

Early Warning and Reporting System (EWARS)

Weekly Bulletin

(20th Epidemiological Week)

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This bulletin includes the updates from the Early Warning Reporting System (EWARS). It includes data since January 2015 till date, including comparison of same period during last year.

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

Highlights

- Three deaths from SARI are reported this week, two from United Mission Hospital, Palpa and one from Lumbini Zonal Hospital, Rupandehi. The cases are from Syangja, Rupandehi and Kapilvastu district respectively.
- Two cases of Malaria (*plasmodium vivax*) are reported this week, one each from BPKIHS, Dharan and District Hospital, Dhading. The cases are from Dhankuta and Dhading district respectively.
- Four cases of Kala-azar are reported this week, two from BPKIHS, Dharan and one each from District Hospital, Siraha and District Hospital, Sarlahi.
- Last year, the Cholera outbreak occurred on August, so it is important to remain alert for new outbreak.

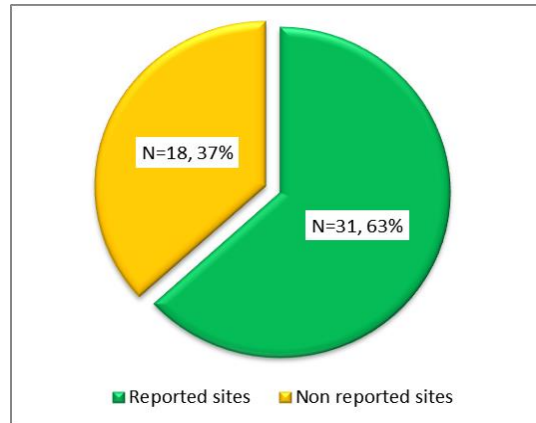
The EWARS was established in 1997 to strengthen the flow of information on vector-borne and other outbreak prone infectious diseases from the district to Epidemiology and Disease Control Division (EDCD) and Vector-Borne Disease Research and Training Center (VBDRTC), Hetauda. Rapid Response Teams (RRTs)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

This information system is hospital-based and is currently operational in 49 hospitals (out of 81 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

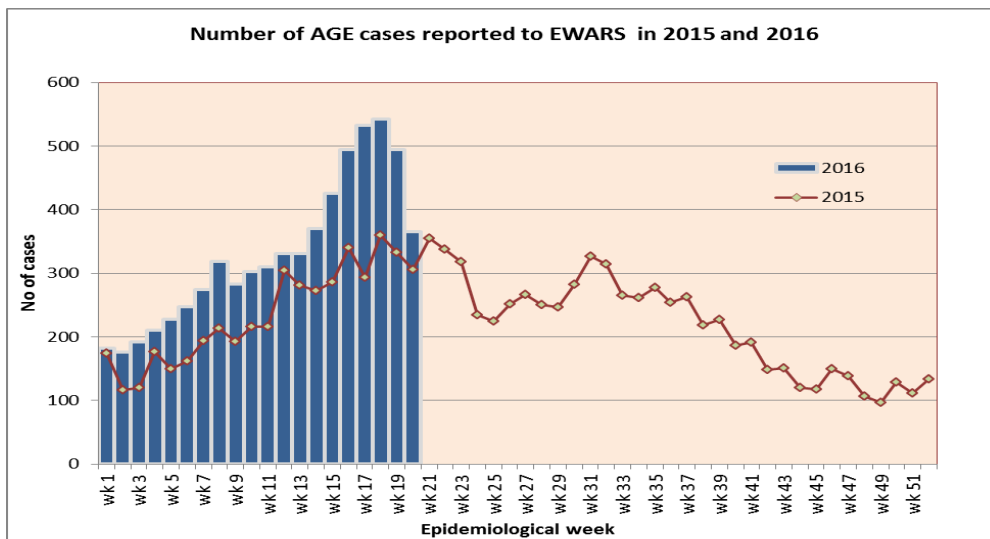
Out of 49 functional EWARS sentinel sites, report was received from 31 sentinel sites (63 percent) whereas 18 sentinel sites did not report in 20th Epidemiological week.



1.1 Acute Gastro-Enteritis and Cholera

365 cases of AGE are reported in 20th epidemiological week of 2016. Among 365 cases, the majority of cases are from Kanchanpur (36 cases), Dolakha (35 cases), Rupandehi (28 cases), Nawalparasi (24 cases), Lamjung (22 cases), Dhading (21 cases) and Kapilvastu (18 cases) district. The number of AGE cases reported in 20th week this year slightly exceeds the number of AGE cases reported in the same week last year (306 cases). No death from AGE is reported this week. Five deaths from AGE are reported so far this year.

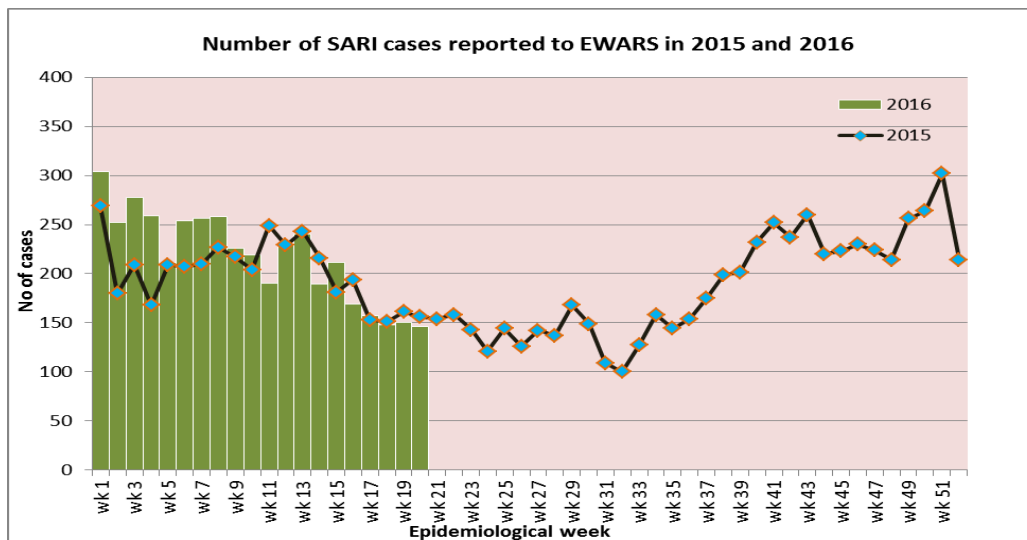
Cholera: No cholera cases are reported through the EWARS system this year. Last year, the Cholera outbreak occurred on August, so it is important to remain alert for new outbreak.



1.2 Severe Acute Respiratory Infection (SARI)

146 cases of SARI are reported in 20th epidemiological week of 2016. The cases of SARI reported this week did not exceed the number reported in the same week last year (156 cases). Among 146 cases, the majority of cases are from Jhapa (24 cases), Morang (18 cases), Rupandehi (12 cases), Lalitpur (11 cases), Dhading (9 cases) and Kanchanpur (7 cases) district.

Three deaths from SARI are reported this week, two from United Mission Hospital, Palpa and one from Lumbini Zonal Hospital, Rupandehi. The cases are from Syangja, Rupandehi and Kapilvastu district respectively. Thirty two deaths from SARI are reported so far this year.



1.3 Enteric Fever

54 cases of enteric fever are reported this week including 17 from Nawalparasi, 6 from Lamjung, and 5 each from Kavre and Saptari and 4 from Dhading district. The number of cases of enteric fever was peaked in week 37 in 2015 (71 cases).

1.4 Malaria

Two cases of Malaria (*plasmodium vivax*) are reported this week, one each from BPKIHS, Dharan and District Hospital, Dhading. The cases are from Dhankuta and Dhading district respectively. Only eight cases of malaria are reported so far this year. Ninety cases of Malaria were reported through EWARS in 2015.

1.5 Dengue

No case of Dengue is reported this week. Only one case of dengue is reported so far this year. Fifty-eight cases of Dengue were reported through EWARS in 2015.

1.6 Kala-azar

Four cases of Kala-azar are reported this week, two from BPKIHS, Dharan and one each from District Hospital, Siraha and District Hospital, Sarlahi. The cases are from Siraha, Sunsari and Sarlahi districts. Fourty five confirmed cases of Kala-azar are reported so far this year. 135 cases were reported through EWARS in 2015.

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.

Timeliness & completeness of reporting from sentinel sites:

| Site Code | Sentinel Sites | Timeliness (%) | Completeness (%) | Site code | Sentinel Sites | Timeliness (%) | Completeness (%) |
|-----------|---------------------|----------------|------------------|-----------|--------------------------|----------------|------------------|
| 101 | Mechi ZH, Jhapa | 92 | 100 | 127 | DH, Bardiya | 84 | 95 |
| 102 | Koshi ZH, Morang | 98 | 100 | 128 | DH, Mahottari | 90 | 100 |
| 103 | DH, Sunsari | 100 | 100 | 129 | DH, Dadeldhura | 0 | 0 |
| 104 | BPKIHS, Dharan | 88 | 100 | 130 | DH, Rasuwa | 82 | 100 |
| 105 | DH, Dhankuta | 96 | 95 | 131 | DH, Sankhuwasabha | 0 | 0 |
| 106 | SZH, Saptari | 98 | 100 | 132 | AMDA Hosp., Jhapa | 100 | 100 |
| 107 | RKUP, Lahan, Siraha | 92 | 100 | 133 | DH, Chautara | 100 | 100 |
| 108 | DH, Siraha | 100 | 100 | 134 | DH, Sarlahi | 72 | 100 |
| 109 | JZH, Dhanusha | 0 | 0 | 135 | DH, Sindhuli | 76 | 60 |
| 110 | DH, Rautahat | 82 | 100 | 136 | DH, Illam | 94 | 100 |
| 111 | DH, Bara | 0 | 0 | 137 | Dhulikhel H., Kavre | 98 | 100 |
| 112 | NSRH, Parsa | 78 | 95 | 138 | DH, Solukhumbu | 2 | 5 |
| 113 | DH, Makawanpur | 86 | 100 | 139 | DH, Dolpa | 0 | 0 |
| 114 | NZH, Chitwan | 74 | 75 | 140 | DH, Humla | 0 | 0 |
| 115 | Kanti CH, Kathmandu | 76 | 95 | 201 | Lamjung Comm DH, Lamjung | 90 | 100 |
| 116 | STH, Kathmandu | 98 | 100 | 202 | DH, Dhading | 100 | 100 |
| 117 | UMH, Palpa | 96 | 100 | 203 | DH, Ramechhap | 98 | 100 |
| 118 | PCH, Nawalparasi | 94 | 100 | 204 | Bhaktapur Hospital | 0 | 0 |
| 119 | PBH, Kapilvastu | 98 | 100 | 205 | Patan Hospital, Lalitpur | 14 | 60 |
| 120 | LZH, Rupandehi | 100 | 100 | 206 | DH, Gorkha | 0 | 0 |
| 121 | RSRH Dang | 6 | 95 | 207 | DH Trishuli, Nuwakot | 4 | 10 |
| 122 | MWRH, Surkhet | 96 | 100 | 208 | Charikot PHCC, Dholakha | 8 | 80 |
| 123 | BZH, Banke | 0 | 0 | 209 | Jiri H, Dolakha | 74 | 55 |
| 124 | SZH, Kailali | 74 | 40 | 211 | DH, Tanahun | 88 | 80 |
| 125 | MZH, Kanchanpur | 98 | 100 | 215 | DZH, Baglung | 10 | 25 |
| 126 | DH, Doti | 90 | 100 | | | | |

| | |
|---------------------------------------|----------------------|
| ■ | Excellent (>80) |
| ■ | Satisfactory (50-79) |
| ■ | Bad (<50) |

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.