

**Table (1) Measles weekly Bulletin WHO/MoH Iraq
Surveillance summary and analysis of selected performance indicators for measles/rubella surveillance-Iraq
2010; first 39 weeks compared with all 2009**

Province	Suspect measles		Cases tested for measles		Measles lab confirmed		Total confirmed measles		Annualized Measles incidence/million		Total rubella cases	
	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010**	2009	2010
ANBAR	126	3	19	1	12	1	119	3	75	3	0	0
BABYLON	3308	31	381	28	333	0	3260	3	1787	2	27	1
BA-KARKH	3154	125	583	52	436	18	3007	91	847	34	26	0
BA-RESAFA	6701	120	1018	73	830	5	6515	52	1590	17	26	2
BASRAH	1180	89	182	85	135	2	1133	6	415	3	7	2
DAHUK	59	19	25	17	15	7	49	9	49	12	0	1
DIWANIYA	1710	25	419	19	376	0	1667	6	1419	7	8	2
DIYALA	2290	36	97	15	80	9	2273	30	1606	28	2	0
ERBIL	99	14	52	13	45	2	92	3	54	2	2	0
KERBALA	1227	25	295	25	269	0	1201	0	1200	0	16	1
KIRKUK	448	152	64	128	51	100	435	124	348	132	2	1
MISSAN	1782	19	156	8	88	0	1714	11	1647	14	4	0
MUTHANNA	932	10	92	8	73	0	913	2	1169	3	3	0
NAJAF	307	32	141	29	135	0	301	3	233	3	6	1
NINEWA	1118	102	242	88	192	50	1068	64	325	26	12	1
SALAHADIN	185	13	15	9	11	7	181	11	129	10	0	0
SULAYMANIA	169	47	98	18	76	8	147	37	84	28	3	0
THI-QAR	1149	59	208	49	153	0	1094	10	617	8	10	0
WASSIT	4384	54	267	38	212	1	4329	17	3711	19	13	1
Iraq	30328	975	4354	703	3522	210	29498	482	872	19	167	13

Serious problems in measles reporting in one DoH

Yellow shading past measles outbreak

****Annualized data**

Red shading current intense measles transmission, Total confirmed measles= Total suspect measles-discarded. All notified cases without clinical, lab or Epi link are considered as confirmed.

Table (2) Cumulative measles/rubella case finding report up to week 39 ending 03 October 2010

Province	Total population	Measles case finding report							Rubella case finding report			
		total reported cases	No. of specimen tested for measles	MEASLAB confirmed	Count of MEASEPI linked	Count of MEASCLIN diagnosed	total confirmed measles	Count of discarded measles	count of Rubella tested	Rubella Lab confirmed	rubella EPI linked	total discarded rubella
ANBAR	1,593,531	3	1	1	0	2	3	0	1	0	0	1
BABYLON	1,824,251	31	28	0	0	3	3	28	28	1	0	27
BA-KARKH	3,549,800	125	52	18	0	73	91	34	52	0	0	51
BA-RESAFA	4,097,682	120	73	5	8	39	52	68	73	2	0	71
BASRAH	2,732,495	89	85	2	0	4	6	83	85	2	0	81
DAHUK	990,535	19	17	7	2	0	9	10	17	1	0	16
DIWANIYA	1,175,053	25	19	0	0	6	6	19	19	2	0	17
DIYALA	1,415,301	36	15	9	3	18	30	6	15	0	0	14
ERBIL	1,707,260	14	13	2	0	1	3	11	13	0	0	13
KERBALA	1,000,546	25	25	0	0	0	0	25	25	1	0	23
KIRKUK	1,251,241	152	128	100	2	22	124	28	128	1	0	127
MISSAN	1,040,440	19	8	0	0	11	11	8	8	0	0	8
MUTHANNA	780,802	10	8	0	0	2	2	8	8	0	0	8
NAJAF	1,293,603	32	29	0	0	3	3	29	29	1	0	27
NINEWA	3,290,611	102	88	50	9	5	64	38	88	1	0	86
SALAHADIN	1,402,411	13	9	7	0	4	11	2	9	0	0	9
SULAYMANI	1,753,018	47	18	8	0	29	37	10	18	0	0	18
THI-QAR	1,772,302	59	49	0	0	10	10	49	49	0	0	49

WASSIT	1166475	54	38	1	0	16	17	37	38	1	0	37
Iraq	33,837,357	975	703	210	24	248	482	493	703	13	0	683

Table (3) Cumulative measles/rubella case count and surveillance indicators up to week 39 ending 03 October 2010

Province	Total population	** Measles incidence	*** Annualized measles reporting rate	Indicators target >80%				
				% of suspected tested for measles IgM	% with complete investigation	% of specimens received at the NML within 7 days	% adequate specimens	% results reported to EPI within 7 days
ANBAR	1,593,531	3	0.0	100%	27%	100%	100%	100%
BABYLON	1,824,251	2	2	100%	73%	82%	100%	96%
BA-KARKH	3,549,800	34	1	100%	76%	87%	100%	84%
BA-RESAFA	4,097,682	17	2	83%	65%	63%	75%	82%
BASRAH	2,732,495	3	4	93%	86%	98%	95%	91%
DAHUK	990,535	12	1	100%	57%	18%	89%	65%
DIWANIYA	1,175,053	7	2	100%	54%	84%	95%	47%
DIYALA	1,415,301	28	1	100%	57%	80%	78%	67%
ERBIL	1,707,260	2	1	93%	65%	69%	93%	83%
KERBALA	1,000,546	0	3	100%	67%	100%	100%	96%
KIRKUK	1,251,241	132	3	100%	60%	87%	98%	88%
MISSAN	1,040,440	14	1	100%	44%	100%	100%	88%
MUTHANNA	780,802	3	1	100%	55%	75%	100%	75%
NAJAF	1,293,603	3	3	91%	56%	100%	94%	86%
NINEWA	3,290,611	26	2	95%	62%	89%	87%	82%
SALAHADIN	1,402,411	10	0.2	69%	14%	78%	69%	89%
SULAYMANIA	1,753,018	28	1	100%	56%	72%	100%	89%
THI-QAR	1,772,302	8	4	98%	36%	59%	96%	96%
WASSIT	1166475	19	4	83%	71%	34%	83%	95%

Iraq	33,837,357	19	2	94%	65%	79%	91%	86%
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** This figure represents lab confirmed+EPI linked +clinical measles. *** This figure represents non-measles suspect cases/100,000 population.

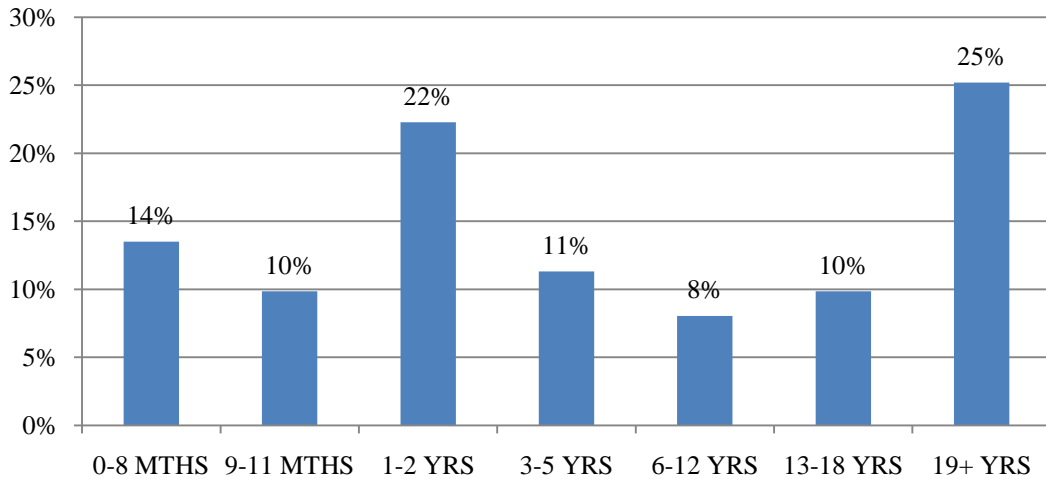
EMRO definition of complete investigation = DISTRICT + age + SEX + DRASH + VACCINFO (1 or 2) + DLM + MEASLES1 (1 or 2 or 3) if spec collected.

Red shading measles intense transmission, there is a need for urgent steps to improve routine measles coverage.

Yellow Shading Indicator not met.

Wasit; Salahaddin; Baghdad Resafa; have clear week measles surveillance **indicators**

Fig (1) Confirmed measles by agegroup first 39 weeks 2010



It is quite clear that around 14% of confirmed measles cases are still occurring among infants below the age of vaccination, while 46% of confirmed measles cases occurred in the age group below 2 years of age. MoH is planning H to H immunization national campaign to immunize all less than 3 years of age using mono-valent measles vaccine.

33% of cases are occurring among 1-5 year old children which points to several weaknesses in routine and SIAs. 25% of confirmed measles cases in 2010 are among those above 19 year-old young adults (obvious shifting toward older age groups), more effort is needed to target university students, military recruits and those leaving school but the priority is still for <5 children.

Fig (2) Confirmed measles cases by international weeks; Kirkuk & Ninewa Provinces; up to week 39, 2010

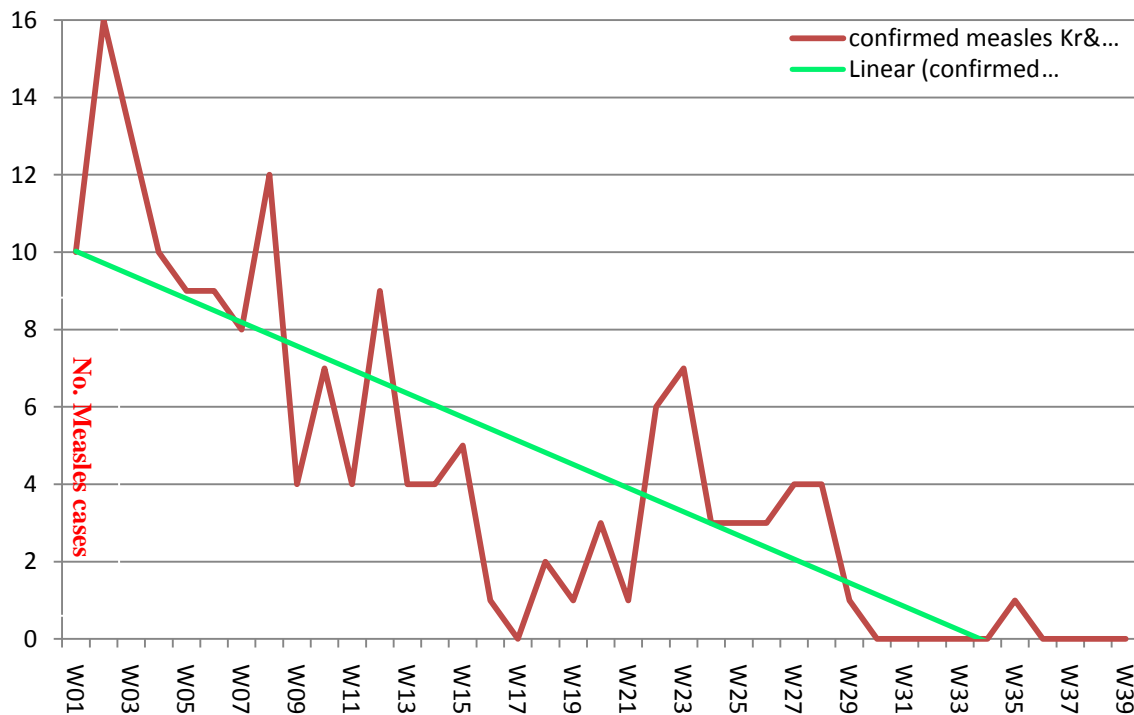


Fig (2) shows that measles outbreaks in Kirkuk and Ninewa seem to be under control, serious efforts to stop the last chains of transmission have been done, however, neighboring DoHs, such as Erbil, Duhok and Sulaymaniyah should be on the alert.

Fig. (3) shows that following the control of the outbreak in Kirkuk and Ninewa, the overall measles trend in the country started to show a general downtrend.

Fig (3) Confirmed measles cases by international weeks; kirkuk & Ninewa Provinces; up to week 39, 2010

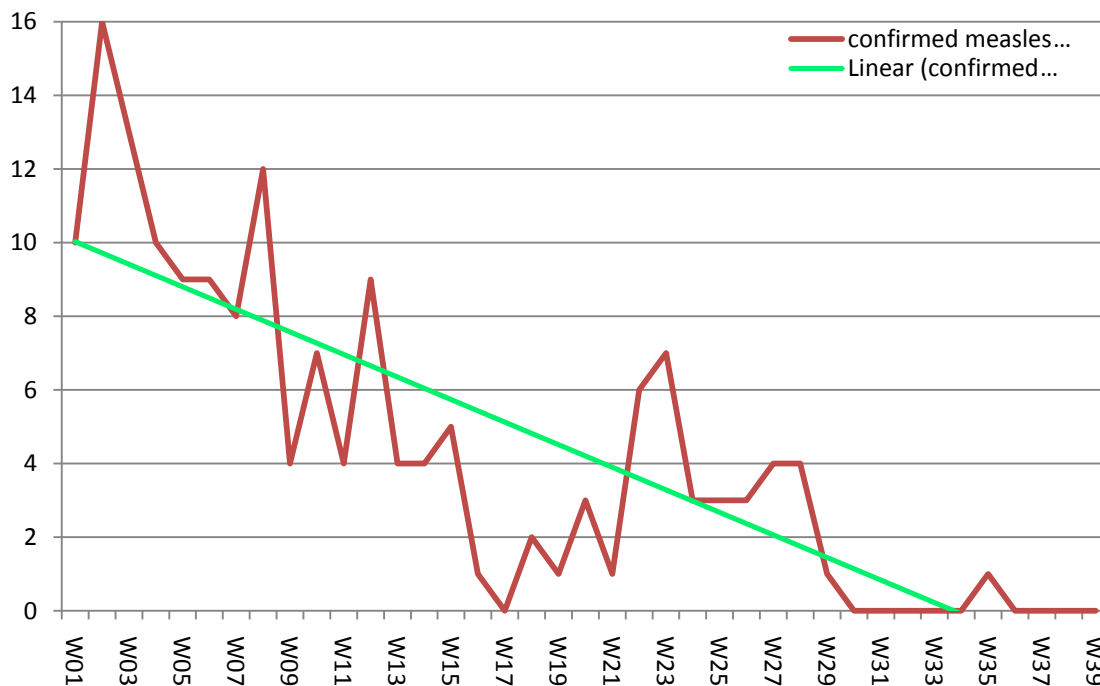


Fig (4) Annulaized measles incid/million population, Iraq; up to week 39 of 2010

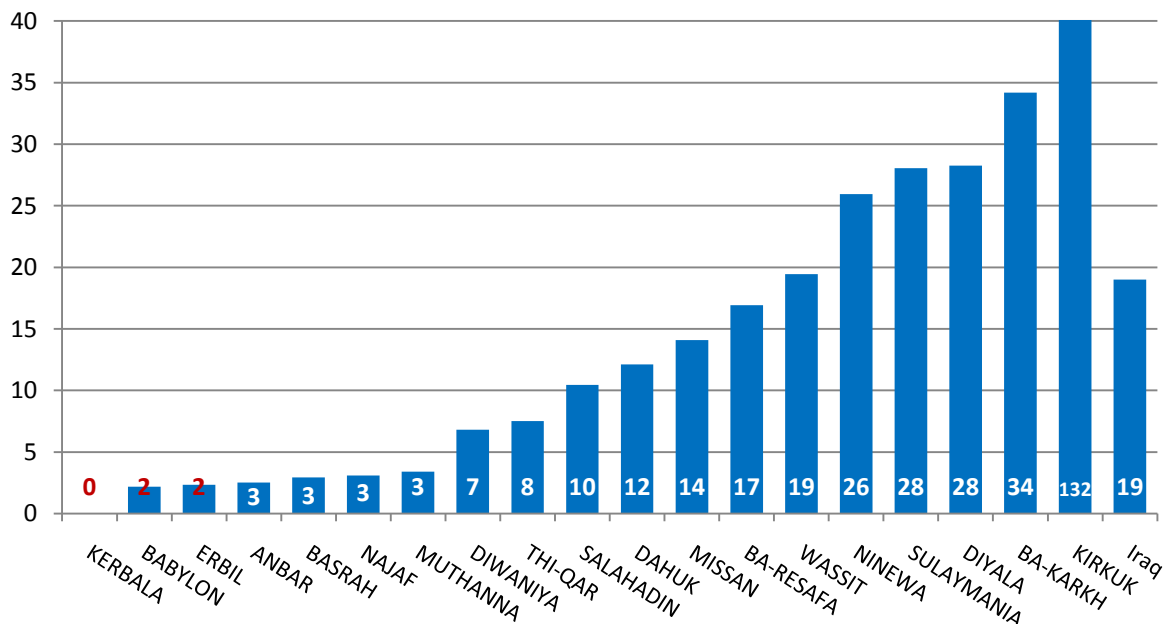


Fig (4) shows intense transmission in 12 DoH; although the outbreak has been controlled in all DoH; therefore any new confirmed case/s need to be thoroughly investigated to identify the sources and secondary cases.

Fig (5) Annulaized Non measles rate /100,000 population ; first 39 weeks; 2010; Iraq

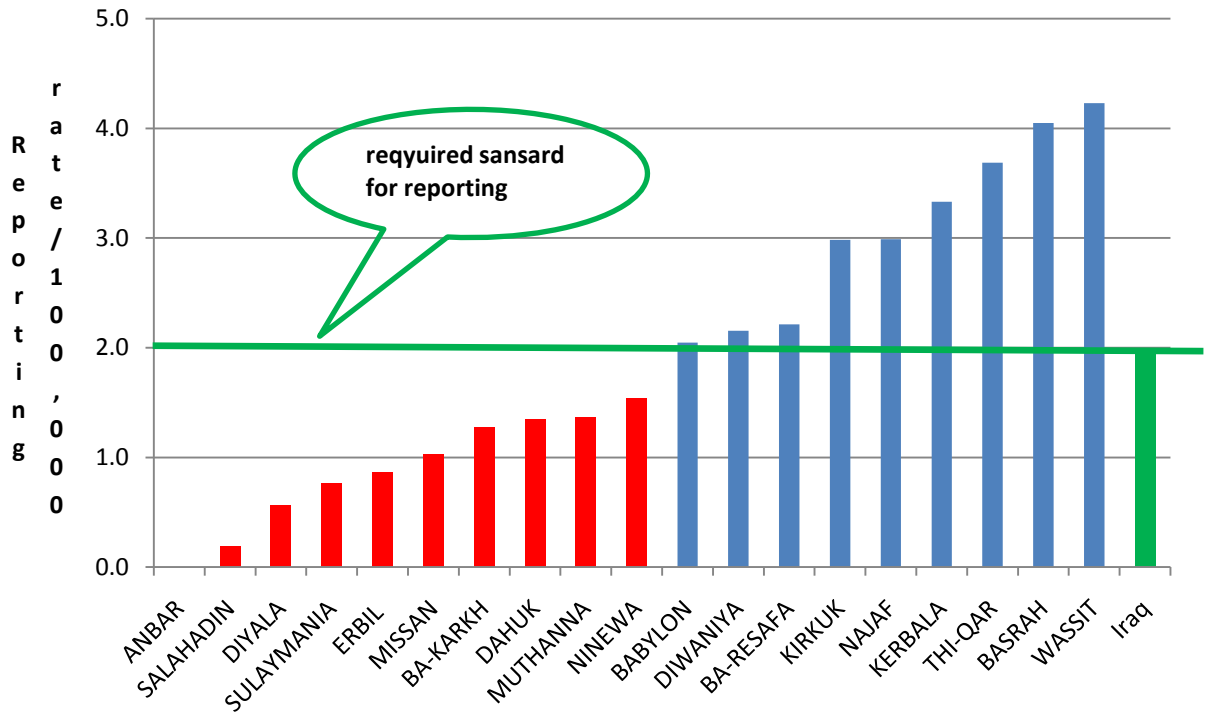


Fig (5) shows that the reporting rate is within the acceptable level of 2/100,000 population in the country as a whole and another 9 DoH; however, in 10 DoH more effort is needed to achieve the required standard for adequate surveillance.

Confirmed measles cases Iraq, all 2009 and the first 39 weeks of 2010

