

EMR cumulative indigenous Measles/Rubella cases counts and surveillance indicators

Between 01/01/2019 and 31/03/2019

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	Genotype: 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	168	168	73	0	0	73	80	95	15	0	0	15	80	2.26	0.46	0.25	100%	0%	47%	93%	98%	31/03/2019	
Bahrain	113	113	0	0	0	0	109	112	0	0	0	0	112	0.00	0.00	7.53	100%	100%	99%	100%	100%	31/03/2019	
Djibouti																							
Iran	1090	1044	4	0	0	4	1050	1044	3	0	1	4	1040	0.05	0.05	1.36	96%	96%	93%	100%	96%	31/03/2019	
Iraq	416	396	260	0	0	260	147	407	3	0	0	3	404	7.00	0.08	0.41	95%	71%	66%	100%	61%	24/03/2019	D8, B3
Jordan	20	20	0	0	0	0	19	20	0	0	0	0	20	0.00	0.00	0.20	100%	85%	69%	100%	15%	31/03/2019	
Egypt	901	860	0	36	0	36	819	850	0	0	0	0	850	0.37	0.00	0.90	99%	90%	100%	100%	89%	31/03/2019	B3
Kuwait	23	21	5	0	0	5	17	21	1	0	0	1	20	1.20	0.24	0.41	91%	100%	82%	100%	21%	26/03/2019	
Lebanon	598	252	222	2	344	568	30	0	0	0	0	0	0	98.93	0.00	0.52	42%	62%	5%	100%	32%	31/03/2019	
Libya	85	84	35	0	0	35	49	84	7	0	0	7	77	5.02	1.00	0.62	99%	89%	19%	100%	93%	28/03/2019	
Morocco	88	85	3	0	0	3	81	83	6	0	0	6	77	0.09	0.17	0.23	97%	99%	90%	100%	74%	31/03/2019	
Oman	362	358	0	0	0	0	340	358	0	0	0	0	358	0.00	0.00	7.94	99%	99%	93%	100%	93%	31/03/2019	B3
Pakistan	2080	1421	389	122	240	751	1139	961	176	0	0	176	785	3.51	0.82	0.54	73%	63%	45%	94%	95%	31/03/2019	
Palestine	38	38	7	0	0	7	30	36	0	0	0	0	36	1.49	0.00	0.66	100%	97%	95%	100%	89%	31/03/2019	D8
Qatar																							
Saudi Arabia	1441	1441	808	0	0	808	625	1440	9	0	0	9	1431	24.82	0.28	1.92	100%	100%	99%	100%	92%	31/03/2019	
Somalia ★	1205	19	18	0	1186	1204	1	0	0	0	0	0	0	86.57	0.00	0.01	2%	2%	95%	95%	37%	31/03/2019	
Sudan	2308	911	567	601	0	1168	130	510	45	0	0	45	465	25.15	0.97	2.36	53%	100%	78%	94%	29%	30/03/2019	
Syria	204	204	8	0	0	8	190	199	1	0	0	1	198	0.33	0.04	0.80	100%	99%	66%	100%	96%	31/03/2019	
Tunisia	1304	1303	659	0	0	659	628	1303	12	0	0	12	1291	57.57	1.05	5.53	100%	89%	85%	100%	80%	31/03/2019	
UAE	193	176	39	8	11	58	102	159	28	0	2	30	129	6.36	3.29	1.17	95%	94%	93%	99%	90%	30/03/2019	D8, B3
Yemen	3496	0	0	0	0	0	0	0	0	0	0	0	0	0.00	0.00	12.75	0%	86%	45%	100%	0%	31/03/2019	
Total	16133	8914	3097	769	1781	5647	5586	7682	306	0	3	309	7373	8.36	0.46	1.64	63%	86%	73%	98%	69%		

*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 01/01/2019 and 31/03/2019

Country	Total Suspected cases for measles	Total specimens tested	Measles positive ELISA	Imported Measles cases	Measles import related	Unknown source	Vaccine related	Measles Lab confirmed	Measles Epi-Linked	Measles clinically compatible	Total Measles	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Afghanistan	168	168	73	0	0	0	0	73	0	0	73	18	27	28									
Bahrain	113	113	5	1	0	0	2	0	0	0	0	0	0	0									
Djibouti																							
Iran	1090	1044	31	1	0	4	22	4	0	0	4	1	2	1									
Iraq	416	396	260	0	0	0	0	260	0	0	260	58	97	105									
Jordan	20	20	1	0	0	0	1	0	0	0	0	0	0	0									
Egypt	901	860	52	0	45	0	0	0	36	0	36	4	26	6									
Kuwait	23	21	5	0	0	0	0	5	0	0	5	0	3	2									
Lebanon	598	252	222	0	0	0	0	222	2	344	568	127	167	274									
Libya	85	84	35	0	0	0	0	35	0	0	35	14	8	13									
Morocco	88	85	3	0	0	0	0	3	0	0	3	0	0	3									
Oman	362	358	14	2	5	0	12	0	0	0	0	0	0	0									
Pakistan	2080	1421	389	0	0	0	0	389	122	240	751	321	210	220									
Palestine	38	38	8	0	0	0	1	7	0	0	7	0	1	6									
Qatar																							
Saudi Arabia	1441	1441	808	0	0	0	0	808	0	0	808	266	388	154									
Somalia	1205	19	18	0	0	0	0	18	0	1186	1204	488	336	380									
Sudan	2308	911	567	0	0	0	0	567	601	0	1168	469	495	204									
Syria	204	204	8	0	0	0	1	8	0	0	8	2	2	4									
Tunisia	1304	1303	671	5	0	0	0	659	0	0	659	83	327	249									
UAE	193	176	40	0	0	0	3	39	8	11	58	13	28	17									
Yemen	3496	0	0	0	0	0	0	0	0	0	0	0	0	0									
Total	16133	8914	3210	9	50	4	42	3097	769	1781	5647	1864	2117	1666									

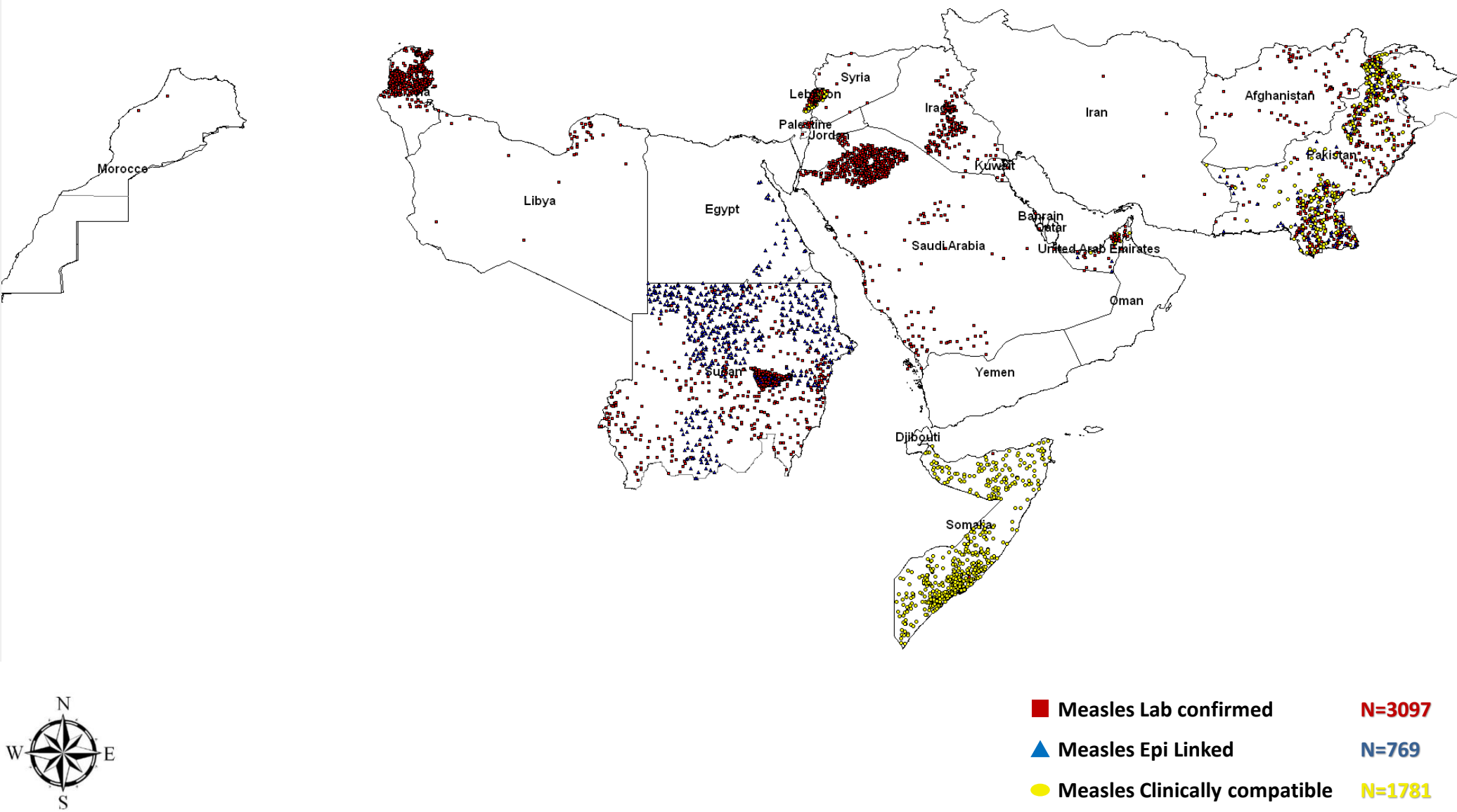
* Imported measles/rubella case – a case exposed to measles outside the country during the 7-21 days prior to rash onset and supported by epidemiological or virological evidence (for rubella the exposure would be during the 12-23 days prior to rash onset)

** 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 2019



Rubella final classification and distribution by Month

Between 01/01/2019 and 31/03/2019

Country	Total Suspected cases for Rubella	Total specimens tested	Rubella positive ELISA	Imported Rubella cases	Rubella import related	Unknown source	Vaccine related	Rubella Lab confirmed	Rubella Epi-Linked	Rubella clinically compatible	Total Rubella	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Afghanistan	168	95	15	0	0	0	0	15	0	0	15	7	1	7									
Bahrain	113	112	2	0	0	0	0	0	0	0	0	0	0	0									
Djibouti	0	0	0	0	0	0	0	0	0	0	0	0	0	0									
Iran	1090	1044	11	0	0	0	8	3	0	1	4	0	3	1									
Iraq	416	407	3	0	0	0	0	3	0	0	3	0	1	2									
Jordan	20	20	0	0	0	0	0	0	0	0	0	0	0	0									
Egypt	901	850	9	0	0	0	0	0	0	0	0	0	0	0									
Kuwait	23	21	1	0	0	0	0	1	0	0	1	0	0	1									
Lebanon	598	0	0	0	0	0	0	0	0	0	0	0	0	0									
Libya	85	84	7	0	0	0	0	7	0	0	7	4	1	2									
Morocco	88	83	6	0	0	0	0	6	0	0	6	0	2	4									
Oman	362	358	7	0	0	0	5	0	0	0	0	0	0	0									
Pakistan	2080	961	176	0	0	0	0	176	0	0	176	18	37	121									
Palestine	38	36	0	0	0	0	0	0	0	0	0	0	0	0									
Qatar																							
Saudi Arabia	1441	1440	14	0	0	0	0	9	0	0	9	3	3	3									
Somalia	1205	0	0	0	0	0	0	0	0	0	0	0	0	0									
Sudan	2308	510	114	0	0	0	0	45	0	0	45	7	37	1									
Syria	204	199	4	0	0	0	4	1	0	0	1	0	1	0									
Tunisia	1304	1303	12	0	0	0	0	12	0	0	12	4	6	2									
UAE	193	159	29	0	0	0	1	28	0	2	30	7	8	15									
Yemen	3496	0	0	0	0	0	0	0	0	0	0	0	0	0									
Total	16133	7682	410	0	0	0	18	306	0	3	309	50	100	159									

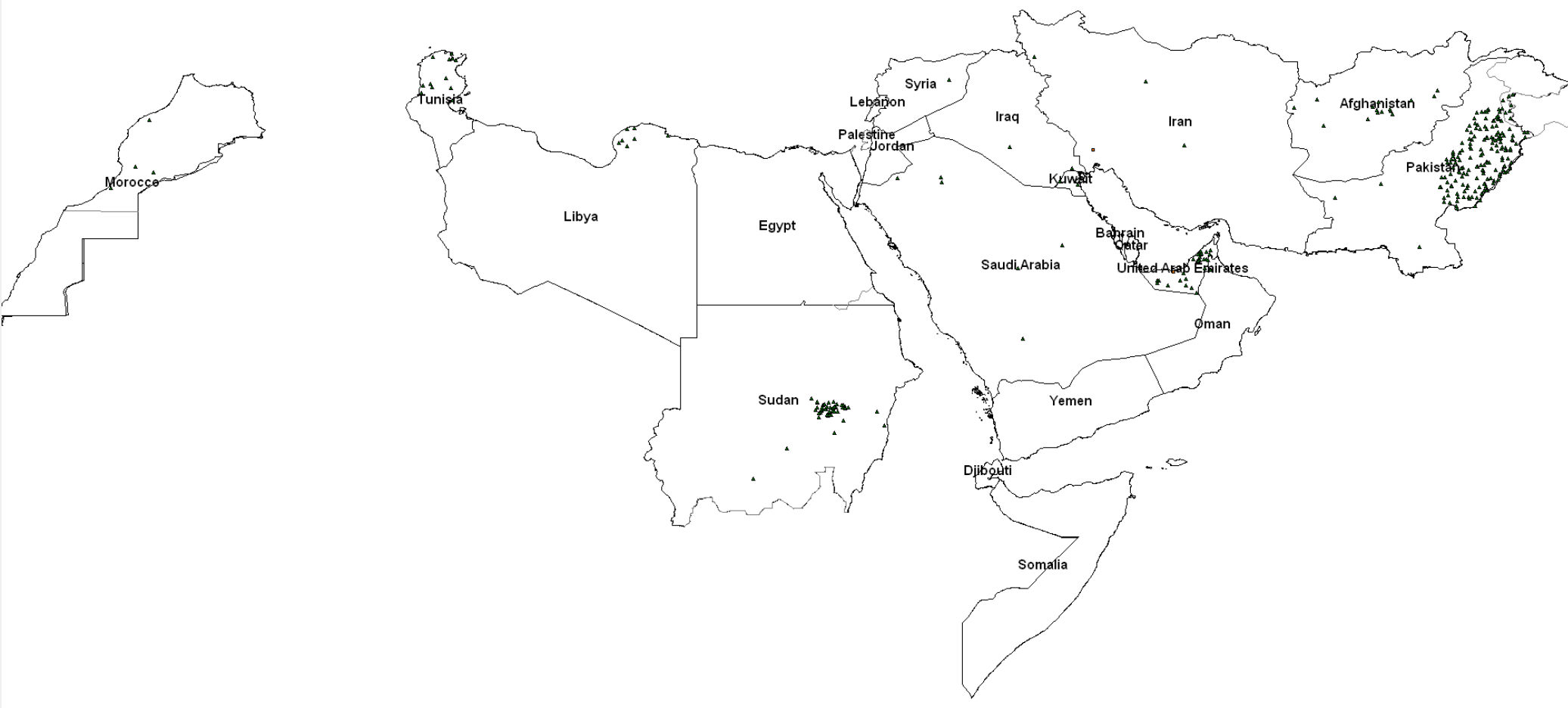
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** Importation related measles/rubella case – a locally acquired infection occurring as part of a chain of transmission originating from an imported case as supported by epidemiological or virological evidence

***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 March 2019



▲ Rubella Lab confirmed	N=306
● Rubella Epi Linked	N=0
■ Rubella clinically compatible	N=3

Measles and Rubella laboratory summary report

Between 01/01/2019 and 31/03/2019

Country	Measles								Rubella								Reported to Epi within 4days
	specimens tested	%	Positive	%	Negative	%	Equivocal	%	specimens tested	%	Positive	%	Negative	%	Equivocal	%	
Afghanistan	168	100%	73	43%	95	57%	0	0%	95	57%	15	16%	80	84%	0	0%	98%
Bahrain	113	100%	5	4%	108	96%	0	0%	112	99%	2	2%	110	98%	0	0%	100%
Iran	1044	96%	31	3%	1013	97%	0	0%	1044	96%	11	1%	1033	99%	0	0%	96%
Iraq	396	95%	260	66%	136	34%	0	0%	407	98%	3	1%	404	99%	0	0%	61%
Jordan	20	100%	1	5%	19	95%	0	0%	20	100%	0	0%	19	95%	1	5%	15%
Egypt	860	95%	52	6%	806	94%	2	0%	850	94%	9	1%	839	99%	2	0%	89%
Kuwait	21	91%	5	24%	16	76%	0	0%	21	91%	1	5%	20	95%	0	0%	21%
Lebanon	252	42%	222	88%	30	12%	0	0%	0	0%	0	#Num!	0	#Num!	0	#Num!	32%
Libya	84	99%	35	42%	40	48%	9	11%	84	99%	7	8%	67	80%	10	12%	93%
Morocco	85	97%	3	4%	81	95%	1	1%	83	94%	6	7%	75	90%	2	2%	74%
Oman	358	99%	14	4%	335	94%	9	3%	358	99%	7	2%	349	97%	2	1%	93%
Pakistan	1421	68%	389	27%	1032	73%	0	0%	961	46%	176	18%	785	82%	0	0%	95%
Palestine	38	100%	8	21%	30	79%	0	0%	36	95%	0	0%	36	100%	0	0%	89%
Saudi Arabia	1441	100%	808	56%	633	44%	0	0%	1440	100%	14	1%	1426	99%	0	0%	92%
Somalia	19	100%	18	95%	1	5%	0	0%	0	0%	0	#Num!	0	#Num!	0	#Num!	37%
Sudan	911	39%	567	62%	334	37%	10	1%	510	22%	114	22%	328	64%	68	13%	29%
Syria	204	100%	8	4%	193	95%	3	1%	199	98%	4	2%	193	97%	2	1%	96%
Tunisia	1303	100%	671	51%	619	48%	13	1%	1303	100%	12	1%	1291	99%	0	0%	80%
UAE	176	91%	40	23%	130	74%	6	3%	159	82%	29	18%	129	81%	1	1%	90%
Yemen	0	0%	0	#Num!	0	#Num!	0	#Num!	0	0%	0	#Num!	0	#Num!	0	#Num!	0%

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