

Early Warning and Reporting System (EWARS)
Weekly Bulletin
(28th Epidemiological Week)
24 July 2016



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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
<ul style="list-style-type: none"> • Ten new cases of cholera (<i>Vibrio cholerae</i> Ogawa 01) are reported from Sukraraj Tropical and Infectious Disease Hospital, Teku and Patan Hospital, Lalitpur this week. • Three cases of Malaria are reported this week including one (<i>plasmodium falciparum</i>) case from Dharan municipality ward no 18. • One case of Dengue is reported from Sukraraj Tropical and Infectious Disease hospital, Teku. • Three cases of Kala-azar are reported this week from Sukraraj Tropical and Infectious Disease hospital, Teku. • The cases of Enteric fever is in increasing trend from last few weeks so it is important to remain alert to detect potential clusters and conduct investigation to identify potential common source of contamination.

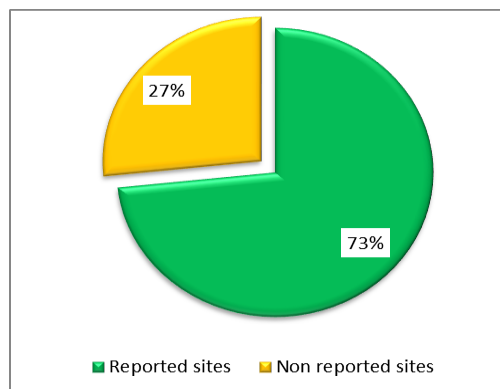
The EWARS was established in 1997 to strengthen the flow of information on vector-borne and other outbreak prone infectious diseases from the district to Epidemiology and Disease Control Division (EDCD) and Vector-Borne Disease Research and Training Center (VBDRTC), Hetauda. Rapid Response Teams (RRTs) 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 60 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

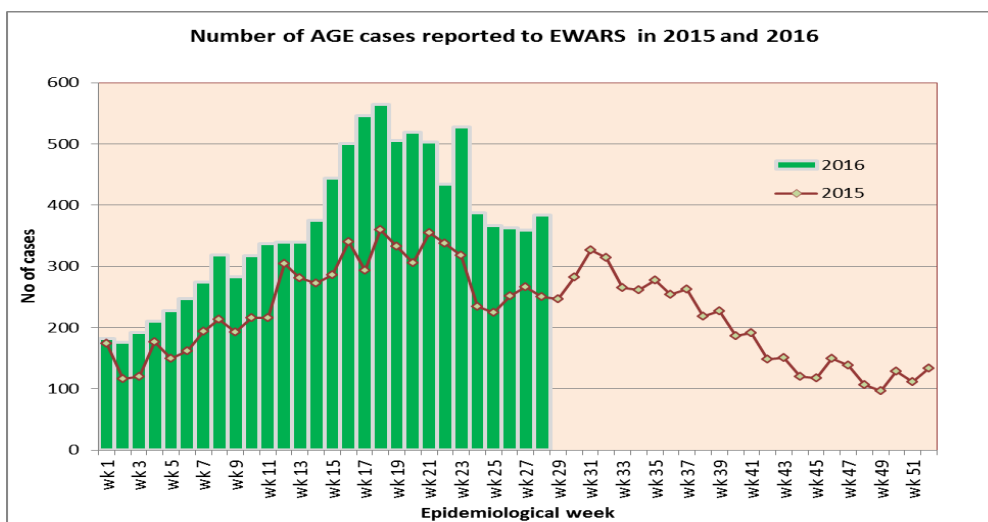
Out of 60 functional EWARS sentinel sites, report was received from 44 sentinel sites (73 percent) whereas 16 sentinel sites did not report in 28th Epidemiological week. The reporting coverage is increased as compared to the previous week.



1.1 Acute Gastro-Enteritis and Cholera

384 cases of AGE are reported in 28th epidemiological week of 2016. Among 384 cases, the majority of cases are from Dhading (40 cases), Kathmandu (29 cases), Lalitpur (27 cases), Dolakha (27 cases), Morang (15 cases), Kapilvastu (15 cases), Palpa (13 cases) and Parsa (13 cases) district. The number of AGE cases reported in 28th week this year exceeds the number of AGE cases reported in the same week last year (250 cases).

No death from AGE is reported this week. Five deaths from AGE are reported so far this year.

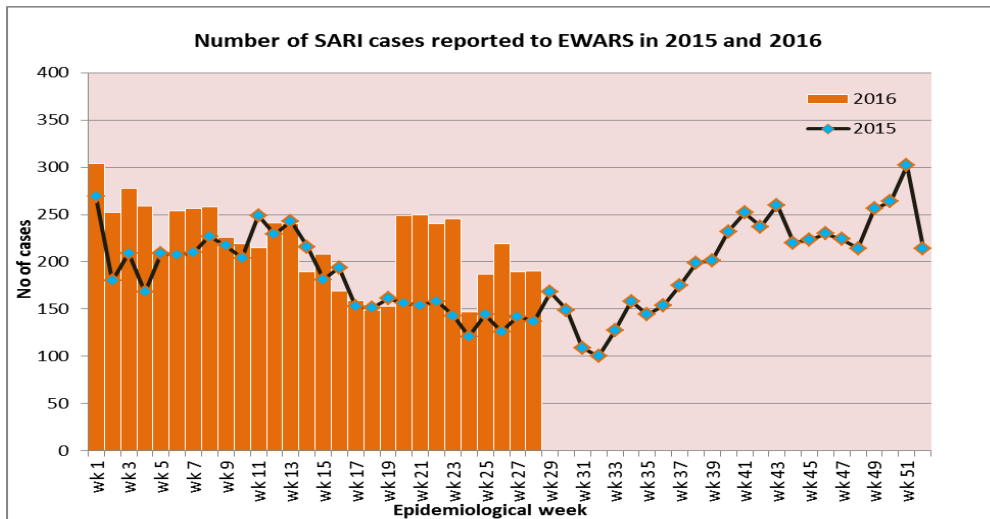


Cholera: A total of fourteen Cholera cases have been reported till data. Ten new cases of Cholera (*Vibrio cholerae* Ogawa 01) are reported from Sukraraj Tropical and Infectious Disease Hospital, Teku and Patan Hospital, Lalitpur this week. The sample is confirmed positive by Nepal Public Health Laboratory and the cases are from Bhaishapati, Thaiba, Lagankhel, Tangal and Sundhara area. Epidemiological and environmental investigations along with water and sanitation activities are carried out in coordination with DPHO and partners.

1.2 Severe Acute Respiratory Infection (SARI)

190 cases of SARI are reported in 28th epidemiological week of 2016. The cases of SARI reported this week exceed the number reported in the same week last year (137 cases). Among 190 cases, the majority of cases are from Jhapa (27 cases), Morang (21 cases), Palpa (20 cases), Gorkha (18 cases) and Saptari (15 cases) district.

Three deaths from SARI are reported this week from Patan Hospital, Lalitpur and the cases are from Lalitpur and Nuwakot district. Fourty six deaths from SARI are reported so far this year.



1.3 Enteric Fever

169 cases of Enteric fever are reported this week. The majority of cases are from Nawalparasi (44 cases), Kaski (22 cases), Sindhuli (15 cases), Morang (10 cases), Dolakha (8 cases), Siraha (8 cases) and Gulmi (8 cases) districts. The cases of Enteric fever is in increasing trend from last few weeks so it is important to remain alert to detect potential clusters and conduct investigation to identify potential common source of contamination.

1.4 Malaria

Three cases of Malaria are reported this week. One case of (*plasmodium falciparum*) is reported from BPKIHS, Dharan and the case is from Dharan Municipality of Sunsari district. Similarly two cases of (*plasmodium vivax*) are reported from Mahakali Zonal Hospital, Kanchanpur and the cases are from Dodhara VDC and Mahendranagar Municipality of Kanchanpur district.

Twenty cases of malaria are reported so far this year. Ninety cases of Malaria were reported through EWARS in 2015.

1.5 Dengue

One case of Dengue is reported this week from Sukraraj Tropical and Infectious Disease Hospital, Teku and the case is from Saptari district. Only three case of dengue is reported so far this year. Fifty-eight cases of Dengue were reported through EWARS in 2015.

1.6 Kala-azar

Three cases of Kala-azar are reported this week from Sukraraj Tropical and Infectious Disease hospital, Teku and the cases are from Dang, Pyuthan and Kanchanpur district.

Timeliness & completeness of reporting from sentinel sites:

Site Code	Sentinel Sites	Timeliness (this week)	Completeness (%)	Site code	Sentinel Sites	Timeliness (%)	Completeness (%)
101	Mechi ZH, Jhapa	On time	100	130	DH, Rasuwa	No reporting	82
102	Koshi ZH, Morang	On time	100	131	DH, Sankhuwasabha	No reporting	0
103	DH, Sunsari	On time	100	132	AMDA Hosp., Jhapa	On time	100
104	BPKIHS, Dharan	On time	100	133	DH, Chautara	On time	100
105	DH, Dhankuta	On time	75	134	DH, Sarlahi	On time	100
106	SZH, Saptari	On time	100	135	DH, Sindhuli	On time	96
107	RKUP, Lahan, Siraha	On time	100	136	DH, Illam	On time	100
108	DH, Siraha	On time	100	137	Dhulikhel H., Kavre	On time	100
109	JZH, Dhanusha	On time	100	138	DH, Solukhumbu	No reporting	89
110	DH, Rautahat	On time	100	139	DH, Dolpa	No reporting	0
111	DH, Bara	No reporting	0	140	DH, Humla	No reporting	0
112	NSRH, Parsa	On time	100	201	Lamjung Comm DH, Lamjung	On time	100
113	DH, Makawanpur	On time	100	202	DH, Dhading	Late reporting	100
114	NZH, Chitwan	On time	100	203	DH, Ramechhap	On time	100
115	Kanti CH, Kathmandu	On time	88	204	Bhaktapur Hospital	No reporting	14
116	STH, Kathmandu	On time	100	205	Patan Hospital, Lalitpur	On time	78
117	UMH, Palpa	On time	100	206	DH, Gorkha	On time	35
118	PCH, Nawalparasi	On time	100	207	DH Trishuli, Nuwakot	No reporting	7
119	PBH, Kapilvastu	On time	100	208	Charikot PHCC, Dholakha	On time	89
120	LZH, Rupandehi	No reporting	92	209	Jiri H, Dolakha	On time	85
121	RSRH Dang	Late reporting	100	210	DH, Syangja	On time	100
122	MWRH, Surkhet	Late reporting	100	211	DH, Tanahun	On time	92
123	BZH, Banke	No reporting	0	212	WRH, Kaski	On time	100
124	SZH, Kailali	No reporting	53	214	DH, Gulmi	On time	100
125	MZH, Kanchanpur	On time	100	215	DZH, Baglung	On time	100
126	DH, Doti	On time	92	219	DH, Mustang	On time	50
127	DH, Bardiya	On time	100	220	DH, Pyuthan	On time	100
128	DH, Mahottari	No reporting	89	230	DH, Baitadi	On time	50
129	DH, Dadeldhura	No reporting	0	237	DH, Bhojpur	Late reporting	50

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

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.

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