EMR cumulative indigenous Measles/Rubella cases counts and surveillance indicators
Between 01/01/2020 and 31/08/2020

| Country | Measles case finding report | | | | | | | Rubella case finding report | | | | | | Measles incidence/1000,000 * | Rubella incidence/100 0,000 ** | 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	536	536	376	0	3	379	147	189	10	0	0	10	179	11.74	0.31	0.46	100%	100%	89%	100%	46%	26/08/2020	
Bahrain	107	107	0	0	0	0	107	107	0	0	0	0	107	0.00	0.00	7.13	100%	100%	99%	100%	97%	26/08/2020	
Djibouti																							
Iran	1730	1652	0	0	0	0	1640	1652	2	0	0	2	1650	0.00	0.03	2.16	95%	97%	91%	100%	95%	31/08/2020	
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	11	11	0	0	0	0	11	7	0	0	0	0	7	0.00	0.00	0.11	100%	55%	91%	100%	30%	12/08/2020	
Egypt	1287	1252	0	0	0	0	1282	1252	0	0	0	0	1252	0.00	0.00	1.33	97%	99%	100%	100%	48%	31/08/2020	
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	138	135	21	0	0	21	115	135	8	0	0	8	127	3.01	1.15	1.56	98%	75%	35%	100%	86%	20/08/2020	
Morocco	112	106	5	0	0	5	104	38	3	0	0	3	35	0.14	0.09	0.30	95%	94%	89%	100%	82%	10/08/2020	
Oman	359	352	0	0	0	0	349	352	0	0	0	0	352	0.00	0.00	7.87	98%	100%	94%	100%	90%	20/08/2020	B3 imp.
Pakistan	4297	3075	1147	69	819	2035	1944	2837	82	1	0	83	2754	9.52	0.39	1.02	73%	97%	78%	92%	90%	31/08/2020	
Palestine	1289	1289	708	0	125	833	453	1289	0	0	0	0	1289	177.01	0.00	9.69	100%	83%	99%	100%	94%	22/08/2020	
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%	31/08/2020	
Saudi Arabia	299	299	29	0	0	29	255	299	17	0	0	17	282	0.89	0.52	0.78	100%	99%	100%	100%	100%	28/08/2020	
Somalia ★	1667	60	55	0	1607	1662	5	4	0	0	0	0	4	119.50	0.00	0.03	4%	4%	100%	100%	57%	31/08/2020	
Sudan	1006	755	160	180	0	340	336	754	273	0	0	273	481	7.32	5.88	0.85	91%	99%	64%	97%	76%	29/08/2020	
Syria	463	463	10	0	0	10	436	460	3	0	0	3	457	0.41	0.12	1.84	100%	100%	53%	100%	99%	31/08/2020	
Tunisia	269	268	12	0	0	12	234	268	29	0	0	29	239	1.05	2.53	1.99	100%	91%	64%	100%	87%	22/08/2020	
UAE	133	118	22	1	13	36	81	105	11	0	4	15	90	3.95	1.64	0.94	89%	98%	82%	99%	87%	29/08/2020	
Yemen	3095	1382	92	60	16	168	1237	1382	29	7	22	58	1324	6.13	2.11	10.54	46%	83%	5%	100%	92%	31/08/2020	
Total	17273	12281	2934	310	2598	5842	8895	11377	482	8	26	516	10861	8.65	0.76	1.76	80%	93%	77%	98%	72%		

*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

Countries that did not report

★ **Somalia reported aggregate data**

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

Measles final classification and distribution by Month
Between 01/01/2020 and 31/08/2020

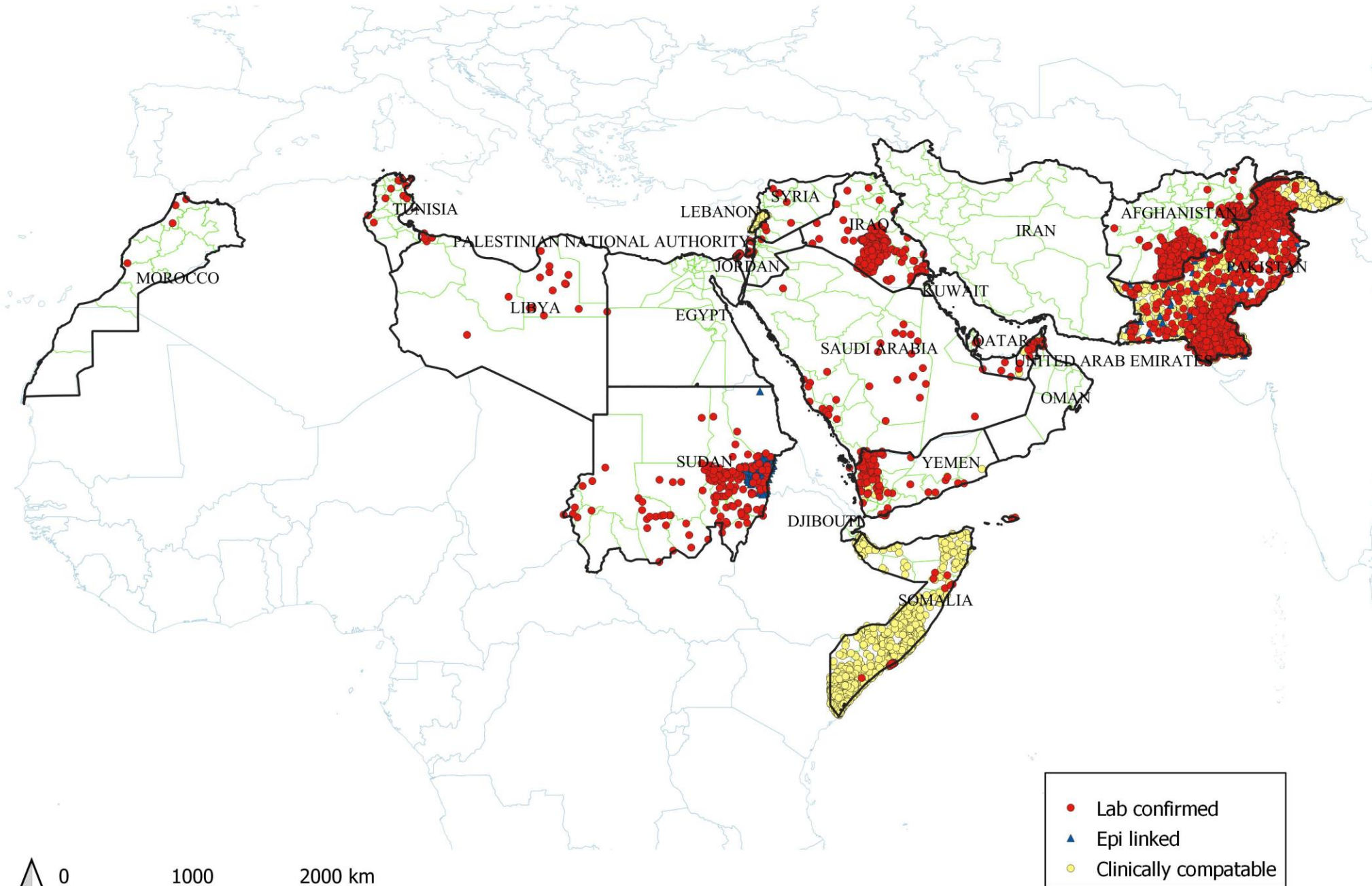| Country	Total Suspected cases for measles	Total specimens tested	Measles positive ELISA	Imported Measles cases*	Measles import related**	Unknown source	Vaccine related***	Pending result	Measles Lab confirmed	Measles Epi-Linked	Measles clinically compatible	Total Measles#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Afghanistan	536	536	376	0	0	0	0	0	376	0	3	379	88	92	39	40	27	28	49	16				
Bahrain	107	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Djibouti																								
Iran	1730	1652	73	0	1	0	70	0	0	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	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Egypt	1287	1252	12	1	2	0	0	1	0	0	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	138	135	21	0	0	0	0	0	21	0	0	21	8	7	2	0	1	0	3	0				
Morocco	112	106	5	0	0	0	0	0	5	0	0	5	3	0	1	0	0	1	0	0				
Oman	359	352	25	2	5	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0				
Pakistan	4297	3075	1156	0	0	0	0	236	1147	69	819	2035	420	637	536	182	119	53	41	47				
Palestine	1289	1289	711	0	0	0	3	0	708	0	125	833	646	187	0	0	0	0	0	0				
Qatar	30	30	6	2	0	0	1	0	3	0	0	3	3	0	0	0	0	0	0	0				
Saudi Arabia	299	299	29	0	0	0	0	0	29	0	0	29	5	7	10	6	1	0	0	0				
Somalia	1667	60	55	0	0	0	0	0	55	0	1607	1662	300	194	211	138	124	174	290	231				
Sudan	1006	755	160	0	0	0	0	105	160	180	0	340	64	121	86	44	13	8	1	3				
Syria	463	463	12	0	0	0	2	0	10	0	0	10	0	2	2	1	1	0	2	2				
Tunisia	269	268	13	0	0	0	2	0	12	0	0	12	3	2	5	0	0	1	1	0				
UAE	133	118	23	0	0	0	1	0	22	1	13	36	16	8	5	2	1	2	1	1				
Yemen	3095	1382	94	0	0	0	0	1637	92	60	16	168	26	24	23	13	4	13	13	52				
Total	17273	12281	3065	5	8	0	79	1982	2934	310	2598	5842	1672	1427	990	429	291	280	401	352				

* 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 August 2020

Legend:
- Lab confirmed
- Epi linked
- Clinically compatable

Rubella final classification and distribution by Month
Between 01/01/2020 and 31/08/2020

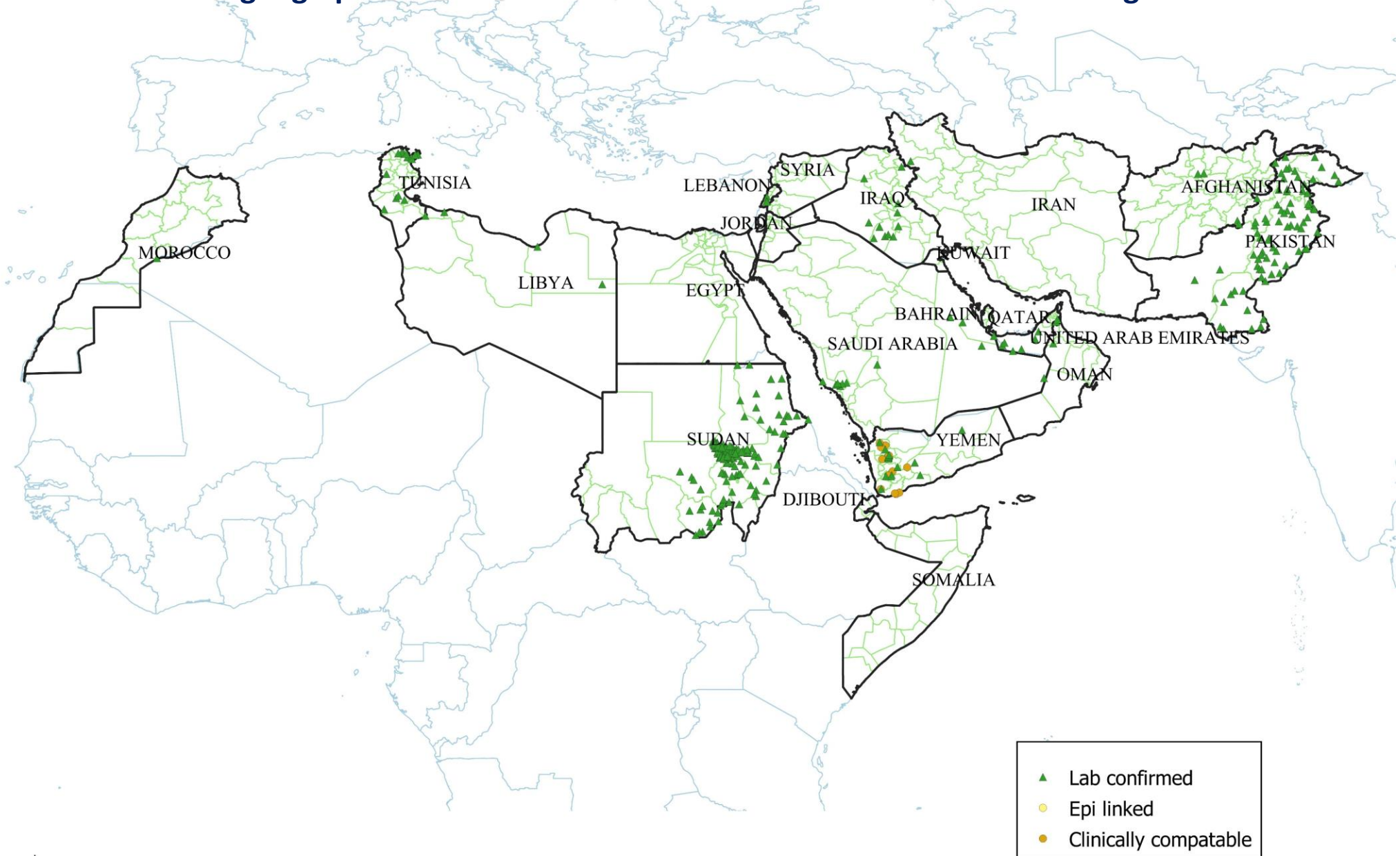| Country	Total Suspected cases for Rubella	Total specimens tested	Rubella positive ELISA	Imported Rubella cases	Rubella import related	Unknown source	Vaccine related	Pending result	Rubella Lab confirmed	Rubella Epi-Linked	Rubella clinically compatible	Total Rubella	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Afghanistan	536	189	10	0	0	0	0	0	10	0	0	10	6	2	0	0	0	1	1	0				
Bahrain	107	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Djibouti																								
Iran	1730	1652	28	0	0	0	25	0	2	0	0	2	0	1	0	0	1	0	0	0				
Iraq	416	212	15	0	0	0	0	0	15	0	0	15	4	7	4	0								
Jordan	11	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Egypt	1287	1252	11	0	0	1	0	1	0	0	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	138	135	8	0	0	0	0	0	8	0	0	8	2	2	1	0	1	0	2	0				
Morocco	112	38	5	0	0	0	0	0	3	0	0	3	1	0	0	0	0	1	1	0				
Oman	359	352	19	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0				
Pakistan	4297	2837	89	0	0	0	0	236	82	1	0	83	10	27	37	6	0	1	1	1				
Palestine	1289	1289	1	0	0	0	1	0	0	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	0	0				
Saudi Arabia	299	299	17	0	0	0	0	0	17	0	0	17	5	5	3	1	0	1	1	1				
Somalia	1667	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
Sudan	1006	754	273	0	0	0	0	105	273	0	0	273	28	86	110	20	9	8	9	3				
Syria	463	460	11	0	0	0	12	0	3	0	0	3	0	0	0	0	1	2	0	0				
Tunisia	269	268	32	0	0	0	1	0	29	0	0	29	8	7	6	0	1	3	3	1				
UAE	133	105	11	0	0	0	0	0	11	0	4	15	3	7	2	1	1	0	1	0				
Yemen	3095	1382	29	0	0	0	0	1637	29	7	22	58	16	16	14	5	0	3	1	3				
Total	17273	11377	560	2	0	1	39	1982	482	8	26	516	83	160	177	33	14	20	20	9				

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** 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 August 2020

Measles and Rubella laboratory summary report

Between 01/01/2020 and 31/08/2020

Country	Measles								Rubella								Reported to EPI within 4days
	specimens tested	%	Positive	%	Negative	%	Equivocal	%	specimens tested	%	Positive	%	Negative	%	Equivocal	%	
Afghanistan	536	100%	376	70%	151	28%	9	2%	189	35%	10	5%	179	95%	0	0%	46%
Bahrain	107	100%	0	0%	107	100%	0	0%	107	100%	0	0%	107	100%	0	0%	97%
Iran	1652	95%	73	4%	1579	96%	0	0%	1652	95%	28	2%	1624	98%	0	0%	95%
Iraq	377	91%	294	78%	83	22%	0	0%	212	51%	15	7%	197	93%	0	0%	99%
Jordan	11	100%	0	0%	11	100%	0	0%	7	64%	0	0%	7	100%	0	0%	30%
Egypt	1252	97%	12	1%	1238	99%	2	0%	1252	97%	11	1%	1240	99%	1	0%	48%
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	135	98%	21	16%	111	82%	3	2%	135	98%	8	6%	116	86%	11	8%	86%
Morocco	106	95%	5	5%	101	95%	0	0%	38	34%	5	13%	32	84%	1	3%	82%
Oman	352	98%	25	7%	324	92%	3	1%	352	98%	19	5%	332	94%	1	0%	90%
Pakistan	3075	72%	1156	38%	1919	62%	0	0%	2837	66%	89	3%	2748	97%	0	0%	90%
Palestine	1289	100%	711	55%	453	35%	125	10%	1289	100%	1	0%	1288	100%	0	0%	94%
Qatar	30	100%	6	20%	24	80%	0	0%	21	70%	1	5%	20	95%	0	0%	64%
Saudi Arabia	299	100%	29	10%	270	90%	0	0%	299	100%	17	6%	282	94%	0	0%	100%
Somalia	60	100%	55	92%	4	7%	1	2%	4	7%	0	0%	4	100%	0	0%	57%
Sudan	755	75%	160	21%	574	76%	21	3%	754	75%	273	36%	443	59%	38	5%	76%
Syria	463	100%	12	3%	451	97%	0	0%	460	99%	11	2%	445	97%	4	1%	99%
Tunisia	268	100%	13	5%	249	93%	6	2%	268	100%	32	12%	225	84%	11	4%	87%
UAE	118	89%	23	19%	90	76%	5	4%	105	79%	11	10%	93	89%	1	1%	87%
Yemen	1382	45%	94	7%	1270	92%	18	1%	1382	45%	29	2%	1332	96%	21	2%	92%