## Highlights:

COVID-19 update among Host Population and FDMN/Rohingya Refugee* in Cox’s Bazar

<table>
<thead>
<tr>
<th>Number of test conducted (in last 24 hours)*:</th>
<th>19,819 (180)</th>
<th>FDMN/Rohingya Refugee</th>
<th>Host Population</th>
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<tbody>
<tr>
<td>Number of confirmed case (in last 24 hours)**:</td>
<td>3,188 (20)</td>
<td></td>
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<tr>
<td>Number of test conducted (total)</td>
<td>1,288</td>
<td>18,531^</td>
<td></td>
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<tr>
<td>Number of test conducted (in last 24 hours)</td>
<td>26</td>
<td>154</td>
<td></td>
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<tr>
<td>Number of confirmed case (total)</td>
<td>62</td>
<td>3,126</td>
<td></td>
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<tr>
<td>Number of confirmed case (in last 24 hours)</td>
<td>0</td>
<td>20</td>
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</table>

*The Government of Bangladesh refers to Rohingya as “Forcibly Displaced Myanmar Nationals”. The UN system refers to this population as Rohingya refugees, in line with the applicable international framework. In this document both terms are used, as appropriate, to refer to the same population.
Epidemiological Highlights

Week 28, 2020

Highlights:

Epi Curve of COVID-19 positive cases among FDMN/Rohingya Refugees (n=62)

- Male
- Female

World Health Organization

EWARS
Epidemiological Highlights

Week 28, 2020

**COVID-19 Cases in Rohingya Camps (As of 19 July 2020)**

- Number of Cases:
  - 0
  - 1
  - 2 - 3
  - 4 - 7
  - 8 - 10

- Number of deaths:
  - 1
  - 2

**COVID-19 cases (%) (n=62)**

- >60 yrs
- 51-60 yrs
- 41-50 yrs
- 31-40 yrs
- 21-30 yrs
- 11-20 yrs
- 0-10 yrs

- Female: 25%
- Male: 50%

**COVID-19 deaths (%) (n=6)**

- >60 yrs
- 51-60 yrs
- 41-50 yrs
- 31-40 yrs
- 21-30 yrs
- 11-20 yrs
- 0-10 yrs

- Female: 50%
- Male: 25%
COVID-19 Positive Cases in Cox's Bazar (n=3,126)

- Male
- Female

EW1: 0
EW2: 0
EW3: 3
EW4: 69
EW5: 135
EW6: 238
EW7: 234
EW8: 403
EW9: 408
EW10: 411
EW11: 118
EW12: 119
EW13: 124
EW14: 83
EW15: 47
EW16: 150
EW17: 114

**Total:** 3,126
Epidemiological Highlights

Week 28, 2020

Highlights:

COVID-19 Cases in Cox’s Bazar District (As of 19 July 2020)

- Kutubdia Pekua: 1,114 cases (1 Million)
- Chakaria: 15 deaths (1 Million)
- Maheshkhali: unknown cases
- Cox’s Bazar Sadar: 25 cases
- Ramu: 0 cases
- Ukhia: 2 cases
- Teknaf: 0 cases

Total cases: 3,126

Deaths: 43

Age and Sex Distribution (%)(n=3,126)

- 0-10 yrs: 30%
- 11-20 yrs: 20%
- 21-30 yrs: 10%
- 31-40 yrs: 10%
- 41-50 yrs: 10%
- 51-60 yrs: 10%
- >60 yrs: 10%

Female: 30%
Male: 70%

Deaths by age and sex (%)(n=43)

- >60 yrs: 28%
- 50-60 yrs: 16%
- 41-50 yrs: 16%
- 31-40 yrs: 16%
- 21-30 yrs: 16%
- 11-20 yrs: 0%
- 0-10 yrs: 0%

Female: 24%
Male: 76%
Highlights:

- Acute Respiratory Infection (13.7%), Diarrheal Diseases (6.9%) & Unexplained Fever (1.7%) are the diseases with highest proportional morbidity in week 29.

- Total consultation is significantly dropped over 50% in last 3 months. Out of total consultation, ARI contributed 13.7% in week 29 decreased from 26.4% in week 12.

- Two third reduction of total ARI consultation indicates changes in specific health seeking behavior of refugee population.

- Community-based mortality surveillance has included SARI death in weekly reporting. Three (03) SARI death has been reported so far.
EWARS Reporting Updates

- Total 141/166 (86%) health facilities registered in EWARS
- Only 110/141 weekly reports received in week 29.
- Completeness and Timeliness for this week is 77%.
- Total 48 alerts were triggered in week 29.
- All alerts were reviewed and verified by WHO EWARS team which is less than as of previous week (70 in week 28).
Diphtheria

No diphtheria case reported in go.data in week 29

A total of 9,120 case-patients were reported since 2017 to till date

- Confirmed = 329
- Probable = 2,785
- Suspected = 6,006

Total Case reported in 2020 = 156

- Confirmed = 7
- Probable = 7
- Suspected = 142

Last confirmed case was reported in Week 13 (24 March 2020)

Total deaths reported is 47. Last death was reported on 25 October 2019
Total number of diphtheria case reported in EWARS from week 1-29, 2020

Number of case reported

Epidemiological week

- Confirm
- Probable
- Suspected
Total 1 suspected measles cases were reported through aggregated weekly reporting in EWARS in week 29. Aggregated weekly report: 4,412 and individual case report (CRF): 2,461 (56%) in 2020.
Diarrhoeal Disease

- A total 3,518 cases of diarrhoeal diseases reported in EWARS in week 29.

- Among which 2,399 cases (4.7%) reported as acute watery diarrhoea (AWD), 808 (1.6%) and 311 (0.6%) cases as other diarrhea and bloody diarrhea respectively.

- Diarrhoeal diseases are the second highest contributor of proportional morbidity after acute respiratory infection (ARI).
Community-based Mortality surveillance

- In week 29 total of 26 deaths were recorded, 77% (n=20) were due to causes classified as “Others”, 19% (n=5) Still birth (Born Dead) and 4% (n=1) Injury.

- 34.6% of deaths reported in the health facility, 57.69% of deaths reported in community/public spaces, and 7.69% of deaths are reported dead in their homes

- We would like to urge donor agencies to inform their partners to report all mortalities into EWARS using the “Community-based mortality surveillance” form.
Community-based Mortality Surveillance

Distribution of Camp/Zone by EPI Week 29

Gender Distribution of deceased case by EW-29

Probable Cause of Death

Epidemiological Highlights
Week 28, 2020
Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Epidemiological Bulletin W29 2020
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Sources of data

1. Weekly EWARS Reporting Form
2. Mortality Case Report Form
3. Event-based Surveillance Form
### Highlights W29 2020

#### Table 1 | Coverage

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<th>%</th>
<th>Description</th>
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<tr>
<td>854,704</td>
<td>-</td>
<td>Estimated total Rohingya population&lt;sup&gt;1&lt;/sup&gt;</td>
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<tr>
<td>854,704</td>
<td>100%</td>
<td>Total population under surveillance</td>
</tr>
<tr>
<td>166</td>
<td>-</td>
<td>Total number of health facilities</td>
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<td>141</td>
<td>85%</td>
<td>Number of EWARS reporting sites</td>
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#### Table 2 | Early warning performance indicators

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<td>3965</td>
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<td>77%</td>
<td>90%</td>
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<td>82%</td>
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#### Table 3 | Alert performance indicators

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<tr>
<td>0%</td>
<td>0%</td>
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</table>

<sup>1</sup> Source: UNHCR. Bangladesh: Joint Goverment of Bangladesh- UNHCR Population Factsheet. 31 December 2019.
**Early Warning | Ukhia and Teknaf**

**Map 1a | Ukhia completeness by camp**

1. Camp 12
2. Camp 1E
3. Camp 1W
4. Camp 4
5. Camp 7
6. Camp 5
7. Camp 2E
8. Camp 8E
9. Kutupalong RC
10. Camp 11
11. Camp 6
12. Camp 2W
13. Camp 10
14. Camp 8W
15. Camp 17
16. Camp 20
17. Camp 15
18. Camp 19
19. Camp 20 Ext
20. Camp 4 Ext
21. Camp 18
22. Camp 9
23. Camp 3
24. Camp 13
25. Camp 16
26. Camp 14

**Map 1b | Teknaf completeness by camp**

1. Nayapara RC
2. Camp 27 Jadimura
3. Camp 24 Leda
4. Camp 21 Chakmarkul
5. Camp 25 Ali Khali
6. Camp 23 Shamlapur
7. Camp 26 Nayapara
8. Camp 22 Unchiprang
# Health Facilities Reports Received

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<tr>
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<td>Camp 3</td>
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</tr>
<tr>
<td>Camp 8W</td>
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<td>5</td>
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<tr>
<td>Kutupalong RC</td>
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<td>1</td>
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</table>

Map 2 | Completeness by camp

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

#### Table 5 | Performance by camp (W29 2020)

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<th>Reporting</th>
<th>Performance</th>
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</thead>
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<td>Camp 20</td>
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<tr>
<td>Camp 9</td>
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<td>4</td>
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#### Map 3 | Completeness by camp

- 1. Camp 12
- 2. Camp 11
- 3. Camp 10
- 4. Camp 17
- 5. Camp 20
- 6. Camp 15
- 7. Camp 19
- 8. Camp 20 Ext
- 9. Camp 18
- 10. Camp 9
- 11. Camp 13
- 12. Camp 16
- 13. Camp 14
### Table 6 | Performance by camp (W29 2020)

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<td>Camp 22 Unchiprang</td>
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### Map 4 | Completeness by camp

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

![Map of Teknaf region with camp locations]
# Table 7 | Performance by partner (W29 2020)

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Table 8 | Performance by camp

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<th>Northern group</th>
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<th>Cumulative (2020)</th>
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<td></td>
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<td>Camp 4 Ext</td>
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<tr>
<td>Kutupalong RC</td>
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</tr>
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</table>

Map 5 | Number of alerts by camp

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

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<td>1</td>
<td>100%</td>
</tr>
<tr>
<td>Camp 20 Ext</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Camp 9</td>
<td>2</td>
<td>100%</td>
</tr>
</tbody>
</table>

### Map 6 | Number of alerts by camp

1. Camp 12
2. Camp 11
3. Camp 10
4. Camp 17
5. Camp 20
6. Camp 15
7. Camp 19
8. Camp 20 Ext
9. Camp 18
10. Camp 9
11. Camp 13
12. Camp 16
13. Camp 14
<table>
<thead>
<tr>
<th>Camp</th>
<th>W29</th>
<th>Cumulative (2020)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td># alerts</td>
<td>% verif.</td>
<td># alerts</td>
</tr>
<tr>
<td>Camp 21 Chakmarkul</td>
<td>1</td>
<td>100%</td>
<td>39</td>
</tr>
<tr>
<td>Camp 22 Unchiprang</td>
<td>1</td>
<td>100%</td>
<td>19</td>
</tr>
<tr>
<td>Camp 23 Shamlapur</td>
<td>4</td>
<td>100%</td>
<td>32</td>
</tr>
<tr>
<td>Camp 24 Leda</td>
<td>0</td>
<td>0%</td>
<td>17</td>
</tr>
<tr>
<td>Camp 25 Ali Khali</td>
<td>0</td>
<td>0%</td>
<td>18</td>
</tr>
<tr>
<td>Camp 26 Nayapara</td>
<td>0</td>
<td>0%</td>
<td>42</td>
</tr>
<tr>
<td>Camp 27 Jadimura</td>
<td>0</td>
<td>0%</td>
<td>15</td>
</tr>
<tr>
<td>Nayapara RC</td>
<td>1</td>
<td>100%</td>
<td>21</td>
</tr>
</tbody>
</table>

Map 7 | Number of alerts by camp

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

### Table 11 | Performance by type of alert

<table>
<thead>
<tr>
<th>Event</th>
<th>W29</th>
<th>Cumulative (2020)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td># alerts</td>
<td>% verif.</td>
</tr>
<tr>
<td><strong>Indicator-based surveillance</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Malaria</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Measles</td>
<td>1</td>
<td>100%</td>
</tr>
<tr>
<td>Bloody Diarr.</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>AFP</td>
<td>1</td>
<td>100%</td>
</tr>
<tr>
<td>Meningitis</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Haem, fever (susp.)</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>NNT</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Unexp. fever</td>
<td>3</td>
<td>100%</td>
</tr>
<tr>
<td>AWD</td>
<td>3</td>
<td>100%</td>
</tr>
<tr>
<td>ARI</td>
<td>9</td>
<td>100%</td>
</tr>
<tr>
<td>AJS</td>
<td>2</td>
<td>100%</td>
</tr>
<tr>
<td>Varicella (Susp.)</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td>Suspected COVID-19</td>
<td>0</td>
<td>0%</td>
</tr>
<tr>
<td><strong>Event-based surveillance</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EBS total</td>
<td>7</td>
<td>100%</td>
</tr>
</tbody>
</table>

### Table 12 | Risk assessment

<table>
<thead>
<tr>
<th>W29</th>
<th>Cumulative (2020)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>
For more help and support, please contact:

Dr. Shownam Barua  
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Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W29 2020
### Proportional morbidity

#### Figure 1 | Proportional morbidity (W29 2020)

<table>
<thead>
<tr>
<th>Disease</th>
<th>W29</th>
<th>2020</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td># cases</td>
<td>% morbidity</td>
</tr>
<tr>
<td>AWD</td>
<td>2,399</td>
<td>4.7%</td>
</tr>
<tr>
<td>Bloody diarr.</td>
<td>311</td>
<td>0.6%</td>
</tr>
<tr>
<td>Other diarr.</td>
<td>808</td>
<td>1.6%</td>
</tr>
<tr>
<td>Susp. Varicella</td>
<td>17</td>
<td>0.0%</td>
</tr>
<tr>
<td>ARI</td>
<td>6,945</td>
<td>13.7%</td>
</tr>
<tr>
<td>Measles/Rub.</td>
<td>1</td>
<td>0.0%</td>
</tr>
<tr>
<td>AFP</td>
<td>1</td>
<td>0.0%</td>
</tr>
<tr>
<td>Susp. menin.</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>AJS</td>
<td>18</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 (susp.)</td>
<td>539</td>
<td>1.1%</td>
</tr>
<tr>
<td>Dengue (conf.)</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Dengue (susp.)</td>
<td>0</td>
<td>0.0%</td>
</tr>
<tr>
<td>Unexpl. fever</td>
<td>843</td>
<td>1.7%</td>
</tr>
<tr>
<td>Sev. Malnut.</td>
<td>11</td>
<td>0.0%</td>
</tr>
<tr>
<td>Inj./Wounds</td>
<td>1,331</td>
<td>2.6%</td>
</tr>
<tr>
<td>Other</td>
<td>37,415</td>
<td>73.9%</td>
</tr>
<tr>
<td>Total</td>
<td>49,814</td>
<td>100%</td>
</tr>
</tbody>
</table>

* Combines malaria and dengue cases (suspected and confirmed)
Figure 2 | Trend in proportional morbidity for key diseases (W29)

- Other consultations
- Acute Respiratory Infection (ARI)
- Unexplained fever
- Acute Jaundice Syndrome (AJS)
- Acute Watery Diarrhoea (AWD)
- Other diarrhoea
- Vector-borne disease*

* Combines malaria and dengue cases (suspected and confirmed)
Figure 3 | Trend in number of cases over time (W38 2017 - W29 2020)
Acute Respiratory Infection | Maps and Alert Management

Map 1 | Map of cases by camp (W29 2020)

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

0 1 100 200 500

Number of alerts

0 1 10

Alert threshold

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

Alert management (W29 2020)

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

Figure | % sex

Figure | % age

Male Female

>5 < 5

W29 2020
Figure 4 | Trend in number of suspected cases over time (W38 2017 - W29 2020)
Maps and Alert Management

Map 2 | Map of cases by camp (W29 2020)

<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>b. Ukhia</td>
</tr>
<tr>
<td>c. Teknaf</td>
<td></td>
<td>d. Teknaf</td>
</tr>
</tbody>
</table>

Alert management (W29 2020)

<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>

Map legend

- Number of cases
- Number of alerts

Alert threshold
1 case. Source: IEDCR

Figure | % sex

- Male
- Female

Figure | % age

- > 5
- < 5

Measles
Figure 5 | Trend in number of cases over time (W38 2017 - W29 2020)

Total suspected AJS cases - Bangladesh
Acute Jaundice Syndrome | Maps and Alert Management

Map 3 | Map of cases by camp (W37 2017 - W29 2020)

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

**Alert management (W29 2020)**

- **Alerts**: 2
- **Verified**: 100%
- **Low Risk**: 0
- **Moderate Risk**: 0
- **High Risk**: 0
- **Very High Risk**: 0

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

**Map legend**
- **Number of cases**: 0, 1, 10, 20, 50
- **Number of alerts**: 0, 1, 10

**Figure | % sex**
- Male
- Female

**Figure | % age**
- < 5
- >= 5

W29 2020
Figure 6 | Trend in number of cases over time (W38 2017 - W29 2020)
Figure 7 | Trend in number of cases over time (W38 2017 - W29 2020)

- Total Dengue Cases - Suspected - Bangladesh
- Total Dengue Cases - Confirmed - Bangladesh
Dengue | Maps and Alert Management

Map 4 | Map of cases by camp (W37 2017 - W29 2020)

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

0 1 100 200 500

Number of alerts

0 1 10

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

Alert management (W29 2020)

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

Figure | % sex
Figure | % age

Male Female

Source: IEDCR
Figure 7 | Trend in number of cases over time (W38 2017 - W29 2020)
Map 4 | Map of cases by camp (W37 2017 - W29 2020)

a. Ukhia | Number of cases

Varicella (Susp.)

Map legend

Number of cases

0 | 1 | 100 | 200 | 500

Figure | % sex

Male | Female

Figure | % age

>= 5 | < 5
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