

Early Warning and Reporting System (EWARS)
Weekly Bulletin
(32nd Epidemiological Week)
20 August 2017



Government of Nepal
Ministry of Health
Department of Health Services
Epidemiology and Disease Control Division
Kathmandu, Nepal
ewarsedcd@gmail.com

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. It also includes the summary updates of health sector response to flood and landslide in 30 affected districts.

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

Highlights

- Flood and landslide:** Till date 135 deaths have been reported, 30 people are missing and 41 have been injured as per MoHA information (As of 18 August 2017). As per Central Information Management Unit EDCD, 12024 cases of illness have been reported from district level health facilities and 12778 people have been treated in health camps. No epidemic outbreak has been reported yet. The situation report is produced daily and shares it to concerned authorities and stakeholders on a regular basis.
- As compared to the previous week data there is no difference in the cases reported from the EWARS sentinel sites situated at flood and landslide affected districts.
- Influenza A/ H1N1 Pdm09:** 701 cases of Influenza A H1N1 Pdm09 including 9 deaths have been confirmed since 1 January, 2017. EDCD has requested all the major hospitals (Public, Private and Medical Colleges) of Kathmandu valley to report daily for Influenza Like Illness (ILI) cases.
- Kala-azar:** Three cases of Kala-azar are reported this week, two from Sukraraj Tropical and Infectious Disease Hospital, Teku and one from Mid-Western Regional Hospital, Surkhet. The cases are from Surkhet, Palpa and Achham district respectively.
- Dengue:** Three cases of Dengue are reported this week from Sukraraj Tropical and Infectious Disease Hospital, Teku and the cases are from Sarlahi and Kathmandu district
- Scrub Typhus:** 6 cases of Scrub Typhus are reported this week, 3 from United Mission Hospital, Palpa, 2 from District Hospital, Dhankuta and one from Sukraraj Tropical and Infectious disease hospital, Teku.
- No death from AGE and SARI is reported this week.

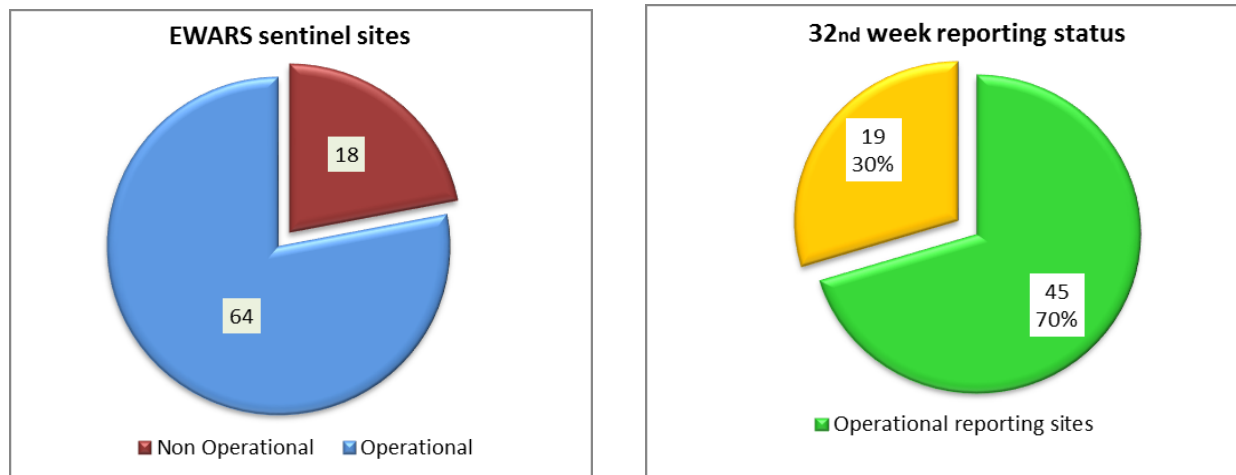
The EWARS was established in 1997 to strengthen the flow of information on vector-borne and other outbreak prone infectious diseases from the district to Epidemiology and Disease Control Division (EDCD) and Vector-Borne Disease Research and Training Center (VBDRTC), Hetauda. Rapid Response Teams (RRTs)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

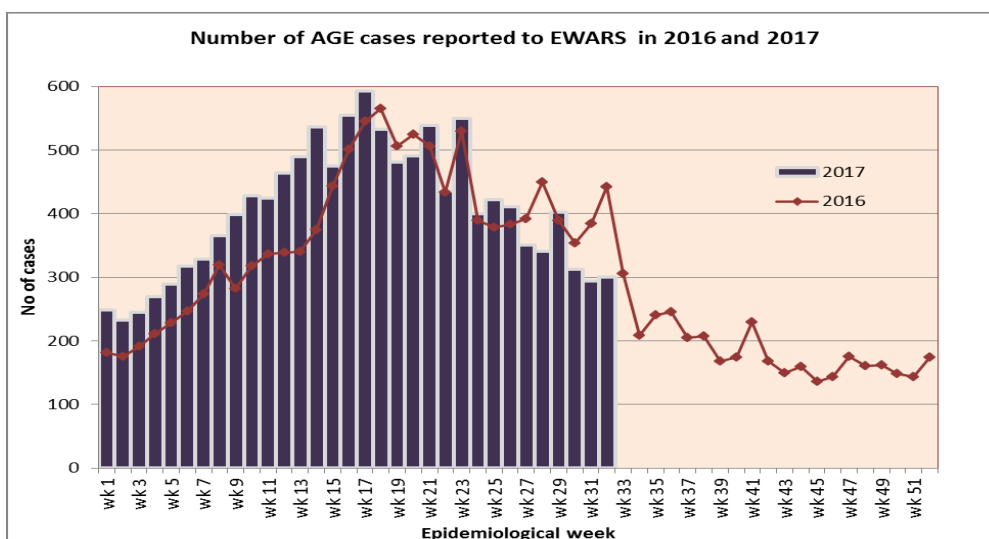
Out of 64 functional EWARS sentinel sites, report was received from 45 sentinel sites (70 percent) whereas 19 sentinel sites did not report in 32nd Epidemiological week of 2017. The reporting coverage is slightly decreased as compared to the previous week.



1.1 Acute Gastro-Enteritis and Cholera

300 cases of AGE are reported in 32nd epidemiological week of 2017. Among 300 cases, the majority of cases are from Parsa (49 cases), Bhaktapur (29 cases), Panchthar (18 cases), Achham (15 cases), Bara (14 cases), Kanchanpur (12 cases), Pyuthan (9 cases), Kathmandu (9 cases), Sankhuwasabha (9 cases), Siraha (8 cases) and Rautahat (8 cases) district. The number of AGE cases reported in 32nd week this year did not exceed the number of AGE cases reported in the same week last year (442 cases).

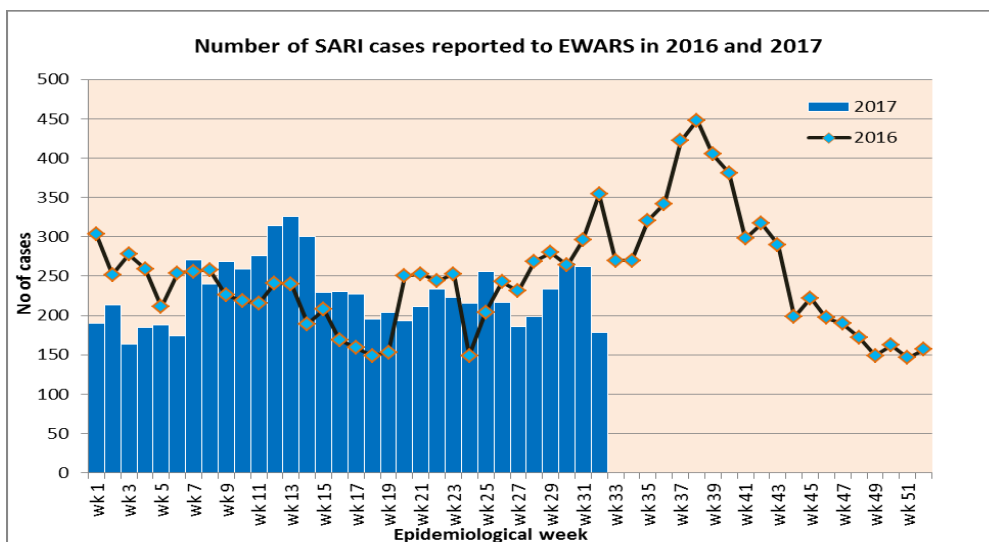
No death from AGE is reported this week. Fourteen deaths from AGE are reported so far this year. Thirteen deaths from AGE were reported in 2016.



1.2 Severe Acute Respiratory Infection (SARI)

178 cases of SARI are reported in 32nd epidemiological week of 2017. The cases of SARI reported this week did not exceed the number reported in the same week last year (354 cases). Among 178 cases, the majority of cases are from Syangja (16 cases), Panchthar (16 cases), Jhapa (16 cases), Morang (13 cases), Dhankuta (12 cases), Parsa (10 cases), Palpa (9 cases), Kathmandu (9 cases) and Illam (8 cases) district.

No death from SARI is reported this week. Forty eight deaths from SARI are reported so far this year. Seventy deaths from SARI were reported in 2016.



1.3 Enteric Fever

127 cases of Enteric fever are reported this week, including 12 from Lamjung, 11 from Palpa, 10 from Parsa, 9 from Kaski, 9 from Tanahun, 8 from Kathmandu, 8 from Sindhuli and 6 from Gulmi district. One death from Enteric Fever is reported so far this year.

1.4 Malaria

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

1.5 Dengue

Three cases of Dengue are reported this week from Sukraraj Tropical and Infectious Disease Hospital, Teku and the cases are from Sarlahi and Kathmandu district. Fourteen cases of Dengue are reported so far this year.

1.6 Kala-azar

Three cases of Kala-azar are reported this week, two from Sukraraj Tropical and Infectious Disease Hospital, Teku and one from Mid-Western Regional Hospital, Surkhet. The cases are from Surkhet, Palpa and Achham district respectively.

One hundred forty nine 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

6 cases of Scrub Typhus are reported this week, 3 from United Mission Hospital, Palpa, 2 from District Hospital, Dhankuta and one from Sukraraj Tropical and Infectious disease hospital, Teku. Among 6 cases, two cases are from Dhankuta and one each from Gulmi, Syangja, Dhading and Palpa.

Section 2: Flood and Landslide – 2017

Heavy rainfall that started from 27 Shrawan 2074, Friday, has resulted in flood and landslide affecting 30 districts across the country (Figure 1.1). Ministry of Health has activated the Central Health Emergency Operation Center (HEOC) for effective health sector response to the flood and landslide. A Central Coordination Committee under the chairpersonship of Secretary, Ministry of Health and an Operation Committee under the chairpersonship of Deputy Director General, Department of Health Services has been formed. Response coordination teams have been mobilized from the center to the affected districts. All health workers and public health managers in the health facilities, district health offices, particularly rapid response teams (RRT) in the flood affected districts are closely monitoring the possible epidemic outbreaks.

For Information management, Disaster Management Section under Epidemiology and Disease Control Division has established a central information management unit on 14 August 2017. The unit comprises of members from EDCD, WHO and Nepal Health Sector Support Programme (NHSSP). The situation report is produced daily and shares it to concerned authorities and stakeholders on a regular basis.

Till date 135 deaths have been reported, 30 people are missing and 41 have been injured as per MoHA information (As of 18 August 2017). 12024 cases of illness have been reported from district level health facilities. 12778 people have been treated in health camps. 18,496 families have been affected. 12,766 populations have been displaced and living in nearby shelters, mostly in local schools.

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	98
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	No Reporting	96	138	DH, Solukhumbu	No Reporting	45
105	DH, Dhankuta	On Time	100	139	DH, Dolpa	No Reporting	0
106	SZH, Saptari	No Reporting	45	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	On Time	100	204	Bhaktapur Hospital	On Time	10
111	DH, Bara	On Time	100	205	Patan Hospital, Lalitpur	On Time	100
112	NSRH, Parsa	On Time	100	206	DH, Gorkha	On Time	100
113	DH, Makawanpur	On Time	100	207	DH Trishuli, Nuwakot	No Reporting	0
114	NZH, Chitwan	No Reporting	96	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	92

118	PCH, Nawalparasi	On Time	100	212	WRH, Kaski	On Time	100
119	PBH, Kapilbastu	On Time	100	214	DH, Gulmi	On Time	70
120	LZH, Rupandehi	No reporting	96	215	DZH, Baglung	On Time	100
121	RSRH Dang	No reporting	93	218	DH, Manang	On Time	56
122	MWRH, Surkhet	On Time	100	219	DH, Mustang	On Time	53
123	BZH, Banke	No Reporting	90	220	DH, Pyuthan	On Time	100
124	SZH, Kailali	No Reporting	10	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	96
127	DH, Bardiya	No Reporting	93	235	DH, Panchthar	On Time	100
128	DH, Mahottari	No Reporting	50	237	DH, Bhojpur	No Reporting	35
129	DH, Dadeldhura	No Reporting	0	238	DH, Khotang	On Time	35
130	DH, Rasuwa	No Reporting	55	240	DH, Udayapur	No Reporting	0
131	DH, Sankhuwasabha	On Time	86	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.