

Early Warning and Reporting System (EWARS)

Weekly Bulletin

(16th 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

- **Kala-azar:** Seven cases of Kala-azar are reported this week, two from Janakpur Zonal Hospital, Dhanusha and one each from Kanti Children Hospital, Kathmandu, Sukraraj Tropical and Infectious Disease Hospital, Kathmandu, District Hospital Sarlahi, Koshi Zonal Hospital, Morang and Lumbini Zonal Hospital, Rupandehi. The cases are from Dhanusha, Mahottari, Humla, Rukum, Sarlahi, Morang and Pyuthan districts respectively.
- **Malaria:** One case of Malaria (*Plasmodium vivax*) is reported this week from District Hospital, Achham and the case is from Bajura district.
- **SARI:** One death from SARI is reported this week from Kanti Children Hospital, Kathmandu and the deceased was from Rasuwa district.
- Eight Acute jaundice cases are reported from Kanti Children Hospital, Kathmandu and the cases are from Kathmandu, Sarlahi, Chitwan, Dolakha and Bhaktapur districts.
- No case of Dengue is reported this week.
- No death from AGE is reported this week.

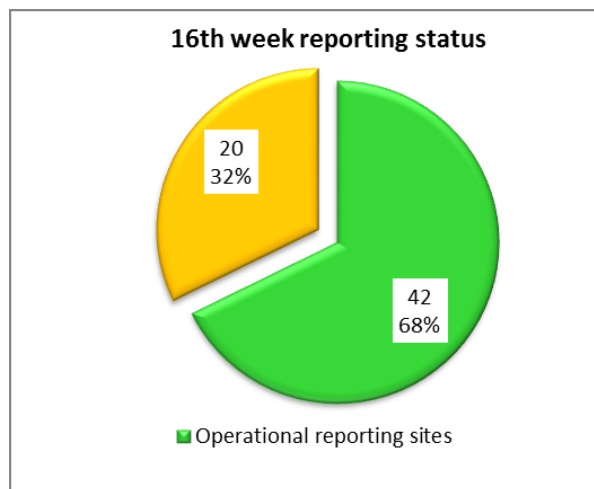
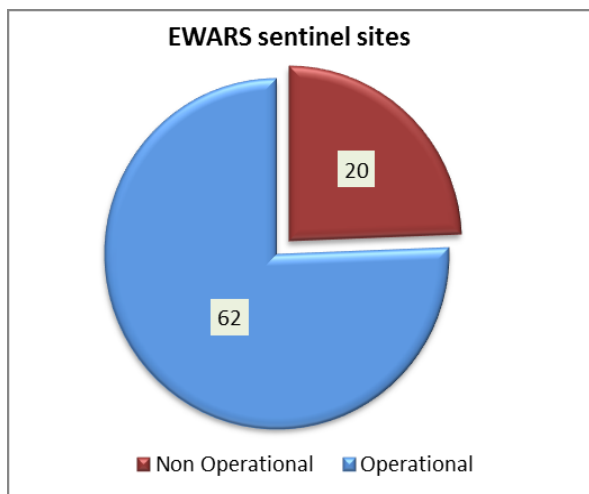
The EWARS was established in 1997 to strengthen the flow of information on vector-borne and other outbreak prone infectious diseases from the district to Epidemiology and Disease Control Division (EDCD) and Vector-Borne Disease Research and Training Center (VBDRTC), Hetauda. Rapid Response Teams (RRTs) can be mobilized at short notice to facilitate prompt outbreak response at Central, Regional and District level. 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 62 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

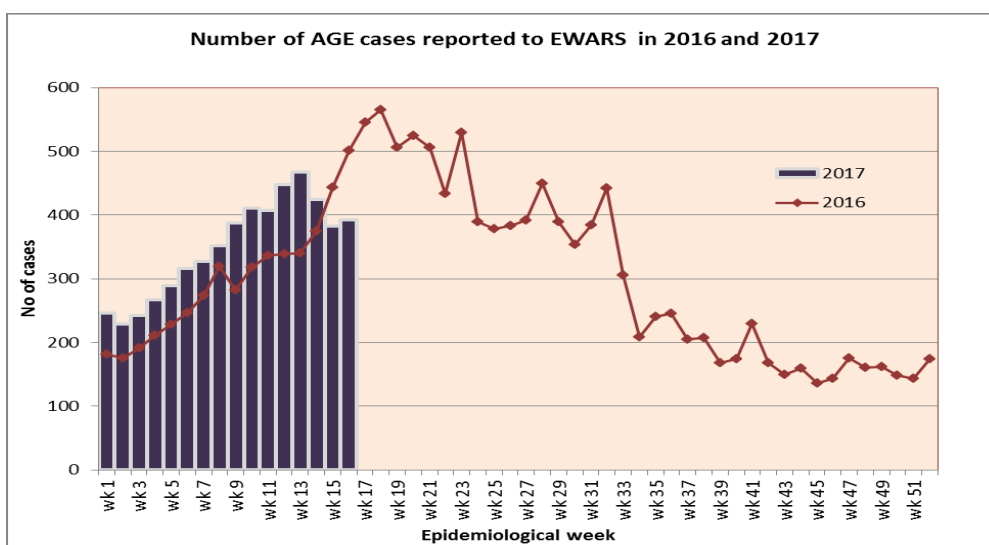
Out of 62 functional EWARS sentinel sites, report was received from 42 sentinel sites (68 percent) whereas 20 sentinel sites did not report in 16th Epidemiological week of 2017. The reporting coverage is increased as compared to the previous week.



1.1 Acute Gastro-Enteritis and Cholera

395 cases of AGE are reported in 16th epidemiological week of 2017. Among 395 cases, the majority of cases are from Kanchanpur (58 cases), Achham (35 cases), Kathmandu (24 cases), Kapilbastu (23 cases), Dhanusha (21 cases), Jhapa (21 cases), Rupandehi (21 cases), Makwanpur (16 cases), Kaski (12 cases), Dang (10 cases) and Gorkha (8 cases) district. The number of AGE cases reported in 16th week this year did not exceed the number of AGE cases reported in the same week last year (501 cases).

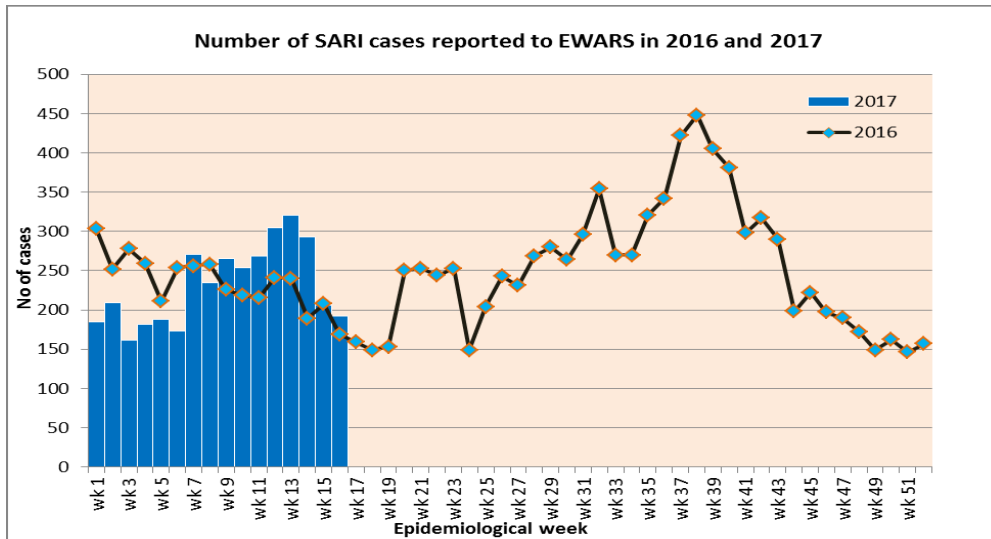
No death from AGE is reported this week. Three deaths from AGE are reported so far this year. Thirteen deaths from AGE were reported in 2016.



1.2 Severe Acute Respiratory Infection (SARI)

193 cases of SARI are reported in 16th epidemiological week of 2017. The cases of SARI reported this week slightly exceed the number reported in the same week last year (169 cases). Among 193 cases, the majority of cases are from Morang (23 cases), Jhapa (19 cases), Baitadi (13 cases), Lalitpur (13 cases), Rupandehi (12 cases), Panchthar (11 cases), Dhankuta (8 cases) and Gorkha (7 cases) district.

One death from SARI is reported this week from Kanti Children Hospital, Kathmandu and the deceased was from Rasuwa district. Twenty-seven deaths from SARI are reported so far this year. Seventy deaths from SARI were reported in 2016.



1.3 Enteric Fever

34 cases of Enteric fever are reported this week, including 5 from Lamjung, 5 from Tanahu, 4 from Kaski, and 3 from Chitwan and two each from Surkhet, Baglung, Doti and Ramechhap district.

1.4 Malaria

One case of Malaria (*Plasmodium Vivax*) is reported this week from District Hospital, Achham and the case is from Bajura district. Seven 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. Three cases of Dengue are reported so far this year.

1.6 Kala-azar

Seven cases of Kala-azar are reported this week, two from Janakpur Zonal Hospital, Dhanusha and one each from Kanti Children Hospital, Kathmandu, Sukraraj Tropical and Infectious disease Hospital, Kathmandu, District Hospital Sarlahi, Koshi Zonal Hospital, Morang and Lumbini Zonal Hospital, Rupandehi. The cases are from Dhanusha, Mahottari, Humla, Rukum, Sarlahi, Morang and Pyuthan districts respectively.

Eighty nine 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	Not Reporting	87
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	90
104	BPKIHS, Dharan	On Time	100	138	DH, Solukhumbu	On Time	40
105	DH, Dhankuta	On Time	100	139	DH, Dolpa	Not Reporting	0
106	SZH, Saptari	Not Reporting	62	140	DH, Humla	Not 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	Not Reporting	0
109	JZH, Dhanusha	On Time	100	203	DH, Ramechhap	On Time	100
110	DH, Rautahat	On Time	100	204	Bhaktapur Hospital	Not Reporting	0
111	DH, Bara	On Time	43	205	Patan Hospital, Lalitpur	On Time	100
112	NSRH, Parsa	Not Reporting	81	206	DH, Gorkha	On Time	100
113	DH, Makawanpur	On Time	92	207	DH Trishuli , Nuwakot	Not Reporting	0
114	NZH, Chitwan	On Time	100	208	Charikot PHCC, Dolakha	No reporting	93
115	Kanti CH, Kathmandu	On Time	100	209	Jiri H, Dolakha	On Time	93
116	STH, Kathmandu	On Time	100	210	DH, Syangja	Not Reporting	0
117	UMH, Palpa	On Time	100	211	DH, Tanahun	On Time	100
118	PCH, Nawalparasi	Not Reporting	75	212	WRH, Kaski	On Time	100
119	PBH, Kapilvastu	On Time	100	214	DH, Gulmi	Not Reporting	81
120	LZH, Rupandehi	On Time	100	215	DZH, Baglung	On Time	100
121	RSRH Dang	On Time	98	219	DH, Mustang	Not Reporting	40
122	MWRH, Surkhet	On Time	100	220	DH, Pyuthan	No reporting	93
123	BZH, Banke	On Time	100	221	DH, Rolpa	Not Reporting	0
124	SZH, Kailali	Not Reporting	0	229	DH, Achham	On Time	100
125	MZH, Kanchanpur	On Time	100	230	DH, Baitadi	On Time	100
126	DH, Doti	On Time	100	235	DH, Panchthar	On Time	70
127	DH, Bardiya	No reporting	93	237	DH, Bhojpur	Not Reporting	50
128	DH, Mahottari	No reporting	93	240	DH, Udaypur	Not Reporting	0
129	DH, Dadeldhura	Not Reporting	0	301	Bayalpata Hosp., Achham	On Time	100
130	DH, Rasuwa	On Time	6				
131	DH, Sankhuwasabha	On Time	72				
132	AMDA Hosp., Jhapa	On Time	100				
133	DH, Chautara	On Time	100				
134	DH, Sarlahi	On Time	100				
						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.