

Measles and rubella surveillance summary and data analysis of selected performance indicators -EMR, Week 52 2014

As of December 2014, case-based surveillance with laboratory confirmation of measles and rubella is functional in 22 EMR member states but operating nation wide in 21 countries of the EMR (Somalia is sentinel site surveillance).

A. Measles reported data January to December 2013 and January to December 2014:

Country	Reported cases of measles suspects		No.cases tested for measles		Total Measles cases		Measles Laboratory confirmed		Measles incidence		Total Rubella cases	
	2013	2014	2013	2014	2013	2014	2013	2014	2013	2014	2013	2014
Afghanistan	792	1213	775	1063	430	552	413	492	16.23	20.8	18	46
Bahrain	268	820	268	820	0	0	0	0	0.00	0.0	2	3
Djibouti*	0	6	0	6	0	6	0	6	0.00	6.9	0	0
Iran	3974	3830	3762	3639	127	60	117	38	1.61	0.8	20	14
Iraq	1861	2331	1728	1762	705	1159	584	820	21.22	34.9	14	18
Jordan	248	132	248	132	119	10	119	10	19.47	1.6	4	1
Egypt	1518	3837	1388	2877	412	2274	290	1314	5.12	28.3	33	21
Kuwait**	416		301		63		61		17.35		4	
Lebanon	2025	362	1211	221	1753	230	896	101	411.21	54.0	5	3
Libya	227	236	226	236	164	176	163	176	28.22	30.3	5	5
Morocco	355	228	352	215	61	11	61	11	1.89	0.3	58	2
Oman	862	1206	846	1171	0	14	0	14	0.00	4.4	0	0
Pakistan	10946	2579	10946	2579	8030	1370	8030	1370	45.34	7.7	837	320
Palestine	179	183	179	183	0	0	0	0	0.00	0.0	0	0
Qatar	396	263	391	261	68	46	68	45	39.24	26.5	58	20
Saudi Arabia	1143	839	1143	808	251	153	251	152	8.85	5.4	66	23
Somalia	316	1024	297	212	228	989	218	171	26.21	113.7	0	2
Sudan	3936	2778	2035	2552	2810	676	964	527	86.01	20.7	293	815
Syria	619	1299	553	1042	401	594	401	337	18.98	28.1	1	5
Tunisia	271	200	268	178	17	16	17	15	1.61	1.5	15	17
UAE	614	556	496	504	310	344	239	292	37.51	41.6	7	9
Yemen	3672	4289	3145	3406	571	813	154	266	24.96	35.5	845	1165
South Sudan***	620		224		517		157		62.59		25	
Total EMR	35258	28211	30782	23867	17037	9493	13203	6157	28.40	14.4	2310	2489

B. Surveillance performance indicators:

Measles suspected cases tested between January to December 2014 were 23867 cases compared to 30782 between January to December 2013. The target of 80% of suspected cases tested for measles and rubella was met in 19 countries of the 21 countries reported between January to December 2013, 19 countries met this indicator between January to December 2014.

The indicator of 80% of measles cases with complete investigation was met in 17 countries between January to December 2014.

C. Measles Laboratory performance:

The target of 80% and more of the results reported back within 4 days between January to December 2014 was met in 15 countries of the 21 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 2014 was met in 9 of the 21 reported countries.

The target of 80% and more of the specimens received at the Lab in good condition between January to December 2014 was met in 21 countries of the 21 reported countries.

Notes:

*Djibouti reported only Measles data of outbreak in June 2014

**Kuwait did not report in 2014

***South Sudan stop reporting from October 2013 and subsequently moved to AFRO region.

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

01/01/2014 - 31/12/2014

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 compatible	Total measles	Measles discarded cases	Number of rubella tested	Rubella lab confirmed	Rubella Epi-Linked	Total Rubella	Rubella discarded			*suspect s tested for measles	cases with complete investigation	specimens recieved at the lab within 5days	%specimens with good condition	results reported back within 4days		
Afghanistan	1213	1063	492	60	0	552	661	635	46	0	46	589	20.8	2.3	92%	0%	44%	94%	82%	31/12/2014	B3
Bahrain	820	820	0	0	0	0	820	820	3	0	3	817	0.0	66.2	100%	100%	100%	100%	100%	30/12/2014	D4,D8,B3 imp.
Djibouti	6	6	6	0	0	6	0	0	0	0	0	0	6.9		100%	100%	100%	100%	100%	20/06/2014	
Iran	3830	3639	38	0	22	60	3770	3639	14	0	14	3625	0.8	4.8	95%	99%	98%	100%	84%	31/12/2014	B3, D8
Iraq	2331	1762	820	339	0	1159	1172	1807	16	2	18	1789	34.9	3.5	89%	66%	58%	100%	93%	31/12/2014	D8
Jordan	132	132	10	0	0	10	122	130	1	0	1	129	1.6	2.0	100%	62%	83%	98%	88%	20/12/2014	D8
Egypt	3837	2877	1314	875	85	2274	1563	2877	21	0	21	2856	28.3	1.9	97%	100%	89%	100%	22%	31/12/2014	B3
Lebanon	362	221	101	11	118	230	132	75	3	0	3	72	54.0	3.0	63%	96%	32%	100%	97%	27/12/2014	D8
Libya	236	236	176	0	0	176	60	236	5	0	5	231	30.3	0.9	100%	92%	19%	100%	48%	30/09/2014	B3
Morocco	228	215	11	0	0	11	217	209	2	0	2	207	0.3	0.7	94%	96%	78%	100%	73%	29/12/2014	D4
Oman	1206	1171	14	0	0	14	1192	932	0	0	0	932	4.4	37.6	97%	99%	74%	100%	95%	31/12/2014	B3, D4, D8
Pakistan	2579	2579	1370	0	0	1370	1209	2579	320	0	320	2259	7.7	0.5	100%	89%	65%	100%	94%	31/12/2014	B3
Palestine	183	183	0	0	0	0	183	147	0	0	0	147	0.0	4.4	100%	99%	85%	100%	93%	28/12/2014	
Qatar	263	261	45	1	0	46	217	239	20	0	20	219	26.5	11.4	100%	97%	80%	100%	77%	30/12/2014	
Saudi Arabia	839	808	152	0	1	153	686	808	23	0	23	785	5.4	2.3	96%	100%	59%	97%	100%	30/12/2014	B3
Somalia	1024	212	171	2	816	989	35	165	2	0	2	163	113.7	0.4	21%	99%	77%	100%	95%	30/12/2014	B3
Sudan	2778	2552	527	143	6	676	2102	2550	759	56	815	1735	20.7	3.9	99%	100%	86%	100%	95%	31/12/2014	B3
Syria	1299	1042	337	253	4	594	705	733	5	0	5	728	28.1	3.3	100%	99%	59%	100%	98%	29/12/2014	D8
Tunisia	200	178	15	1	0	16	184	189	17	0	17	172	1.5	1.6	89%	77%	77%	100%	53%	20/12/2014	
UAE	556	504	292	12	40	344	212	212	9	0	9	203	41.6	2.5	93%	99%	87%	100%	80%	30/12/2014	D8
Yemen	4289	3406	266	441	106	813	3476	3406	938	227	1165	2241	35.5	10.1	94%	98%	71%	99%	26%	31/12/2014	B3

"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/non-Rubella 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.

Countries that did not report

Kuwait

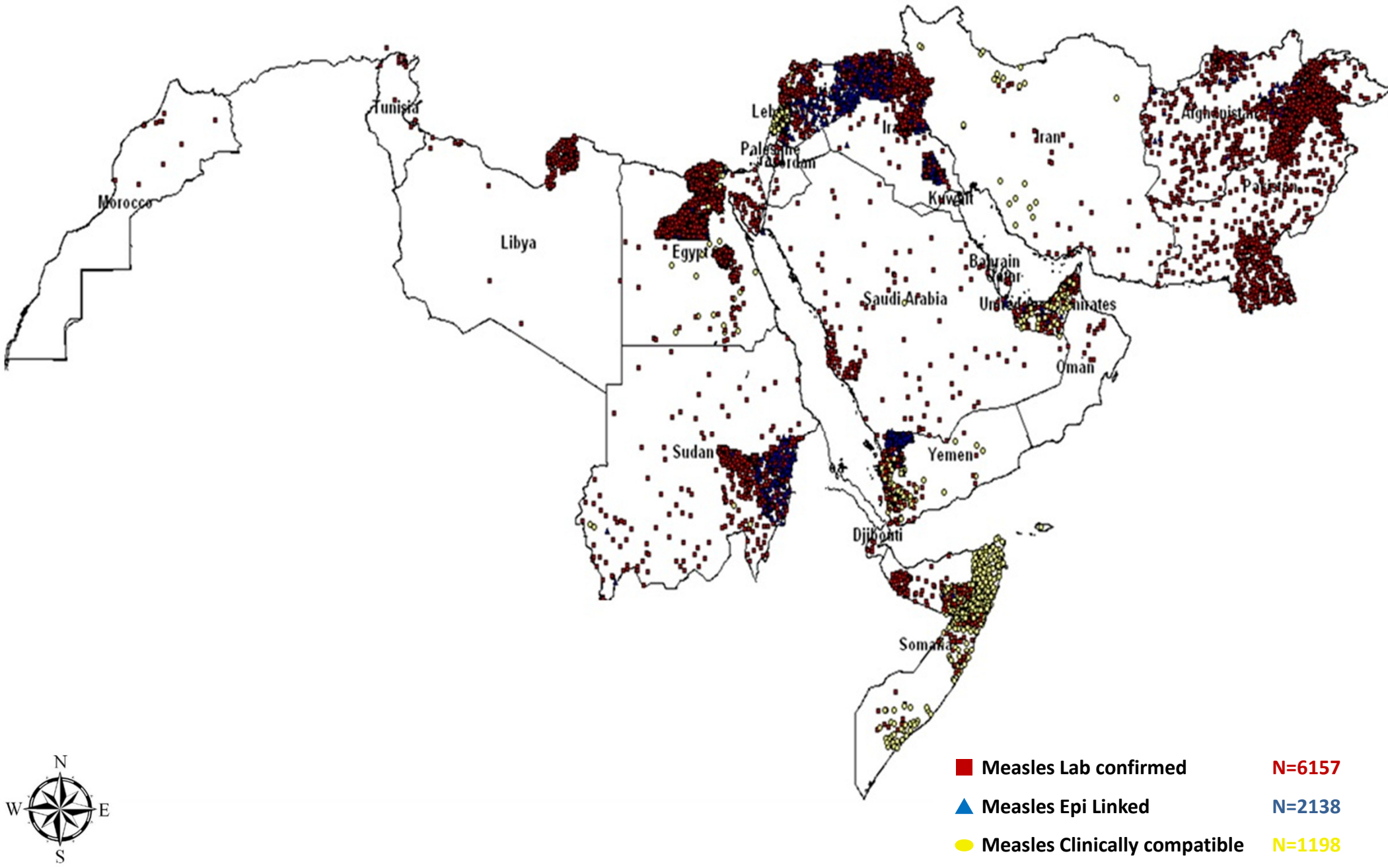
Djibouti reported only Measles data of outbreak in June 2014

Measles case finding and distribution by Month

Between 01/01/2014 and 31/12/2014

Country	Total Suspected cases for measles	Measles specimens tested	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	1213	1063	492	0	0	60	0	552	69	70	46	29	79	43	47	11	39	27	32	60
Bahrain	820	820	0	6	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Djibouti	6	6	6	0	0	0	0	6	0	0	0	0	0	6	0	0	0	0	0	0
Iran	3830	3639	38	0	110	0	22	60	0	0	2	9	8	6	9	5	7	4	2	8
Iraq	2331	1809	820	0	0	339	0	1159	30	55	144	192	366	72	23	35	43	37	53	109
Jordan	132	132	10	3	2	0	0	10	0	4	1	0	3	0	1	0	0	1	0	2
Egypt	3837	2877	1314	0	10	875	85	2274	50	45	132	189	204	178	136	183	143	106	226	682
Lebanon	362	221	101	11	0	11	118	230	20	41	45	59	24	20	13	2	6	0	0	0
Libya	236	236	176	18	0	0	0	176	50	0	48	37	32	8	1	0	0	0	0	0
Morocco	228	215	11	3	0	0	0	11	1	0	0	2	0	2	4	1	1	0	0	0
Oman	1206	1171	14	15	39	0	0	14	0	0	0	0	0	0	0	0	7	6	1	0
Pakistan	2579	2579	1370	0	0	0	0	1370	106	91	184	405	292	158	20	21	20	28	19	26
Palestine	183	183	0	6	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Qatar	263	261	45	12	1	1	0	46	4	8	4	10	7	5	2	0	1	2	2	1
Saudi Arabi	839	808	152	0	2	0	1	153	16	21	20	17	16	8	3	7	4	13	12	16
Somalia	1024	212	171	5	0	2	816	989	43	92	248	128	224	118	64	6	15	46	1	4
Sudan	2778	2552	527	4	0	143	6	676	16	30	29	56	48	24	23	27	48	42	106	227
Syria	1299	1042	337	21	44	253	4	594	45	57	82	106	139	117	30	12	1	1	1	3
Tunisia	200	183	15	0	0	1	0	16	1	4	0	2	1	0	1	1	0	2	3	1
UAE	556	504	292	1	0	12	40	344	37	24	57	60	57	33	20	9	18	14	5	10
Yemen	4289	3406	266	38	0	441	106	813	134	121	238	80	40	62	26	29	19	33	31	4
Grand Total	28211	23919	6157	143	229	2138	1198	9493	622	663	1280	1381	1540	860	423	349	372	362	494	1153

Cumulative geographic distribution of Measles cases in the EMR countries January-December 2014

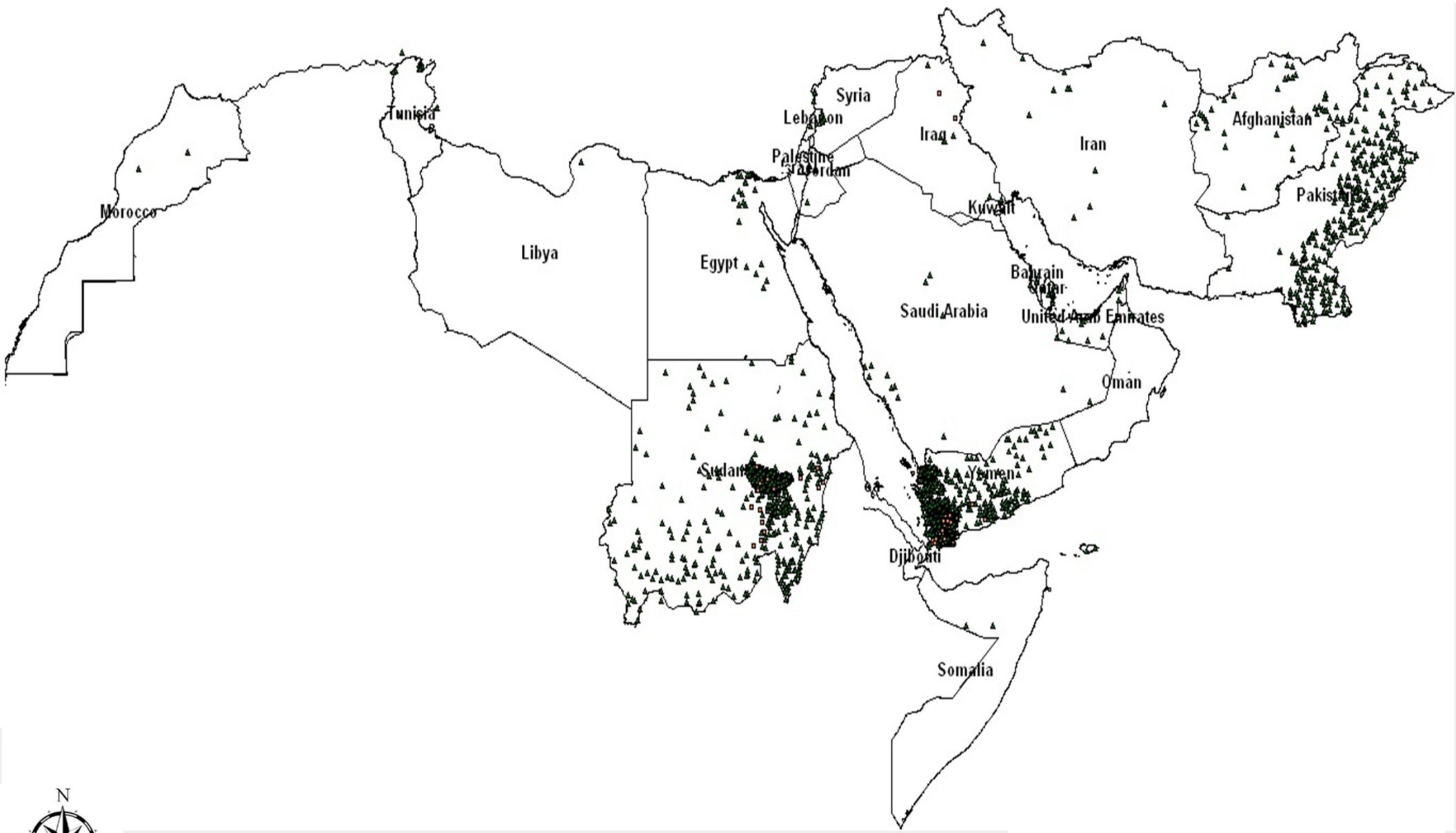


Rubella case finding and distribution by Month

Between 01/01/2014 and 31/12/2014

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	1213	635	46	0	0	0	46	2	2	1	4	8	9	7	1	2	5	2	3
Bahrain	820	820	3	8	10	0	3	0	0	0	2	1	0	0	0	0	0	0	0
Djibouti	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iran	3830	3639	14	0	110	0	14	1	4	1	5	0	2	0	1	0	0	0	0
Iraq	2331	1807	16	0	0	2	18	0	3	5	2	2	1	2	1	1	0	0	1
Jordan	132	130	1	0	2	0	1	0	0	0	0	0	0	0	0	1	0	0	0
Egypt	3837	2877	21	0	10	0	21	1	1	2	0	0	0	2	2	0	1	3	9
Lebanon	362	75	3	8	0	0	3	0	0	0	1	1	1	0	0	0	0	0	0
Libya	236	236	5	0	0	0	5	0	0	2	0	3	0	0	0	0	0	0	0
Morocco	228	209	2	1	0	0	2	0	0	0	0	0	1	0	0	1	0	0	0
Oman	1206	932	0	12	39	0	0	0	0	0	1	0	0	0	0	0	0	0	0
Pakistan	2579	2579	320	0	0	0	320	3	36	54	61	88	65	4	0	0	1	6	2
Palestine	183	147	0	2	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Qatar	263	239	20	6	1	0	20	0	1	0	1	4	7	0	0	1	3	2	1
Saudi Arabia	839	808	23	0	2	0	23	2	2	8	8	3	0	0	1	0	0	0	0
Somalia	1024	165	2	0	0	0	2	0	0	0	1	1	0	0	0	0	0	0	0
Sudan	2778	2550	759	6	0	56	815	76	191	227	111	37	28	15	10	14	27	28	51
Syria	1299	733	5	8	44	0	5	0	1	0	2	0	1	0	0	1	0	0	0
Tunisia	200	189	17	0	0	0	17	0	0	0	3	0	3	0	2	4	3	2	0
UAE	556	212	9	0	0	0	9	1	1	2	0	3	0	0	2	0	0	0	0
Yemen	4289	3406	938	293	0	227	1165	185	143	232	256	127	62	24	32	16	17	27	44
Grand Total	28211	22388	2204	344	229	285	2489	271	385	534	458	278	180	54	52	41	57	70	111

Cumulative geographic distribution of Rubella cases in the EMR countries January-December 2014



▲ Rubella Lab confirmed N=2204
● Rubella Epi Linked N=285

