

Early Warning and Reporting System (EWARS)

Weekly Bulletin

(49th 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.

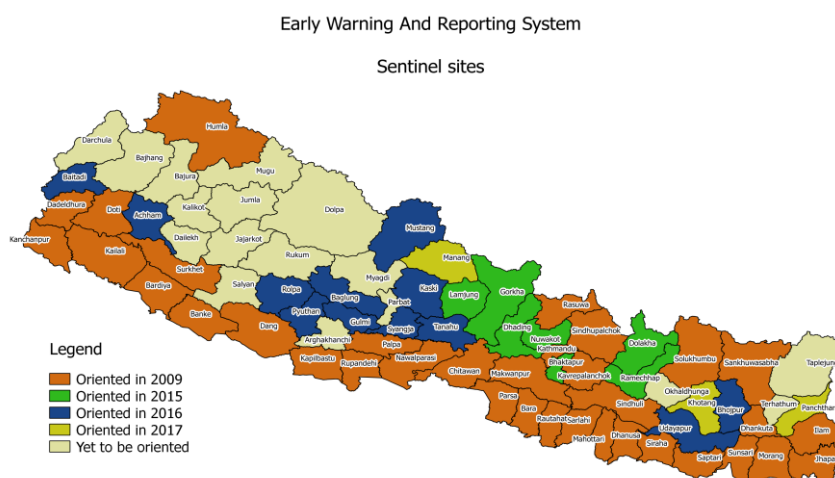
Section 1: The Early Warning and Reporting System (EWARS)

Highlights

- **Kala-azar:** Three cases of Kala azar are reported this week, one each from Koshi Zonal Hospital, Morang, Janakpur Zonal Hospital, Dhanusha and Lumbini Zonal Hospital, Rupandehi. The cases are from Morang, Dhanusha and Pyuthan district.
- **Dengue:** Six cases of Dengue are reported this week, 4 from Sukraraj tropical and Infectious disease hospital, Teku, one from Kanti Children Hospital, Kathmandu and one from Lumbini Zonal Hospital, Rupandehi district. The cases are from Mahottari Sarlahi and Rupandehi district.
- **Malaria:** No case of malaria is reported this week.
- **Scrub typhus:** Two cases of Scrub Typhus are reported this week, one each from Sukraraj tropical and Infectious Disease Hospital, Teku and United Mission Hospital, Palpa and the cases are from Dhading and Palpa district
- **AGE:** One death from AGE is reported this week from Lumbini Zonal Hospital, Rupandehi and the deceased was from Rupandehi district.
- **SARI:** Four deaths from SARI are reported this week, two from Patan Hospital, Lalitpur and one each from Lumbini Zonal Hospital, Rupandehi and United Mission Hospital, Palpa. The cases were from Rupandehi, Kathmandu, Nuwakot and Palpa district.

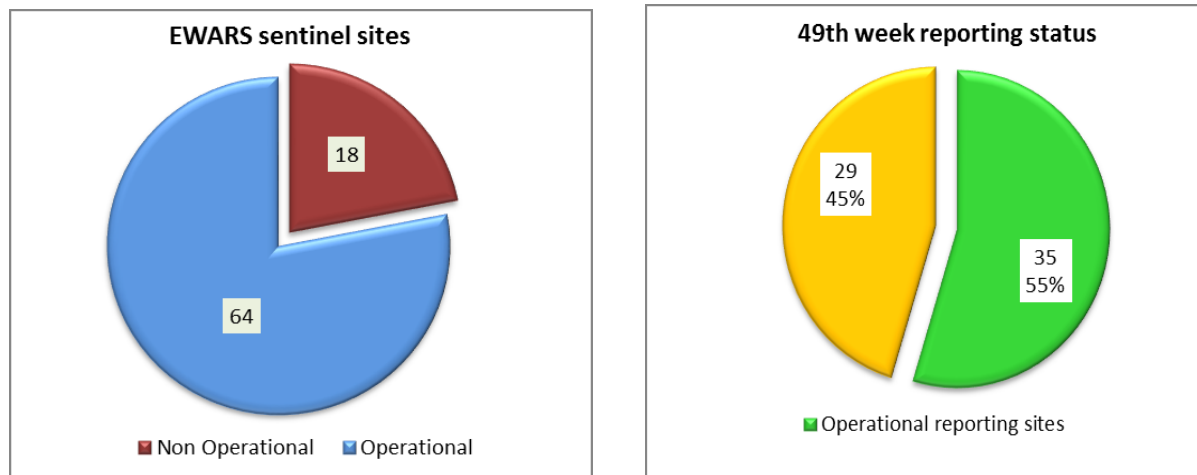
The EWARS was established in 1997 to strengthen the flow of information on vector-borne and other outbreak prone infectious diseases from the district to Epidemiology and Disease Control Division (EDCD) and Vector-Borne Disease Research and Training Center (VBDRTC), Hetauda. Rapid Response Teams (RRTs) can be mobilized at short notice to facilitate prompt outbreak response at Central, Regional and District level. 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 64 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

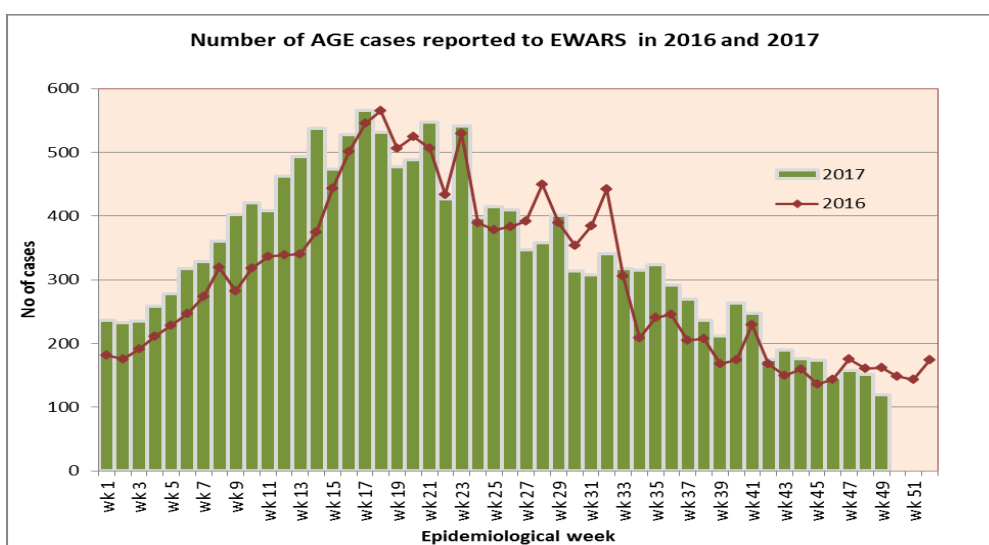
Out of 64 functional EWARS sentinel sites, report was received from 35 sentinel sites (55 percent) whereas 29 sentinel sites did not report in 49th Epidemiological week of 2017. The reporting coverage is increased as compared to the previous week.



1.1 Acute Gastro-Enteritis and Cholera

121 cases of AGE are reported in 49th epidemiological week of 2017. Among 121 cases, the majority of cases are from Dhanusha (19 cases), Siraha (10 cases), Makawanpur (9 cases), Dolakha (8 cases), Kapilbastu (8 cases), Kathmandu (8 cases), Khotang (7 cases), Illam (65 cases), Bardiya (5 cases) and Syangja (5 cases) district. The number of AGE cases reported in 49th week this year is less as compared to the same week last year (162 cases).

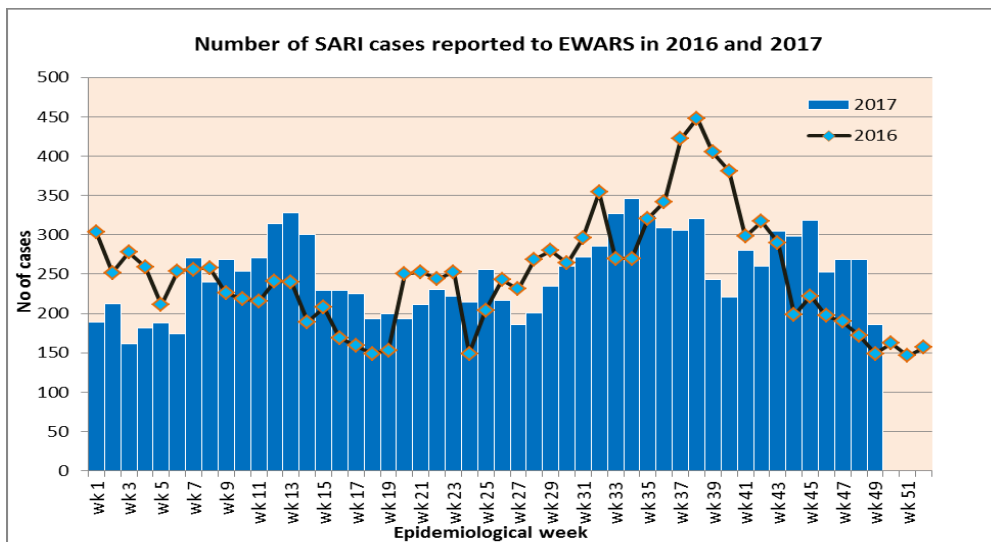
One death from AGE is reported this week from Lumbini Zonal Hospital, Rupandehi and the deceased was from Rupandehi district. Twenty deaths from AGE are reported so far this year. Thirteen deaths from AGE were reported in 2016.



1.2 Severe Acute Respiratory Infection (SARI)

188 cases of SARI are reported in 49th epidemiological week of 2017. The cases of SARI reported this week exceed the number reported in the same week last year (149 cases). Among 188 cases, the majority of cases are from Morang (24 cases), Rupandehi (20 cases), Lalitpur (14 cases), Kathmandu (13 cases), Palpa (11 cases), Sunsari (8 cases) and Surkhet (7 cases) district.

Four deaths from SARI are reported this week, two from Patan Hospital, Lalitpur and one each from Lumbini Zonal Hospital, Rupandehi and United Mission Hospital, Palpa. The cases were from Rupandehi, Kathmandu, Nuwakot and Palpa district. Eighty one deaths from SARI are reported so far this year. Seventy deaths from SARI were reported in 2016.



1.3 Enteric Fever

26 cases of Enteric fever are reported this week, including 4 from Kaski, 4 from Lamjung, 3 from Chitwan and 2 each from Baglung, Siraha and Syangja district. Three deaths from Enteric Fever are reported so far this year.

1.4 Malaria

No case of Malaria is reported this week. Ninety one cases of Malaria are reported so far this year. Eighty three cases of Malaria were reported through EWARS in 2016.

1.5 Dengue

Six cases of Dengue are reported this week, 4 from Sukraraj tropical and Infectious disease hospital, Teku, one from Kanti Children Hospital, Kathmandu and one from Lumbini Zonal Hospital, Rupandehi district. The cases are from Mahottari Sarlahi and Rupandehi district.

1.6 Kala-azar

Three cases of Kala azar are reported this week, one each from Koshi Zonal Hospital, Morang, Janakpur Zonal Hospital, Dhanusha and Lumbini Zonal Hospital, Rupandehi. The cases are from Morang, Dhanusha and Pyuthan district.

Two hundred ten cases of Kala-azar are reported so far this year. 150 cases of Kala-azar were reported through EWARS in 2016.

1.7 Scrub Typhus

Two cases of Scrub Typhus are reported this week, one each from Sukraraj tropical and Infectious Disease Hospital, Teku and United Mission Hospital, Palpa and the cases are from Dhading and Palpa district. 449 cases of Scrub Typhus are reported so far this year.

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	No Reporting	95	135	DH, Sindhuli	On Time	100
102	Koshi ZH, Morang	On Time	100	136	DH, Illam	On Time	100
103	DH, Sunsari	On Time	100	137	Dhulikhel H., Kavre	No reporting	95
104	BPKIHS, Dharan	No Reporting	97	138	DH, Solukhumbu	No Reporting	52
105	DH, Dhankuta	On Time	100	139	DH, Dolpa	No Reporting	0
106	SZH, Saptari	No Reporting	30	140	DH, Humla	No Reporting	0
107	RKUP Lahan, Siraha	On Time	100	201	L. Comm DH, Lamjung	Late Reporting	100
108	DH, Siraha	On Time	100	202	DH, Dhading	No Reporting	35
109	JZH, Dhanusha	On Time	100	203	DH, Ramechhap	On Time	100
110	DH, Rautahat	No Reporting	95	204	Bhaktapur Hospital	No reporting	15
111	DH, Bara	On Time	100	205	Patan Hospital, Lalitpur	On Time	97
112	NSRH, Parsa	No Reporting	95	206	DH, Gorkha	No Reporting	97
113	DH, Makawanpur	Late Reporting	100	207	DH Trishuli, Nuwakot	No Reporting	0
114	NZH, Chitwan	On Time	100	208	Charikot PHCC, Dolakha	On Time	100
115	Kanti CH, Kathmandu	On Time	100	209	Jiri H, Dolakha	On Time	97
116	STH, Kathmandu	On Time	100	210	DH, Syangja	Late Reporting	97
117	UMH, Palpa	On Time	100	211	DH, Tanahun	No Reporting	80
118	PCH, Nawalparasi	No Reporting	97	212	WRH, Kaski	On Time	100
119	PBH, Kapilbastu	On Time	100	214	DH, Gulmi	On Time	100
120	LZH, Rupandehi	On Time	100	215	DZH, Baglung	On Time	100
121	RSRH Dang	On Time	100	218	DH, Manang	No Reporting	45
122	MWRH, Surkhet	On Time	100	219	DH, Mustang	On Time	82
123	BZH, Banke	No reporting	55	220	DH, Pyuthan	No Reporting	92
124	SZH, Kailali	No Reporting	30	221	DH, Rolpa	No Reporting	10
125	MZH, Kanchanpur	No Reporting	97	229	DH, Achham	On Time	100
126	DH, Doti	On Time	97	230	DH, Baitadi	No Reporting	78
127	DH, Bardiya	On Time	100	235	DH, Panchthar	No Reporting	97
128	DH, Mahottari	No Reporting	25	237	DH, Bhojpur	No Reporting	18
129	DH, Dadeldhura	No Reporting	0	238	DH, Khotang	On Time	52
130	DH, Rasuwa	No Reporting	40	240	DH, Udayapur	No Reporting	0
131	DH, Sankhuwasabha	No Reporting	85	301	Bayalpata Hosp., Achham	On Time	100
132	AMDA Hosp., Jhapa	No Reporting	92				
133	DH, Chautara	On Time	100				
134	DH, Sarlahi	Late reporting	100				
						Excellent (>80)	
						Satisfactory (50-79)	

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 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.