

EMR cumulative indigenous Measles/Rubella cases counts and surveillance indicators

Between 01/01/2020 and 31/03/2020

Country	Measles case finding report							Rubella case finding report							Measles incidence/100,000 *	Rubella incidence/100,000 **	Reporting rate ***	Indicators: target ≥80%					Last date reported	Genotypes reported
	Total suspected cases for M/R	Specimens tested for Measles	Measles lab confirmed	Measles Epi-Linked	Measles clinically compatible	Total Measles	Measles discarded cases	Specimens tested for Rubella	Rubella lab confirmed	Rubella Epi-Linked	Rubella clinically compatible	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	297	297	201	0	0	201	88	98	8	0	0	8	90	6.23	0.25	0.27	100%	66%	91%	100%	55%	22/03/2020		
Bahrain	71	71	0	0	0	0	71	71	0	0	0	0	71	0.00	0.00	4.73	100%	100%	99%	100%	99%	29/03/2020		
Djibouti																								
Iran	765	712	0	0	0	0	712	712	0	0	0	0	712	0.00	0.00	0.96	93%	96%	89%	100%	94%	28/03/2020		
Iraq	398	373	292	0	0	292	106	210	15	0	0	15	195	7.86	0.40	0.25	94%	73%	73%	100%	99%	31/03/2020		
Jordan	8	8	0	0	0	0	8	6	0	0	0	0	6	0.00	0.00	0.08	100%	75%	100%	100%	75%	07/01/2020		
Egypt	628	481	0	0	0	0	466	477	0	0	0	0	477	0.00	0.00	0.65	77%	99%	100%	100%	66%	30/03/2020		
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	25	11	0	0	14	14	11	11	0	0	0	0	11	2.44	0.00	0.19	44%	100%	10%	100%	0%	13/03/2020		
Libya	104	103	17	0	0	17	86	103	5	0	0	5	98	2.44	0.72	1.18	99%	69%	30%	100%	92%	16/03/2020		
Morocco	78	78	4	0	0	4	73	15	1	0	0	1	14	0.11	0.03	0.21	100%	99%	99%	100%	92%	15/03/2020		
Oman	301	295	0	0	0	0	291	295	0	0	0	0	295	0.00	0.00	6.60	98%	74%	94%	100%	90%	30/03/2020	B3 imp.	
Pakistan	2589	2134	790	66	527	1383	1046	1905	71	1	0	72	1833	6.47	0.34	0.53	85%	99%	83%	96%	80%	31/03/2020		
Palestine	48	48	6	0	0	6	41	48	0	0	0	0	48	1.27	0.00	0.89	100%	83%	85%	100%	100%	06/03/2020		
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	219	219	22	0	0	22	186	219	13	0	0	13	206	0.68	0.40	0.57	100%	99%	100%	100%	100%	29/03/2020		
Somalia ★	710	60	55	0	650	705	5	4	0	0	0	0	4	50.69	0.00	0.03	8%	9%	100%	100%	57%	31/03/2020		
Sudan	687	524	101	150	0	251	231	523	202	0	0	202	321	5.41	4.35	0.50	98%	99%	85%	97%	94%	25/03/2020		
Syria	203	203	4	0	0	4	196	201	0	0	0	0	201	0.16	0.00	0.81	100%	100%	53%	98%	100%	31/03/2020		
Tunisia	131	131	3	0	0	3	115	131	13	0	0	13	118	0.26	1.14	1.00	100%	85%	66%	100%	97%	05/03/2020		
UAE	59	57	10	0	1	11	39	57	9	0	0	9	48	1.21	0.99	0.43	97%	97%	91%	100%	59%	31/03/2020		
Yemen																								
Total	7354	5838	1508	216	1192	2916	3797	5110	337	1	0	338	4772	4.32	0.07	0.66	90%	91%	82%	98%	76%			

*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 31/03/2020

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	297	297	201	0	0	0	0	0	201	0	0	201	89	94	18									
Bahrain	71	71	0	0	0	0	0	0	0	0	0	0	0	0	0									
Djibouti																								
Iran	765	712	27	0	1	0	24	0	0	0	0	0	0	0	0									
Iraq	398	373	292	0	0	0	0	0	292	0	0	292	85	138	69									
Jordan	8	8	0	0	0	0	0	0	0	0	0	0	0											
Egypt	628	481	2	0	2	0	0	160	0	0	0	0	0	0	0									
Kuwait	3	3	0	0	0	0	0	0	0	0	0	0	0											
Lebanon	25	11	0	0	0	0	0	0	0	0	14	14	5	8	1									
Libya	104	103	17	0	0	0	0	0	17	0	0	17	8	7	2									
Morocco	78	78	4	0	0	0	0	0	4	0	0	4	3	0	1									
Oman	301	295	16	1	2	0	3	4	0	0	0	0	0	0	0									
Pakistan	2589	2134	790	0	0	0	0	85	790	66	527	1383	372	531	480									
Palestine	48	48	7	0	0	0	1	0	6	0	0	6	3	3	0									
Qatar	30	30	6	2	0	0	1	0	3	0	0	3	3	0	0									
Saudi Arabia	219	219	22	0	0	0	0	0	22	0	0	22	5	7	10									
Somalia	710	60	55	0	0	0	0	0	55	0	650	705	300	194	211									
Sudan	687	524	101	0	0	0	0	37	101	150	0	251	63	120	68									
Syria	203	203	6	0	0	0	1	0	4	0	0	4	0	2	2									
Tunisia	131	131	3	0	0	0	0	0	3	0	0	3	2	1	0									
UAE	59	57	10	0	0	0	0	0	10	0	1	11	3	3	5									
Yemen																								
Total	7354	5838	1559	3	5	0	30	286	1508	216	1192	2916	941	1108	867									

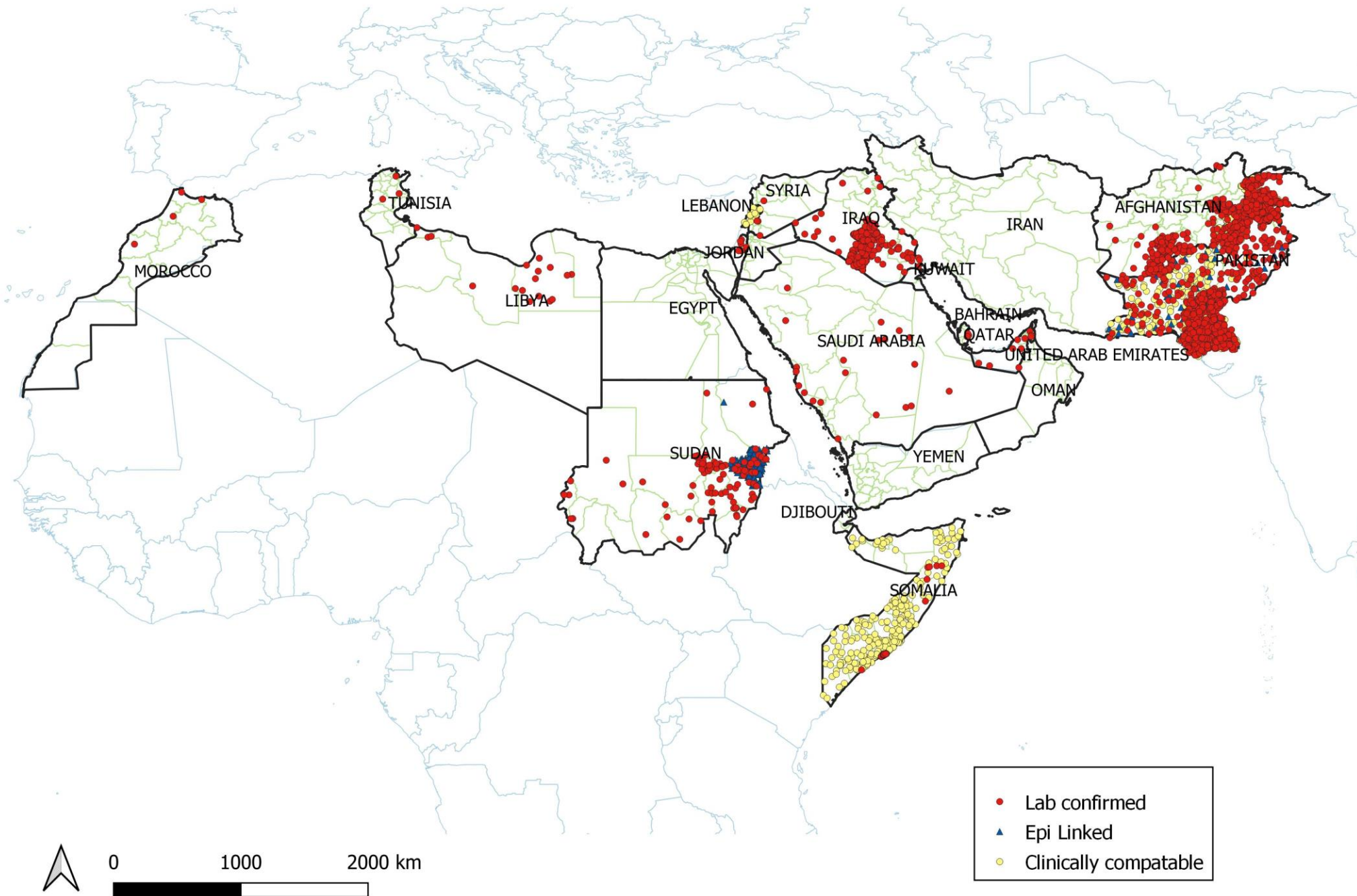
* Imported measles/rubella case – a case exposed to measles outside the country during the 7-21 days prior to rash onset and supported by epidemiological or virological evidence (for rubella the exposure would be during the 12-23 days prior to rash onset)

** 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 March 2020



Rubella final classification and distribution by Month

Between 01/01/2020 and 31/03/2020

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	297	98	8	0	0	0	0	0	8	0	0	8	6	2	0									
Bahrain	71	71	0	0	0	0	0	0	0	0	0	0	0	0	0									
Djibouti																								
Iran	765	712	5	0	0	1	4	0	0	0	0	0	0	0	0									
Iraq	398	210	15	0	0	0	0	0	15	0	0	15	4	7	4									
Jordan	8	6	0	0	0	0	0	0	0	0	0	0	0											
Egypt	628	477	2	0	0	0	0	160	0	0	0	0	0	0	0									
Kuwait	3	3	0	0	0	0	0	0	0	0	0	0	0											
Lebanon	25	11	0	0	0	0	0	0	0	0	0	0	0	0	0									
Libya	104	103	5	0	0	0	0	0	5	0	0	5	2	2	1									
Morocco	78	15	1	0	0	0	0	0	1	0	0	1	1	0	0									
Oman	301	295	13	0	1	0	3	4	0	0	0	0	0	0	0									
Pakistan	2589	1905	71	0	0	0	0	85	71	1	0	72	11	28	33									
Palestine	48	48	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									
Saudi Arabia	219	219	13	0	0	0	0	0	13	0	0	13	5	5	3									
Somalia	710	4	0	0	0	0	0	0	0	0	0	0	0	0	0									
Sudan	687	523	202	0	0	0	0	37	202	0	0	202	28	85	89									
Syria	203	201	1	0	0	0	2	0	0	0	0	0	0	0	0									
Tunisia	131	131	13	0	0	0	0	0	13	0	0	13	8	5	0									
UAE	59	57	9	0	0	0	0	0	9	0	0	9	3	6	0									
Yemen																								
Total	7354	5110	359	1	1	1	9	286	337	1	0	338	68	140	130									

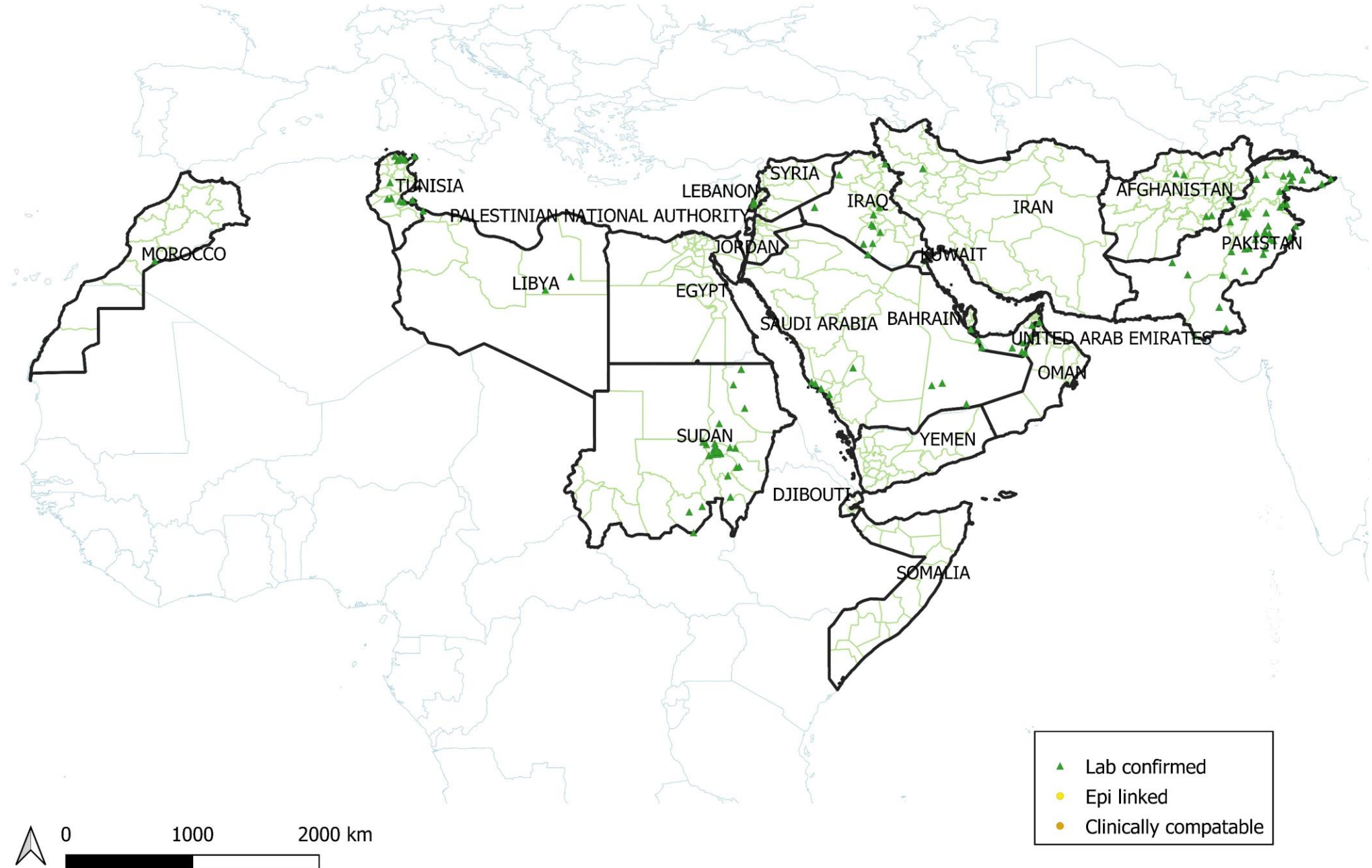
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***Vaccine related case – a suspect case that has a rash like illness without respiratory symptoms and the rash had onset 7-14 days following vaccination and the lab detected IgM in the blood specimen that was collected 8-56 days after vaccination 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 March 2020



Measles and Rubella laboratory summary report

Between 01/01/2020 and 31/03/2020

Country	Measles								Rubella								Reported to EPI within 4days
	specimens tested	%	Positive	%	Negative	%	Equivocal	%	specimens tested	%	Positive	%	Negative	%	Equivocal	%	
Afghanistan	297	100%	201	68%	96	32%	0	0%	98	33%	8	8%	90	92%	0	0%	55%
Bahrain	71	100%	0	0%	71	100%	0	0%	71	100%	0	0%	71	100%	0	0%	99%
Iran	712	93%	27	4%	685	96%	0	0%	712	93%	5	1%	707	99%	0	0%	94%
Iraq	373	94%	292	78%	81	22%	0	0%	210	53%	15	7%	195	93%	0	0%	99%
Jordan	8	100%	0	0%	8	100%	0	0%	6	75%	0	0%	6	100%	0	0%	75%
Egypt	481	77%	2	0%	479	100%	0	0%	477	76%	2	0%	475	100%	0	0%	66%
Kuwait	3	100%	0	0%	3	100%	0	0%	3	100%	0	0%	3	100%	0	0%	
Lebanon	11	44%	0	0%	11	100%	0	0%	11	44%	0	0%	11	100%	0	0%	
Libya	103	99%	17	17%	84	82%	2	2%	103	99%	5	5%	89	86%	9	9%	92%
Morocco	78	100%	4	5%	74	95%	0	0%	15	19%	1	7%	14	93%	0	0%	92%
Oman	295	98%	16	5%	277	94%	2	1%	295	98%	13	4%	281	95%	1	0%	90%
Pakistan	2134	82%	790	37%	1344	63%	0	0%	1905	74%	71	4%	1834	96%	0	0%	80%
Palestine	48	100%	7	15%	41	85%	0	0%	48	100%	0	0%	48	100%	0	0%	100%
Qatar	30	100%	6	20%	24	80%	0	0%	21	70%	1	5%	20	95%	0	0%	64%
Saudi Arabia	219	100%	22	10%	197	90%	0	0%	219	100%	13	6%	206	94%	0	0%	100%
Somalia	60	100%	55	92%	4	7%	1	2%	4	7%	0	0%	4	100%	0	0%	57%
Sudan	524	76%	101	19%	409	78%	14	3%	523	76%	202	39%	293	56%	28	5%	94%
Syria	203	100%	6	3%	197	97%	0	0%	201	99%	1	0%	197	98%	3	1%	100%
Tunisia	131	100%	3	2%	125	95%	3	2%	131	100%	13	10%	114	87%	4	3%	97%
UAE	57	97%	10	18%	46	81%	1	2%	57	97%	9	16%	47	82%	1	2%	59%