

Table (1) Measles weekly Bulletin WHO/MoH Iraq
Surveillance summary and analysis of selected performance indicators for measles/rubella surveillance-Iraq 2010 & 2011 up to week 25

Province	Suspect measles		Cases tested for measles		Measles lab confirmed		Total confirmed measles		Annualized Measles incidence/million		Annualized Measles reporting rate/100,000		Total rubella cases	
	2010	2011	2010	2011	2010	2011	2010	2011	2010	2011**	2010	2011**	2010	2011
ANBAR	2	8	1	8	1	0	2	0	3	-	0.29	1.14	0	0
BABYLON	26	9	21	9	0	0	5	0	6	-	3.33	1.12	1	0
BA-KARKH	98	45	44	37	16	0	70	8	46	5	6.46	2.88	0	1
BA-RESAFA	80	56	50	41	5	0	35	15	20	8	4.57	3.10	2	1
BASRAH	63	59	56	59	2	0	9	0	8	-	5.39	4.90	2	1
DAHUK	20	21	11	21	7	0	16	0	38	-	4.72	4.81	1	1
DIWANIYA	22	18	15	18	0	2	7	2	14	4	4.38	3.48	2	1
DIYALA	33	10	12	10	8	1	29	1	48	2	5.45	1.60	0	0
ERBIL	12	4	9	3	1	0	4	1	5	1	1.64	0.53	0	0
KERBALA	21	22	21	22	0	0	0	0	-	-	4.91	4.99	1	0
KIRKUK	131	14	105	14	86	0	112	0	209	-	24.48	2.54	1	0
MISSAN	12	15	2	15	0	0	10	0	22	-	2.70	3.27	0	0
MUTHANNA	6	18	5	17	0	0	1	1	3	3	1.80	5.23	0	0
NAJAF	29	28	27	28	0	0	2	0	4	-	5.24	4.91	1	1
NINEWA	90	29	75	29	49	0	64	0	45	-	6.40	2.00	1	1
SALAHADIN	9	3	5	1	5	0	9	2	15	3	1.50	0.49	0	0
SULAYMANIA	35	17	18	16	8	0	25	1	33	1	4.67	2.20	0	0
THI-QAR	47	36	35	32	0	0	12	4	16	5	6.20	4.61	0	0
WASSIT	39	70	20	65	1	1	20	6	40	12	7.82	13.62	1	0
Iraq	775	482	532	445	189	4	432	41	30	3	5.36	3.23	13	6

Serious problems in measles reporting in one DoH

Blue shading measles surveillance needs to be strengthened.

Yellow shading suspect current measles transmission; 4 DoH reported 12 cases but blood sample were collected and investigation form was received for only 4 cases. The remaining cases were diagnosed.

**Annualized data

Red shading past 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 25 year 2011

Province	Total Population	Measles case finding report						Rubella case finding report			
		Suspect measles	Measles lab confirmed	MEAS EPI linked	MEAS CLIN diagnosed	Measles total confirmed	discarded measles	Rubella tested	Rubella Lab confirmed	rubella EPI linked	discarded rubella
ANBAR	1,459,895	8	0	0	0	0	8	8	0	0	8
BABYLON	1,671,267	9	0	0	0	0	9	9	0	0	9
BA-KARKH	3,252,109	45	0	0	8	8	37	45	1	0	37
BA-RESAFA	3,754,045	56	0	0	15	15	41	56	1	0	41
BASRAH	2,503,344	59	0	0	0	0	58	59	1	0	58
DAHUK	907,467	21	0	0	0	0	21	21	1	0	21
DIWANIYA	1,076,511	18	2	0	0	2	16	18	1	0	16
DIYALA	1,296,612	10	1	0	0	1	9	10	0	0	9
ERBIL	1,564,087	4	0	0	1	1	3	4	0	0	3
KERBALA	916,639	22	0	0	0	0	22	22	0	0	22
KIRKUK	1,146,310	14	0	0	0	0	14	14	0	0	14
MISSAN	953,187	15	0	0	0	0	15	15	0	0	15
MUTHANN A	715,323	18	0	0	1	1	17	18	0	0	17
NAJAF	1,185,120	28	0	0	0	0	28	28	1	0	28
NINEWA	3,014,656	29	0	0	0	0	29	29	1	0	29

SALAHADI N	1,284,803	3	0	0	2	2	1	3	0	0	1
SULAYMA NIA	1,606,008	17	0	0	1	1	16	17	0	0	16
THI-QAR	1,623,674	36	0	0	4	4	32	36	0	0	32
WASSIT	1,068,653	70	1	0	5	6	64	70	0	0	64
IRAQ	30,999,711	482	4	0	37	41	440	482	6	0	440

Table (3) Cumulative measles/rubella case count and surveillance indicators up to week 25 of Year 2011

Province	Total population	*** Measles reporting rate	** Measles Incidence	Indicators target >80%				
				% of suspected tested for measles IgM	% with complete investigation	% specimens received at NML within 7 days	% adequate specimens	% results reported to EPI within 7 days
ANBAR	1,459,895	1.14	-	100%	25%	100%	100%	100%
BABYLON	1,671,267	1.12	-	100%	33%	56%	100%	100%
BA-KARKH	3,252,109	2.88	5	100%	38%	89%	100%	92%
BA-RESAFA	3,754,045	3.10	8	93%	27%	60%	95%	93%
BASRAH	2,503,344	4.90	-	100%	56%	98%	100%	90%
DAHUK	907,467	4.81	-	100%	38%	33%	100%	95%
DIWANIYA	1,076,511	3.48	4	100%	17%	61%	100%	100%
DIYALA	1,296,612	1.60	2	100%	50%	100%	100%	90%
ERBIL	1,564,087	0.53	1	75%	50%	100%	75%	100%
KERBALA	916,639	4.99	-	100%	36%	100%	100%	95%
KIRKUK	1,146,310	2.54	-	100%	71%	86%	100%	86%
MISSAN	953,187	3.27	-	100%	7%	93%	93%	100%
MUTHANNA	715,323	5.23	3	100%	18%	88%	100%	94%
NAJAF	1,185,120	4.91	-	100%	43%	100%	100%	100%
NINEWA	3,014,656	2.00	-	100%	52%	76%	97%	100%
SALAHADIN	1,284,803	0.49	3	100%	100%	0%	100%	100%
SULAYMANI	1,606,008	2.20	1	100%	50%	56%	100%	100%
THI-QAR	1,623,674	4.61	5	97%	6%	58%	97%	91%
WASSIT	1,068,653	13.62	12	100%	35%	49%	100%	100%

Iraq	30,999,71	3.23	3	99%	37%	74%	99%	95%
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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 is suspected, there is a need for urgent steps to improve routine measles coverage.

Yellow Shading Indicator not met.

Anbar; Babylon; Diyala; Erbil; Salahaddin; Suleimainya have clear week measles surveillance indicators

In May 2010, the WHA endorsed the following measles control targets for 2015 as milestones towards measles eradication:

- Increasing measles immunization coverage to >90% nationally and >80% in every district;
- Reporting an incidence of <5 cases/1,000,000 population;
- Reducing measles mortality by 95% compared with 2000 levels.

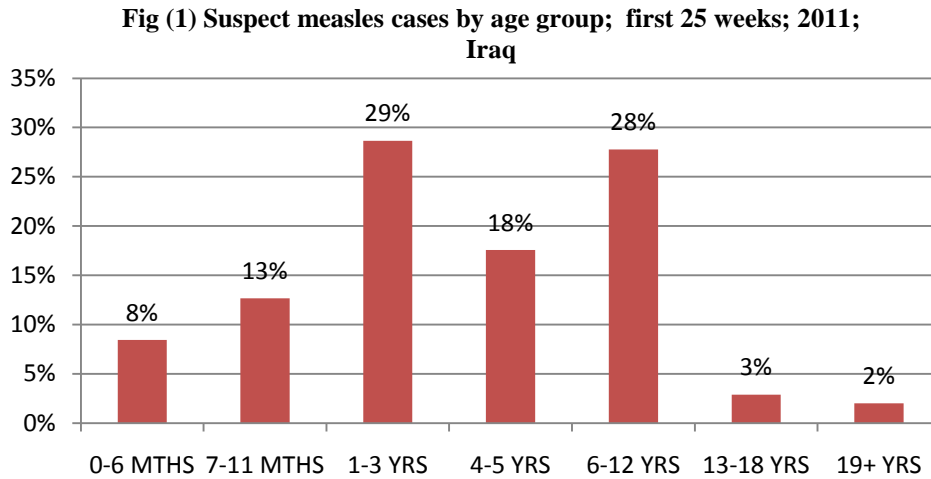


Fig (1) shows that 21% of suspect measles cases are still occurring among infants below the age of one year, while 68% of suspect measles cases occur in the age group below 5 years of age. MoH has completed an H to H immunization national campaign to immunize children 6 months to 3 years of age using mono-valent measles vaccine. The good news is that there are only 4 laboratory confirmed cases. All cases that have specimens 445 were found negative by NML except 4. However; for 41 cases, no specimens were collected and investigation was not adequate; were considered as clinically positive; which points to several weaknesses in the surveillance system in the 8 provinces that did not collect specimen nor sent a complete case investigation form.

Fig (2) Annualized measles incid/million population, Iraq; 2011 first 25 weeks

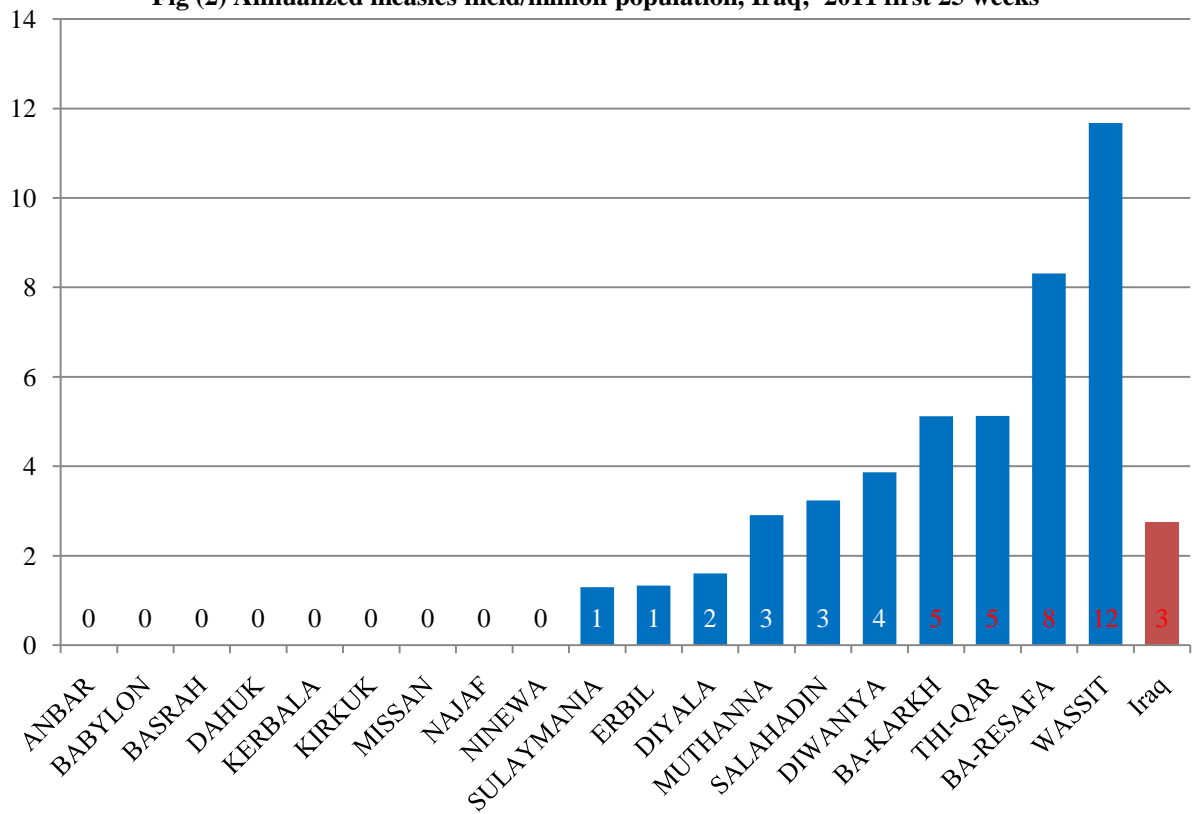


Fig (2) shows the 10 DoH in which measles transmission is considered as still ongoing; all cases were clinically diagnosed since the 10 provinces were not able to collect blood specimens from the cases. It must be mentioned that all cases (445) for which specimens were collected tested negative to measles and rubella IgM except 4 were positive 2 from Diwaniya; and one from Diyala and Wasit.

Fig (3) Annualized non-measles rate /100,000 population ; 2011 first 25 weeks; Iraq

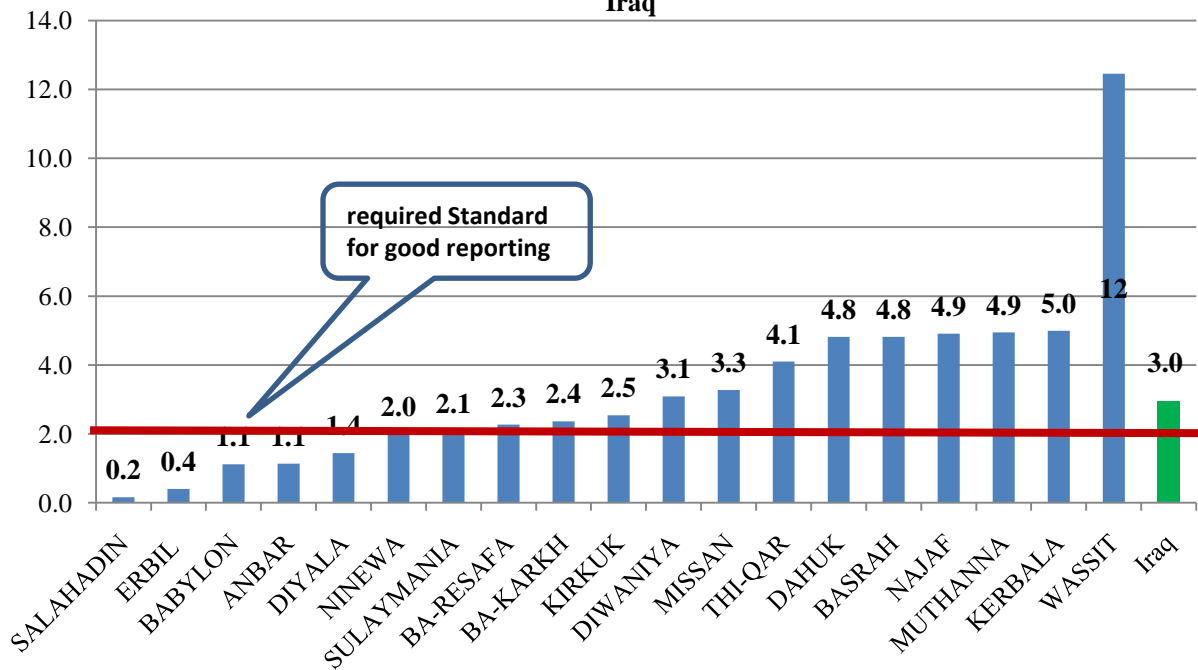


Figure (3) shows that the reporting rate is below the acceptable level of 2/100,000 population in 5 DoHs.

Laboratory confirmed measles cases Iraq, all 2010 and 2011

