



## Measles and rubella surveillance summary and data analysis of selected performance indicators -EMR, Week 53 2012

As of December 2012, 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 2011 and January to December 2012:

Country	Reported cases of measles suspects		No.cases tested for measles		Total Measles cases		Measles Laboratory confirmed		measles incidence		Total Rubella cases	
	2011	2012	2011	2012	2011	2012	2011	2012	2011	2012	2011	2012
Afghanistan	2128	4268	2128	3519	1505	2800	1373	2639	56.79	105.7	103	94
Bahrain	142	231	142	231	9	0	9	0	7.29	0.0	3	4
Djibouti	34	16	34	8	18	7	18	7	20.81	8.1	11	0
Iran	2798	4114	2625	3836	171	224	17	221	2.17	2.8	18	29
Iraq	991	1168	955	1157	27	23	24	23	0.81	0.7	14	20
Jordan	18	66	18	66	0	3	0	3	0.00	0.5	0	2
Egypt	786	1197	786	1045	28	245	28	97	0.35	3.0	33	35
Kuwait	504	460	445	438	91	27	37	27	25.06	7.4	44	13
Lebanon	61	48	56	40	8	9	2	1	1.88	2.1	2	1
Libya	163	489	163	476	126	320	126	311	21.68	55.1	3	1
Morocco	1005	656	1000	652	456	291	451	291	14.14	9.0	6	3
Oman	736	691	719	687	15	3	15	3	4.73	0.9	10	2
Pakistan	3983	18245	3983	10888	2665	8046	2665	8046	15.05	45.4	205	483
Palestine	73	157	73	157	0	0	0	0	0.00	0.0	0	1
Qatar	185	585	138	564	101	160	60	154	58.28	92.3	15	29
Saudi Arabia	1143	932	893	921	587	281	337	281	20.69	9.9	2	17
Somalia	99	217	99	215	73	141	69	122	8.39	16.2	1	0
Sudan	6465	9467	1793	2775	5612	8523	940	1899	171.77	260.9	391	191
Syria	281	310	281	310	15	13	15	13	0.71	0.6	7	1
Tunisia	1564	1060	1466	949	14	48	6	46	1.33	4.6	999	537
UAE	288	272	236	272	143	126	89	76	17.30	15.2	31	17
Yemen	1306	2961	1132	1455	806	2177	597	693	35.23	95.2	348	199
South Sudan	643	2048	114	228	563	147	38	121	68.16	17.8	65	20
<b>Total EMR</b>	<b>25396</b>	<b>49658</b>	<b>19279</b>	<b>30889</b>	<b>13033</b>	<b>23614</b>	<b>6916</b>	<b>15074</b>	<b>20.37</b>	<b>37.5</b>	<b>2311</b>	<b>1699</b>

### B. Surveillance performance indicators:

Measles suspected cases tested between January to December 2012 were 30889 cases compared to 19279 between January to December 2011. The target of 80% of suspected cases tested for measles was met in 20 countries of the 23 countries reported between January to December 2012, 20 countries met this indicator between January to December 2011.

The indicator of 80% of measles cases with complete investigation was met in 17 countries between January to December 2012.

### C. Measles Laboratory performance:

The target of 80% and more of the results reported back within 4 days between January to December 2012 was met in 20 countries of the 23 reported countries.

The target of 80% and more of the specimens to be received at the lab within 5 days of specimen collection date between January to December 2012 was met in 14 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

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

01/01/2012 - 31/12/2012

Country	Measles case finding report							Rubella case finding report					**Measles incidence /100,000	*** Reporting rate	Indicators : target ≥80%					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 5days	%specimens with good condition	results reported back within 4days		
Afghanistan	4268	3519	2639	161	0	2800	1468	872	94	0	94	778	105.7	5.5	86%	10%	73%	90%	100%	31/12/2012	B3
Bahrain	231	231	0	0	0	0	231	231	4	0	4	227	0.0	18.7	100%	100%	100%	100%	97%	29/12/2012	D9 B3
Djibouti	16	8	7	0	0	7	9	1	0	0	0	1	8.1	1.0	50%	6%	88%	100%	100%	03/02/2012	
Iran	4114	3836	221	2	1	224	3890	3833	29	0	29	3804	2.8	4.9	93%	80%	72%	100%	100%	31/12/2012	B3, D4, H1
Iraq	1168	1157	23	0	0	23	1145	1128	20	0	20	1108	0.7	3.4	99%	72%	81%	100%	99%	28/12/2012	
Jordan	66	66	3	0	0	3	63	66	2	0	2	64	0.5	1.0	100%	100%	82%	100%	95%	29/10/2012	B3
Egypt	1197	1045	97	148	0	245	952	1046	35	0	35	1011	3.0	1.2	100%	100%	90%	100%	100%	28/12/2012	B3
Kuwait	460	438	27	0	0	27	433	438	13	0	13	425	7.4	11.9	95%	67%	81%	100%	90%	30/12/2012	B3
Lebanon	48	40	1	0	8	9	39	37	1	0	1	36	2.1	0.9	83%	100%	85%	100%	95%	31/12/2012	D8
Libya	489	476	311	0	9	320	169	480	1	0	1	479	55.1	2.9	97%	100%	72%	100%	100%	15/12/2012	B3
Morocco	656	652	291	0	0	291	365	636	3	0	3	633	9.0	1.1	99%	88%	82%	100%	96%	31/12/2012	D4
Oman	691	687	3	0	0	3	688	678	2	0	2	676	0.9	21.7	99%	97%	70%	99%	100%	31/12/2012	D4
Pakistan	18245	10888	8046	0	0	8046	10199	10274	483	0	483	9791	45.4	5.8	60%	97%	65%	100%	5%	31/12/2012	B3, D4
Palestine	157	157	0	0	0	0	157	157	1	0	1	156	0.0	3.8	100%	97%	81%	100%	99%	29/12/2012	
Qatar	585	564	154	6	0	160	425	544	29	0	29	515	92.3	24.5	97%	100%	89%	100%	100%	31/12/2012	B3
Saudi Arabia	932	921	281	0	0	281	651	628	17	0	17	611	9.9	2.3	99%	11%	95%	100%	98%	26/12/2012	
Somalia	217	215	122	2	17	141	76	211	0	0	0	211	16.2	0.9	100%	100%	70%	100%	100%	27/10/2012	B3
Sudan	9467	2775	1899	6562	62	8523	944	3017	189	2	191	2828	260.9	2.9	96%	100%	89%	100%	99%	30/12/2012	B3
Syria	310	310	13	0	0	13	297	310	1	0	1	309	0.6	1.4	100%	99%	81%	100%	99%	28/12/2012	
Tunisia	1060	949	46	2	0	48	1012	945	487	50	537	458	4.6	9.6	94%	81%	39%	100%	98%	31/12/2012	
UAE	272	272	76	3	47	126	146	145	17	0	17	128	15.2	1.8	101%	81%	93%	100%	100%	31/12/2012	B3 H1
Yemen	2961	1455	693	1466	18	2177	784	1383	197	2	199	1186	95.2	3.4	97%	90%	44%	95%	47%	31/12/2012	B3
South Sudan	2048	228	121	7	19	147	1901	79	20	0	20	59	17.8	23.0	11%	75%	39%	92%	73%	25/12/2012	

"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.

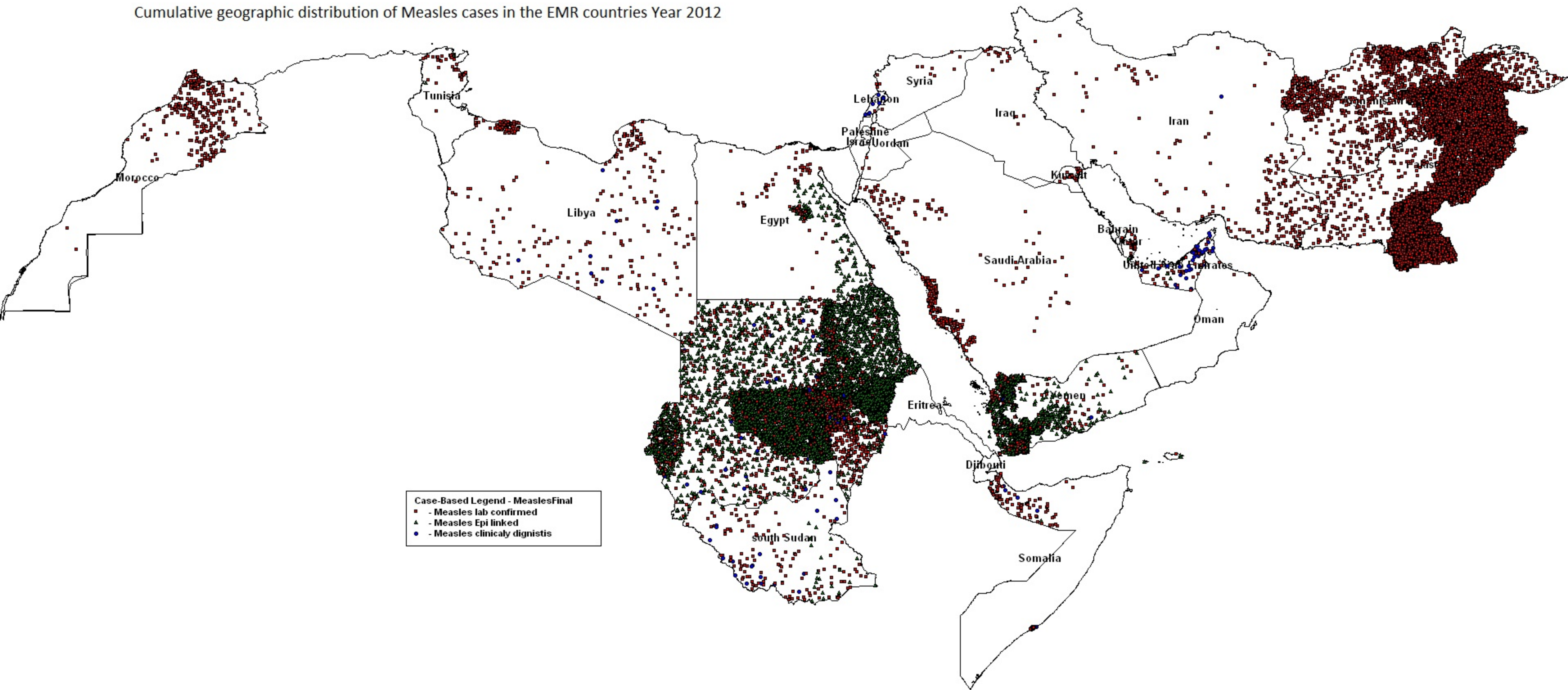
# Measles case finding and distribution by Month

Between 01/01/2012 and 31/12/2012

Country	Total Suspected cases for measles	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
Afghanista	4268	3519	2639	0	0	161	0	2800	376	438	393	353	359	311	241	78	46	95	57	53
Bahrain	231	230	0	1	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Djibouti	16	8	7	0	0	0	0	7	7	0	0	0	0	0	0	0	0	0	0	0
Iran	4114	3836	221	0	0	2	1	223	2	3	17	30	53	16	27	14	15	7	14	25
Iraq	1168	1146	23	0	13	0	0	23	0	0	1	0	0	0	0	1	4	7	1	9
Jordan	66	65	3	1	2	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0
Egypt	1197	1045	97	0	5	148	0	245	0	20	32	138	30	6	6	4	4	2	1	2
Kuwait	460	434	27	0	1	0	0	27	0	0	1	2	0	1	5	4	7	4	3	0
Lebanon	48	40	1	0	0	0	8	1	0	1	0	0	0	0	0	0	0	0	0	0
Libya	489	440	311	36	0	0	9	311	0	18	48	108	58	23	24	20	8	1	0	3
Morocco	656	631	291	21	0	0	0	291	35	41	40	43	66	28	15	6	0	2	4	11
Oman	691	677	3	0	0	0	0	3	0	1	0	0	1	1	0	0	0	0	0	0
Pakistan	18245	10888	8046	0	0	0	0	8046	428	599	809	745	849	618	450	490	443	568	721	1326
Palestine	157	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Qatar	585	555	154	1	10	6	0	160	2	6	7	3	26	29	26	11	4	21	9	16
Saudi Arabi	932	910	281	0	0	0	0	281	39	40	37	34	28	38	27	6	13	11	4	4
Somalia	217	199	122	16	5	2	17	124	9	30	16	41	1	13	8	3	1	2	0	0
Sudan	9467	2759	1899	0	0	6562	62	8461	581	1032	1034	830	1463	988	420	717	776	260	285	75
Syria	310	310	13	0	21	0	0	13	0	0	0	0	0	0	0	0	0	0	5	8
Tunisia	1060	942	46	0	0	2	0	48	3	1	2	6	14	10	3	5	3	1	0	0
UAE	272	218	76	0	0	3	47	79	9	2	7	4	2	7	7	2	0	1	8	30
Yemen	2961	1446	693	9	7	1466	18	2159	659	485	331	112	226	211	25	24	2	1	12	71
South Suda	2048	219	121	0	0	7	19	128	3	18	13	24	19	18	7	0	1	14	2	9
<b>Grand Total</b>	<b>49658</b>	<b>30674</b>	<b>15074</b>	<b>85</b>	<b>70</b>	<b>8359</b>	<b>181</b>	<b>23433</b>	<b>2153</b>	<b>2735</b>	<b>2791</b>	<b>2473</b>	<b>3195</b>	<b>2318</b>	<b>1291</b>	<b>1385</b>	<b>1327</b>	<b>997</b>	<b>1126</b>	<b>1642</b>

 Not reported

Cumulative geographic distribution of Measles cases in the EMR countries Year 2012



# Rubella case finding and distribution by Month

Between 01/01/2012 and 31/12/2012

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	4268	872	91	0	0	1	92	18	23	18	9	11	4	6	0	0	1	1	1
Bahrain	231	231	4	1	6	0	4	0	1	0	1	0	1	1	0	0	0	0	0
Djibouti	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iran	4114	3833	25	0	0	4	29	2	2	1	1	4	6	3	2	1	3	3	1
Iraq	1168	1128	13	0	13	0	13	0	1	0	3	2	1	1	0	0	3	1	1
Jordan	66	66	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	1197	1046	33	0	5	0	33	2	1	3	3	6	1	5	1	5	3	1	2
Kuwait	460	438	13	0	1	0	13	0	4	1	2	1	1	1	0	1	0	2	0
Lebanon	48	37	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0
Libya	489	480	1	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0
Morocco	656	636	2	11	0	0	2	0	0	0	1	0	0	0	0	0	0	0	1
Oman	691	678	2	0	0	0	2	0	0	0	0	0	0	0	0	2	0	0	0
Pakistan	18245	10274	459	0	0	0	459	16	31	71	63	86	52	25	25	28	19	15	28
Palestine	157	157	1	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0
Qatar	585	544	20	0	10	0	20	1	0	2	1	4	3	1	3	0	3	0	2
Saudi Arabia	932	628	17	0	0	0	17	1	3	2	1	2	0	2	1	1	3	1	0
Somalia	217	211	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	9467	3017	189	0	0	2	191	58	36	36	12	13	11	2	4	3	4	7	5
Syria	310	310	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tunisia	1060	945	483	0	0	50	533	36	80	112	95	59	40	33	12	16	14	18	18
UAE	272	145	17	0	0	0	17	0	0	0	2	3	0	6	3	0	1	1	1
Yemen	2961	1383	168	55	7	6	174	8	8	31	28	35	12	5	1	3	3	9	31
South Sudan	2048	79	4	0	0	0	4	0	0	0	0	0	0	0	0	0	0	3	1
<b>Grand Total</b>	<b>49658</b>	<b>27139</b>	<b>1543</b>	<b>71</b>	<b>70</b>	<b>63</b>	<b>1606</b>	<b>142</b>	<b>191</b>	<b>277</b>	<b>222</b>	<b>226</b>	<b>133</b>	<b>92</b>	<b>52</b>	<b>60</b>	<b>57</b>	<b>62</b>	<b>92</b>



Not reported

Cumulative geographic distribution of Rubella cases in the EMR countries Year 2012

