

Early Warning and Reporting System (EWARS) Weekly Bulletin

(21st Epidemiological Week)
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This bulletin includes the updates from the Early Warning Reporting System (EWARS). It includes data since January 2015 till date, including comparison of same period during last year.

Section 1: The Early Warning and Reporting System (EWARS)

Highlights

- Two deaths from SARI are reported this week, one each from United Mission Hospital, Palpa and Patan Hospital, Lalitpur. The cases are from Gulmi and Lalitpur district respectively.
- One case of Malaria (*plasmodium vivax*) is reported this week from BPKIHS, Dharan and the case is from Udayapur district.
- Four cases of Kala-azar are reported this week, two from Koshi Zonal Hospital, Morang and one each from Sukraraj Tropical and Infectious Disease Hospital, Teku and District Hospital, Siraha. The cases are from Morang, Palpa and Dhanusha district.

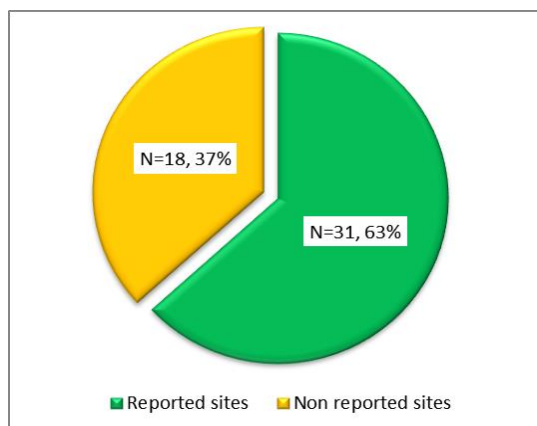
The EWARS was established in 1997 to strengthen the flow of information on vector-borne and other outbreak prone infectious diseases from the district to Epidemiology and Disease Control Division (EDCD) and Vector-Borne Disease Research and Training Center (VBDRTC), Hetauda. Rapid Response Teams (RRTs) can be mobilized at short notice to facilitate prompt outbreak response at Central, Regional and District level. They can also support local level health institutions for investigation and outbreak control activities.

This information system is hospital-based and is currently operational in 49 hospitals (out of 81 sites) throughout Nepal (Figure 1). So far, the EWARS mainly focuses on the **weekly reporting** of number of cases and deaths (including "zero" reports) of six priority diseases/syndromes—Malaria, Kala-azar, Dengue, Acute Gastroenteritis (AGE), Cholera and Severe Acute Respiratory Infection (SARI), and other epidemic potential diseases/syndromes (like enteric fever). It equally focuses on **immediate reporting** (to be reported within 24 hours of diagnosis) of one confirmed case of Cholera, Kala-azar severe and complicated Malaria and one suspect/clinical case of Dengue as well as 5 or more cases of AGE and SARI from the same geographical locality in one week period.



Reporting Status

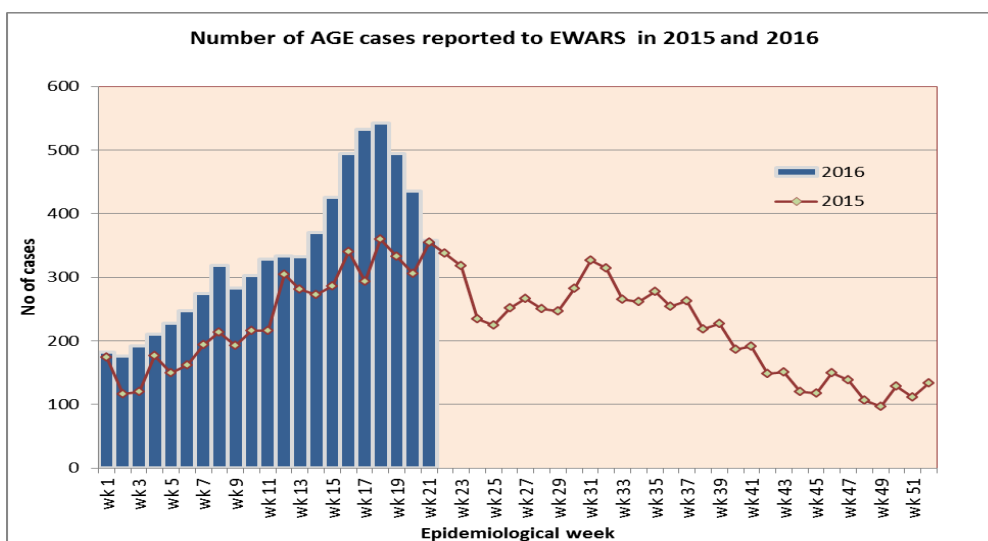
Out of 49 functional EWARS sentinel sites, report was received from 31 sentinel sites (63 percent) whereas 18 sentinel sites did not report in 21st Epidemiological week. The reporting status is same as compared to the previous week.



1.1 Acute Gastro-Enteritis and Cholera

358 cases of AGE are reported in 21st epidemiological week of 2016. Among 358 cases, the majority of cases are from Dolakha (38 cases), Kanchanpur (33 cases), Dhading (28 cases), Kapilvastu (26 cases), Nawalparasi (24 cases), Rupandehi (24 cases), Kathmandu (14 cases) district. The number of AGE cases reported in 21th week this year is same as the number of AGE cases reported in the same week last year (355 cases). No death from AGE is reported this week. Five deaths from AGE are reported so far this year.

Cholera: No cholera cases are reported through the EWARS system this year. Last year, the Cholera outbreak occurred on August, so it is important to remain alert for new outbreak.

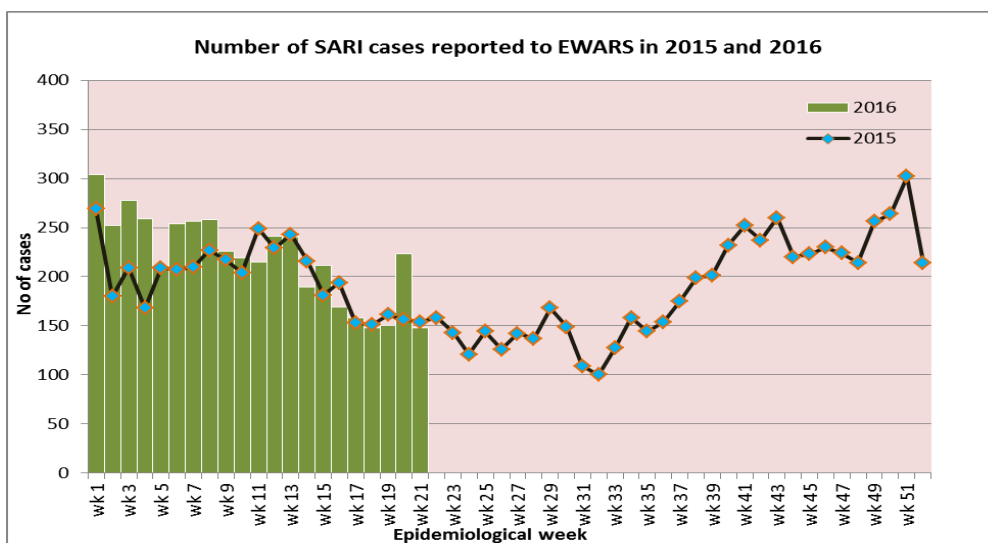


1.2 Severe Acute Respiratory Infection (SARI)

148 cases of SARI are reported in 21st epidemiological week of 2016. The cases of SARI reported this week did not exceed the number reported in the same week last year (154 cases). Among 148 cases, the majority of cases are

from Jhapa (30 cases), Morang (14 cases), Lalitpur (12 cases), Palpa (12 cases), Kailali (9 cases), Baglung (8 cases) and Sunsari (6 cases) district.

Two deaths from SARI are reported this week, one each from United Mission Hospital, Palpa and Patan Hospital, Lalitpur. The cases are from Gulmi and Lalitpur district respectively. Thirty three deaths from SARI are reported so far this year.



1.3 Enteric Fever

46 cases of enteric fever are reported this week including 16 from Nawalparasi, 5 from Saptari, 4 from Dolakha and two each from Kapilvastu, Kavre, Palpa and Siraha district. The number of cases of enteric fever was peaked in week 37 in 2015 (71 cases).

1.4 Malaria

One case of Malaria (*plasmodium vivax*) is reported this week from BPKIHS, Dharan and the case is from Udayapur district. Only nine cases of malaria are reported so far this year. Ninety cases of Malaria were reported through EWARS in 2015.

1.5 Dengue

No case of Dengue is reported this week. Only one case of dengue is reported so far this year. Fifty-eight cases of Dengue were reported through EWARS in 2015.

1.6 Kala-azar

Four cases of Kala-azar are reported this week, two from Koshi Zonal Hospital, Morang and one each from Sukraraj Tropical and Infectious Disease Hospital, Teku and District Hospital, Siraha. The cases are from Morang, Palpa and Dhanusha district. Seventy confirmed cases of Kala-azar are reported so far this year. 135 cases were reported through EWARS in 2015.

Acknowledgement

The Epidemiology and Disease Control Division highly acknowledges the contribution from all the medical recorders, EWARS focal persons, rapid response team members and support from WHO and NHSSP for preparation of this bulletin.

Timeliness & completeness of reporting from sentinel sites:

Site Code	Sentinel Sites	Timeliness (%)	Completeness (%)	Site code	Sentinel Sites	Timeliness (%)	Completeness (%)
101	Mechi ZH, Jhapa	92	100	127	DH, Bardiya	84	100
102	Koshi ZH, Morang	98	100	128	DH, Mahottari	90	100
103	DH, Sunsari	100	100	129	DH, Dadedhura	0	0
104	BPKIHS, Dharan	88	100	130	DH, Rasuwa	82	95
105	DH, Dhankuta	94	90	131	DH, Sankhuwasabha	0	0
106	SZH, Saptari	98	100	132	AMDA Hosp., Jhapa	100	100
107	RKUP, Lahan, Siraha	92	100	133	DH, Chautara	100	100
108	DH, Siraha	100	100	134	DH, Sarlahi	72	100
109	JZH, Dhanusha	0	0	135	DH, Sindhuli	74	57
110	DH, Rautahat	80	95	136	DH, Illam	94	100
111	DH, Bara	0	0	137	Dhulikhel H., Kavre	96	95
112	NSRH, Parsa	76	90	138	DH, Solukhumbu	4	9
113	DH, Makawanpur	86	100	139	DH, Dolpa	0	0
114	NZH, Chitwan	72	71	140	DH, Humla	0	0
115	Kanti CH, Kathmandu	74	90	201	Lamjung Comm DH, Lamjung	88	95
116	STH, Kathmandu	98	100	202	DH, Dhading	100	100
117	UMH, Palpa	96	100	203	DH, Ramechhap	98	100
118	PCH, Nawalparasi	94	100	204	Bhaktapur Hospital	0	0
119	PBH, Kapilvastu	98	100	205	Patan Hospital, Lalitpur	16	66
120	LZH, Rupandehi	100	100	206	DH, Gorkha	2	4
121	RSRH Dang	4	90	207	DH Trishuli, Nuwakot	4	9
122	MWRH, Surkhet	96	100	208	Charikot PHCC, Dholakha	10	80
123	BZH, Banke	0	0	209	Jiri H, Dolakha	74	57
124	SZH, Kailali	74	52	211	DH, Tanahun	88	85
125	MZH, Kanchanpur	98	100	215	DZH, Baglung	10	23
126	DH, Doti	90	100				

	Excellent (>80)
	Satisfactory (50-79)
	Bad (<50)

Note: EWARS reporting form (in MS Excel format) is available at EDCD's official website www.edcd.gov.np . This bulletin is also available at the website.