

Measles and rubella surveillance summary and data analysis of selected performance indicators -EMR, Week 52 2013

As of December 2013, 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 (Somalia and South Sudan are sentinel site surveillance).

A. Measles reported data January to December 2012 and January to December 2013:

Country	Reported cases of measles suspects		No.cases tested for measles		Total Measles cases		Measles Laboratory confirmed		Measles incidence		Total Rubella cases	
	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013	2012	2013
Afghanistan	4264	792	3515	775	2797	430	2636	413	105.55	16.2	94	20
Bahrain	231	268	231	268	0	0	0	0	0.00	0.0	4	2
Djibouti*	16		8		7		7		8.09		0	
Iran	4114	3970	3836	3758	224	127	221	117	2.85	1.6	29	20
Iraq	1168	1861	1157	1728	23	702	23	581	0.69	21.1	20	17
Jordan	66	248	66	248	3	119	3	119	0.49	19.5	2	5
Egypt	1197	1518	1045	1388	245	412	97	290	3.05	5.1	35	33
Kuwait	460	416	438	301	27	63	27	61	7.43	17.3	13	5
Lebanon	48	2025	40	1211	9	1751	1	894	2.11	410.7	1	5
Libya	489	227	476	226	320	164	311	163	55.06	28.2	1	5
Morocco	656	354	652	352	291	61	291	61	9.02	1.9	3	60
Oman	691	862	687	846	3	0	3	0	0.95	0.0	2	0
Pakistan	18245	10944	10888	10944	8046	8028	8046	8028	45.43	45.3	483	847
Palestine	157	179	157	179	0	0	0	0	0.00	0.0	1	0
Qatar	592	396	571	391	164	68	158	68	94.63	39.2	29	59
Saudi Arabia	932	1143	921	1143	281	251	281	251	9.90	8.8	17	66
Somalia	218	314	216	297	142	225	123	217	16.33	25.9	0	0
Sudan	9467	3936	2775	2035	8523	2808	1899	962	260.87	85.9	191	324
Syria	310	974	310	705	13	740	13	471	0.62	35.0	1	1
Tunisia	1061	266	950	263	48	16	46	16	4.55	1.5	538	15
UAE	272	612	272	494	126	309	76	237	15.25	37.4	17	9
Yemen	2961	3574	1455	2651	2177	400	693	142	95.15	17.5	199	689
South Sudan**	2050	620	230	234	1952	517	123	157	236.31	62.6	20	26
Total EMR	49665	35499	30896	30437	25421	17191	15078	13248	42.37	28.6	1700	2208

B. Surveillance performance indicators:

Measles suspected cases tested between January to December 2013 were 30437 cases compared to 30896 between January to December 2012. The target of 80% of suspected cases tested for measles and rubella was met in 19 countries of the 22 countries reported between January to December 2013, 20 countries met this indicator between January to December 2012.

The indicator of 80% of measles cases with complete investigation was met in 13 countries between January to December 2013.

C. Measles Laboratory performance:

The target of 80% and more of the results reported back within 4 days between January to December 2013 was met in 22 countries of the 22 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 2013 was met in 10 of the 22 reported countries.

The target of 80% and more of the specimens received at the Lab in good condition between January to December 2013 was met in 22 countries of the 22 reported countries.

Notes:

*Djibouti stop reporting from March 2012

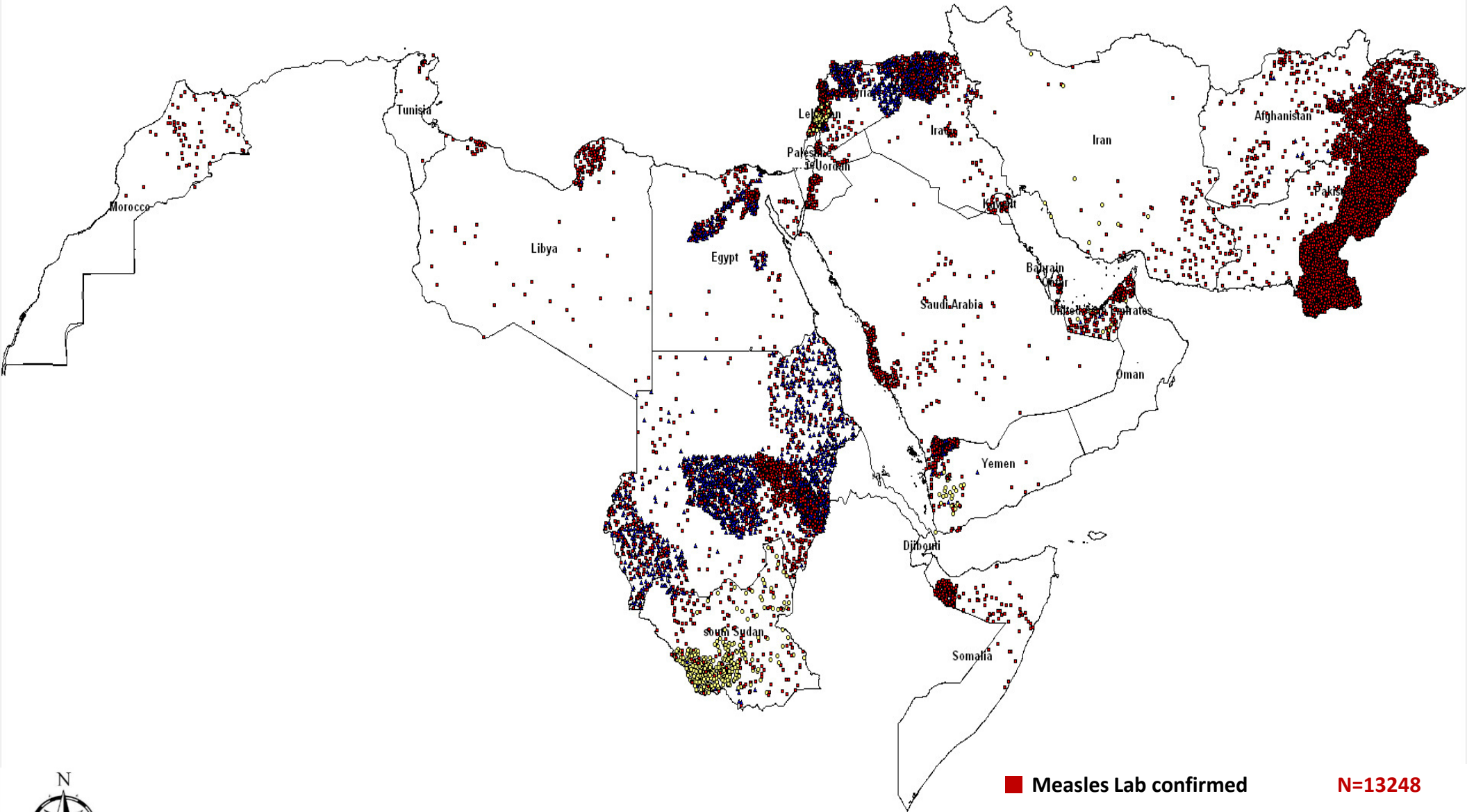
**South Sudan stop reporting from October 2013

Measles case finding and distribution by Month

Between 01/01/2013 and 31/12/2013

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
Afghanista	792	775	413	0	0	17	0	430	36	51	47	69	59	58	51	0	8	3	13	35
Bahrain	268	268	0	5	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Iran	3970	3758	117	0	74	0	10	127	14	5	12	27	21	20	13	5	4	4	1	1
Iraq	1861	1728	581	46	0	121	0	702	42	74	69	70	122	128	95	31	19	17	12	23
Jordan	248	248	119	6	6	0	0	119	1	9	11	21	31	11	13	11	6	3	1	1
Egypt	1518	1388	290	0	12	122	0	412	3	13	4	21	30	24	14	61	82	56	37	67
Kuwait	416	301	61	0	5	2	0	63	5	1	6	12	7	7	0	0	0	5	9	11
Lebanon	2025	1211	894	66	0	89	768	1751	23	132	197	367	458	363	129	47	0	8	13	14
Libya	227	226	163	9	0	1	0	164	1	1	6	13	11	26	24	5	11	12	24	30
Morocco	354	352	61	4	0	0	0	61	7	16	10	20	4	0	0	0	0	3	1	0
Oman	862	846	0	11	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	10944	10944	8028	0	0	0	0	8028	3873	1373	812	628	563	371	157	57	44	59	36	55
Palestine	179	179	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Qatar	396	391	68	6	1	0	0	68	13	18	9	12	2	3	0	3	4	0	1	3
Saudi Arabi	1143	1143	251	0	1	0	0	251	29	24	59	40	56	19	8	4	3	6	2	1
Somalia	314	297	217	6	0	2	6	225	38	26	29	75	24	6	3	0	0	18	0	6
Sudan	3936	2035	962	5	0	1846	0	2808	257	347	587	384	328	341	160	87	92	73	103	49
Syria	974	705	471	7	27	269	0	740	7	165	64	98	136	92	101	19	20	9	19	10
Tunisia	266	263	16	0	0	0	0	16	0	1	0	1	3	0	1	0	1	6	3	0
UAE	612	494	237	0	0	12	60	309	15	17	22	38	57	37	34	14	13	20	21	21
Yemen	3574	2651	142	16	0	226	32	400	33	88	62	41	132	11	5	4	8	6	10	0
South Suda	620	234	157	0	0	10	350	517	116	122	115	30	40	19	17	31	27	0	0	0
Grand Total	35499	30437	13248	188	151	2717	1226	17191	4513	2483	2121	1967	2084	1536	825	379	342	308	306	327

Cumulative geographic distribution of Measles cases in the EMR countries January-December 2013



■ Measles Lab confirmed	N=13248
▲ Measles Epi Linked	N=2717
● Measles Clinically compatible	N=1226



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

01/01/2013 - 31/12/2013

Country	Measles case finding report							Rubella case finding report					**Measles incidence /1000,000	***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 received at the lab within 5days	%specimens with good condition	results reported back within 4days				
Afghanistan	792	775	413	17	0	430	362	367	20	0	20	347	16.2	1.4	100%	2%	45%	83%	100%	31/12/2013	B3
Bahrain	268	268	0	0	0	0	268	268	2	0	2	266	0.0	21.7	100%	100%	100%	100%	100%	24/12/2013	B3 (Imp.)
Iran	3970	3758	117	0	10	127	3843	3758	20	0	20	3738	1.6	4.9	95%	92%	99%	100%	96%	31/12/2013	B3, D4
Iraq	1861	1728	581	121	0	702	1159	1728	16	1	17	1712	21.1	3.5	99%	52%	60%	100%	100%	31/12/2013	D8
Jordan	248	248	119	0	0	119	129	248	5	0	5	243	19.5	2.1	100%	61%	92%	98%	96%	24/12/2013	B3
Egypt	1518	1388	290	122	0	412	1106	1386	33	0	33	1353	5.1	1.4	99%	100%	85%	100%	100%	30/12/2013	B3
Kuwait	416	301	61	2	0	63	353	314	5	0	5	309	17.3	9.7	73%	93%	97%	100%	98%	31/12/2013	
Lebanon	2025	1211	894	89	768	1751	274	245	5	0	5	240	410.7	6.4	63%	99%	32%	99%	99%	31/12/2013	D8,H1,B3
Libya	227	226	163	1	0	164	63	225	5	0	5	220	28.2	1.1	100%	97%	48%	100%	100%	29/12/2013	B3
Morocco	354	352	61	0	0	61	293	346	60	0	60	286	1.9	0.9	99%	95%	79%	100%	97%	31/12/2013	D4
Oman	862	846	0	0	0	0	862	846	0	0	0	846	0.0	27.2	98%	94%	69%	98%	100%	30/12/2013	D8 B3 (Imp.)
Pakistan	10944	10944	8028	0	0	8028	2916	10930	847	0	847	10083	45.3	1.6	100%	76%	55%	100%	86%	31/12/2013	D4, B3
Palestine	179	179	0	0	0	0	179	179	0	0	0	179	0.0	4.3	100%	72%	63%	100%	90%	25/12/2013	
Qatar	396	391	68	0	0	68	328	366	59	0	59	307	39.2	18.9	99%	84%	97%	100%	99%	31/12/2013	D8, B3
Saudi Arabia	1143	1143	251	0	0	251	892	1101	66	0	66	1035	8.8	3.1	100%	98%	80%	100%	100%	30/12/2013	
Somalia	314	297	217	2	6	225	89	78	0	0	0	78	25.9	1.0	95%	66%	96%	100%	100%	17/12/2013	B3
Sudan	3936	2035	962	1846	0	2808	1128	2035	285	39	324	1750	85.9	3.5	99%	100%	88%	100%	100%	31/12/2013	B3
Syria	974	705	471	269	0	740	234	295	1	0	1	294	35.0	1.1	100%	96%	48%	100%	100%	30/12/2013	
Tunisia	266	263	16	0	0	16	250	262	14	1	15	248	1.5	2.4	99%	75%	36%	100%	100%	25/12/2013	
UAE	612	494	237	12	60	309	303	257	9	0	9	248	37.4	3.7	82%	13%	92%	100%	100%	29/12/2013	
Yemen	3574	2651	142	226	32	400	3174	2275	633	56	689	1642	17.5	13.9	81%	100%	56%	98%	82%	31/12/2013	
South Sudan	620	234	157	10	350	517	103	79	26	0	26	53	62.6	1.2	38%	31%	36%	99%	98%	25/09/2013	

"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/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.

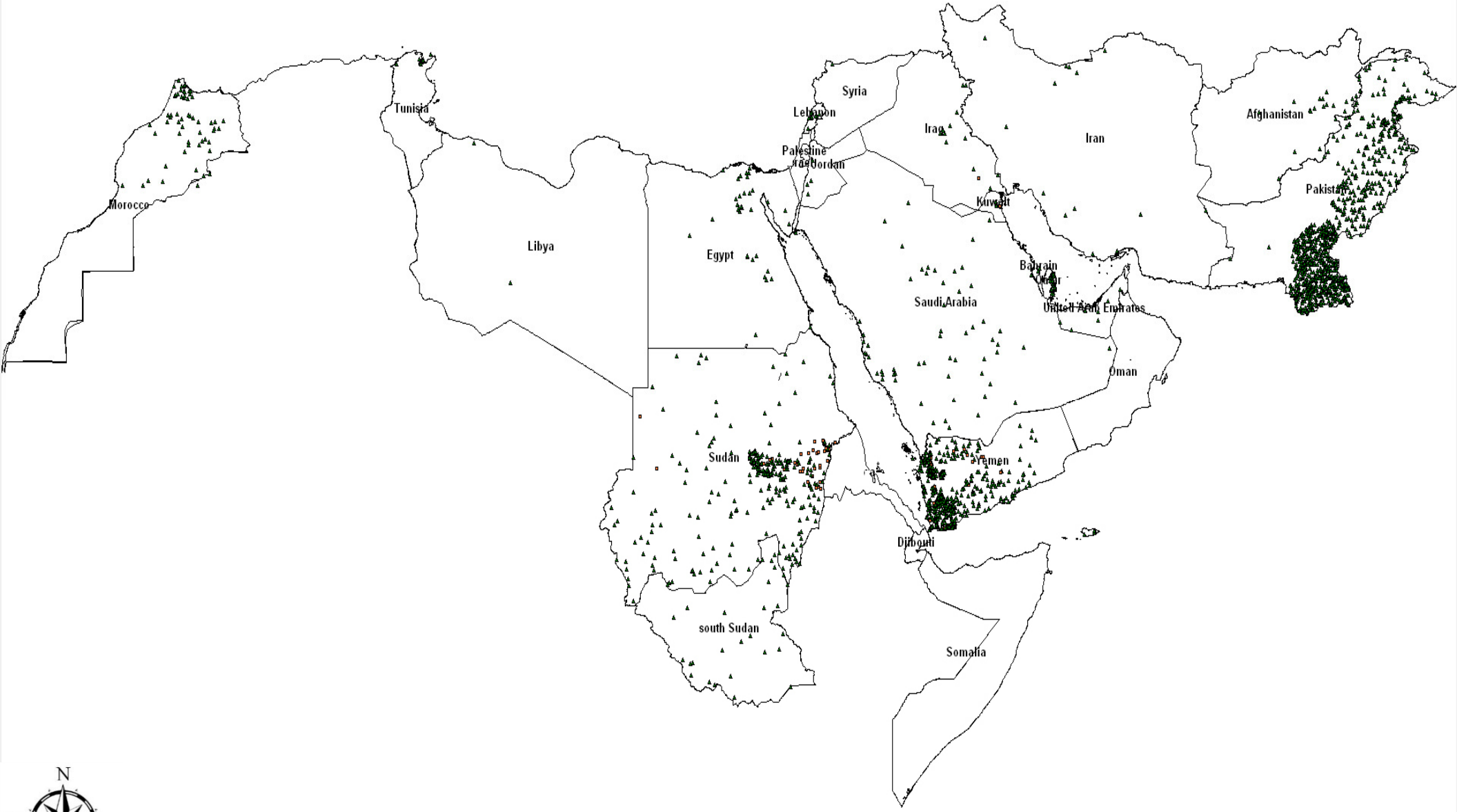
Djibouti did not report

Rubella case finding and distribution by Month

Between 01/01/2013 and 31/12/2013

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	792	367	20	0	0	0	20	0	1	2	0	3	2	2	1	3	2	1	3
Bahrain	268	268	2	3	11	0	2	0	1	0	0	0	0	0	0	0	0	0	1
Iran	3970	3758	20	2	74	0	20	5	1	6	1	4	1	1	0	0	0	1	0
Iraq	1861	1728	16	25	0	1	17	2	2	1	1	1	3	1	1	1	0	1	0
Jordan	248	248	5	1	6	0	5	0	0	0	0	0	2	0	1	1	0	0	0
Egypt	1518	1386	33	0	12	0	33	1	2	3	3	6	8	2	2	5	2	0	0
Kuwait	416	314	5	0	5	0	5	1	0	0	0	1	0	0	1	1	0	0	1
Lebanon	2025	245	5	8	0	0	5	0	0	2	4	2	1	0	0	0	0	0	0
Libya	227	225	5	3	0	0	5	0	0	1	0	0	0	1	0	0	0	0	0
Morocco	354	346	60	16	0	0	60	2	1	18	10	17	9	0	0	0	0	0	1
Oman	862	846	0	6	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	10944	10930	847	0	0	0	847	141	306	148	104	77	34	13	7	3	0	2	1
Palestine	179	179	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Qatar	396	366	59	8	1	0	59	1	0	0	11	11	22	7	1	2	1	1	1
Saudi Arabia	1143	1101	66	0	1	0	66	5	8	2	8	14	4	4	1	3	8	2	0
Somalia	314	78	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	3936	2035	285	2	0	39	324	14	68	86	37	12	14	8	3	7	11	21	12
Syria	974	295	1	4	27	0	1	0	0	0	1	0	0	0	0	0	0	0	0
Tunisia	266	262	14	0	0	1	15	0	3	2	0	2	1	1	1	2	0	3	0
UAE	612	257	9	0	0	0	9	0	0	0	0	2	2	2	0	0	0	1	1
Yemen	3574	2275	633	70	0	56	689	115	65	122	128	110	79	2	17	9	0	4	21
South Sudan	620	79	26	0	0	0	26	6	2	11	3	3	0	0	0	0	0	0	0
Grand Total	35499	27588	2111	149	151	97	2208	293	460	404	311	265	182	44	36	37	24	37	42

Cumulative geographic distribution of Rubella cases in the EMR countries January-December 2013



▲ Rubella Lab confirmed N=2111
● Rubella Epi Linked N=97