

Early Warning and Reporting System (EWARS)

Weekly Bulletin

(45th 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

- **Dengue:** A total of 1239 Dengue cases including one death (on 15th November, 2016) have been reported from 29 different districts since January 2016 out of which 656 cases from Chitwan and 316 cases from Jhapa district.
- **Scrub Typhus:** A total of 698 cases of Scrub Typhus cases including 14 deaths have been reported from 47 different districts of Nepal Since July, 2016. Out of which 494 cases are from Chitwan District and 108 from Kailali district.
- **Cholera:** 168 cholera cases were confirmed by the National Public Health Laboratory so far since 30 June, 118 cases in Lalitpur, 31 cases in Kathmandu, 6 in Dhading, 3 in Saptari, 1 in Bhaktapur, 1 in Kavre, and 8 from unidentified place.
- **Malaria:** Two cases of Malaria (*Plasmodium vivax*) are reported this week, one each from Lumbini Zonal Hospital, Rupandehi and Mahakali Zonal Hospital, Kanchanpur and the cases are from Butwal municipality of Rupandehi district and Daiji VDC of Kanchanpur district.
- **Kala-azar:** One case of Kala-azar is reported this week from Lumbini Zonal Hospital, Rupandehi and the case is from Kapilvastu district.
- One death from SARI is reported this week from Lumbini Zonal Hospital, Rupandehi and the case is from same district

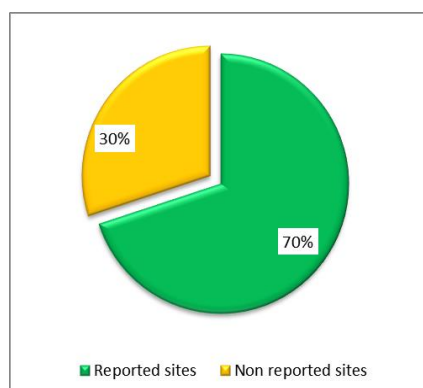
The EWARS was established in 1997 to strengthen the flow of information on vector-borne and other outbreak prone infectious diseases from the district to Epidemiology and Disease Control Division (EDCD) and Vector-Borne Disease Research and Training Center (VBDRTC), Hetauda. Rapid Response Teams (RRTs)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

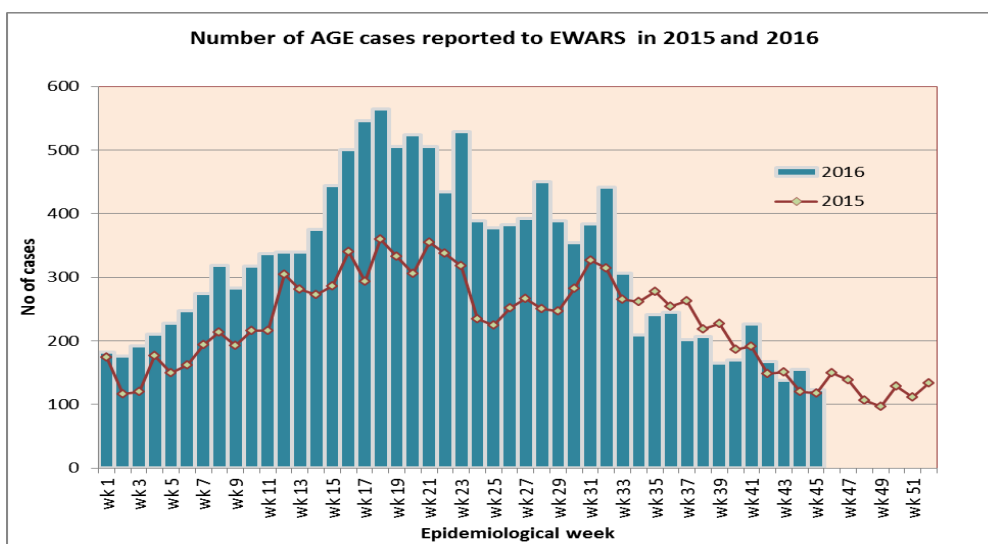
Out of 60 functional EWARS sentinel sites, report was received from 42 sentinel sites (70 percent) whereas 18 sentinel sites did not report in 45th Epidemiological week. The reporting coverage is increased as compared to the previous week.



1.1 Acute Gastro-Enteritis and Cholera

123 cases of AGE are reported in 45th epidemiological week of 2016. Among 123 cases, the majority of cases are from Dhanusha (12 cases), Morang (12 cases), Kanchanpur (10 cases), Sunsari (8 cases), Dhading (7 cases), Illam (6 cases), Mahottari (6 cases), Nawalparasi (56 cases) and Dolakha (5 cases) district. The number of AGE cases reported in 45th week this year slightly exceeds the number of AGE cases reported in the same week last year (118 cases).

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

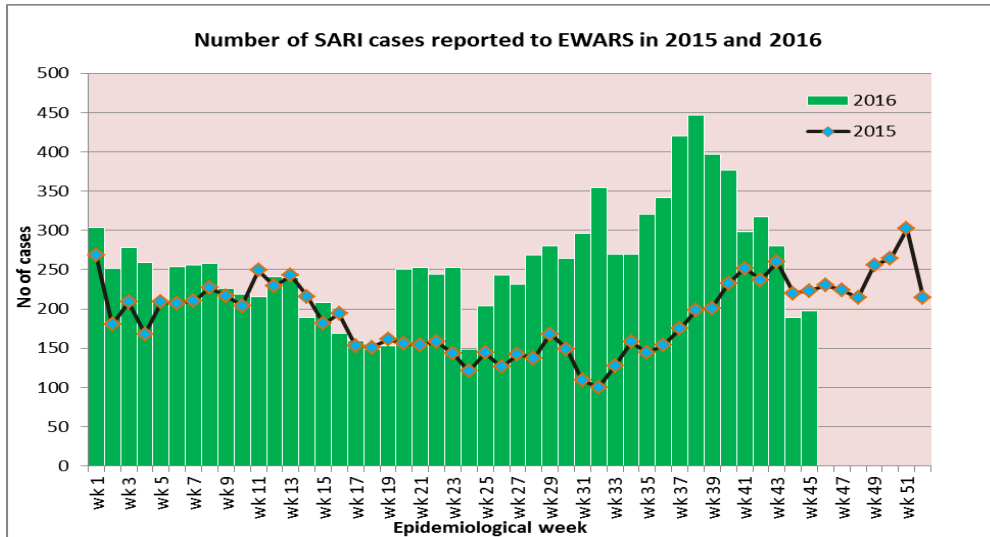


- Cholera:** 168 cholera cases were confirmed by the National Public Health Laboratory so far since 30 June, 31 cases in Kathmandu, 118 cases in Lalitpur, 1 in Bhaktapur, 1 in Kavre, 6 in Dhading, 3 in Saptari and 8 from unidentified place.

1.2 Severe Acute Respiratory Infection (SARI)

197 cases of SARI are reported in 45th epidemiological week of 2016. The cases of SARI reported this week did not exceed the number reported in the same week last year (223 cases). Among 172 cases, the majority of cases are from, Morang (25 cases), Jhapa (24 cases), Rupandehi (22 cases) Kathmandu (13 cases), Lalitpur (12 cases), Gorkha (10 cases), Saptari (8 cases), Dhading (8 cases) and Gulmi (8 cases) district.

One death from SARI is reported this week from Lumbini Zonal Hospital, Rupandehi and the case is from same district. Sixty two deaths from SARI are reported so far this year.



1.3 Enteric Fever

62 cases of Enteric fever are reported this week. The majority of cases are from Gulmi (9 cases), Sindhuli (8 cases), Nawalparasi (6 cases), Lamjung (6 cases), and Saptari (4 cases).

1.4 Malaria

Two cases of Malaria (*Plasmodium vivax*) are reported this week, one each from Lumbini Zonal Hospital, Rupandehi and Mahakali Zonal Hospital, Kanchanpur and the cases are from Butwal municipality of Rupandehi district and Daiji VDC of Kanchanpur district.

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

1.5 Dengue

A total of 1239 Dengue cases including one death have been reported from 29 different districts out of which 656 cases from Chitwan and 316 cases from Jhapa, 76 from Rupandehi, 68 from Makwanpur, 24 from Banke, 23 from Bardiya, , 18 from Surkhet, 13 from Kailali, 6 from Dang, 6 from Sarlahi, 4 from Parsa, 3 from Nawalparasi, 3 from Dhading, 3 from Kapilvastu, 3 from Bara, 2 from Kathmandu, 2 from Kanchanpur, 2 from Mahottari, one each from Kavre, Lalitpur, Saptari, Kaski, Syangja, Baglung, Kalikot, Rukum, Sunsari, Pyuthan and Baitadi.

1.6 Kala-azar

One case of Kala-azar is reported this week from Lumbini Zonal Hospital, Rupandehi and the case is from Kapilvastu 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	54
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	93	133	DH, Chautara	On time	100
105	DH, Dhankuta	No reporting	95	134	DH, Sarlahi	On time	100
106	SZH, Saptari	On time	100	135	DH, Sindhuli	On time	100
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	66
110	DH, Rautahat	On time	85	139	DH, Dolpa	No reporting	0
111	DH, Bara	No reporting	0	140	DH, Humla	No reporting	0
112	NSRH, Parsa	No reporting	78	201	Lamjung Comm DH, Lamjung	On time	100
113	DH, Makawanpur	On time	100	202	DH, Dhading	On time	100
114	NZH, Chitwan	On time	100	203	DH, Ramechhap	On time	100
115	Kanti CH, Kathmandu	On time	90	204	Bhaktapur Hospital	On time	60
116	STH, Kathmandu	On time	100	205	Patan Hospital, Lalitpur	On time	86
117	UMH, Palpa	On time	100	206	DH, Gorkha	On time	80
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	90
121	RSRH Dang	No reporting	93	210	DH, Syangja	On time	100
122	MWRH, Surkhet	No reporting	82	211	DH, Tanahun	On time	91
123	BZH, Banke	No reporting	8	212	WRH, Kaski	On time	100
124	SZH, Kailali	No reporting	48	214	DH, Gulmi	On time	88
125	MZH, Kanchanpur	On time	100	215	DZH, Baglung	On time	100
126	DH, Doti	On time	90	219	DH, Mustang	On time	88
127	DH, Bardiya	On time	100	220	DH, Pyuthan	On time	100
128	DH, Mahottari	On time	100	221	DH, Rolpa	No reporting	30
129	DH, Dadeldhura	No reporting	0	229	DH, Achham	No reporting	86
				230	DH, Baitadi	No reporting	97
				237	DH, Bhojpur	No reporting	88
				240	DH, Udaypur	On time	90

	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 EDCD's official website www.edcd.gov.np. This bulletin is also available at the website.