

EMR cumulative indigenous Measles/Rubella cases counts and surveillance indicators

Between 01/01/2020 and 30/04/2020

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	80	80	0	0	0	0	80	80	0	0	0	0	80	0.00	0.00	5.33	100%	100%	99%	100%	99%	26/04/2020		
Djibouti																								
Iran	856	787	0	0	0	0	786	787	0	0	0	0	787	0.00	0.00	1.07	92%	95%	88%	100%	94%	30/04/2020		
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	654	481	0	0	0	0	466	477	0	0	0	0	477	0.00	0.00	0.68	74%	99%	100%	100%	64%	18/04/2020		
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	106	105	17	0	0	17	88	105	5	0	0	5	100	2.44	0.72	1.21	99%	70%	30%	100%	92%	25/04/2020		
Morocco	80	80	4	0	0	4	75	17	1	0	0	1	16	0.11	0.03	0.22	100%	99%	99%	100%	90%	20/04/2020		
Oman	313	307	0	0	0	0	296	306	0	0	0	0	306	0.00	0.00	6.86	98%	74%	95%	100%	90%	26/04/2020	B3 imp.	
Pakistan	2857	2247	820	66	619	1505	1092	1985	76	1	0	77	1908	7.04	0.36	0.60	81%	98%	79%	96%	81%	30/04/2020		
Palestine	51	51	6	0	0	6	43	51	0	0	0	0	51	1.27	0.00	0.96	100%	84%	86%	100%	96%	05/04/2020		
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	246	246	28	0	0	28	206	246	14	0	0	14	232	0.86	0.43	0.63	100%	99%	100%	100%	100%	29/04/2020		
Somalia ★	848	60	55	0	788	843	5	4	0	0	0	0	4	60.61	0.00	0.03	7%	7%	100%	100%	57%	30/04/2020		
Sudan	784	547	103	184	0	287	241	544	212	0	0	212	332	6.18	4.57	0.61	91%	99%	85%	97%	93%	20/04/2020		
Syria	251	251	5	0	0	5	241	249	0	0	0	0	249	0.20	0.00	1.01	100%	100%	52%	98%	100%	30/04/2020		
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	62	60	11	0	1	12	41	60	9	0	0	9	51	1.32	0.99	0.45	97%	97%	88%	100%	58%	04/04/2020		
Yemen																								
Total	8098	6158	1550	250	1423	3223	4029	5392	353	1	0	354	5038	4.77	0.52	0.73	87%	88%	81%	98%	74%			

*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 30/04/2020

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	80	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Djibouti																								
Iran	856	787	33	0	1	0	30	35	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									
Egypt	654	481	2	0	2	0	0	186	0	0	0	0	0	0	0	0								
Kuwait	3	3	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	106	105	17	0	0	0	0	0	17	0	0	17	8	7	2	0								
Morocco	80	80	4	0	0	0	0	0	4	0	0	4	3	0	1	0								
Oman	313	307	22	2	5	0	4	6	0	0	0	0	0	0	0	0								
Pakistan	2857	2247	820	0	0	0	0	183	820	66	619	1505	372	531	480	122								
Palestine	51	51	8	0	0	0	2	0	6	0	0	6	3	3	0	0								
Qatar	30	30	6	2	0	0	1	0	3	0	0	3	3	0	0									
Saudi Arabia	246	246	28	0	0	0	0	0	28	0	0	28	5	7	10	6								
Somalia	848	60	55	0	0	0	0	0	55	0	788	843	300	194	211	138								
Sudan	784	547	104	0	0	0	0	80	103	184	0	287	63	120	80	24								
Syria	251	251	8	0	0	0	2	0	5	0	0	5	0	2	2	1								
Tunisia	131	131	3	0	0	0	0	0	3	0	0	3	2	1	0									
UAE	62	60	11	0	0	0	0	0	11	0	1	12	3	3	5	1								
Yemen																								
Total	8098	6158	1616	4	8	0	39	490	1550	250	1423	3223	941	1108	879	295								

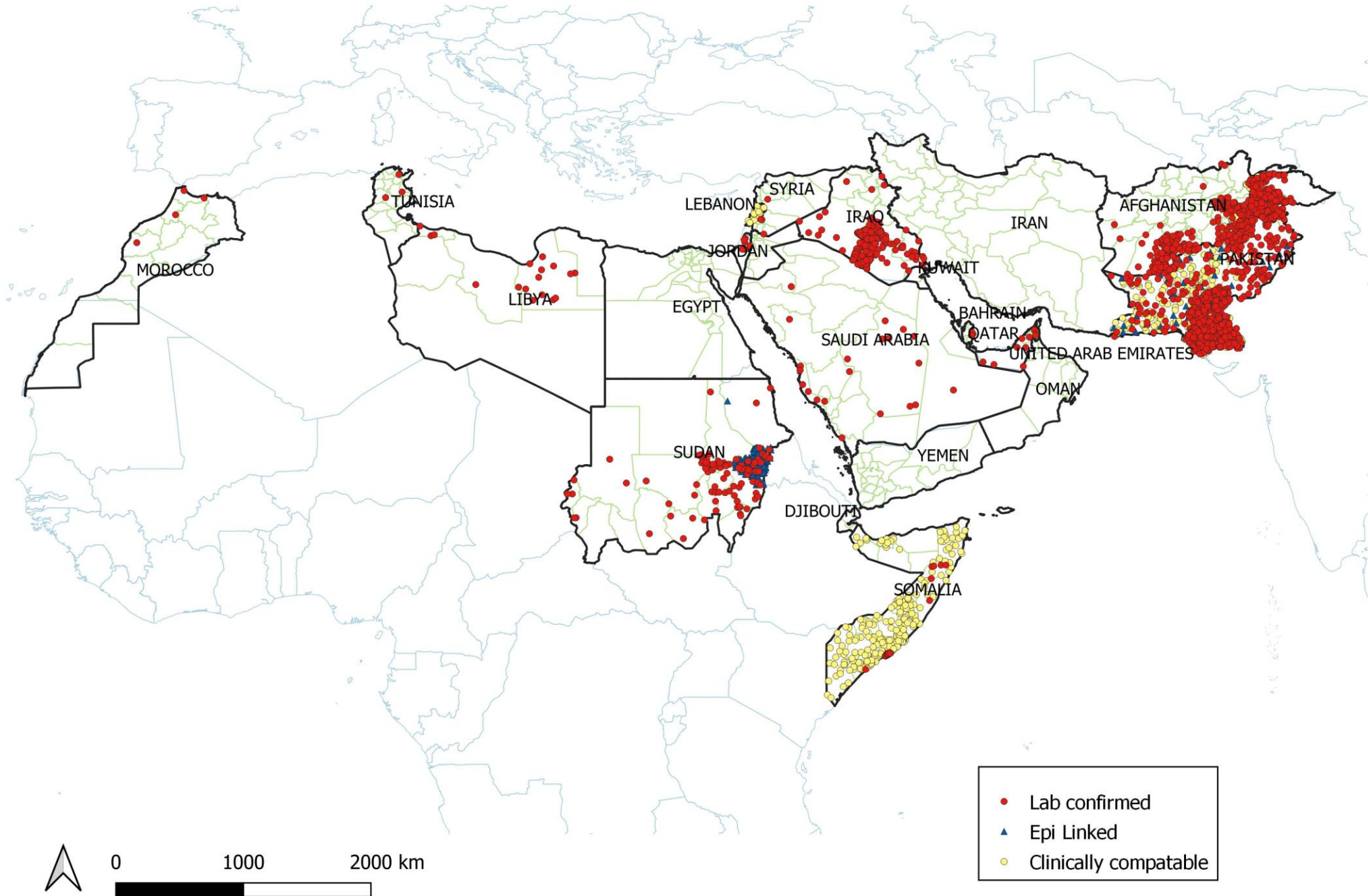
* Imported measles/rubella case – a case exposed to measles outside the country during the 7-21 days prior to rash onset and supported by epidemiological or virological evidence (for rubella the exposure would be during the 12-23 days prior to rash onset)

** 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 April 2020



Rubella final classification and distribution by Month

Between 01/01/2020 and 30/04/2020

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	80	80	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Djibouti																								
Iran	856	787	6	0	0	1	5	35	0	0	0	0	0	0	0	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									
Egypt	654	477	2	0	0	0	0	186	0	0	0	0	0	0	0	0								
Kuwait	3	3	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	106	105	5	0	0	0	0	0	5	0	0	5	2	2	1	0								
Morocco	80	17	1	0	0	0	0	0	1	0	0	1	1	0	0	0								
Oman	313	306	15	0	1	0	4	6	0	0	0	0	0	0	0	0								
Pakistan	2857	1985	76	0	0	0	0	183	76	1	0	77	11	28	33	5								
Palestine	51	51	1	0	0	0	1	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	246	246	14	0	0	0	0	0	14	0	0	14	5	5	3	1								
Somalia	848	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Sudan	784	544	212	0	0	0	0	80	212	0	0	212	28	85	96	3								
Syria	251	249	2	0	0	0	3	0	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	62	60	9	0	0	0	0	0	9	0	0	9	3	6	0	0								
Yemen																								
Total	8098	5392	380	1	1	1	13	490	353	1	0	354	68	140	137	9								

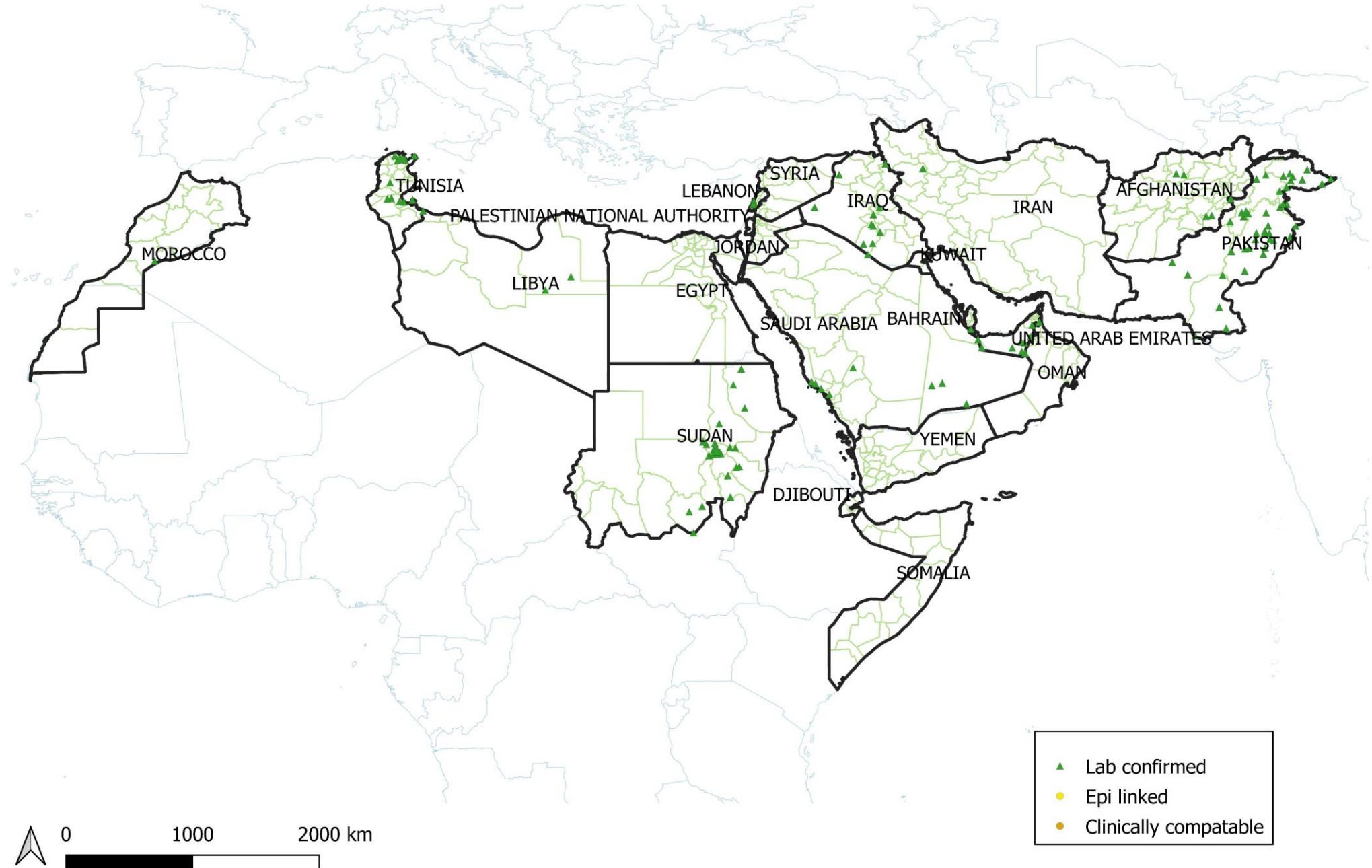
* Imported measles/rubella case – a case exposed to measles outside the country during the 7-21 days prior to rash onset and supported by epidemiological or virological evidence (for rubella the exposure would be during the 12-23 days prior to rash onset)

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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 April 2020



Measles and Rubella laboratory summary report

Between 01/01/2020 and 30/04/2020

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	80	100%	0	0%	80	100%	0	0%	80	100%	0	0%	80	100%	0	0%	99%
Iran	787	92%	33	4%	754	96%	0	0%	787	92%	6	1%	781	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	481	74%	2	0%	479	100%	0	0%	477	73%	2	0%	475	100%	0	0%	64%
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	105	99%	17	16%	86	82%	2	2%	105	99%	5	5%	90	86%	10	10%	92%
Morocco	80	100%	4	5%	76	95%	0	0%	17	21%	1	6%	16	94%	0	0%	90%
Oman	307	98%	22	7%	283	92%	2	1%	306	98%	15	5%	290	95%	1	0%	90%
Pakistan	2247	79%	820	36%	1427	64%	0	0%	1985	69%	76	4%	1909	96%	0	0%	81%
Palestine	51	100%	8	16%	43	84%	0	0%	51	100%	1	2%	50	98%	0	0%	96%
Qatar	30	100%	6	20%	24	80%	0	0%	21	70%	1	5%	20	95%	0	0%	64%
Saudi Arabia	246	100%	28	11%	218	89%	0	0%	246	100%	14	6%	232	94%	0	0%	100%
Somalia	60	100%	55	92%	4	7%	1	2%	4	7%	0	0%	4	100%	0	0%	57%
Sudan	547	70%	104	19%	427	78%	16	3%	544	69%	212	39%	303	56%	29	5%	93%
Syria	251	100%	8	3%	243	97%	0	0%	249	99%	2	1%	244	98%	3	1%	100%
Tunisia	131	100%	3	2%	125	95%	3	2%	131	100%	13	10%	114	87%	4	3%	97%
UAE	60	97%	11	18%	48	80%	1	2%	60	97%	9	15%	50	83%	1	2%	58%