Early Warning and Reporting System (EWARS)

Weekly Bulletin

(31st 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: 695 cases of Influenza A H1N1 Pdm09 including 4 deaths have been confirmed since 1 January, 2017. EDCD has requested all the major hospitals (Public, Pivate and Medical Colleges) of Kathmandu valley to report daily for Influenza Like Illness (ILI) cases.
- Malaria: Two cases of Malaria (Plasmodium vivax) are reported this week, one each from Mahakali Zonal Hospital, Kanchanpur and Bayalpata Hospital, Achham. The cases are from Kanchanpur and Achham district respectively.
- Kala-azar: Four cases of Kala-azar are reported this week, two from BPKIHS, Dharan and one each from Koshi Zonal Hospital, Morang and Kanti Children Hospital, Kathmandu. The cases are from Morang, Siraha, Bhojpur and Dolpa district.
- **Dengue:** One case of Dengue is reported this week from Narayani Sub regional Hospital, Parsa and the case is from Bara district.
- SARI: One death from SARI is reported this week from Kanti Children Hospital, Kathmandu and the deceased was from Jhapa district.
- **Scrub Typhus:** 11 cases of Scrub Typhus are reported this week, 10 from United Mission Hospital, Palpa and one from Sukraraj Tropical and Infectious disease Hospital, Teku

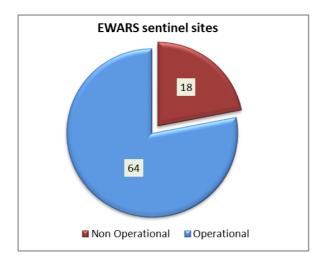
The EWARS was established in 1997 to strengthen the flow of information on vector-borne and other outbreak prone infectious diseases from the district to Epidemiology and Disease Control Division (EDCD) and Vector-Borne Disease Research and Training Center (VBDRTC), Hetauda. Rapid Response Teams (RRTs)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

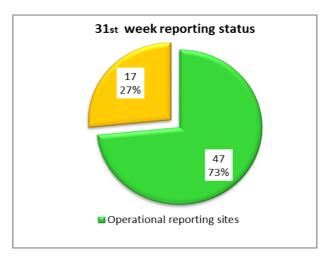
This information system is hospital-based and is currently operational in 64 hospitals (out of 82 sites) throughout Nepal (Figure 1). So far, the EWARS mainly focuses on the **weekly reporting** of number of cases and deaths (including "zero" reports) of six priority diseases/syndromes—Malaria, Kala-azar, 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 47 sentinel sites (73 percent) whereas 17 sentinel sites did not report in 31st Epidemiological week of 2017. The reporting coverage is slightly increased as compared to the previous week.

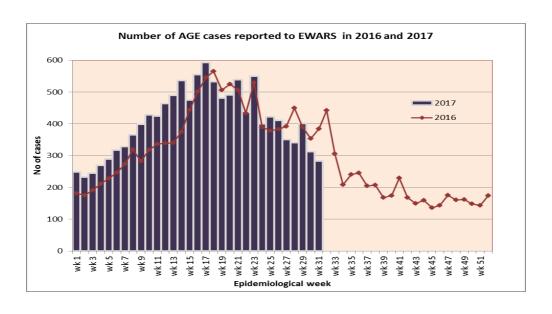




1.1 Acute Gastro-Enteritis and Cholera

283 cases of AGE are reported in 31st epidemiological week of 2017. Among 283 cases, the majority of cases are from Parsa (33 cases), Dhanusha (18 cases), Dolakha (15 cases), Bhaktapur (14 cases), Bara (14 cases), Kanchanpur (11 cases), Panchthar (10 cases), Gorkha (10 cases), Kaski (10 cases) and Lamjung (10 cases) district. The number of AGE cases reported in 31st week this year did not exceed the number of AGE cases reported in the same week last year (384 cases).

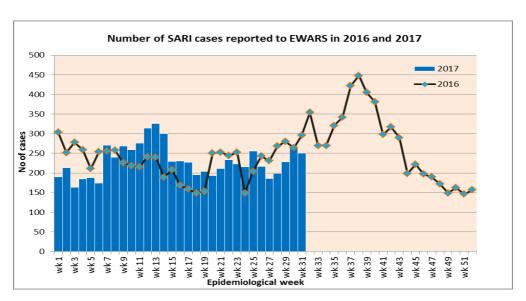
No death from AGE is reported this week. Fourteen deaths from AGE are reported so far this year. Thirteen deaths from AGE were reported in 2016.



1.2 Severe Acute Respiratory Infection (SARI)

251 cases of SARI are reported in 31st epidemiological week of 2017. The cases of SARI reported this week did not exceed the number reported in the same week last year (296 cases). Among 251 cases, the majority of cases are from Jhapa (36 cases), Lalitpur (28 cases), Panchthar (17 cases), Rupandehi (17 cases), Morang (16 cases), Parsa (12 cases), Syangja (12 cases), Kathmandu (9 cases) and Dhankuta (7 cases) district.

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



1.3 Enteric Fever

123 cases of Enteric fever are reported this week, including 15 from Tanahun, 13 from Kaski, 11 from Bara, 11 from Parsa, 8 from Dolakha, 7 from Syangja and 7 from Jhapa district. One death from Enteric Fever is reported so far this year.

1.4 Malaria

Two cases of Malaria (*Plasmodium vivax*) are reported this week, one each from Mahakali Zonal Hospital, Kanchanpur and Bayalpata Hospital, Achham. The cases are from Kanchanpur and Achham district respectively.

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

One case of Dengue is reported this week from Narayani Sub regional Hospital, Parsa and the case is from Bara district. Eleven cases of Dengue are reported so far this year.

1.6 Kala-azar

Four cases of Kala-azar are reported this week, two from BPKIHS, Dharan and one each from Koshi Zonal Hospital, Morang and Kanti Children Hospital, Kathmandu. The cases are from Morang, Siraha, Bhojpur and Dolpa district.

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.

1.7 Scrub Typhus

11 cases of Scrub Typhus are reported this week, 10 from United Mission Hospital, Palpa and one from Sukraraj Tropical and Infectious disease Hospital, Teku. Among 11 cases, 4 cases are from Palpa, 3 from Syangja, two from Gulmi and one each from Nuwakot and Kapilbastu district.

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	On Time	100	138	DH, Solukhumbu	On Time	50	
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	No Reporting	96	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	5	
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	On Time	100	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	No Reporting	60	
120	LZH, Rupandehi	On Time	100	215	DZH, Baglung	On Time	100	
121	RSRH Dang	No reporting	96	218	DH, Manang	No reporting	50	
122	MWRH, Surkhet	On Time	100	219	DH, Mustang	On Time	50	
123	BZH, Banke	No Reporting	93	220	DH, Pyuthan	On Time	100	
124	SZH, Kailali	No Reporting	12	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	On Time	100	
127	DH, Bardiya	No Reporting	96	235	DH, Panchthar	On Time	100	
128	DH, Mahottari	No Reporting	58	237	DH, Bhojpur	No Reporting	40	
129	DH, Dadeldhura	No Reporting	0	238	DH, Khotang	On Time	40	
130	DH, Rasuwa	No Reporting	58	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.