

Early Warning and Reporting System (EWARS)

Weekly Bulletin

(37th 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

- 145 Cholera cases are confirmed by NPHL so far since 30 June, 25 cases in Kathmandu, 110 cases in Lalitpur, 1 in Bhaktapur, 1 in Dhading and 8 from unidentified place. The last cholera confirmed case was seen on 18 Sept 2016 from ST&IDH, Teku.
- 76 cases of AGE from Koiladi VDC of Saptari district are reported from DPHO, Saptari since 18 September 2016. A health team is mobilized from EDCD, DPHO and periphery level for the investigation and sample collection. 6 stool and 4 water samples have been brought at NPHL for the Lab confirmation. No death has been reported.
- One death from Diphtheria of five year old child is reported on 2nd Sept 2016 from TUTH Maharajgunj. The deceased was from Bandipur-2 of Siraha district.
- Two cases of Dengue are reported this week from Sukraraj Tropical and Infectious Disease Hospital, Teku and the cases are from Kathmandu and Lalitpur district.
- Three cases of Malaria are reported this week including one (*Plasmodium falciparum*) case from Mahakali Zonal Hospital Kanchanpur.
- One death from AGE is reported this week from Lumbini Zonal Hospital, Rupandehi and the case was from Butwal Municipality ward no 19.
- No case of Kala-azar is reported this week.

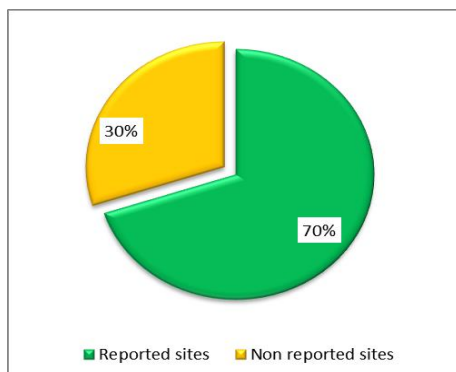
The EWARS was established in 1997 to strengthen the flow of information on vector-borne and other outbreak prone infectious diseases from the district to Epidemiology and Disease Control Division (EDCD) and Vector-Borne Disease Research and Training Center (VBDRTC), Hetauda. Rapid Response Teams (RRTs)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

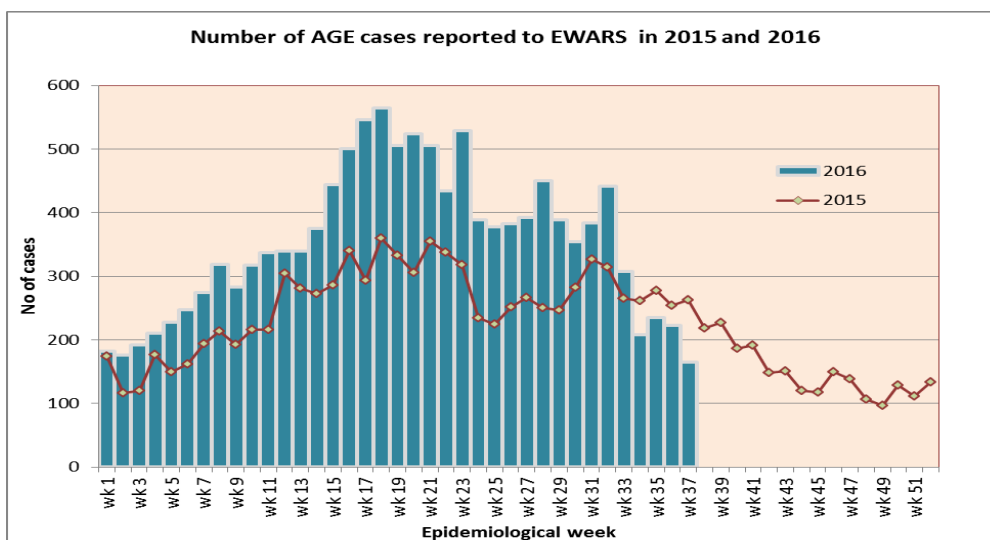
Out of 60 functional EWARS sentinel sites, report was received from 42 sentinel sites (70 percent) whereas 18 sentinel sites did not report in 37th Epidemiological week. The reporting coverage is decreased as compared to the previous week.



1.1 Acute Gastro-Enteritis and Cholera

165 cases of AGE are reported in 37th epidemiological week of 2016. Among 165 cases, the majority of cases are from Kathmandu (16 cases), Kapilvastu (13 cases), Dhading (11 cases), Dhanusha (10 cases), Kanchanpur (10 cases), Rupandehi (8 cases), Mustang (8 cases), Syangja (7 cases) and Dolakha (7 cases) district. The number of AGE cases reported in 37th week this year did not exceed the number of AGE cases reported in the same week last year (263 cases).

One death from AGE is reported this week from Lumbini Zonal hospital, Rupandehi and the case was from Butwal Municipality ward no 19. Nine deaths from AGE are reported so far this year.

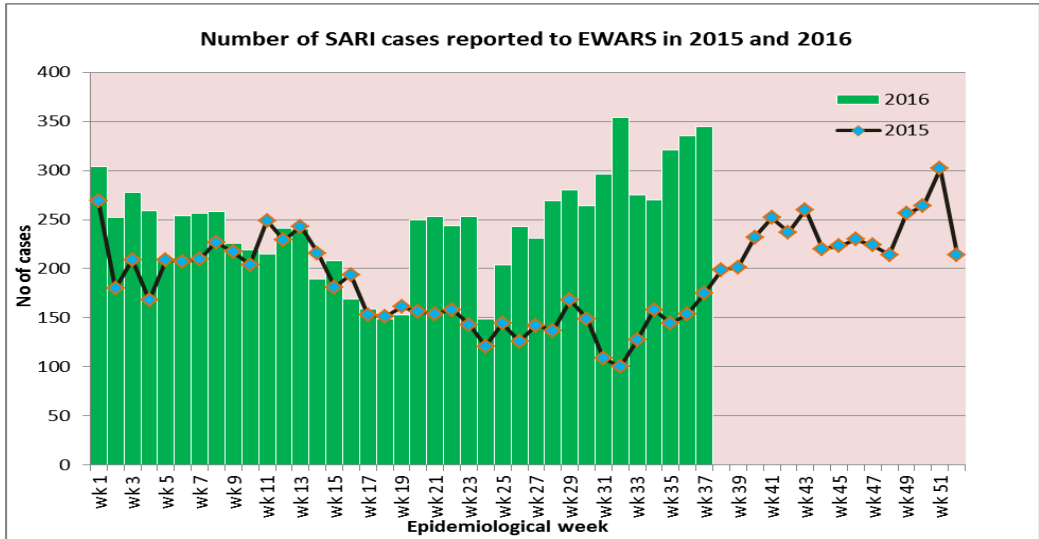


- Cholera:** 145 Cholera (*Vibrio cholerae* Ogawa 01) cases were confirmed by NPHL so far since 30 June, 25 cases in Kathmandu, 110 cases in Lalitpur, one case in Bhaktapur, One in Dhading and 8 from unidentified place. The last cholera confirmed case was seen on 18 Sept 2016 from ST&IDH, Teku.

1.2 Severe Acute Respiratory Infection (SARI)

296 cases of SARI are reported in 37th epidemiological week of 2016. The cases of SARI reported this week exceed the number reported in the same week last year (175 cases). Among 296 cases, the majority of cases are from, Jhapa (32 cases), Morang (32 cases), Lalitpur (26 cases), Dhading (24 cases), Baitadi (15 cases), Kathmandu (15 cases), Rupandehi (14 cases), Kanchanpur (12 cases), Gorkha (11 cases) and Gulmi (11 cases) district.

No death from SARI is reported this week. Fifty nine deaths from SARI are reported so far this year.



1.3 Enteric Fever

117 cases of Enteric fever are reported this week. The majority of cases are from Nawalparasi (14 cases), Ramechhap (10 cases), Dolakha (9 cases), Gorkha (8 cases), Kaski (7 cases), Dhading (7 cases), Lamjung (7 cases), Morang (7 cases) and Gulmi (7 cases) district. The cases of Enteric fever is high since 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 Malaria (*Plasmodium falciparum*) is reported from Mahakali Zonal Hospital, Kanchanpur and the case is from Mahendranagar Municipality of Kanchanpur district.

Similarly two cases of (*Plasmodium vivax*) are reported from Lumbini Zonal Hospital, Rupandehi and Mahakali Zonal Hospital, Kanchanpur and the cases are from Bijubar VDC of Pyuthan district and Mahendranagar municipality of Kanchanpur district.

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

1.5 Dengue

Two cases of Dengue are reported this week from Sukraraj Tropical and Infectious Disease Hospital, Teku and the cases are from Kathmandu and Lalitpur district.

Only nine cases of Dengue are reported so far this year. Fifty-eight cases of Dengue were reported through EWARS in 2015

1.6 Kala-azar

No case of Kala-azar is reported this week. One hundred twenty one cases of kala-azar are reported so far this y

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	67
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	No reporting	94	133	DH, Chautara	On time	100
105	DH, Dhankuta	On time	100	134	DH, Sarlahi	On time	97
106	SZH, Saptari	On time	97	135	DH, Sindhuli	On time	97
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	97
109	JZH, Dhanusha	On time	100	138	DH, Solukhumbu	No reporting	89
110	DH, Rautahat	No reporting	72	139	DH, Dolpa	No reporting	0
111	DH, Bara	No reporting	0	140	DH, Humla	No reporting	0
112	NSRH, Parsa	No reporting	91	201	Lamjung Comm DH, Lamjung	On time	100
113	DH, Makawanpur	On time	100	202	DH, Dhading	On time	100
114	NZH, Chitwan	No reporting	97	203	DH, Ramechhap	On time	100
115	Kanti CH, Kathmandu	On time	90	204	Bhaktapur Hospital	On time	52
116	STH, Kathmandu	On time	100	205	Patan Hospital, Lalitpur	On time	84
117	UMH, Palpa	On time	100	206	DH, Gorkha	On time	60
118	PCH, Nawalparasi	On time	100	207	DH Trishuli, Nuwakot	No reporting	5
119	PBH, Kapilvastu	On time	100	208	Charikot PHCC, Dolakha	On time	90
120	LZH, Rupandehi	On time	100	209	Jiri H, Dolakha	On time	87
121	RSRH Dang	On time	100	210	DH, Syangja	On time	100
122	MWRH, Surkhet	On time	100	211	DH, Tanahun	On time	100
123	BZH, Banke	No reporting	0	212	WRH, Kaski	On time	100
124	SZH, Kailali	No reporting	64	214	DH, Gulmi	On time	100
125	MZH, Kanchanpur	On time	100	215	DZH, Baglung	On time	100
126	DH, Doti	On time	86	219	DH, Mustang	On time	100
127	DH, Bardiya	No reporting	97	220	DH, Pyuthan	On time	100
128	DH, Mahottari	No reporting	97	221	DH, Rolpa	No reporting	48
129	DH, Dadeldhura	No reporting	0	229	DH, Achham	No reporting	60
				230	DH, Baitadi	On time	100
				237	DH, Bhojpur	No reporting	97
				240	DH, Udaypur	No reporting	97

	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.