Epidemiological Highlights

Week 32, 2019

World Health Organization
**Highlights:**

- Dengue Risk communication messages endorsed by the Civil Surgeon Cox’s Bazar have been disseminated to partners and are being communicated through Community Health Workers.

- Acute respiratory infection (ARI), diarrheal diseases & unexplained fever are the diseases with highest proportional morbidity in last week. These syndromic conditions remained relatively the same within this week.

- No notable changes in trends of other diseases and syndromes.
EWARS Reporting Updates

- Total 149/187 (80%) health facilities registered in EWARS
- Only 50/149 weekly reports received last week
- Completeness and Timeliness for this week is 34% due to the holidays.
- Total 12 alerts were triggered this week which is less than previous week (26 reported last week).
- All alerts were reviewed and verified by EWARS team.
Dengue Situation Update

- A alert of 1 confirmed dengue case from camp 2W was reported in EWARS. The dengue situation in the camps remain unchanged.

- Dengue Risk communication messages endorsed by the Civil Surgeon Cox’s Bazar have been disseminated to partners and are being communicated through Community Health Workers.

- WHO will organizing a clinical case management training for for health facilities, which is slated for first week of September.

- WHO is supporting partners with Dengue Rapid Diagnostic Tests, IEC materials and technical guidance on dengue case management.
Diphtheria

- No new cases were reported in week 32 which may be due to reporting delay. 6 suspected cases were reported in week 31.

- A total of 362 diphtheria cases were reported in 2019, of which 8 were confirmed, 26 probable and 328 were suspected. Last confirmed case was reported in Week 29 (15 Jul 2019)

- From host community, a total 217 cases were reported so far. 30 were confirmed, 66 were probable and 121 were suspected.

- Total 45 deaths were reported. No death was reported from host community.
Measles

- 3 suspected measles cases were reported in EWARS via weekly reporting form and 7 cases were reported via measles case report form in week 32

- A total of 332 cases were reported in 2019 and 204 reported with case report form.

- WHO is supporting Ministry of Health (MoH) in routine measles surveillance in FDMN population
Diarrhoeal Disease

- A total 1,576 diarrhoeal cases reported in EWARS.
- Among which 940 cases reported with acute watery diarrhoea (AWD), 209 cases reported with bloody diarrhoea and 427 cases reported with other diarrhoea.
- Trend in diarrhoeal diseases remained relatively unchanged.
- Diarrhoeal diseases are the second highest contributor of proportional morbidity after acute respiratory infection (ARI).
Community-based surveillance

- A total of 228 deaths have been reported thus far over these 5 months since implementation. This only covers 7 partners thus far.

- 9 deaths were reported in week 32 (of which 2 are female and the rest are male). No maternal deaths were reported in the last week.

- All mortalities will be reported into EWARS moving forward with the “Community-based mortality surveillance” form.
Community-based surveillance

- Health facility: 44 (19.3%)
- Home: 165 (72.37%)
- Community/Public place: 19 (8.33%)

- Maternal death: 7
- Infectious disease: 8
- Still birth (born dead): 4
- Injury: 11
- Neonatal (<28 days old): 12
- Other: 74

Total: 228

Gender:
- Male: 127 (55.7%)
- Female: 101 (44.3%)

Week 32, 2019

Epidemiological Highlights

World Health Organization

EWARS
Community-based surveillance

- **GK-UNHCR**: 37
  - Community/Public Place: 19 (8.33%)
  - Home: 18 (72.37%)
- **PHD**: 24
  - Community/Public Place: 23 (95.83%)
  - Home: 1 (4.17%)
- **FH-MTI**: 25
  - Community/Public Place: 22 (88%)
  - Home: 3 (12%)
- **CPI**: 20
  - Community/Public Place: 16 (80%)
  - Home: 4 (20%)
- **RHU-RRRC**: 15
  - Community/Public Place: 8 (53.33%)
  - Home: 7 (46.67%)
- **RI**: 11
  - Community/Public Place: 7 (63.64%)
  - Home: 4 (36.36%)
- **WC-Medair**: 4
  - Community/Public Place: 3 (75%)
  - Home: 1 (25%)

Total: 228
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Sources of data

1. Weekly EWARS Reporting Form
2. Mortality Case Report Form
3. Event-based Surveillance Form
## Highlights W32 2019

### Table 1 | Coverage

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### Table 4 | Performance by camp (W32 2019)

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### Map 2 | Completeness by camp

1. Camp 1W
2. Camp 1E
3. Camp 8W
4. Camp 8E
5. Camp 7
6. Camp 6
7. Camp 5
8. Camp 4 Ext
9. Camp 4
10. Camp 3
11. Camp 2W
12. Camp 2E
13. Kutupalong RC
Early Warning | Ukhia (Southern Group)

Table 5 | Performance by camp (W32 2019)

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Map 3 | Completeness by camp

1. Camp 13
2. Camp 14
3. Camp 18
4. Camp 16
5. Camp 9
6. Camp 20 Ext
7. Camp 20
8. Camp 19
9. Camp 17
10. Camp 15
11. Camp 12
12. Camp 11
13. Camp 10

Completeness

0 20% 50% 75% 100%
## Early Warning | Teknaf

### Table 6 | Performance by camp (W32 2019)

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### Map 4 | Completeness by camp

- Camp 22 Unchiprang
- Camp 23 Shamlapur
- Camp 24 Leda
- Camp 25 Ali Khali
- Camp 26 Nayapara
- Camp 27 Jadimura
- Camp 21 Chakmarkul
- Nayapara RC
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### Table 8 | Performance by camp

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### Map 5 | Number of alerts by camp

1. Camp 1W
2. Camp 1E
3. Camp 8W
4. Camp 8E
5. Camp 7
6. Camp 6
7. Camp 5
8. Camp 4 Ext
9. Camp 4
10. Camp 3
11. Camp 2W
12. Camp 2E
13. Kutupalong RC
### Table 9 | Performance by camp

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### Map 6 | Number of alerts by camp

- Camp 13
- Camp 14
- Camp 18
- Camp 16
- Camp 9
- Camp 20 Ext
- Camp 20
- Camp 19
- Camp 17
- Camp 15
- Camp 12
- Camp 11
- Camp 10
### Table 10 | Performance by camp

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<td>Camp 26 Nayapara</td>
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<td>Camp 27 Jadimura</td>
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### Map 7 | Number of alerts by camp

1. Camp 22 Unchiprang
2. Camp 23 Shamlapur
3. Nayapara RC
4. Camp 21 Chakmarkul
5. Camp 27 Jadimura
6. Camp 26 Nayapara
7. Camp 25 Ali Khali
8. Camp 24 Leda
## Event-based surveillance

### Indicator-based surveillance

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### Event-based surveillance

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## Risk assessment

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<th>Cumulative (2019)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>Low risk</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1</td>
<td>Moderate risk</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>High risk</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td></td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>Very high risk</td>
</tr>
</tbody>
</table>
For more help and support, please contact:

Dr. Md. Alamgir  
Medical Officer  
Civil Surgeon Office  
Ministry of Health and Family Welfare  
Cox's Bazar, Bangladesh  
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Surveillance and Outbreak Response Officer  
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Email: mazharm@who.int

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Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W32 2019
**Proportional morbidity**

**Figure 1 | Proportional morbidity (W32 2019)**

<table>
<thead>
<tr>
<th>Disease</th>
<th>W32 2019</th>
<th>2019</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td># cases</td>
<td>% morbidity</td>
</tr>
<tr>
<td>AWD</td>
<td>940</td>
<td>3.0%</td>
</tr>
<tr>
<td>Bloody diarr.</td>
<td>209</td>
<td>0.7%</td>
</tr>
<tr>
<td>Other diarr.</td>
<td>427</td>
<td>1.4%</td>
</tr>
<tr>
<td>Susp. Varicella</td>
<td>1</td>
<td>0.0%</td>
</tr>
<tr>
<td>ARI</td>
<td>5,164</td>
<td>16.7%</td>
</tr>
<tr>
<td>Measles/Rubella</td>
<td>3</td>
<td>0.0%</td>
</tr>
<tr>
<td>AFP</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Susp. menin.</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>AJS</td>
<td>11</td>
<td>0.0%</td>
</tr>
<tr>
<td>Susp. HF</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Neo. tetanus</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Adult tetanus</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Malaria (conf.)</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Malaria (sus.)</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Dengue (conf.)</td>
<td>1</td>
<td>0.0%</td>
</tr>
<tr>
<td>Dengue (sus.)</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Unexpl. fever</td>
<td>633</td>
<td>2.0%</td>
</tr>
<tr>
<td>Sev. Malnut.</td>
<td>3</td>
<td>0.0%</td>
</tr>
<tr>
<td>Inj./Wounds</td>
<td>700</td>
<td>2.3%</td>
</tr>
<tr>
<td>Other</td>
<td>22,816</td>
<td>73.8%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>30,294</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>
Figure 2 | Trend in proportional morbidity for key diseases (W32)

<table>
<thead>
<tr>
<th>Week</th>
<th>Other consultations</th>
<th>Acute Respiratory Infection (ARI)</th>
<th>Unexplained fever</th>
<th>Acute Jaundice Syndrome (AJS)</th>
<th>Acute Watery Diarrhoea (AWD)</th>
<th>Other diarrhoea</th>
<th>Vector-borne disease*</th>
</tr>
</thead>
<tbody>
<tr>
<td>W01</td>
<td></td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>W02</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>W03</td>
<td></td>
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<td></td>
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<tr>
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<tr>
<td>W05</td>
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<tr>
<td>W31</td>
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<td></td>
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</tr>
<tr>
<td>W32</td>
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<td></td>
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</tr>
</tbody>
</table>

* Combines malaria and dengue cases (suspected and confirmed)
Figure 3 | Trend in number of cases over time (W38 2017 - W32 2019)

Acute Respiratory Infection | Trend
Acute Respiratory Infection | Maps and Alert Management

Map 1 | Map of cases by camp (W32 2019)

a. Ukhia | Number of cases
b. Ukhia | Number of alerts
c. Teknaf | Number of cases
d. Teknaf | Number of alerts

Alert management (W32 2019)

0 Alerts
0% Verified
0 Low Risk
0 Moderate Risk
0 High Risk
0 Very High Risk

Alert threshold
Twice the average number of cases over the past 3 weeks. Source: IEDCR

Map legend

Number of cases

Number of alerts

Figure | % sex

Figure | % age

Male
Female

World Health Organization
UNICEF
UNHCR
**Figure 4** | Trend in number of suspected cases over time (W38 2017 - W32 2019)
Measles | Maps and Alert Management

Map 2 | Map of cases by camp (W32 2019)

[a. Ukhia | Number of cases] [b. Ukhia | Number of alerts] [c. Teknaf | Number of cases] [d. Teknaf | Number of alerts]

Alert management (W32 2019)

<table>
<thead>
<tr>
<th>Alerts</th>
<th>Verified</th>
<th>Low Risk</th>
<th>Moderate Risk</th>
<th>High Risk</th>
<th>Very High Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>100%</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Alert threshold

1 case. Source: IEDCR

Map legend

Number of cases

0 1 10 20 50

Number of alerts

0 1 10

Figure | % sex

Figure | % age

W32 2019
Acute Jaundice Syndrome | Trend

Figure 5 | Trend in number of cases over time (W38 2017 - W32 2019)
Acute Jaundice Syndrome | Maps and Alert Management

Map 3 | Map of cases by camp (W37 2017 - W32 2019)

a. Ukhia | Number of cases

b. Ukhia | Number of alerts

c. Teknaf | Number of cases

d. Teknaf | Number of alerts

Map legend

Number of cases

<table>
<thead>
<tr>
<th>Number of cases</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
</tr>
</tbody>
</table>

Number of alerts

<table>
<thead>
<tr>
<th>Number of alerts</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
</tr>
</tbody>
</table>

Alert threshold

A cluster of 3 or more cases seen in a health facility. Source: IEDCR

Alert management (W32 2019)

<table>
<thead>
<tr>
<th>Alerts</th>
<th>Verified</th>
<th>Low Risk</th>
<th>Moderate Risk</th>
<th>High Risk</th>
<th>Very High Risk</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>100%</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

Figure | % sex

Figure | % age
Acute Watery Diarrhoea | Trends

Figure 6 | Trend in number of cases over time (W38 2017 - W32 2019)
Figure 7 | Trend in number of cases over time (W38 2017 - W32 2019)
Dengue | Maps and Alert Management

Map 4 | Map of cases by camp (W37 2017 - W32 2019)

<table>
<thead>
<tr>
<th>Location</th>
<th>Number of cases</th>
<th>Number of alerts</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Ukhia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b. Ukhia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c. Teknaf</td>
<td></td>
<td></td>
</tr>
<tr>
<td>d. Teknaf</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Alert management (W32 2019)

- **1** Alerts
- **100%** Verified
- **0** Low Risk
- **0** Moderate Risk
- **0** High Risk
- **0** Very High Risk

Alert threshold: Twice the average number of cases over the past 3 weeks. Source: IEDCR

Map legend

- Number of cases
  - 0
  - 1
  - 100
  - 200
  - 500
- Number of alerts
  - 0
  - 1
  - 10

Figure | % sex

- Male
- Female

Figure | % age

- < 5
- >= 5

Source: IEDCR
Figure 7 | Trend in number of cases over time (W38 2017 - W32 2019)
Varicella (Susp.) | Maps

Map 4 | Map of cases by camp (W37 2017 - W32 2019)

a. Ukhia | Number of cases

<table>
<thead>
<tr>
<th>Varicella (Susp.)</th>
<th>Maps</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Ukhia</td>
<td>Number of cases</td>
</tr>
</tbody>
</table>

Map legend

Number of cases

| 0 | 1 | 100 | 200 | 500 |

Figure | % sex

Male | Female

Figure | % age

>= 5 | < 5

W32 2019
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