

Early Warning and Reporting System (EWARS)

Weekly Bulletin

(34th 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

- **Influenza A/ H1N1 Pdm09:** 846 cases of Influenza A H1N1 Pdm09 including 12 deaths have been confirmed since 1 January, 2017.
- **Kala-azar:** Five cases of Kala-azar are reported this week, two from Sukraraj Tropical and Infectious disease hospital, Teku and one each from BPKIHS, Dharan, Kanti Children Hospital, Kathmandu and District Hospital, Pyuthan. The cases are from Sindhuli, Arghakhanchi, Mugu, Sunsari and Pyuthan district respectively.
- **Malaria:** Two cases of Malaria are reported this week. One case of (*Plasmodium Falciparum*) is reported from Lumbini Zonal Hospital, Rupandehi and another case of (*Plasmodium Vivax*) is reported from District Hospital, Pyuthan. The cases are from Rupandehi and Pyuthan district respectively.
- **Scrub Typhus:** 14 cases of Scrub Typhus are reported this week, 8 from United Mission Hospital, Palpa 3 from Bheri Zonal Hospital, Banke, 2 from Sukraraj Tropical and Infectious Disease Hospital, Teku and one from District Hospital, Dhankuta.
- **SARI:** One death from SARI is reported this week from United Mission Hospital, Palpa and the deceased was from Waling Municipality of Syangja district.

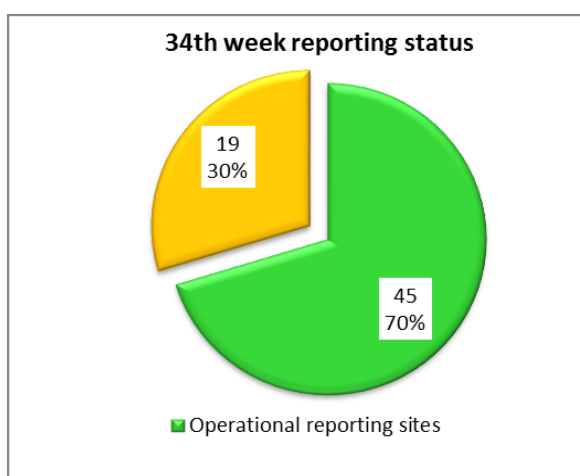
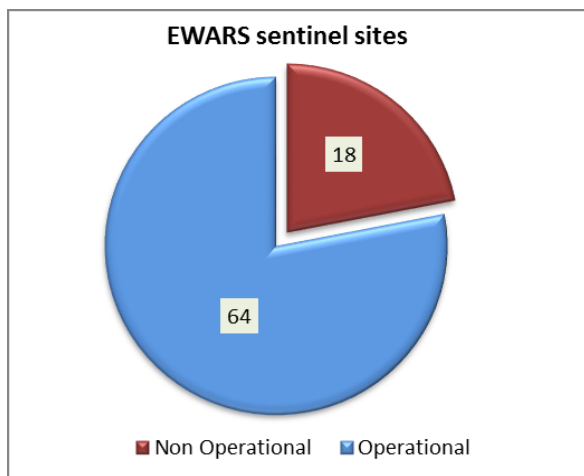
The EWARS was established in 1997 to strengthen the flow of information on vector-borne and other outbreak prone infectious diseases from the district to Epidemiology and Disease Control Division (EDCD) and Vector-Borne Disease Research and Training Center (VBDRTC), Hetauda. Rapid Response Teams (RRTs)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

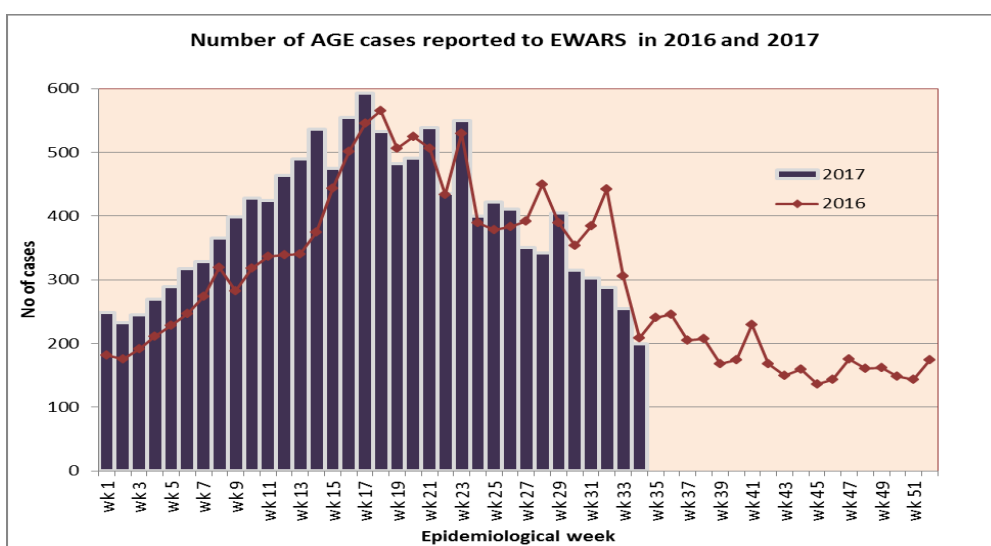
Out of 64 functional EWARS sentinel sites, report was received from 45 sentinel sites (70 percent) whereas 19 sentinel sites did not report in 34th Epidemiological week of 2017. The reporting coverage is increased as compared to the previous week.



1.1 Acute Gastro-Enteritis and Cholera

200 cases of AGE are reported in 34th epidemiological week of 2017. Among 200 cases, the majority of cases are from Dolakha (20 cases), Kapilbastu (15 cases), Bara (14 cases), Kathmandu (12 cases), Jhapa (11 cases), Kanchanpur (9 cases), Rupandehi (7 cases), Sunsari (7 cases), Doti (7 cases), Lamjung (6 cases) and Pyuthan (6 cases) district. The number of AGE cases reported in 34th week this year did not exceed the number of AGE cases reported in the same week last year (209 cases).

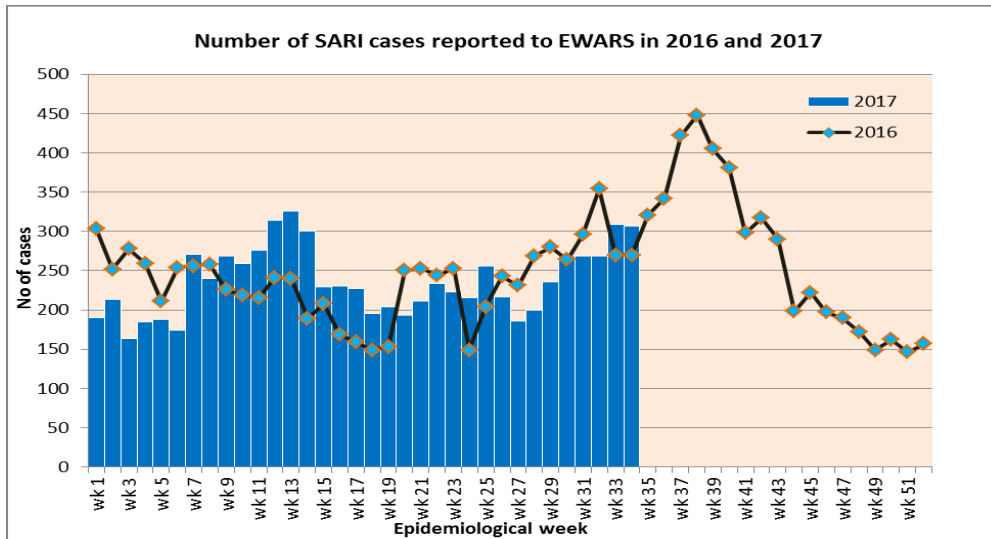
No death from AGE is reported this week. Fifteen deaths from AGE are reported so far this year. Thirteen deaths from AGE were reported in 2016.



1.2 Severe Acute Respiratory Infection (SARI)

307 cases of SARI are reported in 34th epidemiological week of 2017. The cases of SARI reported this week exceed the number reported in the same week last year (270 cases). Among 307 cases, the majority of cases are from Jhapa (51 cases), Lalitpur (29 cases), Kailali (19 cases), Syangja (16 cases), Kanchanpur (15 cases), Morang (13 cases), Panchthar (13 cases), Rupandehi (11 cases), Palpa (11 cases) and Baglung (11 cases) district.

One death from SARI is reported this week from United Mission Hospital, Palpa and the deceased was from Waling Municipality of Syangja district. Forty nine deaths from SARI are reported so far this year. Seventy deaths from SARI were reported in 2016.



1.3 Enteric Fever

134 cases of Enteric fever are reported this week, including 12 from Lamjung, 11 from Bardiya, 10 from Kaski, 10 from Tanahun, 9 from Nawalparasi, 7 from Sindhuli, 6 from Morang, 6 from Syangja and 6 from Gulmi district. One death from Enteric Fever is reported so far this year.

1.4 Malaria

Two cases of Malaria are reported this week. One case of (*Plasmodium Falciparum*) is reported from Lumbini Zonal Hospital, Rupandehi and another case of (*Plasmodium Vivax*) is reported from District Hospital, Pyuthan. The cases are from Rupandehi and Pyuthan district respectively.

Fifty-three 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. Fourteen cases of Dengue are reported so far this year.

1.6 Kala-azar

Five cases of Kala-azar are reported this week, two from Sukraraj Tropical and Infectious disease hospital, Teku and one each from BPKIHS, Dharan, Kanti Children Hospital, Kathmandu and District Hospital, Pyuthan. The cases are from Sindhuli, Arghakhanchi, Mugu, Sunsari and Pyuthan district respectively.

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

1.7 Scrub Typhus

14 cases of Scrub Typhus are reported this week, 8 from United Mission Hospital, Palpa 3 from Bheri Zonal Hospital, Banke, 2 from Sukraraj Tropical and Infectious Disease Hospital, Teku and one from District Hospital, Dhankuta. Among 14 cases, 5 are from Gulmi, 3 from Palpa, 3 from Banke, 1 from Dhading, 1 from Dhankuta and one from Sarlahi.

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	97
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	100
104	BPKIHS, Dharan	On Time	100	138	DH, Solukhumbu	On Time	53
105	DH, Dhankuta	On Time	100	139	DH, Dolpa	No Reporting	0
106	SZH, Saptari	No Reporting	40	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	No reporting	97	203	DH, Ramechhap	On Time	100
110	DH, Rautahat	No reporting	97	204	Bhaktapur Hospital	No reporting	18
111	DH, Bara	On Time	100	205	Patan Hospital, Lalitpur	On Time	100
112	NSRH, Parsa	No Reporting	94	206	DH, Gorkha	On Time	100
113	DH, Makawanpur	On Time	100	207	DH Trishuli, Nuwakot	No Reporting	0
114	NZH, Chitwan	No reporting	97	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	100
118	PCH, Nawalparasi	On Time	100	212	WRH, Kaski	On Time	100
119	PBH, Kapilbastu	On Time	100	214	DH, Gulmi	On Time	80
120	LZH, Rupandehi	On Time	100	215	DZH, Baglung	On Time	100
121	RSRH Dang	No reporting	88	218	DH, Manang	No Reporting	52
122	MWRH, Surkhet	On Time	100	219	DH, Mustang	On Time	55
123	BZH, Banke	On Time	93	220	DH, Pyuthan	On Time	100
124	SZH, Kailali	On Time	26	221	DH, Rolpa	No Reporting	12
125	MZH, Kanchanpur	On Time	100	229	DH, Achham	On Time	100
126	DH, Doti	On Time	100	230	DH, Baitadi	No Reporting	90
127	DH, Bardiya	On Time	100	235	DH, Panchthar	On Time	100
128	DH, Mahottari	No Reporting	46	237	DH, Bhojpur	No Reporting	30
129	DH, Dadeldhura	No Reporting	0	238	DH, Khotang	No Reporting	40
130	DH, Rasuwa	No Reporting	46	240	DH, Udayapur	No Reporting	0
131	DH, Sankhuwasabha	On Time	88	301	Bayalpata Hosp., Achham	On Time	100
132	AMDA Hosp., Jhapa	On Time	100				
133	DH, Chautara	On Time	100				Excellent (>80)
134	DH, Sarlahi	On Time	100				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 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.