



World Health Organization

Regional Office for the Eastern Mediterranean
WHO Representative's Office in Iraq

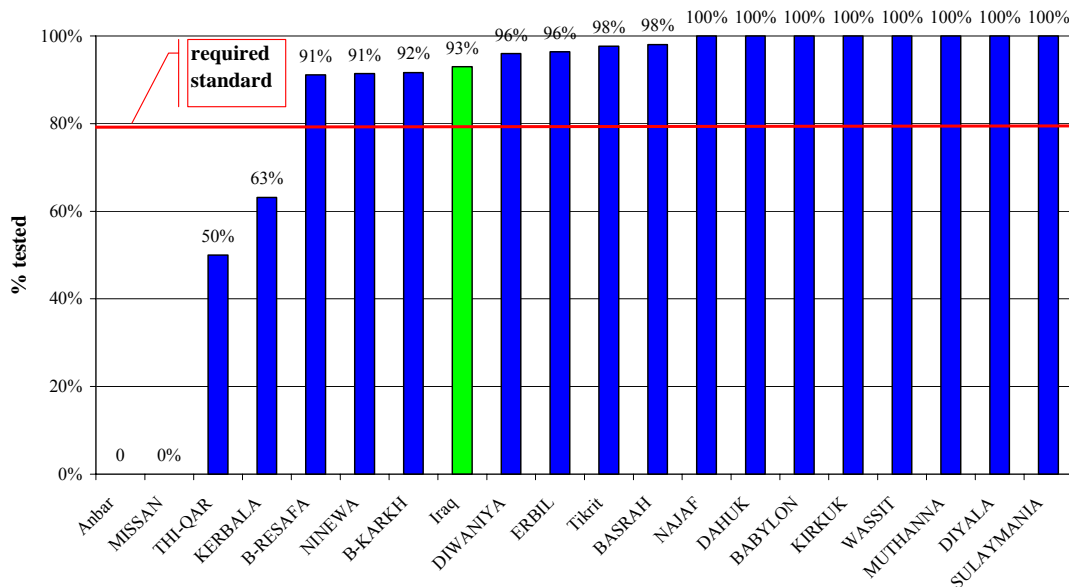
Weekly feed back on measles in Iraq

Report no. 2, week 51, 23 December 2007

Table (1) Indicators for measles elimination

Indicator	Target
1) Districts with MCV coverage >90%	≥ 100%
2) Suspected cases with serologic testing (3-28 days after rash onset)	≥ 80%
3) Cases with laboratory linked confirmation	≥ 80%
4) Lab results available within 7 days	≥ 80%
5) Suspect cases discarded after lab testing	≥ 80%
6) Sources reporting on timely basis	≥ 80%
7) Case notification ≤ 7 days of rash onset	≥ 80%
8) Case investigation ≤ 48 hours of notification	≥ 80%
9) Source of infection identified	≥ 80%
10) Measles out breaks investigated and confirmed by the lab	all
11) Measles cases with age and immunization status indicated	≥ 80%

Fig (1) % suspect measles with serologic testing, 2007



Indicator (2). % of suspect measles cases with serologic testing (2007). Fig. (1) Show that the target for this indicator was achieved at the national level and in all DoHs except:

- Anbar which failed to report or investigate any case (completely silent).
- Missan reported 5 cases but none has serum samples collected for testing.
- Thi-Qar reported 4 cases and only 2 underwent serologic testing.
- Kerabla reported 19 cases and 12 underwent serologic testing.

Indicator (3).

Fig 2 show the % of measles cases with laboratory confirmation or Epidemiological linked to Lab confirmed case. At the National level 84% of cases are either confirmed by the national measles laboratory or epidemiologically linked to a lab confirmed cases. This indicator was reached by 10 DoHs only. This indicator was

- Zero in the provinces of Kerbala, Missan, Thi-Qar and Muthana
- Ranged from 50% to 75% in Wassit; Diwanya, Najaf and B-Resafa

Fig. (2) % of confirmed measles cases with Lab or EPI linked confirmation, Iraq, 2007

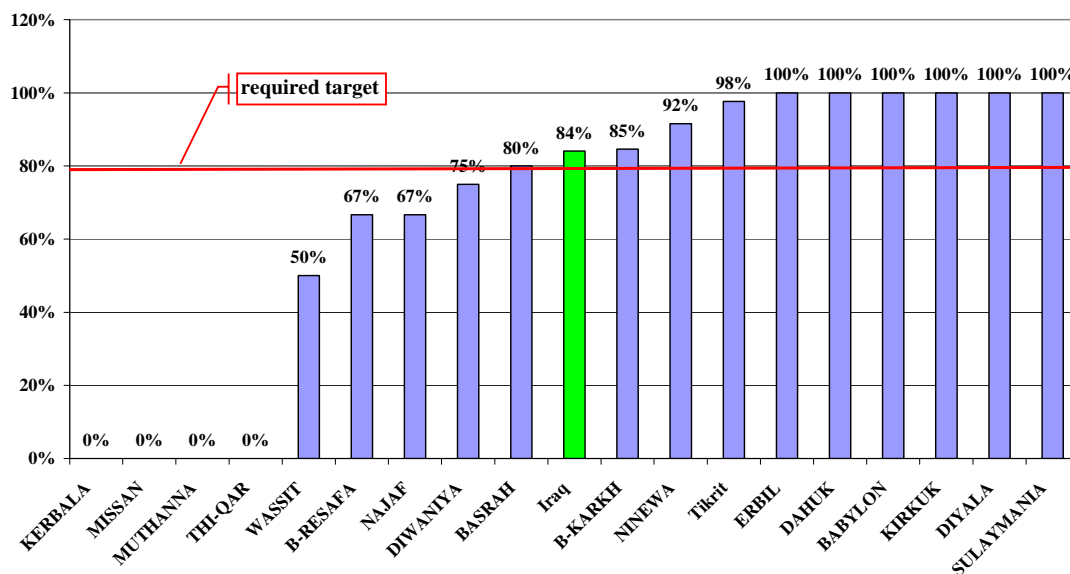


Table (2) Measles case finding, by province, Iraq, 2007

PROVINCE	Total Suspect cases	Serologically tested	confirmed by Lab	EPI Linked	Clinical measles	Total confirmed measles	% confirmed by Lab or EPI
KERBALA	19	12	0	0	7	7	0%
MISSAN	5	0	0	0	5	5	0%
MUTHANNA	6	6	0	0	0	0	0%
THI-QAR	4	2	0	0	2	2	0%
WASSIT	19	19	1	0	1	2	50%
B-RESAFA	129	118	12	0	6	18	67%
NAJAF	10	10	2	0	1	3	67%
DIWANIYA	28	27	3	0	1	4	75%
BASRAH	55	54	4	0	1	5	80%
Iraq	637	568	150	35	35	220	84%
B-KARKH	24	22	11	0	2	13	85%
NINEWA	138	103	60	27	8	95	92%
Tikrit	54	50	36	6	1	43	98%
ERBIL	29	28	1	0	0	1	100%
DAHUK	32	32	1	0	0	1	100%
BABYLON	4	4	2	0	0	2	100%
KIRKUK	54	54	2	0	0	2	100%
DIYALA	5	5	3	0	0	3	100%
SULAYMANIA	22	22	12	2	0	14	100%

Indicator (4). Laboratory results available to EPI within 7 days: All results reached EPI within 7 days. Therefore, 100% target was achieved by the NML for this indicator. Congratulations to all the NML staff for this achievement.

Indicator (5). % Of suspect measles cases discarded after laboratory testing. This indicator was not achieved at the national level (70%) and another 9 provinces. While Missan and Abar achievement was Zero %. The provinces of Tikrit, Sulaymania, Ninewa, Diyala, B.Karkh, Babil, Thi-Qar and Najaf; ranged between 22 and 60%.

Fig (3) % of suspect measles cases discarded after lab testing, Iraq, by province, 2007

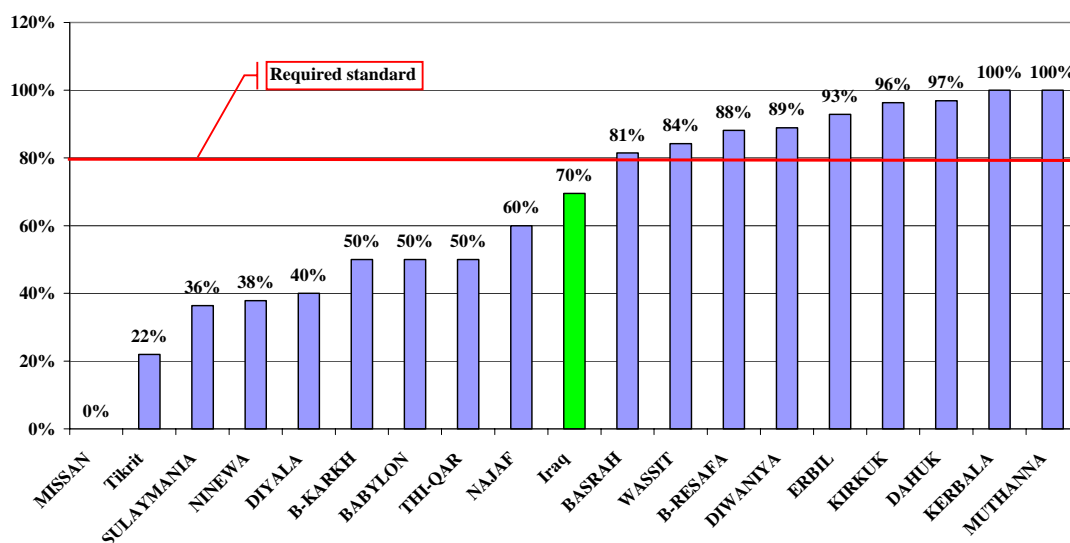


Table (3) % of suspect measles cases discarded after laboratory testing

PROVINCE	Total Suspect cases	Serologically tested	confirmed by Lab	EPI Linked	Clinical measles	confirmed measles	Discarded after lab testing	% Discarded after lab testing
Anabar	0	0	0	0	0	0	0	0%
MISSAN	5	0	0	0	5	5	0	0%
Tikrit	54	50	36	6	1	43	11	22%
SULAYMANIA	22	22	12	2	0	14	8	36%
NINEWA	138	103	60	27	8	95	39	38%
DIYALA	5	5	3	0	0	3	2	40%
B-KARKH	24	22	11	0	2	13	11	50%
BABYLON	4	4	2	0	0	2	2	50%
THI-QAR	4	2	0	0	2	2	1	50%
NAJAF	10	10	2	0	1	3	6	60%
Iraq	637	568	150	35	35	220	395	70%
BASRAH	55	54	4	0	1	5	44	81%
WASSIT	19	19	1	0	1	2	16	84%
B-RESAFA	129	118	12	0	6	18	104	88%
DIWANIYA	28	27	3	0	1	4	24	89%
ERBIL	29	28	1	0	0	1	26	93%
KIRKUK	54	54	2	0	0	2	52	96%
DAHUK	32	32	1	0	0	1	31	97%
KERBALA	19	12	0	0	7	7	12	100%
MUTHANNA	6	6	0	0	0	0	6	100%

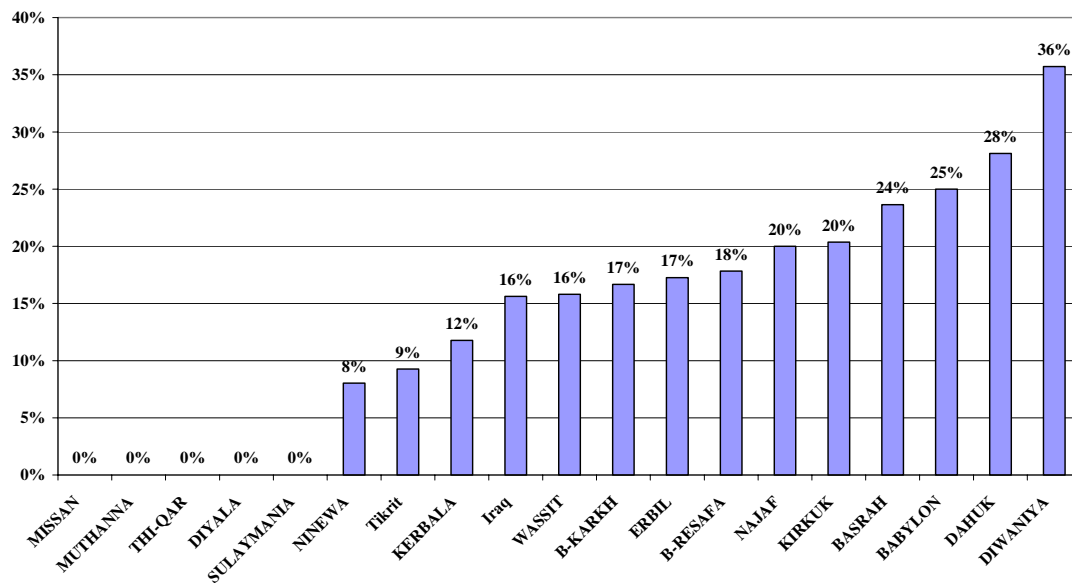
Indicator (6). Case notification within 7 days of rash onset: 100% of cases were notified within 7 days of rash onset.

Indicator (7). Case investigation \leq 48 hours of notification: analysis of 2007 data show that all provinces achieved this vital indicators only 6 cases out of 600 cases were not timely investigated.

Indicator (9). Measles out breaks investigate and confirmed by laboratory: 2 measles out breaks occurred during 2007, both were investigated and confirmed by NML, however, in both out breaks the surveillance staff failed to collect urine or blood for isolation of measles virus, although the 2 out breaks were thoroughly investigated by the surveillance staff but they failed to collect adequate specimens for measles virus isolation and characterization in order to document the genotype of the circulating virus.

Indicator (10) % of suspected cases with complete investigation. EMRO definition = date of rash + date specimen collected + measles vaccination status + date of last measles dose + age + sex + district. Also included in definition is "investigation of all epidemiological links as defined at country level" - ignored in this analysis

Fig. (6) % of suspect measles cases with adequate investigation by province, Iraq, 2007



The achievement in this indicator is also very poor for the country as a whole only 16% of suspect cases has complete investigation. The provinces of Missan, Muthanna; Thi-Qar and Sulymania; scored zero as far as this indicator is concerned the remaining provinces scored between 8% and 36%.

Measles Bulletin, WHO Iraq, Cumulative measles and rubella results for the period 01/01/2007 - 23/12/2007

Province	Measles case finding report							Rubella case finding report				Confirmed measles /1000,000	Suspect measles 100,000	Indicator: target \geq 80%				
	Tot suspect Measles	No specimen tested for measles	Measles lab confirmed	Measles EPI linked	Clinical measles	Total measles	Measles discarded case	No. tested for rubella IgM	Rubella lab confirmed	Rubella EPI linked	Discarded as rubella			Suspect tested for measles	Case with complete investigation	Specimens received at the lab within 7 days	Adequate specimens	Specimens reported to EPI within 7 days
Anabr	0	0	0	0	0	0	0	0	0	0	0	0.00	0	0	0	0	0	0
B-RESAFA	129	118	12	0	6	18	104	79	13	0	66	1.95	2.7	91	18	79	97	100
BASRAH	55	54	4	0	1	5	44	48	5	0	37	0.46	1.9	98	24	96	98	100
ERBIL	29	28	1	0	0	1	26	21	2	0	19	0.00	1.8	97	17	32	97	100
KERBALA	19	12	0	0	7	7	12	10	0	0	10	0.00	1.3	63	11	17	63	100
MISSAN	5	0	0	0	5	5	0	0	0	0	0	0.00	0	0	0	0	0	100
NAJAF	10	10	2	0	1	3	6	7	2	0	4	0.00	0.5	100	20	90	100	100
B-KARKH	24	22	11	0	2	13	11	16	1	0	15	3.77	0.3	92	17	95	92	100
DAHUK	32	32	1	0	0	1	31	19	1	0	18	1.08	3.2	100	28	16	100	100
DIWANIYA	28	27	3	0	1	4	24	17	5	0	12	0.00	2.3	96	36	81	96	100
BABYLON	4	4	2	0	0	2	2	4	1	0	3	0.64	0.1	100	25	25	100	100
KIRKUK	54	54	2	0	0	2	52	28	2	0	26	1.06	5.4	100	20	64	98	100
WASSIT	19	19	1	0	1	2	16	14	1	0	13	0.00	1.7	100	16	100	100	100
Tikrit	54	50	36	6	1	43	11	27	7	0	20	32	0.8	93	9	6	89	100
MUTHANNA	6	6	0	0	0	0	6	5	0	0	5	0.00	1.1	100	0	50	100	100
THI-QAR	4	2	0	0	2	2	1	2	0	0	1	0.00	0.1	50	0	50	50	100
DIYALA	5	5	3	0	0	3	2	4	0	0	4	2.1	0.1	100	0	100	80	100
NINEWA	138	103	60	27	8	95	39	47	6	0	39	28	1.4	75	8	27	75	100
SULAYMANIA	22	22	12	2	0	14	8	10	2	0	8	7.6	0.5	100	0	59	95	100
Iraq	637	568	150	35	35	220	395	358	48	0	300	5.4	1.3	89	16	57	89	100

Anbar: The measles surveillance system is not working. Missan only 5 cases were notified, none was properly investigated. Babil, Muthana, Thi-Qar and Diala with some effort the measles surveillance can reach the required standard.

