

## EMR cumulative indigenous Measles/Rubella cases counts and surveillance indicators

Between 01/01/2020 and 31/07/2020

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 reorted
	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	516	516	360	0	3	363	143	183	10	0	0	10	173	11.24	0.31	0.44	100%	100%	89%	100%	44%	31/07/2020		
Bahrain	98	98	0	0	0	0	98	98	0	0	0	0	98	0.00	0.00	6.53	100%	100%	99%	100%	98%	27/07/2020		
<b>Djibouti</b>																								
Iran	1530	1461	0	0	1	1	1449	1461	2	0	0	2	1459	0.01	0.03	1.91	95%	97%	92%	100%	95%	31/07/2020		
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%	31/07/2020		
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%	31/07/2020		
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	137	134	20	0	0	20	114	134	8	0	0	8	126	2.87	1.15	1.56	98%	76%	35%	100%	87%	31/07/2020		
Morocco	107	101	5	0	0	5	99	36	3	0	0	3	33	0.14	0.09	0.28	94%	93%	92%	100%	83%	16/07/2020		
Oman	350	343	0	0	0	0	341	343	0	0	0	0	343	0.00	0.00	7.68	98%	100%	93%	100%	90%	25/07/2020	B3 imp.	
Pakistan	3846	2718	1121	68	773	1962	1603	2478	81	1	0	82	2396	9.18	0.38	0.84	72%	96%	76%	92%	91%	31/07/2020		
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%	31/07/2020		
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%	31/07/2020		
Saudi Arabia	282	282	29	0	0	29	239	282	16	0	0	16	266	0.89	0.49	0.73	100%	99%	100%	100%	100%	31/07/2020		
<b>Somalia ★</b>	1436	60	55	0	1376	1431	5	4	0	0	0	0	4	102.89	0.00	0.03	4%	4%	100%	100%	57%	31/07/2020		
Sudan	964	708	147	180	0	327	308	708	267	0	0	267	441	7.04	5.75	0.80	90%	99%	67%	96%	77%	25/07/2020		
Syria	420	420	7	0	0	7	396	417	3	0	0	3	414	0.29	0.12	1.68	100%	100%	54%	99%	99%	30/07/2020		
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	122	108	22	1	12	35	71	96	11	0	4	15	81	3.84	1.64	0.83	89%	98%	81%	99%	86%	23/07/2020		
Yemen	2725	1246	70	0	14	84	1118	1246	29	0	20	49	1197	3.06	1.79	9.52	46%	81%	22%	100%	14%	30/07/2020		
<b>Total</b>	<b>14172</b>	<b>9744</b>	<b>2143</b>	<b>249</b>	<b>2194</b>	<b>4586</b>	<b>7240</b>	<b>8860</b>	<b>461</b>	<b>1</b>	<b>24</b>	<b>486</b>	<b>8374</b>	<b>6.79</b>	<b>0.72</b>	<b>1.47</b>	<b>78%</b>	<b>91%</b>	<b>77%</b>	<b>98%</b>	<b>70%</b>			

\*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 31/07/2020

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	516	516	360	0	0	0	0	0	360	0	3	363	88	92	39	40	27	28	49					
Bahrain	98	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<b>Djibouti</b>																								
Iran	1530	1461	65	0	1	0	62	0	0	0	1	1	0	0	0	0	0	0	1					
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								
Egypt	911	876	3	1	2	0	0	35	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	137	134	21	0	0	0	0	0	20	0	0	20	8	7	2	0	1	0	2					
Morocco	107	101	5	0	0	0	0	0	5	0	0	5	3	0	1	0	0	1	0					
Oman	350	343	24	2	5	0	0	2	0	0	0	0	0	0	0	0	0	0	0					
Pakistan	3846	2718	1121	0	0	0	0	200	1121	68	773	1962	420	637	533	182	107	48	35					
Palestine	53	53	8	0	0	0	2	0	6	0	0	6	3	3	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					
Saudi Arabia	282	282	29	0	0	0	0	0	29	0	0	29	5	7	10	6	1	0	0					
Somalia	1436	60	55	0	0	0	0	0	55	0	1376	1431	300	194	211	138	124	174	290					
Sudan	964	708	147	0	0	0	0	109	147	180	0	327	63	120	83	39	13	8	1					
Syria	420	420	9	0	0	0	2	0	7	0	0	7	0	2	2	1	1	0	1					
Tunisia	193	192	4	0	0	0	0	0	4	0	0	4	2	1	0	0	0	1	0					
UAE	122	108	23	0	0	0	1	0	22	1	12	35	16	8	5	2	1	2	1					
Yemen	2725	1246	70	0	0	0	0	1479	70	0	14	84	16	22	18	9	4	7	8					
<b>Total</b>	<b>14172</b>	<b>9744</b>	<b>2244</b>	<b>5</b>	<b>8</b>	<b>0</b>	<b>68</b>	<b>1825</b>	<b>2143</b>	<b>249</b>	<b>2194</b>	<b>4586</b>	<b>1017</b>	<b>1239</b>	<b>974</b>	<b>420</b>	<b>279</b>	<b>269</b>	<b>388</b>					

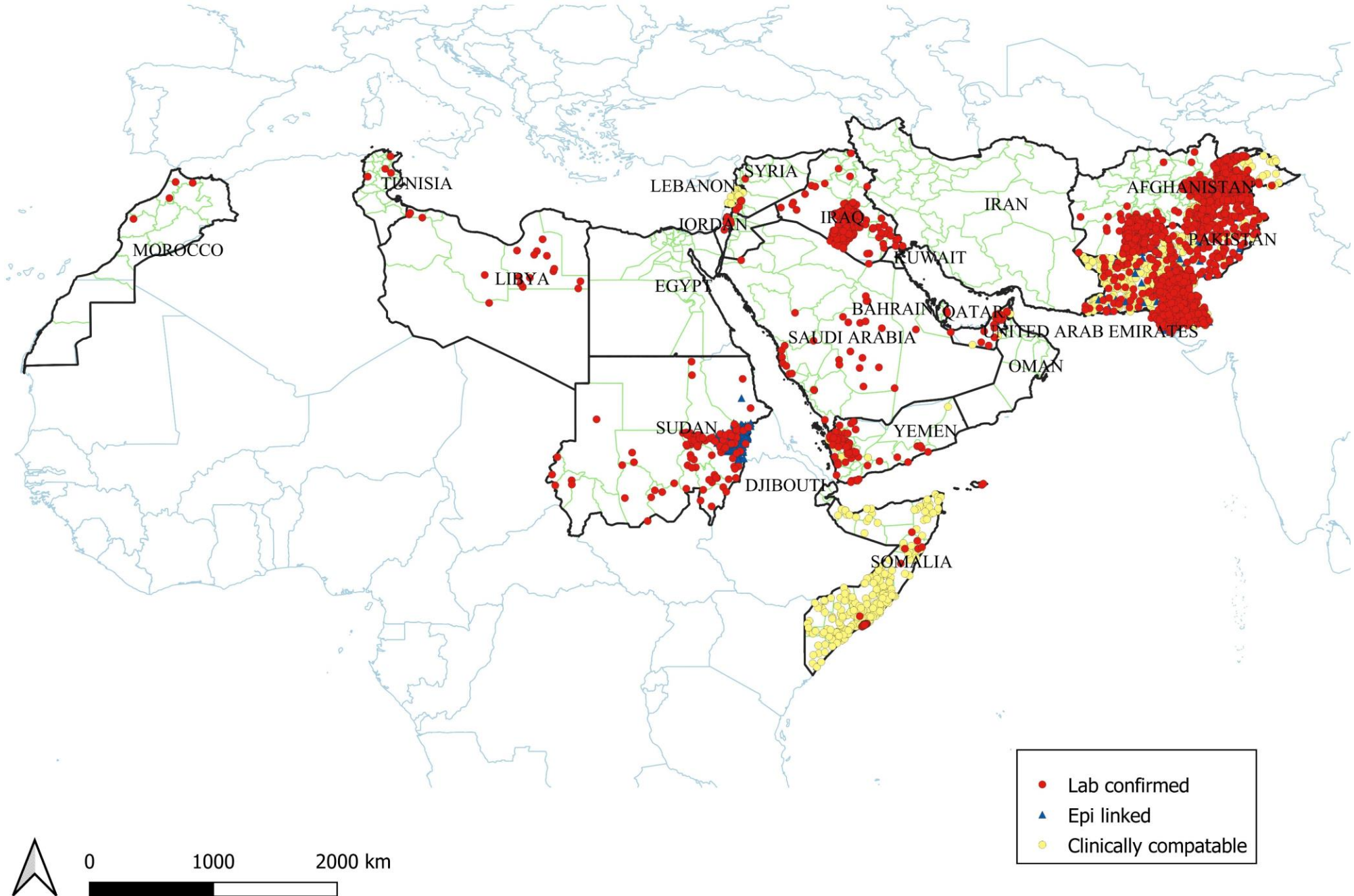
\* Imported measles/rubella case – a case exposed to measles outside the country during the 7-21 days prior to rash onset and supported by epidemiological or virological evidence (for rubella the exposure would be during the 12-23 days prior to rash onset)

\*\* 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 July 2020



## Rubella final classification and distribution by Month

Between 01/01/2020 and 31/07/2020

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	516	183	10	0	0	0	0	0	10	0	0	10	6	2	0	0	0	1	1					
Bahrain	98	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
<b>Djibouti</b>																								
Iran	1530	1461	23	0	0	0	21	0	2	0	0	2	0	1	0	0	1	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	0	0	0	0					
Egypt	911	876	5	0	0	1	0	35	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	137	134	8	0	0	0	0	0	8	0	0	8	2	2	1	0	1	0	2					
Morocco	107	36	5	0	0	0	0	0	3	0	0	3	1	0	0	0	0	1	1					
Oman	350	343	18	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0					
Pakistan	3846	2478	88	0	0	0	0	200	81	1	0	82	10	27	37	6	0	1	1					
Palestine	53	53	1	0	0	0	1	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					
Saudi Arabia	282	282	16	0	0	0	0	0	16	0	0	16	5	5	3	1	0	1	1					
Somalia	1436	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					
Sudan	964	708	267	0	0	0	0	109	267	0	0	267	28	85	110	19	9	8	8					
Syria	420	417	11	0	0	0	12	0	3	0	0	3	0	0	0	0	1	2	0					
Tunisia	193	193	17	0	0	0	0	0	16	0	0	16	8	6	1	0	1	0	0					
UAE	122	96	11	0	0	0	0	0	11	0	4	15	3	7	2	1	1	0	1					
Yemen	2725	1246	29	0	0	0	0	1479	29	0	20	49	16	14	12	4	0	2	1					
<b>Total</b>	<b>14172</b>	<b>8860</b>	<b>525</b>	<b>2</b>	<b>0</b>	<b>1</b>	<b>34</b>	<b>1825</b>	<b>461</b>	<b>1</b>	<b>24</b>	<b>486</b>	<b>83</b>	<b>156</b>	<b>170</b>	<b>31</b>	<b>14</b>	<b>16</b>	<b>16</b>					

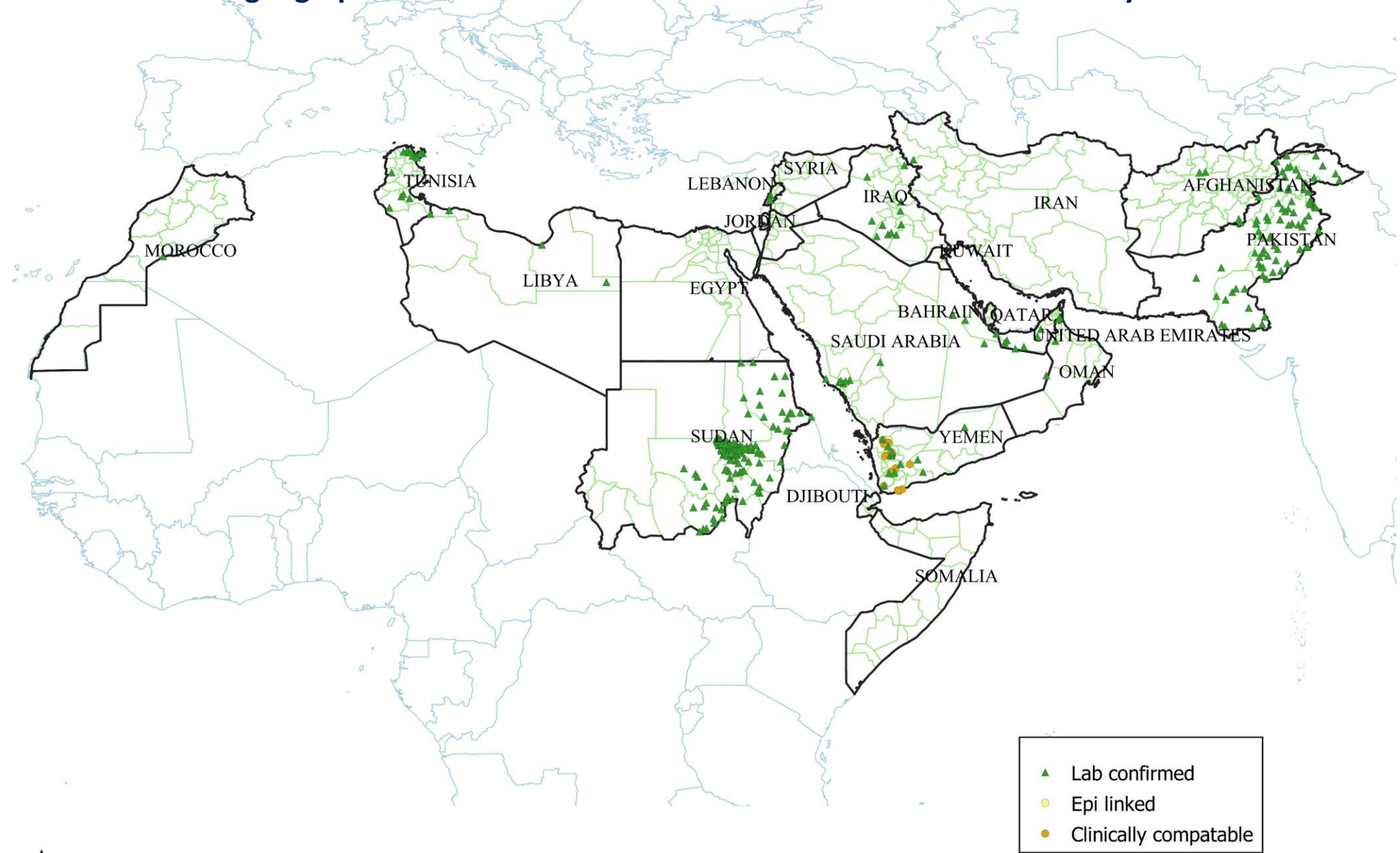
\* Imported measles/rubella case – a case exposed to measles outside the country during the 7-21 days prior to rash onset and supported by epidemiological or virological evidence (for rubella the exposure would be during the 12-23 days prior to rash onset)

\*\* 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 July 2020



# Measles and Rubella laboratory summary report

Between 01/01/2020 and 31/07/2020

Country	Measles								Rubella								Reported to EPI within 4days
	specimens tested	%	Positive	%	Negative	%	Equivocal	%	specimens tested	%	Positive	%	Negative	%	Equivocal	%	
Afghanistan	516	100%	360	70%	148	29%	8	2%	183	35%	10	5%	173	95%	0	0%	44%
Bahrain	98	100%	0	0%	98	100%	0	0%	98	100%	0	0%	98	100%	0	0%	98%
Iran	1461	95%	65	4%	1396	96%	0	0%	1461	95%	23	2%	1438	98%	0	0%	95%
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%	3	0%	873	100%	0	0%	876	96%	5	1%	871	99%	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	134	98%	21	16%	110	82%	3	2%	134	98%	8	6%	115	86%	11	8%	87%
Morocco	101	94%	5	5%	96	95%	0	0%	36	34%	5	14%	30	83%	1	3%	83%
Oman	343	98%	24	7%	316	92%	3	1%	343	98%	18	5%	324	94%	1	0%	90%
Pakistan	2718	71%	1121	41%	1597	59%	0	0%	2478	64%	88	4%	2390	96%	0	0%	91%
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	282	100%	29	10%	253	90%	0	0%	282	100%	16	6%	266	94%	0	0%	100%
Somalia	60	100%	55	92%	4	7%	1	2%	4	7%	0	0%	4	100%	0	0%	57%
Sudan	708	73%	147	21%	540	76%	21	3%	708	73%	267	38%	404	57%	37	5%	77%
Syria	420	100%	9	2%	411	98%	0	0%	417	99%	11	3%	402	96%	4	1%	99%
Tunisia	192	99%	4	2%	185	96%	3	2%	193	100%	17	9%	169	88%	7	4%	88%
UAE	108	89%	23	21%	80	74%	5	5%	96	79%	11	11%	84	88%	1	1%	86%
Yemen	1246	46%	70	6%	1160	93%	16	1%	1246	46%	29	2%	1198	96%	19	2%	14%