EMR cumulative indigenous Measles/Rubella cases counts and surveillance indicators
Between 01/01/2020 and 30/06/2020

Country	Measles case finding report							Rubella case finding report						Measles incidence /1000,000 *	Rubella incidence /100,000 **	Reporting rate ***	Indicators: target ≥80%					Last date reported	Genotypes reorted
	Total suspected cases for M/R	Specimens tested for Measles	Measles lab confirmed	Measles Epi-Linked	Measles clinicaly compatible	Total Measles	Measles discarded cases	Specimns tested for Rubella	Rubella lab confirmed	Rubella Epi-Linked	Rubella clinically compatable	Total Rubella	Rubella discarded				suspects tested for Measles ****	cases with complete investigation	specimens received at the lab within 5 days	specimens with adequate condition	results reported back within 4 days		
Afghanistan	412	410	294	0	2	296	107	145	9	0	0	9	136	9.17	0.28	0.33	100%	19%	89%	100%	43%	29/06/2020	
Bahrain	93	93	0	0	0	0	93	93	0	0	0	0	93	0.00	0.00	6.20	100%	100%	99%	100%	99%	25/06/2020	
Djibouti																							
Iran	1239	1177	0	0	0	0	1180	1177	2	0	0	2	1175	0.00	0.03	1.55	95%	97%	92%	100%	94%	30/06/2020	
Iraq	416	377	294	0	0	294	122	212	15	0	0	15	197	7.92	0.40	0.29	91%	73%	73%	100%	99%	14/04/2020	
Jordan	7	7	0	0	0	0	7	5	0	0	0	0	5	0.00	0.00	0.07	100%	29%	86%	100%	50%	13/03/2020	
Egypt	911	876	0	0	0	0	872	876	0	0	0	0	876	0.00	0.00	0.94	96%	99%	100%	100%	44%	31/05/2020	
Kuwait	3	3	0	0	0	0	3	3	0	0	0	0	3	0.00	0.00	0.07	100%	100%	100%	100%	0%	15/01/2020	
Lebanon	26	11	0	0	15	15	11	11	0	0	0	0	11	2.61	0.00	0.19	42%	100%	10%	100%	0%	07/04/2020	
Libya	130	128	18	0	0	18	110	128	6	0	0	6	122	2.58	0.86	1.52	98%	75%	34%	100%	89%	26/06/2020	
Morocco	81	81	4	0	0	4	76	18	1	0	0	1	17	0.11	0.03	0.22	100%	98%	99%	100%	89%	09/05/2020	
Oman	318	312	0	0	0	0	301	311	0	0	0	0	311	0.00	0.00	6.97	98%	74%	95%	100%	91%	30/06/2020	B3 imp.
Pakistan	3452	2402	1113	68	746	1927	1305	2186	80	1	0	81	2105	9.02	0.38	0.68	71%	98%	76%	92%	90%	30/06/2020	
Palestine	53	53	6	0	0	6	45	53	0	0	0	0	53	1.27	0.00	1.00	100%	85%	87%	100%	94%	27/05/2020	
Qatar	30	30	3	0	0	3	23	21	0	0	0	0	21	1.10	0.00	0.99	100%	100%	93%	100%	64%	30/06/2020	
Saudi Arabia	269	269	29	0	0	29	227	269	15	0	0	15	254	0.89	0.46	0.69	100%	99%	100%	100%	100%	27/06/2020	
Somalia ★	1146	60	55	0	1086	1141	5	4	0	0	0	0	4	82.04	0.00	0.03	5%	5%	100%	100%	57%	30/06/2020	
Sudan	880	548	103	186	0	289	242	545	212	0	0	212	333	6.22	4.57	0.82	79%	99%	81%	98%	92%	30/06/2020	
Syria	358	358	6	0	0	6	340	356	3	0	0	3	353	0.25	0.12	1.43	100%	100%	54%	99%	99%	30/06/2020	
Tunisia	193	192	4	0	0	4	173	193	16	0	0	16	177	0.35	1.40	1.51	99%	88%	67%	100%	88%	22/06/2020	
UAE	110	97	22	1	11	34	62	85	10	0	4	14	71	3.73	1.53	0.72	89%	98%	79%	99%	85%	23/06/2020	
Yemen	1108	1107	63	0	12	75	992	1107	24	0	20	44	1063	2.73	1.60	3.68	100%	84%	42%	100%	7%	30/06/2020	
Total	11235	8591	2014	255	1872	4141	6296	7798	393	1	24	418	7380	6.13	0.62	1.08	87%	86%	79%	98%	70%		

*The sum of the measles lab confirmed cases +measles epi-linked cases + measles clinically compatible cases/million population

**The sum of the rubella lab confirmed cases +rubella epi-linked cases + rubella clinically compatible cases/million population

***Reporting rate of discarded non-measles non-rubella cases at the national level per 100,000 total population

****Excluding measles and rubella epi-linked cases

- Green cells= indicator met.
- Yellow cells=indicator not met.
- Red cells=missing data for calculating indicator.

Adequate investigation includes the following data elements:
- District.   - Age.   - Gender.
- Date of rash onset, case notification and investigation
- Vaccination status.   - Date of last vaccination with MCV
- Date specimen collected.
- Travel history

Countries that did not report

★ **Somalia reported aggregate data**

Measles final classification and distribution by Month

Between 01/01/2020 and 30/06/2020

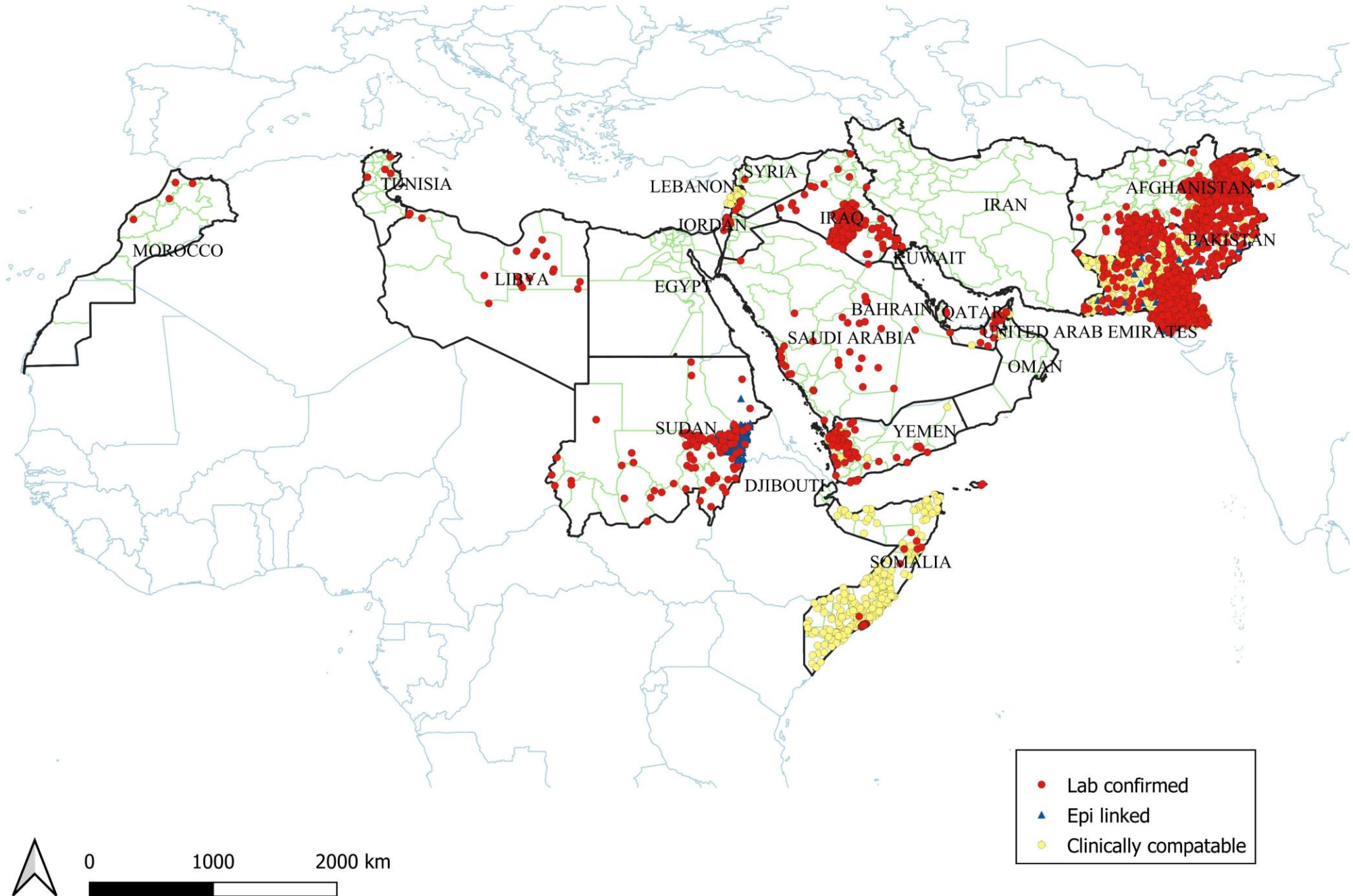| Country	Total Suspected cases for measles	Total specimens tested	Measles positive ELISA	Imported Measles cases	Measles import related	Unknown source	Vaccine related	Pending result	Measles Lab confirmed	Measles Epi-Linked	Measles clinically compatible	Total Measles	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Afghanistan	412	410	294	0	0	0	0	0	294	0	2	296	89	93	37	37	27	13						
Bahrain	93	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Djibouti																								
Iran	1239	1177	50	0	1	0	47	0	0	0	0	0	0	0	0	0	0	0						
Iraq	416	377	294	0	0	0	0	0	294	0	0	294	85	138	69	2								
Jordan	7	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Egypt	911	876	4	1	2	1	0	35	0	0	0	0	0	0	0	0	0	0						
Kuwait	3	3	0	0	0	0	0	0	0	0	0	0	0	0										
Lebanon	26	11	0	0	0	0	0	0	0	0	15	15	5	8	1	1								
Libya	130	128	18	0	0	0	0	0	18	0	0	18	8	7	2	0	1	0						
Morocco	81	81	4	0	0	0	0	0	4	0	0	4	3	0	1	0	0	0						
Oman	318	312	22	2	5	0	4	6	0	0	0	0	0	0	0	0	0	0						
Pakistan	3452	2402	1113	0	0	0	0	143	1113	68	746	1927	420	637	533	182	107	48						
Palestine	53	53	8	0	0	0	2	0	6	0	0	6	3	3	0	0	0	0						
Qatar	30	30	6	2	0	0	1	0	3	0	0	3	3	0	0	0	0	0						
Saudi Arabia	269	269	29	0	0	0	0	0	29	0	0	29	5	7	10	6	1	0						
Somalia	1146	60	55	0	0	0	0	0	55	0	1086	1141	300	194	211	138	124	174						
Sudan	880	548	104	0	0	0	0	173	103	186	0	289	63	120	80	24	2	0						
Syria	358	358	8	0	0	0	2	0	6	0	0	6	0	2	2	1	1	0						
Tunisia	193	192	4	0	0	0	0	0	4	0	0	4	2	1	0	0	0	1						
UAE	110	97	22	0	0	0	0	0	22	1	11	34	16	8	5	2	1	2						
Yemen	1108	1107	63	0	0	0	0	2	63	0	12	75	16	22	18	8	4	7						
Total	11235	8591	2098	5	8	1	56	359	2014	255	1872	4141	1018	1240	969	401	268	245						

* Imported measles/rubella case – a case exposed to measles outside the country during the 7-21 days prior to rash onset and supported by epidemiological or virological evidence (for rubella the exposure would be during the 12-23 days prior to rash onset)

** Importation related measles/rubella case – a locally acquired infection occurring as part of a chain of transmission originating from an imported case as supported by epidemiological or virological evidence

***Vaccine related case – a suspect case that has a rash like illness without respiratory symptoms and the rash had onset 7-14 days following vaccination and the lab detected IgM in the blood specimen that was collected 8-56 days after vaccination and there were no secondary cases identified. OR any suspect case from which virus is isolated and genotyping test reveals the virus to be a vaccine strain

Total confirmed cases; include all cases confirmed by laboratory testing or epi linkage, plus those clinical cases that were reported without a laboratory specimen or epi linkage

Cumulative geographic distribution of Measles cases in the EMR countries June 2020

Legend:
- Lab confirmed
- Epi linked
- Clinically compatable

0   1000   2000 km

Rubella final classification and distribution by Month

Between 01/01/2020 and 30/06/2020

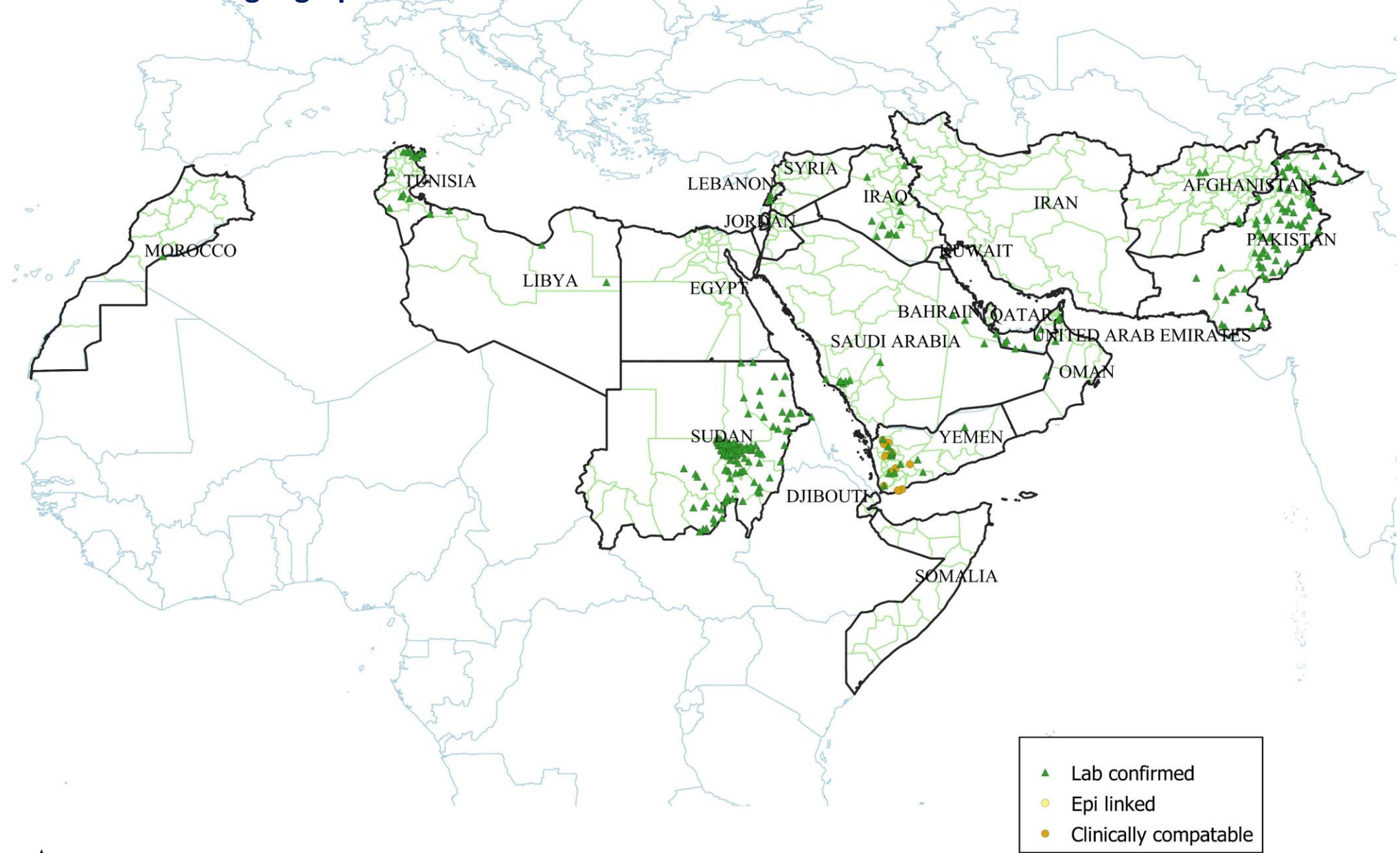| Country	Total Suspected cases for Rubella	Total specimens tested	Rubella positive ELISA	Imported Rubella cases	Rubella import related	Unknown source	Vaccine related	Pending result	Rubella Lab confirmed	Rubella Epi-Linked	Rubella clinically compatible	Total Rubella	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Afghanistan	412	145	9	0	0	0	0	0	9	0	0	9	6	2	0	0	0	1						
Bahrain	93	93	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Djibouti																								
Iran	1239	1177	15	0	0	0	13	0	2	0	0	2	0	1	0	0	1	0						
Iraq	416	212	15	0	0	0	0	0	15	0	0	15	4	7	4	0								
Jordan	7	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Egypt	911	876	4	0	0	0	0	35	0	0	0	0	0	0	0	0	0	0						
Kuwait	3	3	0	0	0	0	0	0	0	0	0	0	0	0										
Lebanon	26	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Libya	130	128	6	0	0	0	0	0	6	0	0	6	2	2	1	0	1	0						
Morocco	81	18	1	0	0	0	0	0	1	0	0	1	1	0	0	0	0	0						
Oman	318	311	15	0	1	0	4	6	0	0	0	0	0	0	0	0	0	0						
Pakistan	3452	2186	87	0	0	0	0	143	80	1	0	81	10	27	37	6	0	1						
Palestine	53	53	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0						
Qatar	30	21	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Saudi Arabia	269	269	15	0	0	0	0	0	15	0	0	15	5	5	3	1	0	1						
Somalia	1146	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0						
Sudan	880	545	212	0	0	0	0	173	212	0	0	212	28	85	96	3	0	0						
Syria	358	356	6	0	0	0	7	0	3	0	0	3	0	0	0	0	1	2						
Tunisia	193	193	17	0	0	0	0	0	16	0	0	16	8	6	1	0	1	0						
UAE	110	85	10	0	0	0	0	0	10	0	4	14	3	7	2	1	1	0						
Yemen	1108	1107	24	0	0	0	0	2	24	0	20	44	11	14	12	5	0	2						
Total	11235	7798	438	1	1	0	25	359	393	1	24	418	78	156	156	16	5	7						

* Imported measles/rubella case – a case exposed to measles outside the country during the 7-21 days prior to rash onset and supported by epidemiological or virological evidence (for rubella the exposure would be during the 12-23 days prior to rash onset)
** Importation related measles/rubella case – a locally acquired infection occurring as part of a chain of transmission originating from an imported case as supported by epidemiological or virological evidence
***Vaccine related case – a suspect case that has a rash like illness without respiratory symptoms and the rash had onset 7-14 days following vaccination and the lab detected IgM in the blood specimen that was collected 8-56 days after vaccination and there were no secondary cases identified. OR any suspect case from which virus is isolated and genotyping test reveals the virus to be a vaccine strain
Total confirmed cases; include all cases confirmed by laboratory testing or epi linkage, plus those clinical cases that were reported without a laboratory specimen or epi linkage

Cumulative geographic distribution of Rubella cases in the EMR countries June 2020

Legend:
- ▲ Lab confirmed
- ○ Epi linked
- ● Clinically compatable

0 1000 2000 km

Measles and Rubella laboratory summary report

Between   01/01/2020   and   30/06/2020

Country	Measles								Rubella								Reported to EPI within 4days
	specimens tested	%	Positive	%	Negative	%	Equivocal	%	specimens tested	%	Positive	%	Negative	%	Equivocal	%	
Afghanistan	410	100%	294	72%	114	28%	2	0%	145	35%	9	6%	136	94%	0	0%	43%
Bahrain	93	100%	0	0%	93	100%	0	0%	93	100%	0	0%	93	100%	0	0%	99%
Iran	1177	95%	50	4%	1127	96%	0	0%	1177	95%	15	1%	1162	99%	0	0%	94%
Iraq	377	91%	294	78%	83	22%	0	0%	212	51%	15	7%	197	93%	0	0%	99%
Jordan	7	100%	0	0%	7	100%	0	0%	5	71%	0	0%	5	100%	0	0%	50%
Egypt	876	96%	4	0%	872	100%	0	0%	876	96%	4	0%	872	100%	0	0%	44%
Kuwait	3	100%	0	0%	3	100%	0	0%	3	100%	0	0%	3	100%	0	0%	
Lebanon	11	42%	0	0%	11	100%	0	0%	11	42%	0	0%	11	100%	0	0%	
Libya	128	98%	18	14%	107	84%	3	2%	128	98%	6	5%	112	88%	10	8%	89%
Morocco	81	100%	4	5%	77	95%	0	0%	18	22%	1	6%	17	94%	0	0%	89%
Oman	312	98%	22	7%	288	92%	2	1%	311	98%	15	5%	295	95%	1	0%	91%
Pakistan	2402	70%	1113	46%	1289	54%	0	0%	2186	63%	87	4%	2099	96%	0	0%	90%
Palestine	53	100%	8	15%	45	85%	0	0%	53	100%	1	2%	52	98%	0	0%	94%
Qatar	30	100%	6	20%	24	80%	0	0%	21	70%	1	5%	20	95%	0	0%	64%
Saudi Arabia	269	100%	29	11%	240	89%	0	0%	269	100%	15	6%	254	94%	0	0%	100%
Somalia	60	100%	55	92%	4	7%	1	2%	4	7%	0	0%	4	100%	0	0%	57%
Sudan	548	62%	104	19%	428	78%	16	3%	545	62%	212	39%	304	56%	29	5%	92%
Syria	358	100%	8	2%	350	98%	0	0%	356	99%	6	2%	346	97%	4	1%	99%
Tunisia	192	99%	4	2%	185	96%	3	2%	193	100%	17	9%	169	88%	7	4%	88%
UAE	97	88%	22	23%	70	72%	5	5%	85	77%	10	12%	74	87%	1	1%	85%
Yemen	1107	100%	63	6%	1029	93%	15	1%	1107	100%	24	2%	1065	96%	18	2%	7%