

Early Warning and Reporting System (EWARS)

Weekly Bulletin

(26th Epidemiological Week)

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This bulletin includes the updates from the Early Warning Reporting System (EWARS). It includes data since January 2017 till date, including comparison of same period during last year.

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

Highlights

- **Malaria:** Three cases of Malaria (*Plasmodium vivax*) are reported this week, one each from Janakpur Zonal Hospital, Dhanusha, Sukraraj Tropical and Infectious Disease Hospital, Teku and Bheri Zonal Hospital, Banke. The cases are from Dhanusha, Lalitpur and Kailali district respectively. Similarly one case of Malaria (*Plasmodium falciparum*) is reported from Lumbini Zonal Hospital, Rupandehi and the case is from Kapilbastu district.
- **Kala-azar:** Two cases of Kala-azar are reported this week, one each from Koshi Zonal Hospital, Morang and Mid-Western Regional Hospital, Surkhet. The cases are from Morang and Surkhet district respectively.
- **SARI:** Two deaths from SARI are reported this week, one each from United Mission Hospital, Palpa and District Hospital, Solukhumbu and the cases are from Palpa and Solukhumbu District respectively.
- **AGE:** 40 cases of AGE including 2 deaths have been reported from Laxmipur Patari VDC of Siraha district since 26th June, 2017. Both the deceased were above 70's and both the death occurred at home.
- **Flood:** 1500 households from 7 different VDC's of Saptari district were affected from flood which occurred on 1st July, 2017. No human casualty.
- **Landslides:** 5 deaths due to landslides has been recorded and reported from 3 different districts (1 death from Pokhara municipality-18 of Kaski district, 1 death from Gaumukhi Rural Municipality of Pyuthan district and 3 deaths from Hosrangti VDC of Parbat district).

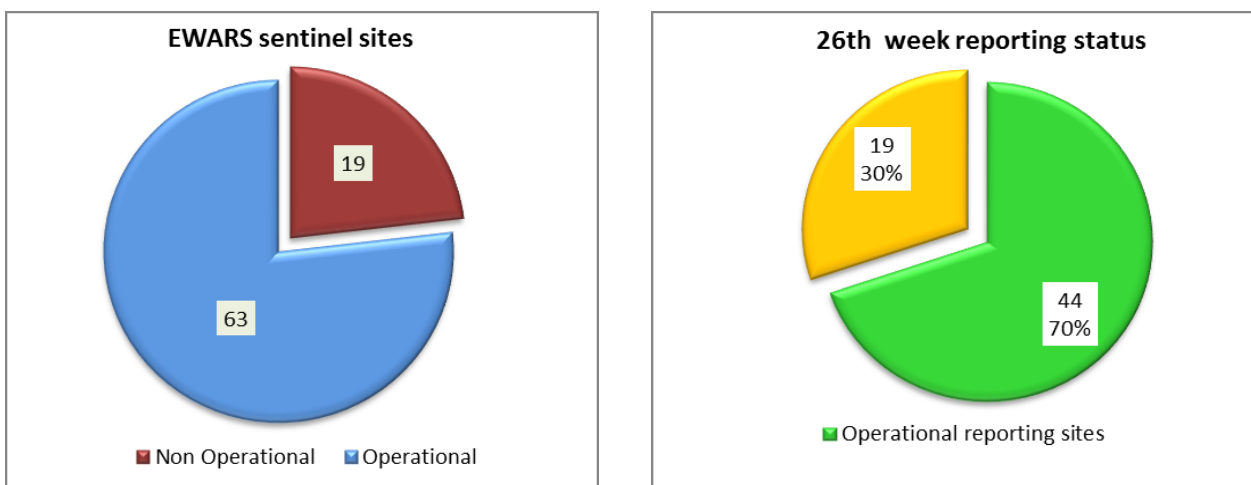
The EWARS was established in 1997 to strengthen the flow of information on vector-borne and other outbreak prone infectious diseases from the district to Epidemiology and Disease Control Division (EDCD) and Vector-Borne Disease Research and Training Center (VBDRTC), Hetauda. Rapid Response Teams (RRTs)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

This information system is hospital-based and is currently operational in 63 hospitals (out of 82 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

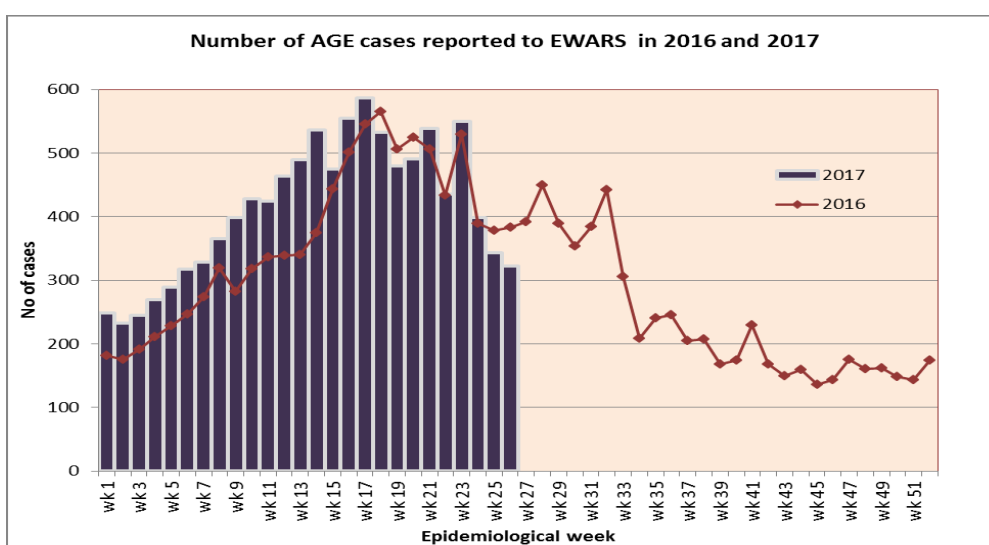
Out of 63 functional EWARS sentinel sites, report was received from 44 sentinel sites (70 percent) whereas 19 sentinel sites did not report in 26th Epidemiological week of 2017. The reporting coverage is increased as compared to the previous week.



1.1 Acute Gastro-Enteritis and Cholera

322 cases of AGE are reported in 26th epidemiological week of 2017. Among 322 cases, the majority of cases are from Dolakha (25 cases), Achham (24 cases), Kathmandu (24 cases), Lamjung (15 cases), Kapilbastu (14 cases), Pyuthan (14 cases), Bara (12 cases), Illam (11 cases), Ramechhap (11 cases), Sindhupalchok (11 cases) and Siraha (11 cases) district. The number of AGE cases reported in 26th week this year did not exceed the number of AGE cases reported in the same week last year (383 cases).

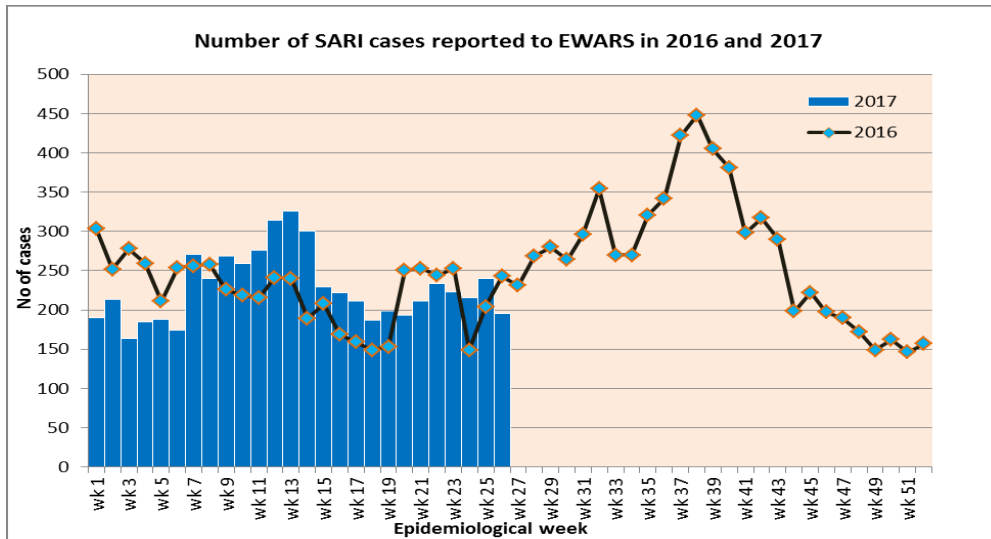
No death from AGE is reported this week. Nine deaths from AGE are reported so far this year. Thirteen deaths from AGE were reported in 2016.



1.2 Severe Acute Respiratory Infection (SARI)

195 cases of SARI are reported in 26th epidemiological week of 2017. The cases of SARI reported this week slightly exceed the number reported in the same week last year (243 cases). Among 195 cases, the majority of cases are from Morang (24 cases), Rupandehi (19 cases), Panchthar (17 cases), Syangja (15 cases), Lalitpur (11 cases), Kathmandu (10 cases), Dhankuta (10 cases) and Jhapa (8 cases) district.

Two deaths from SARI are reported this week, one each from United Mission Hospital, Palpa and District Hospital, Solukhumbu and the cases are from Palpa and Solukhumbu District respectively. Forty deaths from SARI are reported so far this year. Seventy deaths from SARI were reported in 2016.



1.3 Enteric Fever

61 cases of Enteric fever are reported this week, including 9 from Kaski, 8 from Palpa, 4 from Siraha, 4 from Gulmi, 4 from Illam, 4 from Lamjung and 4 from Tanahun district. One death from Enteric Fever is reported so far this year.

1.4 Malaria

Three cases of Malaria (*Plasmodium vivax*) are reported this week, one each from Janakpur Zonal Hospital, Dhanusha, Sukraraj Tropical and Infectious Disease Hospital, Teku and Bheri Zonal Hospital, Banke. The cases are from Dhanusha, Lalitpur and Kailali district respectively. Similarly one case of Malaria (*Plasmodium falciparum*) is reported from Lumbini Zonal Hospital, Rupandehi and the case is from Kapilbastu district.

Thirty six cases of malaria are reported so far this year. Eighty three cases of Malaria were reported through EWARS in 2016.

1.5 Dengue

No case of Dengue is reported this week. Nine cases of Dengue are reported so far this year.

1.6 Kala-azar

Two cases of Kala-azar are reported this week, one each from Koshi Zonal Hospital, Morang and Mid-Western Regional Hospital, Surkhet. The cases are from Morang and Surkhet district respectively.

One hundred forty six cases of Kala-azar cases are reported so far this year. 150 cases of Kala-azar were reported through EWARS in 2016.

Timeliness & completeness of reporting from sentinel sites:

Site Code	Sentinel Sites	Timeliness (This Week)	Completeness (%)	Site Code	Sentinel Sites	Timeliness (This Week)	Completeness (%)
101	Mechi ZH, Jhapa	On Time	100	135	DH, Sindhuli	On Time	96
102	Koshi ZH, Morang	On Time	100	136	DH, Illam	On Time	100
103	DH, Sunsari	On Time	100	137	Dhulikhel H., Kavre	On Time	96
104	BPKIHS, Dharan	No Reporting	92	138	DH, Solukhumbu	On Time	65
105	DH, Dhankuta	On Time	100	139	DH, Dolpa	No Reporting	0
106	SZH, Saptari	No Reporting	50	140	DH, Humla	No Reporting	0
107	RKUP Lahan, Siraha	On Time	100	201	L. Comm DH, Lamjung	On Time	100
108	DH, Siraha	On Time	100	202	DH, Dhading	No Reporting	0
109	JZH, Dhanusha	On Time	100	203	DH, Ramechhap	On Time	100
110	DH, Rautahat	No Reporting	92	204	Bhaktapur Hospital	No Reporting	0
111	DH, Bara	On Time	100	205	Patan Hospital, Lalitpur	On Time	100
112	NSRH, Parsa	No Reporting	92	206	DH, Gorkha	On Time	100
113	DH, Makawanpur	On Time	100	207	DH Trishuli , Nuwakot	No Reporting	0
114	NZH, Chitwan	No Reporting	92	208	Charikot PHCC, Dolakha	On Time	100
115	Kanti CH, Kathmandu	On Time	100	209	Jiri H, Dolakha	On Time	100
116	STH, Kathmandu	On Time	100	210	DH, Syangja	On Time	100
117	UMH, Palpa	On Time	100	211	DH, Tanahun	On Time	90
118	PCH, Nawalparasi	On Time	100	212	WRH, Kaski	On Time	100
119	PBH, Kapilbastu	On Time	100	214	DH, Gulmi	No Reporting	85
120	LZH, Rupandehi	On Time	100	215	DZH, Baglung	No reporting	92
121	RSRH Dang	No Reporting	96	219	DH, Mustang	On Time	35
122	MWRH, Surkhet	On Time	100	220	DH, Pyuthan	On Time	100
123	BZH, Banke	On Time	100	221	DH, Rolpa	On Time	20
124	SZH, Kailali	No Reporting	0	229	DH, Achham	On Time	100
125	MZH, Kanchanpur	No Reporting	92	230	DH, Baitadi	On Time	100
126	DH, Doti	On Time	100	235	DH, Panchthar	On Time	100
127	DH, Bardiya	On Time	100	237	DH, Bhojpur	No Reporting	50
128	DH, Mahottari	No Reporting	70	238	DH, Khotang	No Reporting	45
129	DH, Dadeldhura	No Reporting	0	240	DH, Udayapur	No Reporting	0
130	DH, Rasuwa	On Time	50	301	Bayalpata Hosp., Achham	On Time	100
131	DH, Sankhuwasabha	On Time	82				
132	AMDA Hosp., Jhapa	On Time	100			Excellent (>80)	
133	DH, Chautara	On time	100			Satisfactory (50-79)	
134	DH, Sarlahi	On Time	100			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 NHSSP, WHO 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.