EMR cumulative indigenous Measles/Rubella cases counts and surveillance indicators

Between 01/01/2020 and 31/12/2020

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	766	619	449	0	3	452	206	299	11	0	0	11	288	14.00	0.34	0.94	81%	77%	88%	100%	46%	31-12-2020	
Bahrain	131	131	0	0	0	0	125	127	0	0	0	0	127	0.00	0.00	8.73	100%	100%	100%	100%	99%	29-12-2020	
Djibouti																							
Iran	2566	2460	0	0	1	1	2245	2479	2	0	0	2	2477	0.01	0.03	3.21	96%	97%	94%	100%	91%	31-12-2020	
Iraq	468	415	312	0	0	312	116	415	18	0	0	18	397	8.40	0.48	0.37	89%	73%	60%	100%	79%	02-11-2020	
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	2254	2194	0	0	0	0	2218	2202	0	0	0	0	2202	0.00	0.00	2.34	97%	99%	99%	100%	65%	31-12-2020	
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	144	141	20	0	0	20	121	141	8	0	0	8	133	2.87	1.15	1.66	98%	75%	35%	100%	86%	11-10-2020	
Morocco	120	114	5	0	0	5	112	43	3	0	0	3	40	0.14	0.09	0.32	95%	93%	87%	100%	80%	14-12-2020	
Oman	436	427	0	0	0	0	420	427	0	0	0	0	427	0.00	0.00	9.56	98%	100%	90%	100%	90%	30-12-2020	B3 imp.
Pakistan	7923	6633	1510	114	1123	2747	4987	6633	108	1	0	109	6524	12.13	0.48	2.24	85%	83%	84%	96%	83%	31-12-2020	
Palestine	1298	1298	708	0	125	833	462	1298	0	0	0	0	1298	177.01	0.00	9.88	100%	83%	99%	100%	94%	22-11-2020	
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%	17-03-2020	
Saudi Arabia	463	463	30	0	0	30	409	463	27	0	0	27	436	0.92	0.83	1.25	100%	99%	99%	100%	100%	31-12-2020	
Somalia ★	2580	247	185	0	2333	2518	62	45	0	0	0	0	45	198.80	0.00	0.40	9%	9%	97%	100%	23%	27-12-2020	
Sudan	1259	975	174	180	0	354	508	965	289	0	0	289	676	7.62	6.22	1.33	90%	99%	64%	97%	78%	29-11-2020	
Syria	612	612	14	0	1	15	575	608	4	0	0	4	604	0.61	0.16	2.43	100%	99%	56%	99%	99%	28-12-2020	
Tunisia	310	309	11	0	0	11	269	309	32	0	0	32	277	0.96	2.80	2.33	100%	80%	63%	100%	88%	01-12-2020	
UAE	172	151	29	2	19	50	106	132	11	0	4	15	117	5.48	1.21	1.22	89%	89%	85%	99%	85%	23-12-2020	
Yemen	4662	1790	138	61	23	222	1505	1790	97	10	53	160	1630	8.09	3.54	15.80	39%	84%	6%	100%	94%	30-11-2020	
Total	26234	19034	3588	357	3643	7588	14494	18418	610	11	57	678	17740	7.37	0.98	1.93	72%	91%	76%	100%	71%		

*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 31/12/2020

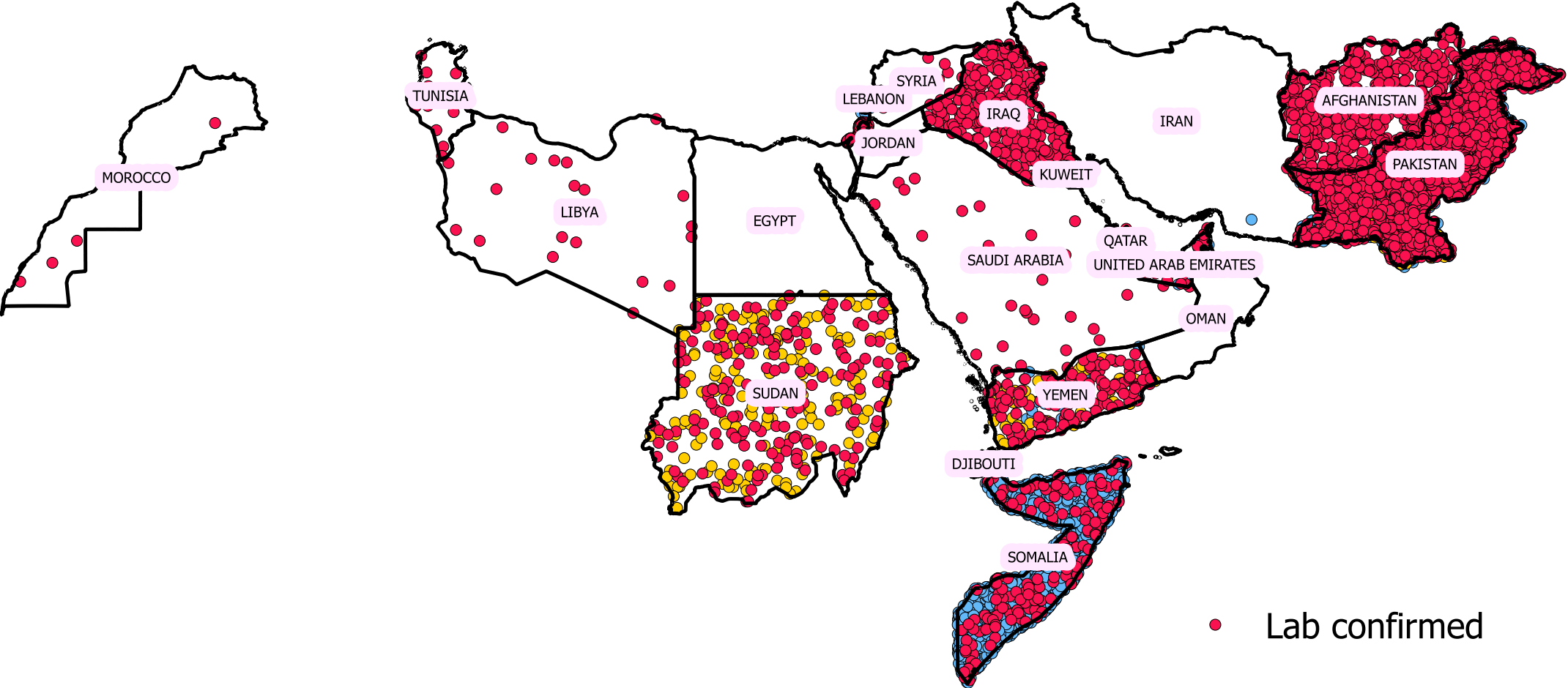| Country	Total Suspected cases for measles	Total specimens tested	Imported Measles cases*	Measles import related**	Vaccine related***	Unknown source	Measles Lab confirmed	Measles Epi-Linked	Measles clinically compatible	Total confirmed cases#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Afghanistan	766	619	0	0	0	0	449	0	3	452	88	92	39	40	27	28	51	20	5	51	45	57
Bahrain	131	131	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Djibouti																						
Iran	2566	2460	0	1	96	1	0	0	1	1	0	0	0	0	0	0	0	0	1	0	0	0
Iraq	468	415	0	0	0	0	312	0	0	312	85	138	78	5	3	2	0	0	1	0	0	0
Jordan	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	2254	2194	1	2	0	0	0	0	0	0	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	0	0	0	0	0	0	0	0
Lebanon	26	11	0	0	0	0	0	0	15	15	5	8	1	1	0	0	0	0	0	0	0	0
Libya	144	141	0	0	0	0	20	0	0	20	8	7	2	0	1	0	2	0	0	0	0	0
Morocco	120	114	0	0	0	0	5	0	0	5	3	0	1	0	0	1	0	0	0	0	0	0
Oman	436	427	2	5	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	7923	6633	0	0	0	0	1510	114	1123	2747	420	637	536	182	119	53	41	54	122	128	166	289
Palestine	1298	1298	0	0	3	0	708	0	125	833	646	187	0	0	0	0	0	0	0	0	0	0
Qatar	30	30	2	0	1	0	3	0	0	3	3	0	0	0	0	0	0	0	0	0	0	0
Saudi Arabia	463	463	0	0	0	0	30	0	0	30	5	7	10	6	1	0	0	0	0	0	0	1
Somalia	2580	247	0	0	0	0	185	0	2333	2518	294	189	208	132	119	170	287	230	179	156	289	265
Sudan	1259	975	0	0	0	0	174	180	0	354	64	121	86	44	13	8	1	3	8	5	1	0
Syria	612	612	0	0	2	0	14	0	1	15	0	2	2	1	1	0	3	2	0	1	1	2
Tunisia	310	309	0	0	4	0	11	0	0	11	2	2	5	0	0	0	1	0	1	0	0	0
UAE	172	151	0	0	1	0	29	2	19	50	17	8	5	2	1	2	1	1	1	2	7	3
Yemen	4662	1790	0	0	0	0	138	61	23	222	27	23	23	13	5	13	15	52	25	17	9	0
Total	26234	19034	5	8	116	1	3588	357	3643	7588	1667	1421	996	426	290	277	402	362	343	360	518	617

* 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 December 2020

TUNISIA

MOROCCO

LIBYA

EGYPT

SYRIA

LEBANON

JORDAN

IRAQ

KUWEIT

IRAN

AFGHANISTAN

PAKISTAN

QATAR

SAUDI ARABIA

UNITED ARAB EMIRATES

OMAN

SUDAN

YEMEN

DJIBOUTI

SOMALIA

● Lab confirmed

● EPI linked

● Clinically compatable

0   1000   2000 km

Rubella final classification and distribution by Month
Between 01/01/2020 and 31/12/2020

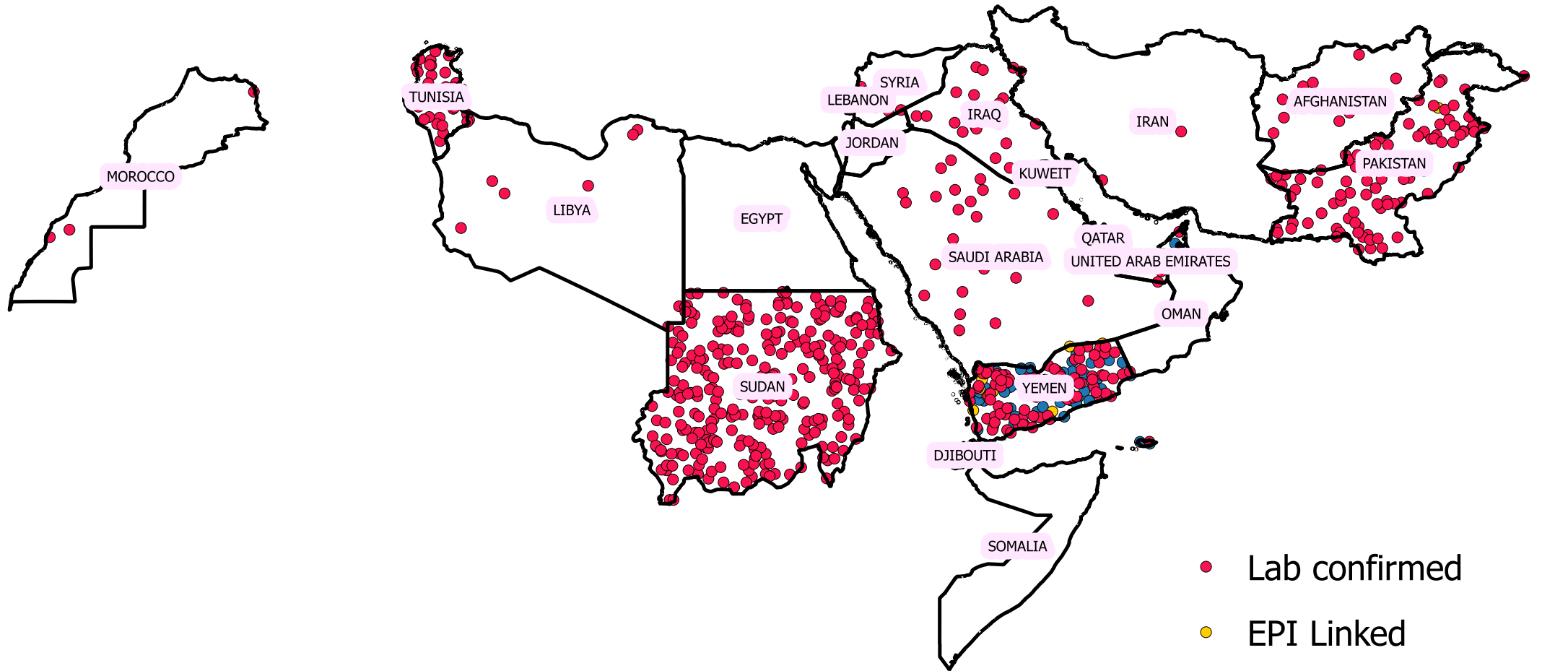| Country	Total Suspected cases for Rubella	Total specimens tested	Imported Rubella cases*	Rubella import related**	Vaccine related***	Unknown source	Rubella Lab confirmed	Rubella Epi-Linked	Rubella clinically compatible	Total confirmed cases#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Afghanistan	766	299	0	0	0	0	11	0	0	11	6	2	0	0	0	1	1	0	0	0	1	1
Bahrain	136	128	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Djibouti																						
Iran	2566	2479	0	0	41	0	2	0	0	2	0	1	0	0	1	0	0	0	0	0	0	0
Iraq	468	415	0	0	0	0	18	0	0	18	4	7	5	0	1	0	0	0	1	0	0	0
Jordan	11	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Egypt	2254	2202	0	0	0	1	0	0	0	0	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	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	0	0	0	0	0	0
Libya	144	141	0	0	0	0	8	0	0	8	2	2	1	0	1	0	2	0	0	0	0	0
Morocco	120	43	0	0	0	0	3	0	0	3	1	0	0	0	0	1	1	0	0	0	0	0
Oman	436	427	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pakistan	7923	6633	0	0	0	0	108	1	0	109	10	27	37	6	0	1	1	1	6	7	2	11
Palestine	1298	1298	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Qatar	30	21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Saudi Arabia	463	463	0	0	0	0	27	0	0	27	5	5	3	1	0	1	1	1	4	2	2	2
Somalia	2580	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sudan	1259	965	0	0	0	0	289	0	0	289	28	86	110	20	9	8	9	5	10	4	5	0
Syria	612	608	0	0	16	0	4	0	0	4	0	0	0	0	1	2	0	0	1	0	0	0
Tunisia	310	309	0	0	3	0	32	0	0	32	8	7	6	0	1	4	3	1	1	0	1	0
UAE	172	132	0	0	0	0	11	0	4	15	3	7	2	1	1	0	1	0	0	0	0	0
Yemen	4662	1790	0	0	0	0	97	10	53	160	18	16	15	5	1	3	2	9	44	15	32	0
Total	26239	18419	1	0	68	1	610	11	57	678	85	160	179	33	16	21	21	17	67	28	43	14

* 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 December 2020

MOROCCO

TUNISIA

LIBYA

EGYPT

SUDAN

SYRIA

LEBANON

JORDAN

IRAQ

KUWEIT

SAUDI ARABIA

QATAR

UNITED ARAB EMIRATES

OMAN

IRAN

AFGHANISTAN

PAKISTAN

YEMEN

DJIBOUTI

SOMALIA

- Lab confirmed
- EPI Linked
- Clinically compatable

0   1000   2000 km

Measles and Rubella laboratory summary report
Between   01-Jan-20   and   31-Dec-20

Country	Measles								Rubella							
	specimens tested	%	Positive	%	Negative	%	Equivocal	%	specimens tested	%	Positive	%	Negative	%	Equivocal	%
Afghanistan	619	81%	457	74%	152	25%	10	2%	299	39%	69	23%	229	77%	1	0%
Bahrain	131	100%	2	2%	129	98%	0	0%	127	97%	2	2%	125	98%	0	0%
Iran	2460	96%	100	4%	2360	96%	0	0%	2479	97%	43	2%	2436	98%	0	0%
Iraq	415	89%	312	75%	103	25%	0	0%	415	89%	18	4%	397	96%	0	0%
Jordan	11	100%	0	0%	11	100%	0	0%	7	64%	0	0%	7	100%	0	0%
Egypt	2194	97%	42	2%	2147	98%	5	0%	2202	98%	31	1%	2169	99%	2	0%
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	141	98%	21	15%	117	83%	3	2%	141	98%	8	6%	122	87%	11	8%
Morocco	114	95%	5	4%	109	96%	0	0%	43	36%	5	12%	37	86%	1	2%
Oman	427	98%	30	7%	395	93%	2	0%	427	98%	20	5%	406	95%	1	0%
Pakistan	6633	85%	2747	41%	3886	58%	0	0%	6633	85%	109	2%	6524	98%	0	0%
Palestine	1298	100%	711	55%	462	36%	125	10%	1298	100%	1	0%	1297	100%	0	0%
Qatar	30	100%	6	20%	24	80%	0	0%	21	70%	1	5%	20	95%	0	0%
Saudi Arabia	463	100%	30	6%	433	94%	0	0%	463	100%	27	6%	436	94%	0	0%
Somalia	247	100%	157	74%	53	25%	1	0%	45	21%	0	0%	45	100%	0	0%
Sudan	975	77%	174	18%	778	80%	23	2%	965	77%	289	30%	623	65%	53	5%
Syria	612	100%	16	3%	595	97%	1	0%	608	99%	15	2%	588	97%	5	1%
Tunisia	309	100%	14	5%	289	94%	6	2%	309	100%	38	12%	254	82%	17	6%
UAE	151	88%	30	20%	115	76%	6	4%	132	77%	11	8%	120	91%	1	1%
Yemen	1790	38%	141	8%	1624	91%	25	1%	1790	38%	97	5%	1630	91%	63	4%