

EMR cumulative indigenous Measles/Rubella cases counts and surveillance indicators

Between 01/01/2020 and 30/09/2020

Country	Measles case finding report							Rubella case finding report						Measles incidence/1000,000 *	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	543	542	381	0	3	384	149	190	10	0	0	10	180	11.89	0.31	0.46	100%	100%	89%	100%	45%	20/09/2020	
Bahrain	113	113	0	0	0	0	113	113	0	0	0	0	113	0.00	0.00	7.53	100%	100%	99%	100%	97%	30/09/2020	
Djibouti																							
Iran	1997	1950	0	0	1	1	1876	1950	2	0	0	2	1948	0.01	0.03	2.49	98%	99%	93%	100%	96%	30/09/2020	
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	1617	1580	0	0	0	0	1609	1582	0	0	0	0	1582	0.00	0.00	1.68	98%	99%	99%	100%	57%	30/09/2020	
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	278	272	41	0	0	41	232	272	16	0	0	16	256	5.88	2.30	3.17	98%	76%	35%	100%	86%	16/09/2020	
Morocco	117	111	5	0	0	5	109	41	3	0	0	3	38	0.14	0.09	0.31	95%	94%	89%	100%	81%	28/09/2020	
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	5491	4169	1230	74	858	2162	2954	3924	88	1	0	89	3835	10.12	0.42	1.52	77%	97%	83%	94%	87%	30/09/2020	
Palestine	1291	1291	708	0	125	833	455	1291	0	0	0	0	1291	177.01	0.00	9.73	100%	83%	99%	100%	94%	20/09/2020	
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%	30/09/2020	
Saudi Arabia	322	322	29	0	0	29	274	322	21	0	0	21	301	0.89	0.65	0.84	100%	99%	100%	100%	100%	26/09/2020	
Somalia ★	1848	60	55	0	1788	1843	5	4	0	0	0	0	4	132.51	0.00	0.03	3%	3%	100%	100%	57%	30/09/2020	
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	505	505	11	0	0	11	475	502	4	0	0	4	498	0.45	0.16	2.01	100%	100%	55%	100%	99%	29/09/2020	
Tunisia	272	271	13	0	0	13	236	271	29	0	0	29	242	1.14	2.53	2.01	100%	91%	64%	100%	88%	15/09/2020	
UAE	141	122	23	1	13	37	88	108	11	0	4	15	93	4.06	1.64	1.02	87%	99%	83%	99%	87%	25/09/2020	
Yemen	3625	1504	109	60	19	188	1316	1504	48	13	29	90	1414	6.85	3.28	12.31	42%	84%	6%	100%	93%	30/09/2020	
Total	20011	14351	3062	315	2822	6199	10746	13434	520	14	33	567	12867	9.18	0.84	2.13	80%	93%	77%	98%	73%		

*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 30/09/2020

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	543	542	381	0	0	0	0	0	381	0	3	384	88	92	39	40	27	28	49	16	5			
Bahrain	113	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Djibouti																								
Iran	1997	1950	96	0	1	1	92	0	0	0	1	1	0	0	0	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	11	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Egypt	1617	1580	24	1	2	0	0	4	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										
Lebanon	26	11	0	0	0	0	0	0	0	0	15	15	5	8	1	1								
Libya	278	272	42	0	0	0	0	0	41	0	0	41	16	14	4	0	2	0	5	0	0			
Morocco	117	111	5	0	0	0	0	0	5	0	0	5	3	0	1	0	0	1	0	0	0			
Oman	359	352	25	2	5	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pakistan	5491	4169	1242	0	0	0	0	287	1230	74	858	2162	420	637	536	182	119	53	41	52	122			
Palestine	1291	1291	711	0	0	0	3	0	708	0	125	833	646	187	0	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	0			
Saudi Arabia	322	322	29	0	0	0	0	0	29	0	0	29	5	7	10	6	1	0	0	0	0			
Somalia	1848	60	55	0	0	0	0	0	55	0	1788	1843	300	194	211	138	124	174	290	231	181			
Sudan	1006	755	160	0	0	0	0	105	160	180	0	340	64	121	86	44	13	8	1	3	0			
Syria	505	505	13	0	0	0	2	0	11	0	0	11	0	2	2	1	1	0	3	2	0			
Tunisia	272	271	14	0	0	0	2	0	13	0	0	13	3	2	5	0	0	1	1	0	1			
UAE	141	122	24	0	0	0	1	0	23	1	13	37	16	8	5	2	1	2	1	1	1			
Yemen	3625	1504	111	0	0	0	0	2040	109	60	19	188	26	24	23	13	4	13	13	51	21			
Total	20011	14351	3232	5	8	1	101	2439	3062	315	2822	6199	1680	1434	992	429	292	280	404	356	332			

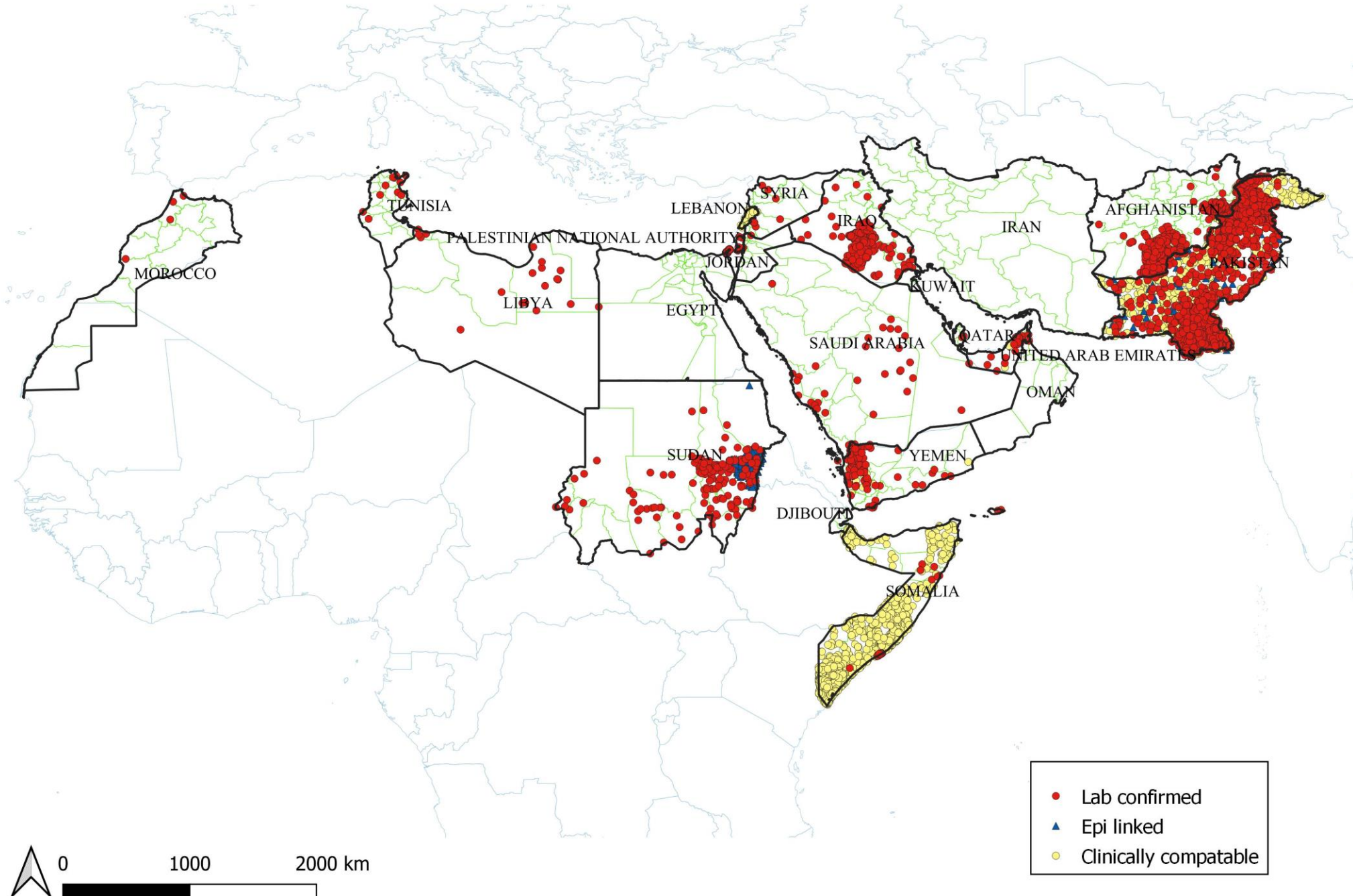
* Imported measles/rubella case – a case exposed to measles outside the country during the 7-21 days prior to rash onset and supported by epidemiological or virological evidence (for rubella the exposure would be during the 12-23 days prior to rash onset)

** 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 September 2020



Rubella final classification and distribution by Month

Between 01/01/2020 and 30/09/2020

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	543	190	10	0	0	0	0	0	10	0	0	10	6	2	0	0	0	1	1	0	0			
Bahrain	113	113	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Djibouti																								
Iran	1997	1950	39	0	0	0	37	0	2	0	0	2	0	1	0	0	1	0	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	0			
Egypt	1617	1582	13	0	0	1	0	4	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										
Lebanon	26	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0								
Libya	278	272	16	0	0	0	0	0	16	0	0	16	4	4	2	0	2	0	4	0	0			
Morocco	117	41	5	0	0	0	0	0	3	0	0	3	1	0	0	0	0	1	1	0	0			
Oman	359	352	19	1	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0			
Pakistan	5491	3924	95	0	0	0	0	287	88	1	0	89	10	27	37	6	0	1	1	1	6			
Palestine	1291	1291	1	0	0	0	1	0	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	0			
Saudi Arabia	322	322	21	0	0	0	0	0	21	0	0	21	5	5	3	1	0	1	1	1	4			
Somalia	1848	4	0	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	0			
Syria	505	502	14	0	0	0	13	0	4	0	0	4	0	0	0	0	1	2	0	0	1			
Tunisia	272	271	32	0	0	0	1	0	29	0	0	29	8	7	6	0	1	3	3	1	0			
UAE	141	108	11	0	0	0	0	0	11	0	4	15	3	7	2	1	1	0	1	0	0			
Yemen	3625	1504	49	0	0	0	0	2040	48	13	29	90	17	16	14	5	0	3	2	9	24			
Total	20011	13434	614	2	0	1	52	2439	520	14	33	567	86	162	178	33	15	20	23	15	35			

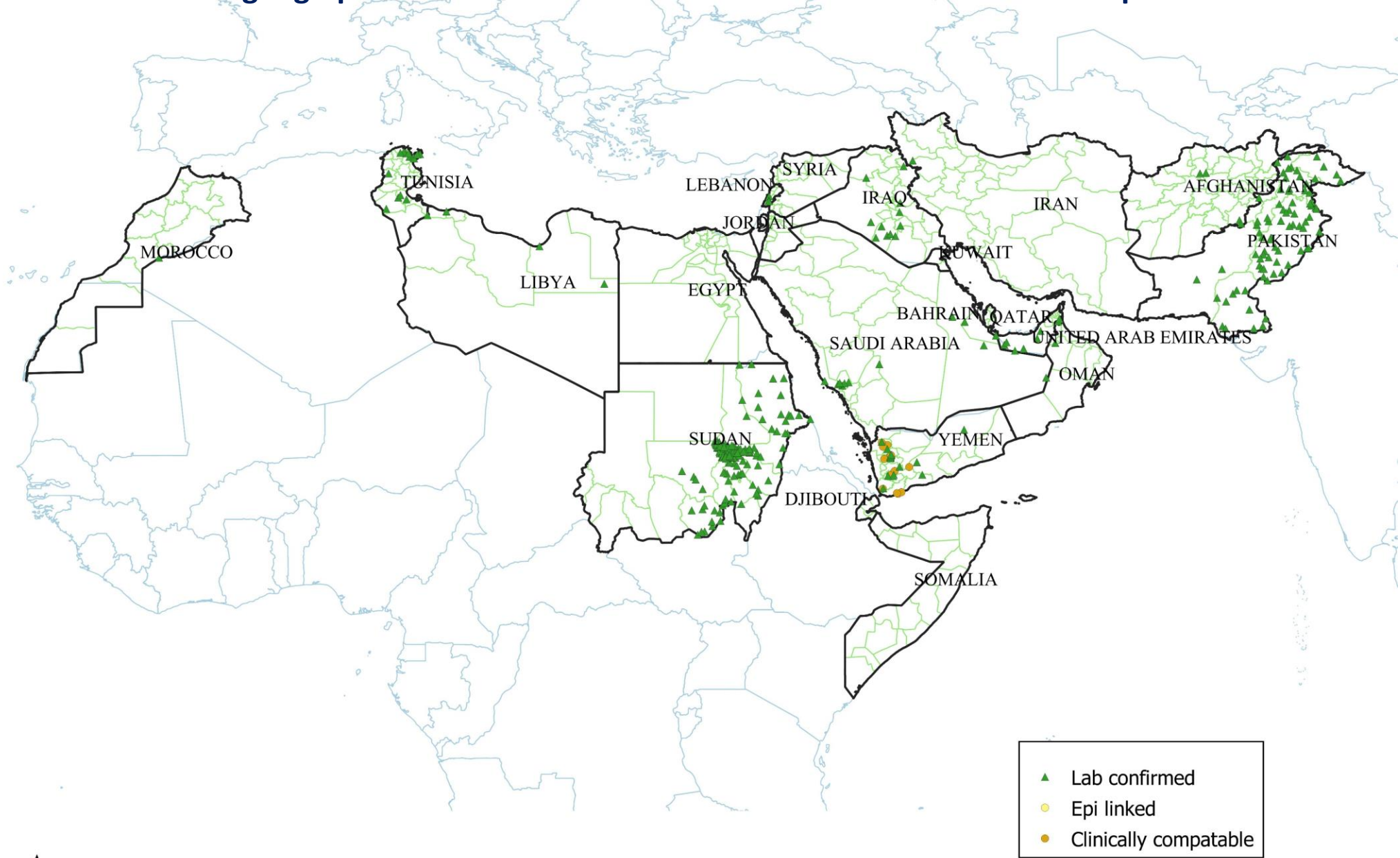
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***Vaccine related case – a suspect case that has a rash like illness without respiratory symptoms and the rash had onset 7-14 days following vaccination and the lab detected IgM in the blood specimen that was collected 8-56 days after vaccination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



Measles and Rubella laboratory summary report

Between 01/01/2020 and 30/09/2020

Country	Measles								Rubella								Reported to EPI within 4days
	specimens tested	%	Positive	%	Negative	%	Equivocal	%	specimens tested	%	Positive	%	Negative	%	Equivocal	%	
Afghanistan	542	100%	381	70%	152	28%	9	2%	190	35%	10	5%	180	95%	0	0%	45%
Bahrain	113	100%	0	0%	113	100%	0	0%	113	100%	0	0%	113	100%	0	0%	97%
Iran	1950	98%	96	5%	1854	95%	0	0%	1950	98%	39	2%	1911	98%	0	0%	96%
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	1580	98%	24	2%	1553	98%	3	0%	1582	98%	13	1%	1568	99%	1	0%	57%
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	272	98%	42	15%	224	82%	6	2%	272	98%	16	6%	234	86%	22	8%	86%
Morocco	111	95%	5	5%	106	95%	0	0%	41	35%	5	12%	35	85%	1	2%	81%
Oman	352	98%	25	7%	324	92%	3	1%	352	98%	19	5%	332	94%	1	0%	90%
Pakistan	4169	76%	1242	30%	2927	70%	0	0%	3924	71%	95	2%	3829	98%	0	0%	87%
Palestine	1291	100%	711	55%	455	35%	125	10%	1291	100%	1	0%	1290	100%	0	0%	94%
Qatar	30	100%	6	20%	24	80%	0	0%	21	70%	1	5%	20	95%	0	0%	64%
Saudi Arabia	322	100%	29	9%	293	91%	0	0%	322	100%	21	7%	301	93%	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	505	100%	13	3%	492	97%	0	0%	502	99%	14	3%	484	96%	4	1%	99%
Tunisia	271	100%	14	5%	251	93%	6	2%	271	100%	32	12%	228	84%	11	4%	88%
UAE	122	87%	24	20%	96	79%	2	2%	108	77%	11	10%	96	89%	1	1%	87%
Yemen	1504	41%	111	7%	1373	91%	20	1%	1504	41%	49	3%	1422	95%	33	2%	93%