

Early Warning and Reporting System (EWARS)

Weekly Bulletin

(43rd 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

- A total of 22 cases of Diarrhoea including 2 deaths (children) have been reported from Aurahi and Itari Parsai VDCs of Siraha district since 05 November 2016. One death reported from district hospital Siraha and the other from Local medical shop on 05 and 06 November respectively.
- **Dengue:** A total of 873 Dengue cases have been reported from 24 different districts since January 2016 out of which 538 cases from Chitwan and 224 cases from Jhapa district.
- **Scrub Typhus:** A total of 620 cases of Scrub Typhus cases including 14 deaths have been reported from 47 different districts of Nepal Since July, 2016. Out of which 432 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, 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.
- **Malaria:** One case of Malaria (*Plasmodium vivax*) is reported in 43rd week from Lumbini Zonal Hospital, Rupandehi and the case is from Nawalparasi district. Similarly three case of Malaria including one (*Plasmodium falciparum*) were reported in 42nd week and the cases were from Kathmandu, Pyuthan, and Bhojpur district.
- **Kala-azar:** Three cases of Kala-azar are reported this week, one each from Sukraraj Tropical and Infectious Disease Hospital, Teku, District Hospital, Siraha and Lumbini Zonal Hospital, Rupandehi and the cases are from Bardiya, Siraha and Rupandehi district. Similarly six cases of Kala-azar were reported in 42nd week and the cases were from Dhanusha, Siraha, Mahottari, Palpa and Rupandehi district.
- One death from SARI is reported this week from United Mission Hospital, Palpa and the case was from Pipaldanda VDC of Palpa district.

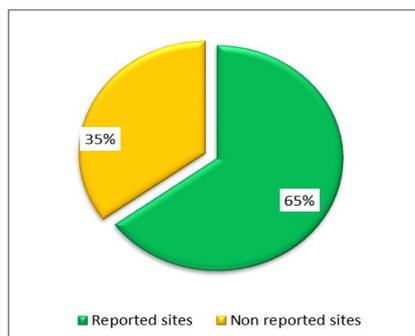
The EWARS was established in 1997 to strengthen the flow of information on vector-borne and other outbreak prone infectious diseases from the district to Epidemiology and Disease Control Division (EDCD) and Vector-Borne Disease Research and Training Center (VBDRTC), Hetauda. Rapid Response Teams (RRTs)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

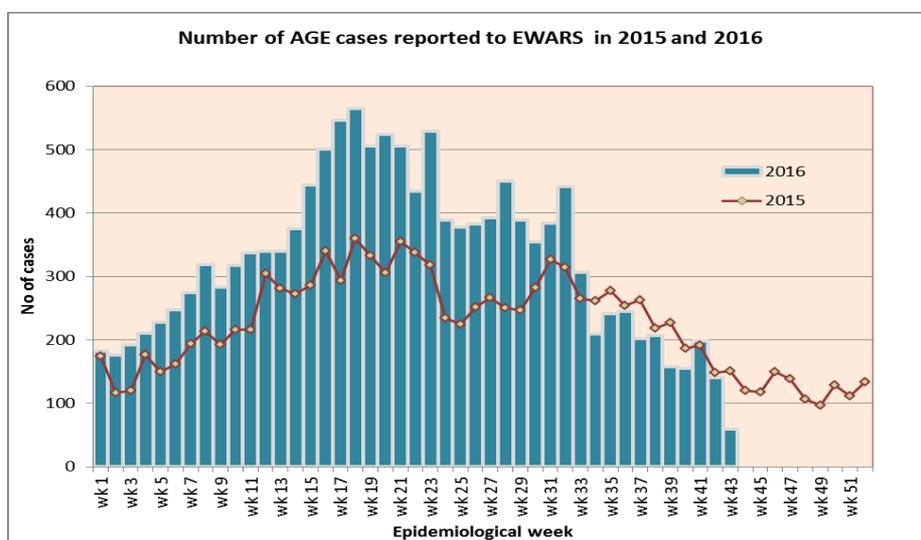
Out of 60 functional EWARS sentinel sites, report was received from 39 sentinel sites (65 percent) whereas 21 sentinel sites did not report in 42nd and 43rd Epidemiological week. The reporting coverage is decreased as compared to the previous week.



1.1 Acute Gastro-Enteritis and Cholera

Fifty nine cases of AGE are reported in 43rd epidemiological week of 2016. Among 59 cases, the majority of cases are from Dolakha (9 cases), Kathmandu (9 cases), Rupandehi (9 cases) and Bardiya (3 cases) district. Whereas 140 AGE cases are reported in 42nd Epidemiological week and the majority of cases are from Kathmandu(14 cases), Kanchanpur(10 cases), Sunsari(9 cases), Lalitpur(8 cases) and Dhanusha(8 cases) district. The number of AGE cases reported in 42nd and 43rd week this year did not exceed the number of AGE cases reported in the same week last year (148 and 151 cases).

No death from AGE is reported in 42nd and 43rd week. Twelve deaths from AGE are reported so far this year.

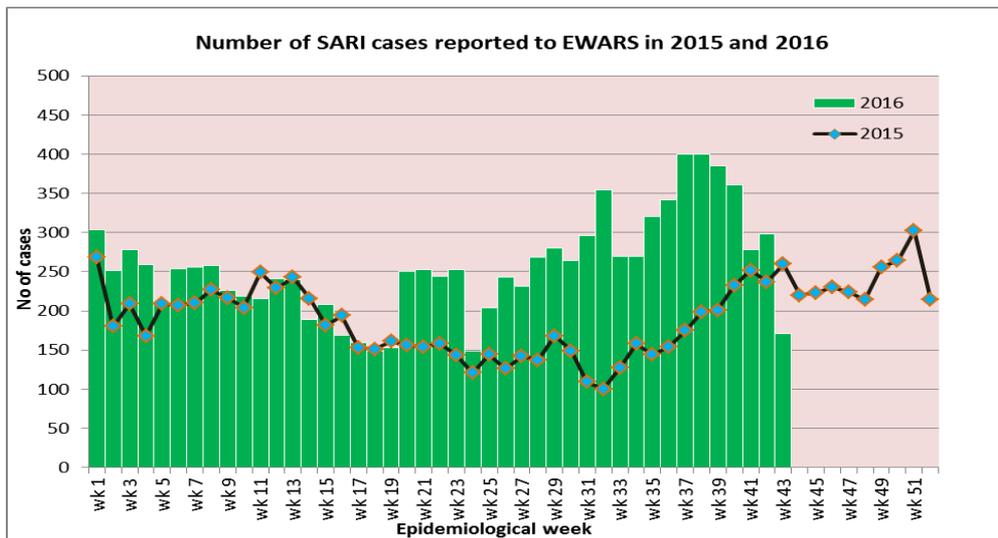


- Cholera:** 168 cholera cases were confirmed by the National Public Health Laboratory so far since 30 June, 31 cases in Kathmandu, 118 cases in Lalitpur, 1 in Bhaktapur, 1 in Kavre, 6 in Dhading, 3 in Saptari and 8 from unidentified place.

1.2 Severe Acute Respiratory Infection (SARI)

171 cases of SARI are reported in 43rd epidemiological week of 2016. The cases of SARI reported this week did not exceed the number reported in the same week last year (260 cases). Among 171 cases, the majority of cases are from, Saptari (20 cases) Jhapa (18 cases), Palpa (16 cases), Lalitpur (14 cases), Rupandehi (13 cases), Morang (8 cases), Sunsari (7 cases) and Gulmi (7 cases) district. There is decrease in number of SARI cases in comparison to last week.

One death from SARI is reported this week from United Mission Hospital, Palpa and the case was from Pipaldanda VDC of Palpa district. Sixty one deaths from SARI are reported so far this year.



1.3 Enteric Fever

41 cases of Enteric fever are reported this week. The majority of cases are from Saptari (7 cases), Baglung (3 cases), Dhading (3 cases), Palpa (3 cases), Dolakha (3 cases) and Palpa (3 cases) district.

1.4 Malaria

One case of Malaria (*Plasmodium vivax*) is reported in 43rd week from Lumbini Zonal Hospital, Rupandehi and the case is from Nawalparasi district.

Similarly one case of (*Plasmodium falciparum*) and two cases of (*Plasmodium vivax*) were reported in 42nd week. The (*Plasmodium falciparum*) case was reported from Sukraraj Tropical and Infectious Disease Hospital, Teku and the case was from Kathmandu district. Similarly (*Plasmodium vivax*) cases were reported from Lumbini Zonal Hospital, Rupandehi and BPKIHS, Dharan and the cases were from Pyuthan and Bhojpur district respectively.

Sixty seven 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 873 Dengue cases have been reported from 24 different districts out of which 538 cases from Chitwan and 224 cases from Jhapa, 27 from Rupandehi, 16 from Bardiya, 12 from Kailali, 11 from Makwanpur, 11 from Banke, 8 from Surkhet, 5 from Dang, 3 from Parsa, 3 from Nawalparasi, 2 from Kathmandu, 2 from Kanchanpur and one each from Dhading, Kapilvastu, Kavre, Lalitpur, Saptari, Kaski, Syangja, Baglung, Kalikot, Bara and Rukum.

1.6 Kala-azar

Three cases of Kala-azar are reported this week, one each from Sukraraj Tropical and Infectious Disease Hospital, Teku, District Hospital, Siraha and Lumbini Zonal Hospital, Rupandehi and the cases are from Bardiya, Siraha and Rupandehi district. Similarly six cases of Kala-azar were reported in 42nd week, out of which four cases were reported

from Janakpur Zonal Hospital, Dhanusha and two cases from Lumbini Zonal Hospital, Rupandehi. The cases were from Dhanusha, Siraha, Mahottari, Palpa and Rupandehi.

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	60
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	100	134	DH, Sarlahi	No reporting	95
106	SZH, Saptari	On time	100	135	DH, Sindhuli	On time	100
107	RKUP Lahan, Siraha	No reporting	95	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	70
110	DH, Rautahat	No reporting	84	139	DH, Dolpa	No reporting	0
111	DH, Bara	No reporting	0	140	DH, Humla	No reporting	0
112	NSRH, Parsa	No reporting	85	201	Lamjung Comm DH, Lamjung	On time	100
113	DH, Makawanpur	On time	100	202	DH, Dhading	No reporting	90
114	NZH, Chitwan	No reporting	95	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	65
118	PCH, Nawalparasi	On time	98	207	DH Trishuli, Nuwakot	No reporting	5
119	PBH, Kapilvastu	No reporting	90	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	95	210	DH, Syangja	On time	100
122	MWRH, Surkhet	No reporting	80	211	DH, Tanahun	No reporting	90
123	BZH, Banke	On time	4	212	WRH, Kaski	On time	100
124	SZH, Kailali	No reporting	50	214	DH, Gulmi	No reporting	90
125	MZH, Kanchanpur	On time	100	215	DZH, Baglung	On time	100
126	DH, Doti	On time	86	219	DH, Mustang	No reporting	90
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, Dadelhura	No reporting	0	229	DH, Achham	On time	90
				230	DH, Baitadi	On time	100
				237	DH, Bhojpur	No reporting	95
				240	DH, Udaypur	On time	92

	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.