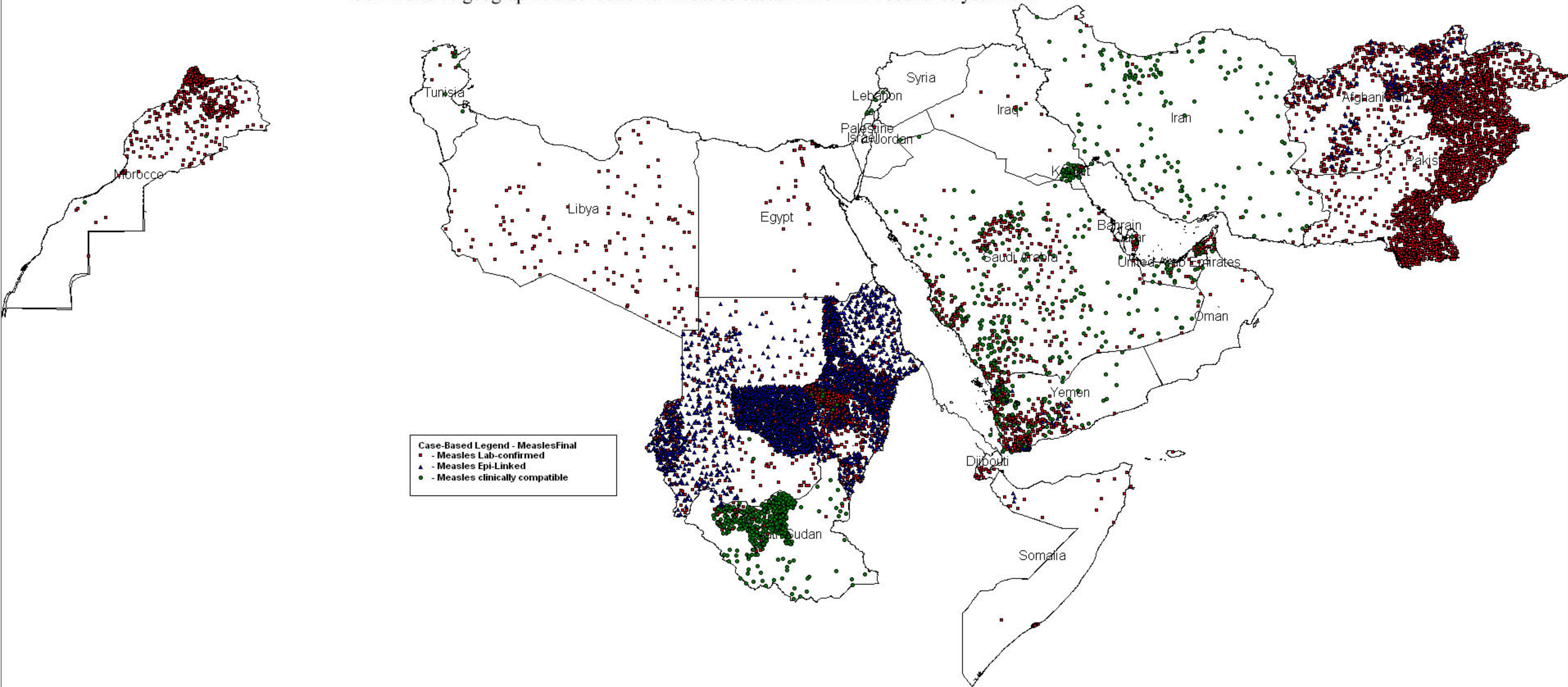
Cases which have been completely investigated contains:
 -district.
 -Age.
 -Gender.
 -date of onset.
 -known vaccination status.
 -Date last vaccination.
 -Date specimen collected.

Measles case finding and distribution by Month

Between 01/01/2011 and 31/12/2011

Country	Total Suspected cases for	Total specimens collected	Measles Lab confirmed	Measles Equivocals	Vaccine related	Measles Epi-Linked	Measles clinically compatible	Total Measles	January	February	March	April	May	June	July	August	September	October	November	December
Afghanistan	1778	1440	1160	1	0	334	4	1498	69	119	299	336	231	166	123	50	23	1	27	54
Bahrain	142	142	0	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Djibouti	34	34	18	0	0	0	0	18	0	0	0	0	0	6	0	7	0	0	5	0
Iran	2798	2625	17	1	0	0	154	171	8	12	8	9	21	18	9	13	11	16	43	3
Iraq	991	955	11	0	0	0	3	14	1	0	2	2	1	1	3	1	1	0	0	2
Jordan	18	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	786	786	24	0	4	0	0	24	6	1	2	1	6	2	2	2	0	2	0	0
Kuwait	504	445	28	0	9	0	54	82	8	4	9	20	21	2	7	5	4	2	0	0
Lebanon	61	56	1	1	1	0	6	7	1	1	0	0	2	1	0	1	0	1	0	0
Libya	163	163	126	0	0	0	0	126	1	3	3	41	60	15	0	0	3	0	0	0
Morocco	986	982	441	1	0	0	5	446	34	60	118	104	41	11	2	4	6	28	25	13
Oman	735	718	4	8	11	0	0	4	1	1	0	0	1	0	0	0	0	0	1	0
Pakistan	4007	4007	2675	0	0	0	0	2675	158	261	371	462	611	247	36	78	54	89	145	163
Palestine	58	58	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Qatar	185	138	60	1	0	0	41	101	9	13	22	18	13	15	7	2	2	0	0	0
Saudi Arabi	1080	830	311	0	0	0	250	561	29	44	59	60	51	42	39	21	46	66	57	47
Somalia	99	99	70	0	0	3	0	75	0	8	0	0	0	0	0	28	3	26	6	2
Sudan	6465	1793	944	0	0	4641	31	5616	281	805	1346	730	779	467	240	48	148	214	178	380
Syria	281	281	0	0	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tunisia	1559	1464	6	0	0	0	8	14	0	1	0	4	5	4	0	0	0	0	0	0
UAE	288	236	89	1	0	2	52	143	0	20	59	19	15	18	5	0	3	1	3	0
Yemen	1306	1132	438	86	0	51	159	648	85	128	57	36	41	45	59	22	105	70	0	0
South Suda	643	114	38	11	0	0	525	563	124	106	54	61	79	123	13	2	1	0	0	0
Grand Total	24967	18516	6461	112	41	5031	1292	12786	815	1587	2409	1903	1978	1183	545	284	410	516	490	664

Commulative geographic distribution of Measles cases in the EMR countries year 2011



Rubella case finding and distribution by Month

Between 01/01/2011 and 31/12/2011

Country	Total Suspected cases for measles/Rubella	Rubella specimens tested	Rubella Lab confirmed	Rubella equivocal	Vaccine related	Rubella Epi-Linked	Total rubella	January	February	March	April	May	June	July	August	September	October	November	December
Afghanistan	1778	277	87	0	0	0	87	3	7	21	21	22	7	3	0	0	0	0	3
Bahrain	142	142	3	0	3	0	3	0	0	2	0	0	1	0	0	0	0	0	0
Djibouti	34	16	11	0	0	0	11	0	0	0	0	0	0	0	0	0	0	11	0
Iran	2798	2677	18	2	0	0	18	1	0	4	0	1	1	3	3	3	2	0	0
Iraq	991	931	13	0	0	0	13	0	2	1	0	2	2	1	1	1	3	0	0
Jordan	18	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	786	786	27	0	4	0	27	2	0	4	8	5	3	5	0	0	0	0	0
Kuwait	504	445	35	0	9	0	35	6	9	5	8	2	3	1	1	0	0	0	0
Lebanon	61	56	1	3	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0
Libya	163	163	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0
Morocco	986	963	2	4	0	0	2	0	0	0	1	0	0	0	0	0	1	0	0
Oman	735	718	1	3	11	0	1	0	0	0	0	1	0	0	0	0	0	0	0
Pakistan	4007	4007	211	0	0	0	211	3	11	25	56	77	32	2	2	1	0	1	1
Palestine	58	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Qatar	185	134	15	0	0	0	15	1	1	1	2	5	3	1	1	0	0	0	0
Saudi Arabia	1080	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Somalia	99	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	6465	1784	237	0	0	0	237	39	63	51	16	17	10	4	5	5	9	5	13
Syria	281	281	2	2	13	0	2	0	0	0	1	0	1	0	0	0	0	0	0
Tunisia	1559	1473	994	0	0	78	1072	12	23	89	244	408	231	46	11	5	3	0	0
UAE	288	131	31	0	0	0	31	0	1	5	5	12	8	0	0	0	0	0	0
Yemen	1306	1132	151	0	0	2	153	12	19	32	45	21	3	5	1	13	2	0	0
South Sudan	643	78	65	12	0	15	80	10	12	24	11	16	7	0	0	0	0	0	0
Grand Total	24967	16353	1905	26	41	95	2000	89	148	264	420	589	312	71	25	28	20	17	17

Commulative geographic distribution of Rubella cases in the EMR countries year 2011

