

# Bangladesh

Rohingya Emergency Response

Early Warning, Alert and  
Response System (EWARS)

Epidemiological Bulletin W9 2018

## Highlights

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## Early Warning

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## Sources of data

1. Weekly EWARS Reporting Form
2. Mortality Case Report Form
3. Event-based Surveillance Form

**Table 1 | Coverage**

| #              | %          |  |
|----------------|------------|--|
| <b>866,000</b> | -          | Estimated total Rohingya population <sup>1</sup> |
| <b>728,786</b> | <b>84%</b> | Total population under surveillance              |
| <b>158</b>     | -          | Total number of health facilities <sup>2</sup>   |
| <b>151</b>     | <b>96%</b> | Number of EWARS reporting sites                  |

**Table 2 | Early warning performance indicators**

| W9         | Cumulative (2018) |                                   |
|------------|-------------------|-----------------------------------|
| <b>106</b> | <b>934</b>        | Number of weekly reports received |
| <b>70%</b> | <b>68%</b>        | Completeness                      |
| <b>70%</b> | <b>66%</b>        | Timeliness                        |

<sup>1</sup> Source: IOM. Bangladesh: Needs and Population Monitoring - NPM R7 Report. 15 December 2017

<sup>2</sup> Source: REACH. Health Facility Mapping Exercise. 12 December 2017

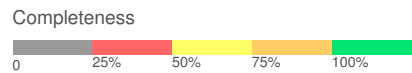
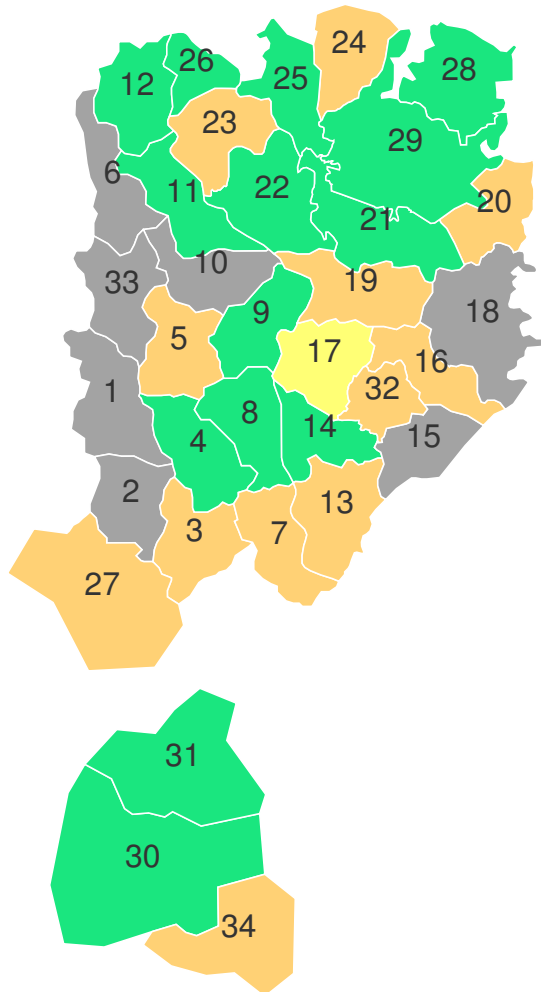
Excluding non-operational health facilities; and excluding specialised services (DTCs, SRH clinics) and mobile clinics (which report under fixed sites)

**Table 3 | Alert performance indicators**

| W9         | Cumulative (2018) |                              |
|------------|-------------------|------------------------------|
| <b>77</b>  | <b>800</b>        | Total alerts raised          |
| <b>95%</b> | <b>98%</b>        | % verified                   |
| <b>0%</b>  | <b>0%</b>         | % auto-discarded             |
| <b>0%</b>  | <b>1%</b>         | % undergoing risk assessment |
| <b>0%</b>  | <b>4%</b>         | % completed risk assessment  |

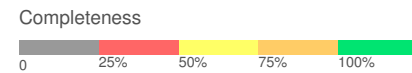
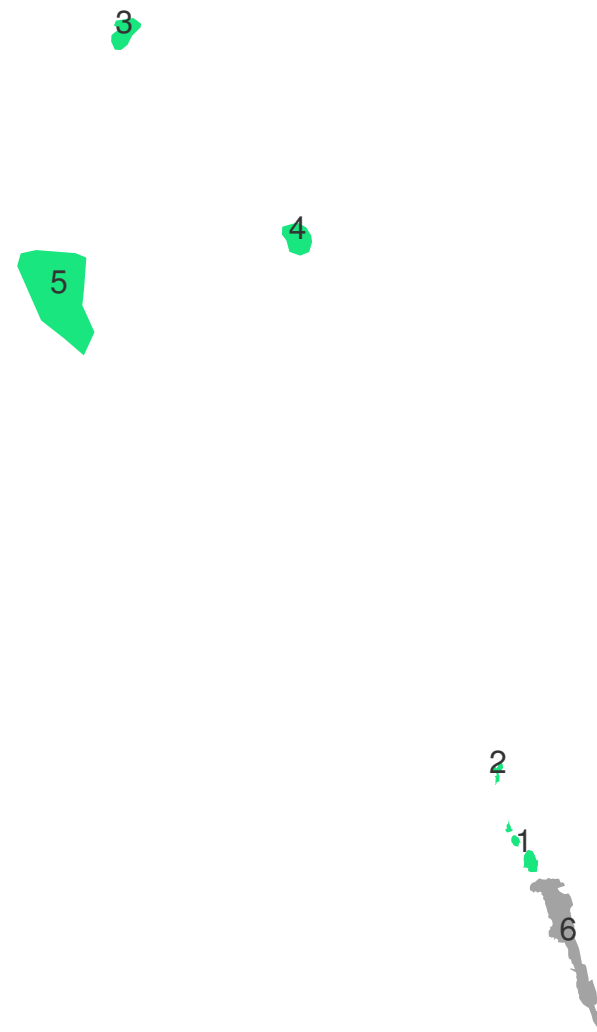
Map 1a | Ukhia completeness by site/zone

- 1 Zone ZZ
- 2 Zone ZA
- 3 Zone YY
- 4 Zone XX
- 5 Zone WW
- 6 Zone UU
- 7 Zone TT
- 8 Zone SS
- 9 Zone RR
- 10 Zone QQ
- 11 Zone PP
- 12 Zone OO
- 13 Zone NN
- 14 Zone MM
- 15 Zone LL
- 16 Zone KK
- 17 Zone JJ
- 18 Zone II
- 19 Zone HH
- 20 Zone GG
- 21 Zone FF
- 22 Zone EE
- 23 Zone DD
- 24 Zone CC
- 25 Zone BB
- 26 Zone AA
- 27 Thangkhali / Burmapara / Tashimarkhola
- 28 Kutupalong RC
- 29 Kutupalong MS
- 30 Jamtoli
- 31 Hakimpara
- 32 Balukhali MS
- 33 Zone VV
- 34 Moynarghona / Bagghona



Map 1b | Teknaf completeness by site/zone

- 1 Nayapara RC
- 2 Leda MS
- 3 Chakmarkul
- 4 Unchiprang
- 5 Shamlapur
- 6 Jadimura

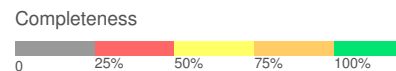
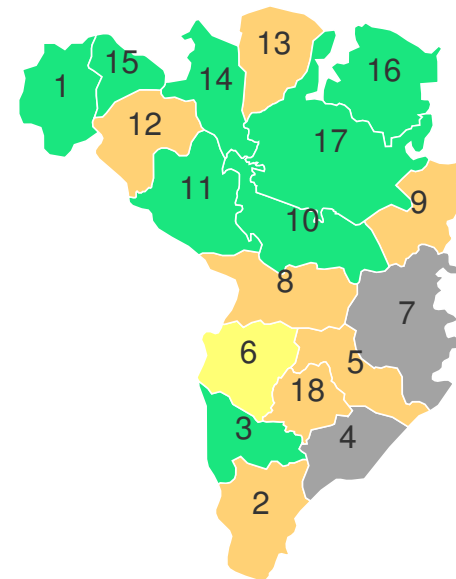


**Table 4** | Performance by site/zone (W9 2018)

| Northern group | Reporting           |                    | Performance  |            |
|----------------|---------------------|--------------------|--------------|------------|
|                | # health facilities | # reports received | Completeness | Timeliness |
| Balukhali MS   | 11                  | 7                  | 64%          | 64%        |
| Kutupalong MS  | 6                   | 5                  | 83%          | 83%        |
| Kutupalong RC  | 4                   | 3                  | 75%          | 75%        |
| Zone AA        | 4                   | 3                  | 75%          | 75%        |
| Zone BB        | 2                   | 2                  | 100%         | 100%       |
| Zone CC        | 2                   | 1                  | 50%          | 50%        |
| Zone DD        | 6                   | 3                  | 50%          | 50%        |
| Zone EE        | 3                   | 3                  | 100%         | 100%       |
| Zone FF        | 4                   | 3                  | 75%          | 75%        |
| Zone GG        | 2                   | 1                  | 50%          | 50%        |
| Zone HH        | 2                   | 1                  | 50%          | 50%        |
| Zone II        | 0                   | 0                  | 0%           | 100%       |
| Zone JJ        | 3                   | 1                  | 33%          | 33%        |
| Zone KK        | 2                   | 1                  | 50%          | 50%        |
| Zone LL        | 0                   | 0                  | 0%           | 100%       |
| Zone MM        | 1                   | 1                  | 100%         | 100%       |
| Zone NN        | 11                  | 7                  | 64%          | 64%        |
| Zone OO        | 1                   | 1                  | 100%         | 100%       |

**Map 2** | Completeness by site/zone

- 1 Zone OO
- 2 Zone NN
- 3 Zone MM
- 4 Zone LL
- 5 Zone KK
- 6 Zone JJ
- 7 Zone II
- 8 Zone HH
- 9 Zone GG
- 10 Zone FF
- 11 Zone EE
- 12 Zone DD
- 13 Zone CC
- 14 Zone BB
- 15 Zone AA
- 16 Kutupalong RC
- 17 Kutupalong MS
- 18 Balukhali MS

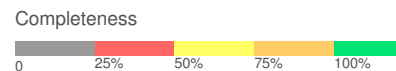
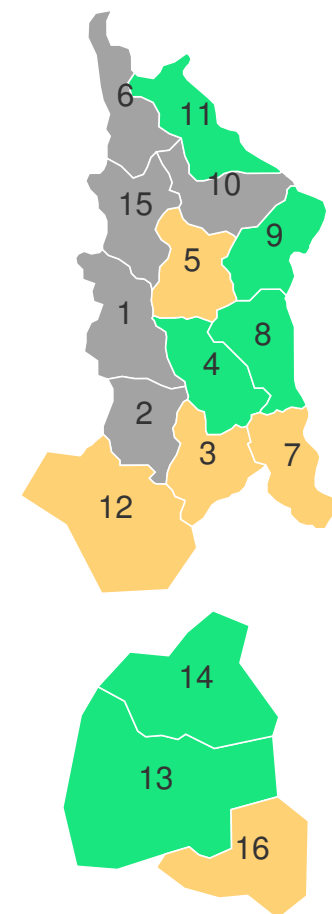


**Table 5** | Performance by site/zone (W9 2018)

| Southern group                         | Reporting           |                    | Performance  |            |
|--|---------------------|--------------------|--------------|------------|
|  | # health facilities | # reports received | Completeness | Timeliness |
| East Palongkhali                       | 1                   | 1                  | 100%         | 100%       |
| Hakimpara                              | 7                   | 7                  | 86%          | 86%        |
| Jamtoli                                | 8                   | 6                  | 75%          | 75%        |
| Moynarghona / Bagghona                 | 9                   | 5                  | 56%          | 56%        |
| Thangkhali / Burmapara / Tasnimarkhola | 10                  | 6                  | 60%          | 60%        |
| Zone PP                                | 2                   | 2                  | 100%         | 100%       |
| Zone QQ                                | 0                   | 0                  | 0%           | 100%       |
| Zone RR                                | 2                   | 2                  | 100%         | 100%       |
| Zone SS                                | 5                   | 4                  | 80%          | 80%        |
| Zone TT                                | 9                   | 5                  | 56%          | 56%        |
| Zone UU                                | 1                   | 0                  | 0%           | 0%         |
| Zone VV                                | 0                   | 0                  | 0%           | 100%       |
| Zone WW                                | 3                   | 2                  | 67%          | 67%        |
| Zone XX                                | 3                   | 3                  | 100%         | 100%       |
| Zone YY                                | 2                   | 1                  | 50%          | 50%        |
| Zone ZA                                | 2                   | 0                  | 0%           | 0%         |
| Zone ZZ                                | 1                   | 0                  | 0%           | 0%         |

**Map 3** | Completeness by site/zone

- 1 Zone ZZ
- 2 Zone ZA
- 3 Zone YY
- 4 Zone XX
- 5 Zone WW
- 6 Zone UU
- 7 Zone TT
- 8 Zone SS
- 9 Zone RR
- 10 Zone QQ
- 11 Zone PP
- 12 Thangkhali / Burmapara / Tasnimarkhola
- 13 Jamtoli
- 14 Hakimpara
- 15 Zone VV
- 16 Moynarghona / Bagghona



**Table 6** | Performance by site/zone (W9 2018)

| Teknaf      | Reporting           |                    | Performance  |            |
|-------------|---------------------|--------------------|--------------|------------|
|             | # health facilities | # reports received | Completeness | Timeliness |
| Baharchora  | 2                   | 2                  | 100%         | 100%       |
| Chakmarkul  | 2                   | 2                  | 100%         | 100%       |
| Leda MS     | 4                   | 4                  | 100%         | 100%       |
| MoH CC      | 1                   | 1                  | 100%         | 100%       |
| Nayapara RC | 3                   | 3                  | 100%         | 100%       |
| Sabrang     | 1                   | 1                  | 100%         | 100%       |
| Shamlapur   | 1                   | 1                  | 100%         | 100%       |
| Teknaf UHC  | 0                   | 0                  | 0%           | 100%       |
| Unchiprang  | 5                   | 4                  | 80%          | 80%        |

**Map 4** | Completeness by site/zone

- 1 Nayapara RC
- 2 Leda MS
- 3 Chakmarkul
- 4 Unchiprang
- 5 Shamlapur
- 6 Jadimura

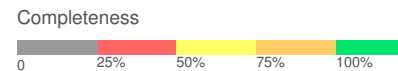
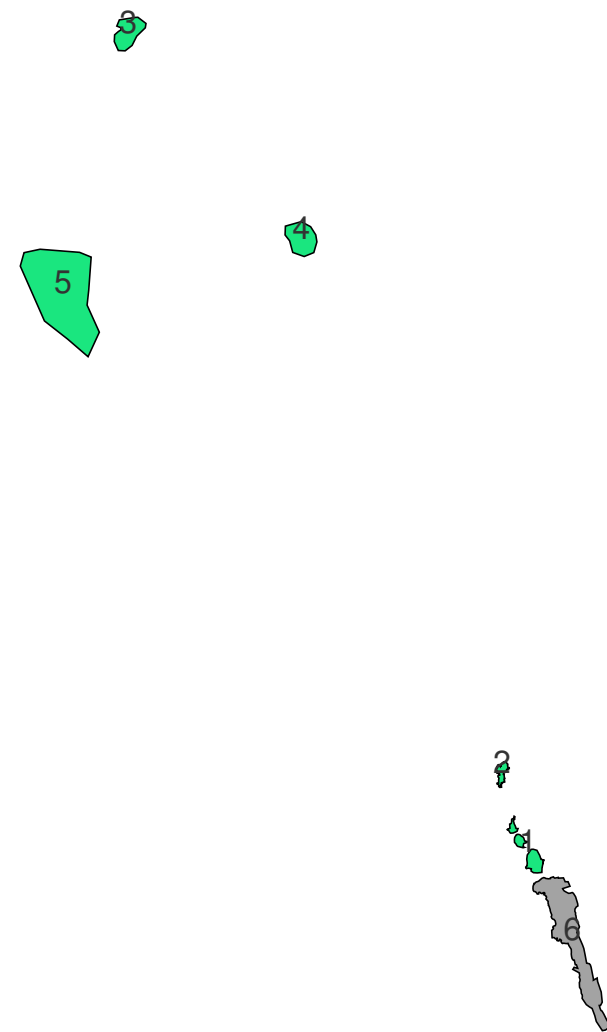


Table 7 | Performance by partner (W9 2018)

| Partner | Performance |                    | Reporting    |            | Partner   | Performance |                    | Reporting    |            |
|---------|-------------|--------------------|--------------|------------|-----------|-------------|--------------------|--------------|------------|
|         | # sites     | # reports received | Completeness | Timeliness |           | # sites     | # reports received | Completeness | Timeliness |
| AIDOCT  | 0           | 0                  |              |            | MTI       | 1           | 1                  | 100%         | 100%       |
| BDRCS   | 16          | 7                  | 44%          | 44%        | OBAT      | 1           | 0                  | 0%           | 0%         |
| BRAC    | 10          | 10                 | 100%         | 100%       | PHD       | 8           | 8                  | 100%         | 100%       |
| CARE    | 4           | 4                  | 100%         | 100%       | Protyashi | 3           | 3                  | 100%         | 100%       |
| FHM     | 1           | 0                  | 0%           | 0%         | PWJ       | 1           | 1                  | 100%         | 100%       |
| FRNDS   | 5           | 0                  | 0%           | 0%         | RHU       | 2           | 2                  | 71%          | 71%        |
| GK      | 7           | 5                  | 71%          | 71%        | RI        | 5           | 5                  | 100%         | 100%       |
| HMBDF   | 1           | 1                  | 100%         | 100%       | RTMI      | 2           | 0                  | 0%           | 0%         |
| IHA     | 2           | 1                  | 50%          | 50%        | SCI       | 9           | 9                  | 100%         | 100%       |
| IOM     | 26          | 19                 | 73%          | 73%        | TdH       | 1           | 0                  | 0%           | 0%         |
| IRC     | 7           | 7                  | 100%         | 100%       |           |             |                    |              |            |
| MERCY   | 2           | 2                  | 100%         | 100%       |           |             |                    |              |            |
| MOAS    | 2           | 2                  | 100%         | 100%       |           |             |                    |              |            |
| MSF     | 26          | 12                 | 46%          | 46%        |           |             |                    |              |            |

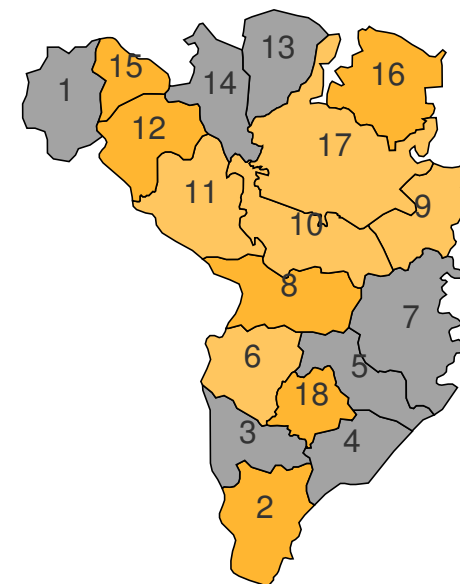


**Table 8** | Performance by site/zone

| Northern group | W9       |          | Cumulative (2018) |          |
|----------------|----------|----------|-------------------|----------|
|                | # alerts | % verif. | # alerts          | % verif. |
| Balukhali MS   | 5        | 100%     | 66                | 98%      |
| Kutupalong MS  | 2        | 100%     | 14                | 100%     |
| Kutupalong RC  | 4        | 100%     | 27                | 100%     |
| Zone AA        | 3        | 100%     | 26                | 100%     |
| Zone BB        | 0        | 0%       | 4                 | 100%     |
| Zone CC        | 0        | 0%       | 1                 | 100%     |
| Zone DD        | 3        | 100%     | 26                | 96%      |
| Zone EE        | 2        | 100%     | 68                | 100%     |
| Zone FF        | 1        | 100%     | 8                 | 100%     |
| Zone GG        | 1        | 100%     | 7                 | 100%     |
| Zone HH        | 4        | 100%     | 20                | 100%     |
| Zone II        | 0        | 0%       | 0                 | 0%       |
| Zone JJ        | 1        | 100%     | 3                 | 100%     |
| Zone KK        | 0        | 0%       | 14                | 93%      |
| Zone LL        | 0        | 0%       | 0                 | 0%       |
| Zone MM        | 0        | 0%       | 1                 | 100%     |
| Zone NN        | 5        | 60%      | 28                | 93%      |
| Zone OO        | 0        | 0%       | 2                 | 100%     |

**Map 5** | Number of alerts by site/zone

- 1 Zone OO
- 2 Zone NN
- 3 Zone MM
- 4 Zone LL
- 5 Zone KK
- 6 Zone JJ
- 7 Zone II
- 8 Zone HH
- 9 Zone GG
- 10 Zone FF
- 11 Zone EE
- 12 Zone DD
- 13 Zone CC
- 14 Zone BB
- 15 Zone AA
- 16 Kutupalong RC
- 17 Kutupalong MS
- 18 Balukhali MS

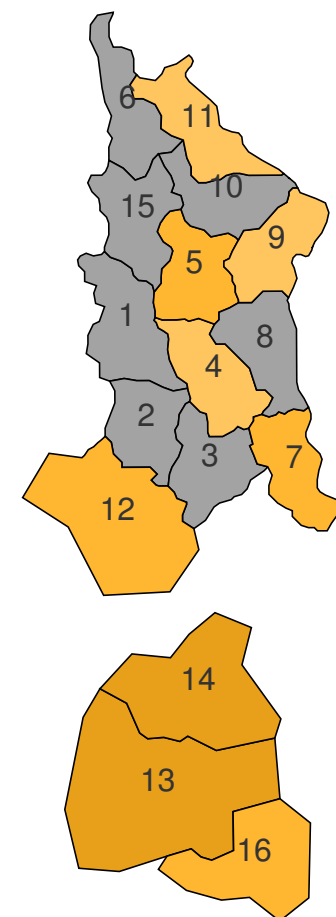


**Table 9** | Performance by site/zone

| Southern group                         | W9       |          | Cumulative (2018) |          |
|--|----------|----------|-------------------|----------|
|  | # alerts | % verif. | # alerts          | % verif. |
| East Palongkhali                       | 0        | 0%       | 0                 | 0%       |
| Hakimpara                              | 6        | 100%     | 52                | 100%     |
| Jamtoli                                | 6        | 83%      | 41                | 98%      |
| Moynarghona / Bagghona                 | 4        | 100%     | 31                | 97%      |
| Thangkhali / Burmapara / Tasnimarkhola | 4        | 100%     | 51                | 98%      |
| Zone PP                                | 2        | 100%     | 22                | 100%     |
| Zone QQ                                | 0        | 0%       | 0                 | 0%       |
| Zone RR                                | 1        | 100%     | 10                | 100%     |
| Zone SS                                | 0        | 0%       | 29                | 97%      |
| Zone TT                                | 4        | 100%     | 60                | 100%     |
| Zone UU                                | 0        | 0%       | 0                 | 0%       |
| Zone VV                                | 0        | 0%       | 0                 | 0%       |
| Zone WW                                | 3        | 67%      | 13                | 92%      |
| Zone XX                                | 1        | 100%     | 15                | 93%      |
| Zone YY                                | 0        | 0%       | 37                | 100%     |
| Zone ZA                                | 0        | 0%       | 0                 | 0%       |
| Zone ZZ                                | 0        | 0%       | 0                 | 0%       |

**Map 6** | Number of alerts by site/zone

- 1 Zone ZZ
- 2 Zone ZA
- 3 Zone YY
- 4 Zone XX
- 5 Zone WW
- 6 Zone UU
- 7 Zone TT
- 8 Zone SS
- 9 Zone RR
- 10 Zone QQ
- 11 Zone PP
- 12 Thangkhali / Burmapara / Tasnimarkhola
- 13 Jamtoli
- 14 Hakimpara
- 15 Zone VV
- 16 Moynarghona / Bagghona



**Table 10** | Performance by site/zone

| Teknaf      | W9       |          | Cumulative (2018) |          |
|-------------|----------|----------|-------------------|----------|
|             | # alerts | % verif. | # alerts          | % verif. |
| Baharchora  | 0        | 0%       | 1                 | 100%     |
| Chakmarkul  | 1        | 100%     | 19                | 95%      |
| Leda MS     | 3        | 100%     | 21                | 100%     |
| MoH CC      | 1        | 100%     | 2                 | 100%     |
| Nayapara RC | 4        | 100%     | 26                | 100%     |
| Sabrang     | 0        | 0%       | 3                 | 100%     |
| Shamlapur   | 1        | 100%     | 4                 | 100%     |
| Teknaf UHC  | 0        | 0%       | 3                 | 100%     |
| Unchiprang  | 4        | 100%     | 34                | 97%      |

**Map 7** | Number of alerts by site/zone

- 1 Nayapara RC
- 2 Leda MS
- 3 Chakmarkul
- 4 Unchiprang
- 5 Shamlapur
- 6 Jadimura

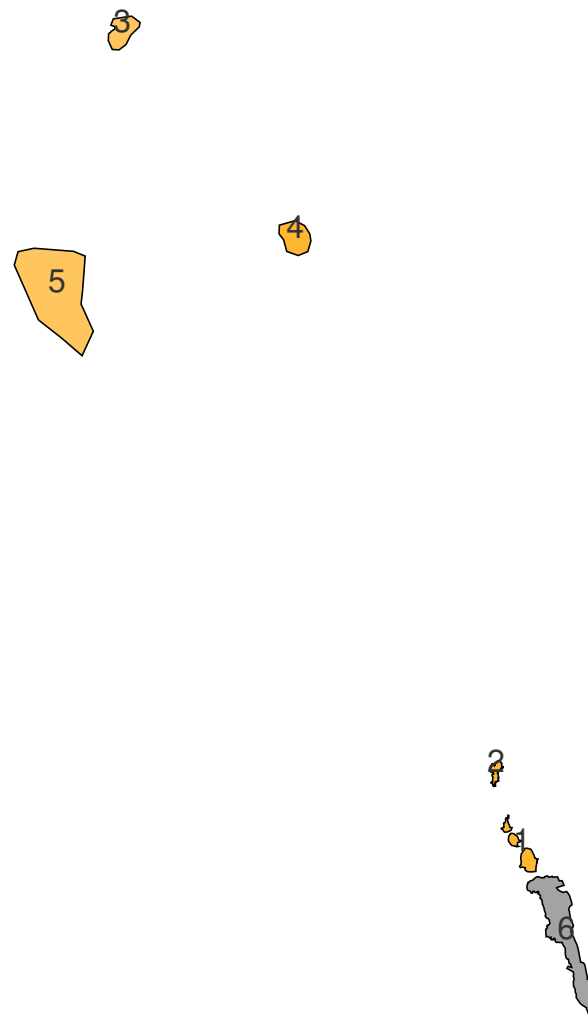


Table 11 | Performance by type of alert

| Event                               | W9       |          | Cumulative (2018) |          |
|-------------------------------------|----------|----------|-------------------|----------|
|                                     | # alerts | % verif. | # alerts          | % verif. |
| <b>Indicator-based surveillance</b> |          |          |                   |          |
| Malaria                             | 0        | 0%       | 0                 | 0%       |
| Measles/Rubella                     | 20       | 100%     | 259               | 98%      |
| Bloody Diarr.                       | 0        | 0%       | 0                 | 0%       |
| AFP                                 | 0        | 0%       | 9                 | 89%      |
| Meningitis                          | 1        | 100%     | 5                 | 100%     |
| Haem. fever (susp.)                 | 2        | 0%       | 15                | 87%      |
| NNT                                 | 1        | 0%       | 2                 | 50%      |
| Unexp. fever                        | 5        | 100%     | 34                | 100%     |
| AWD                                 | 10       | 100%     | 44                | 100%     |
| ARI                                 | 6        | 83%      | 47                | 98%      |
| AJS                                 | 7        | 100%     | 109               | 100%     |
| <b>Event-based surveillance</b>     |          |          |                   |          |
| EBS total                           | 3        | 100%     | 198               | 98%      |

Table 12 | Risk assessment

| W9 | Cumulative (2018) |                |
|----|-------------------|----------------|
| 0  | 3                 | Low risk       |
| 0  | 3                 | Moderate risk  |
| 0  | 23                | High risk      |
| 0  | 1                 | Very high risk |

## 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

Telephone: +88 018 1961 4952

Dr Uzzal Roy  
Surveillance and Outbreak Response Officer  
World Health Organization  
Cox's Bazar, Bangladesh

Telephone: +88 017 0120 8837

Email: [royu@who.int](mailto:royu@who.int)

## Notes

WHO and the Ministry of Health and Family Welfare gratefully acknowledge all partners who have reported the data used in this bulletin.

The data been collected with support from the EWARS project. This is an initiative to strengthen early warning, alert and response in emergencies. It includes an online, desktop and mobile application that can be rapidly configured and deployed in the field. It is designed with frontline users in mind, and built to work in difficult and remote operating environments. This bulletin has been automatically published from the EWARS application.

More information can be found at <http://ewars-project.org>

Sign-up for an account with EWARS Bangladesh at <http://bd.ewars.ws>



Ministry of Health  
and Family Welfare  
Bangladesh

