Global
EWARS

Epidemiological Highlights

Week 51 (14-20 Dec 2020)

World Health Organization

Highlights: COVID-19

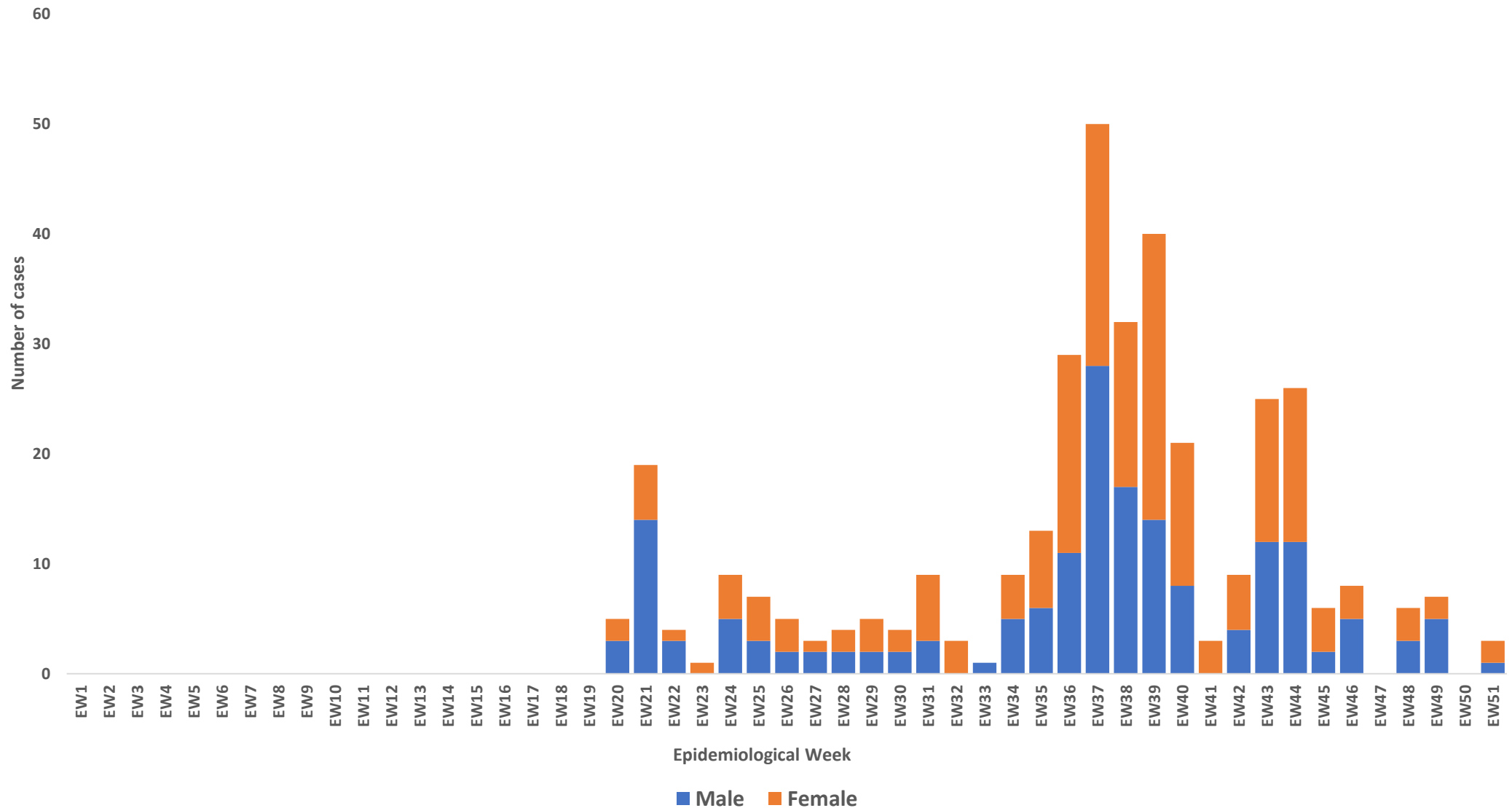As of week 51 (14 – 20 Dec) there are 366 confirmed cases of COVID-19 (SARS-CoV-2), 21 778 samples were tested.

This week (week 51), 3 new confirmed cases detected, 1 316 samples were tested, test positivity was 0.2%.
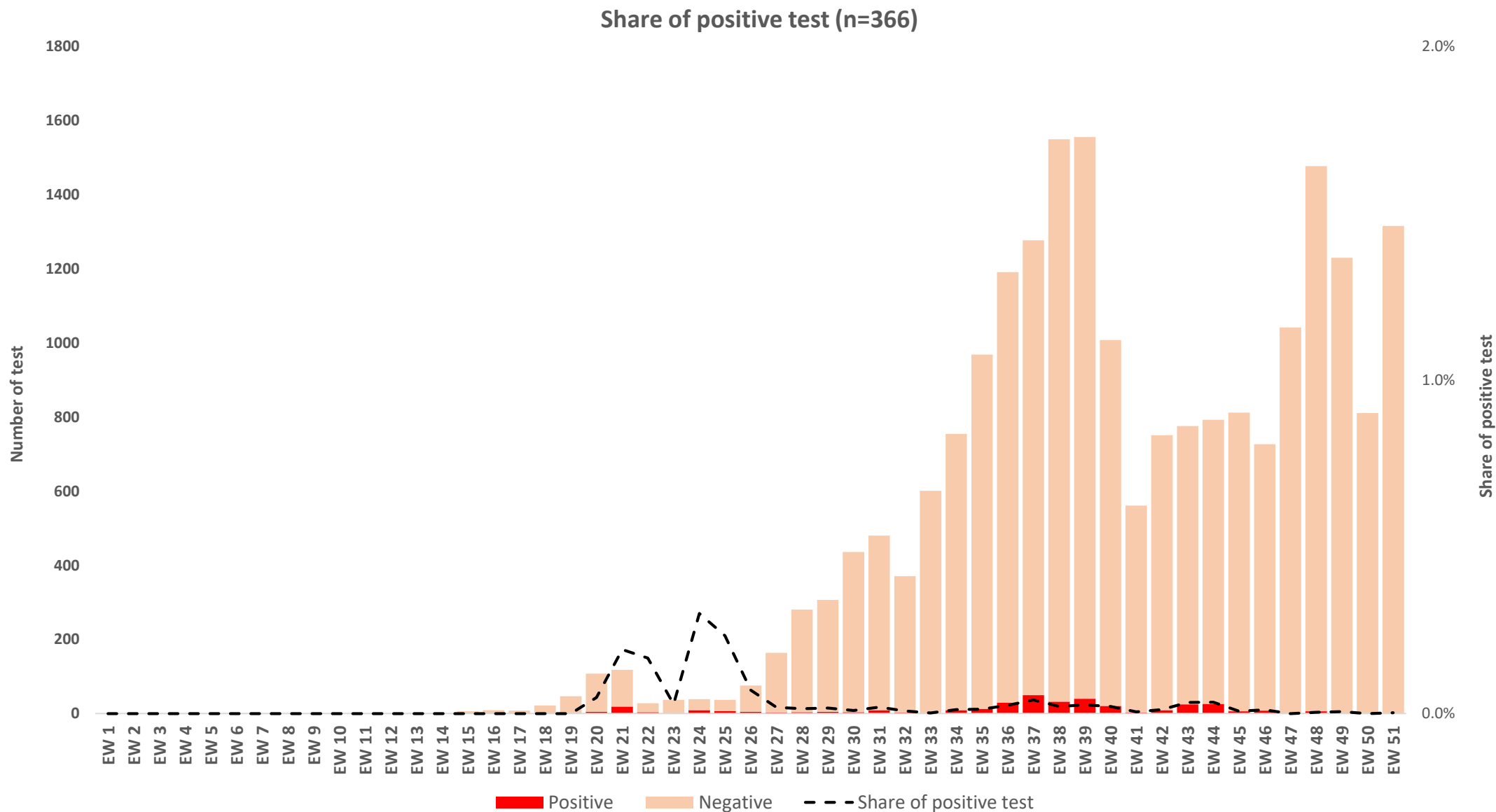
As of this week (week 51)

- median age of tested and confirmed cases is 10 (0-120) & 18 (0-90) years

- female among tested and confirmed cases is 54% and 52%

- all 34/34 camps have confirmed cases (C24-54, C2W-37, C3-27, C15-25, C6-22)

- a total of 10 deaths from COVID-19 with the case fatality rate 2.7%

- the incidence is 42.6 per 100,000 people with the growth rate 0.1%

- the overall positivity of all samples tested was 1.7%

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Highlights: COVID-19

COVID-19 positive cases (n=366) by week of test

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Highlights: COVID-19

Share of positive test (n=366)

Epidemiological Highlights
Week 51, **2020**

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**World Health
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Highlights: COVID-19

COVID-19 Cases in Rohingya Camps (As of 20 December 2020)

Number of Cases
- 0 - 5
- 6 - 10
- 11 - 20
- 21 - 30
- 31 - 40
- 41 - 60

Number of deaths
- ● 1
- ● 2 - 3
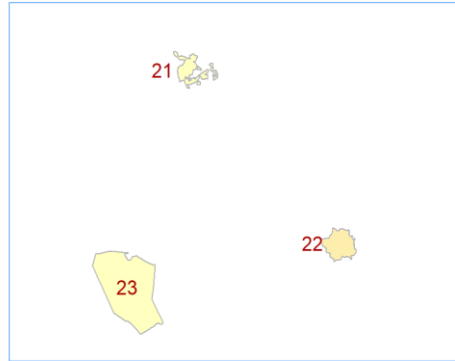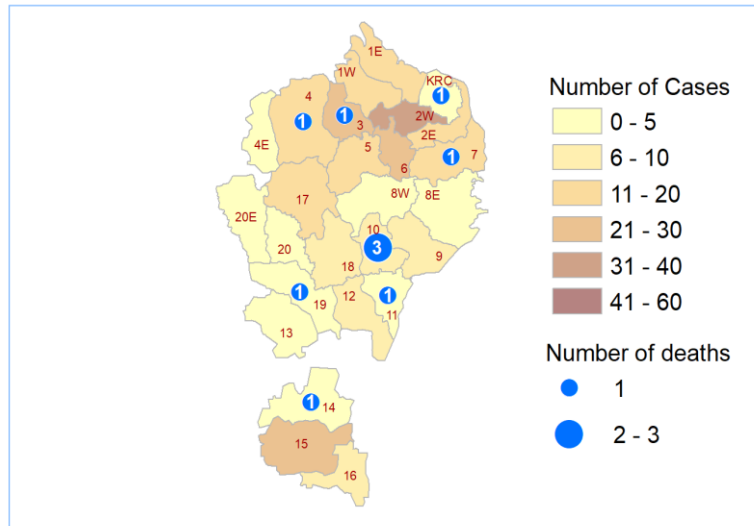
366 Confirmed cases in FDMN/Rohingya Refugee Camps

426 Confirmed cases/1 MIllion

10 Deaths in FDMN/Rohingya Refugee Camps

12 Deaths/ 1 Million
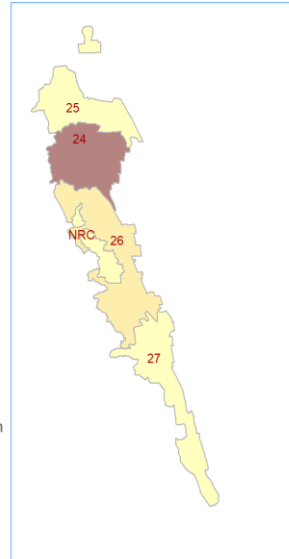
Age and sex distribution (%) (n=366)

F-52%

Age	Male	Female
>60 yrs	3%	1%
51-60 yrs	4%	3%
41-50 yrs	1%	3%
31-40 yrs	4%	5%
21-30 yrs	8%	13%
11-20 yrs	7%	10%
0-10 yrs	19%	18%

■ Female ■ Male

Deaths by age and sex (%) (n=10)

F-50%

Age	Male	Female
>60 yrs	40%	
51-60 yrs		30%
41-50 yrs		10%
31-40 yrs		
21-30 yrs	(male)	
11-20 yrs		
0-10 yrs		10%

■ Female ■ Male

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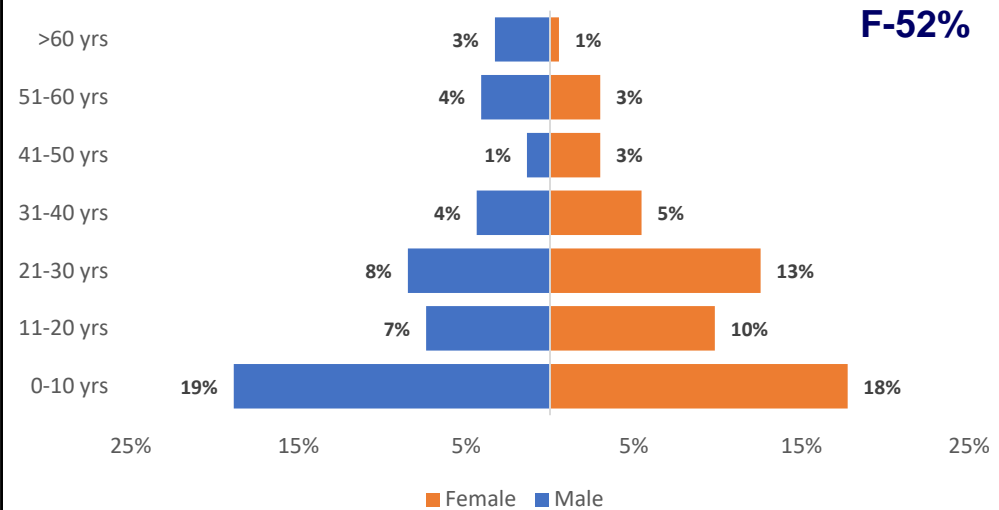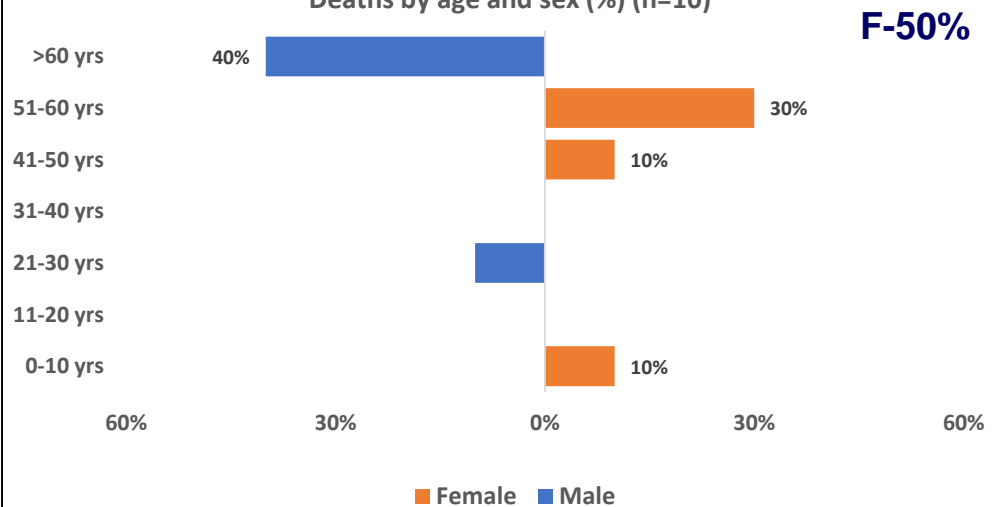
Highlights: COVID-19

Severity of reported cases at presentation (n=270)

- Asymptomatic, 5.2%
- Missing, 9.6%
- Severe, 8.5%
- Moderate, 8.1%
- Mild, 68.5%
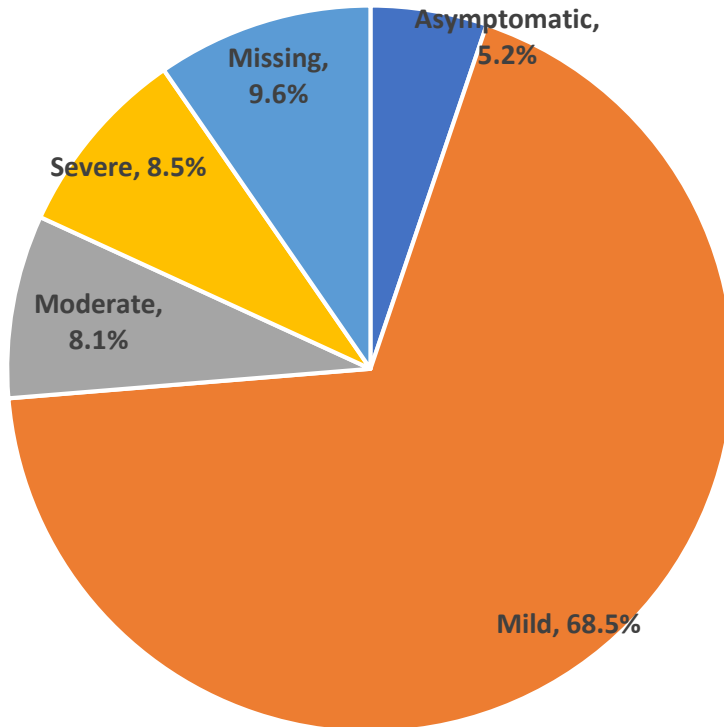
Did the case report at least 1 co-morbidity (n=270)

- Yes 6.7%
- No 93.3%

Source: Go.Data

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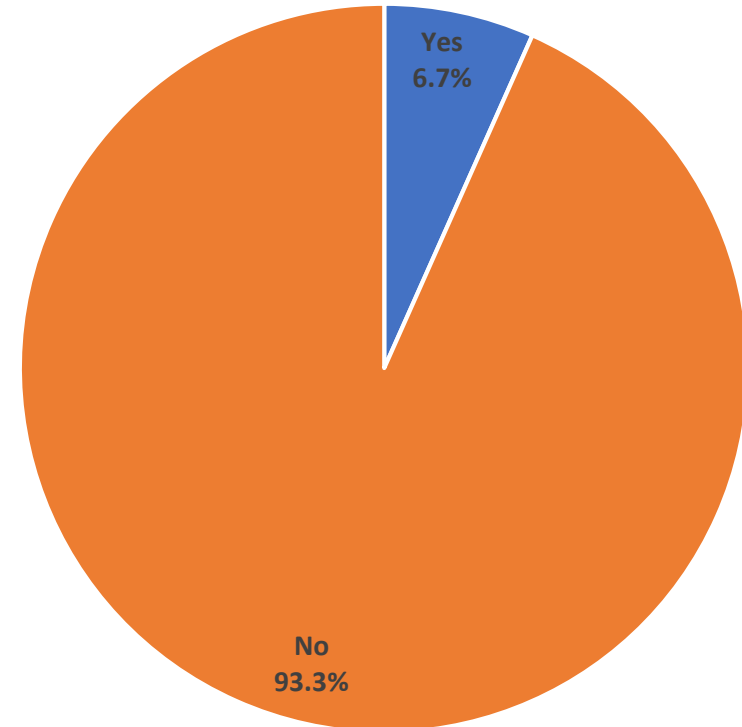
Highlights: COVID-19 Contact Tracing

- As of week 51, 331 out of 366 cases have been investigated by RIRT (Rapid Investigation and Response Team) and data captured through go.data.

- 1 244 contacts have been identified and gone under follow up by Contact Tracing (CT) network.

- 996 (80%) contacts have been completed follow up and released from quarantine.

- 13 (1.3%) contacts have been tested positive during the follow up period.

- Average number of contact per case ~4.

- No geo cluster has been observed so far in camp setting.

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EWARS Reporting Updates

- Total 146/166 (88%) health facilities registered in EWARS

- Only 139/146 weekly reports received in week 51.

- Completeness and timeliness respectively for this week is 90% and 84%.

- Total 51 alerts were triggered in week 51.

- All alerts were reviewed and verified by WHO EWARS team which is less than as of previous week (78 in week 50).

Highlights:

- Acute Respiratory Infection (20.0%), Diarrheal Diseases (4.4%) & Unexplained Fever (1.1%) are the diseases with highest proportional morbidity in week 51.

- Community-based mortality surveillance included SARI death in weekly reporting since week 28 and the reporting frequency changed since then from bi-weekly. Eighteen (18) SARI death has been reported so far.

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Diphtheria

5 suspected diphtheria case reported in go.data in week 51

A total of 9 189 case-patients were reported since 2017 to till date
- Confirmed = 339
- Probable = 2776
- Suspected = 6070

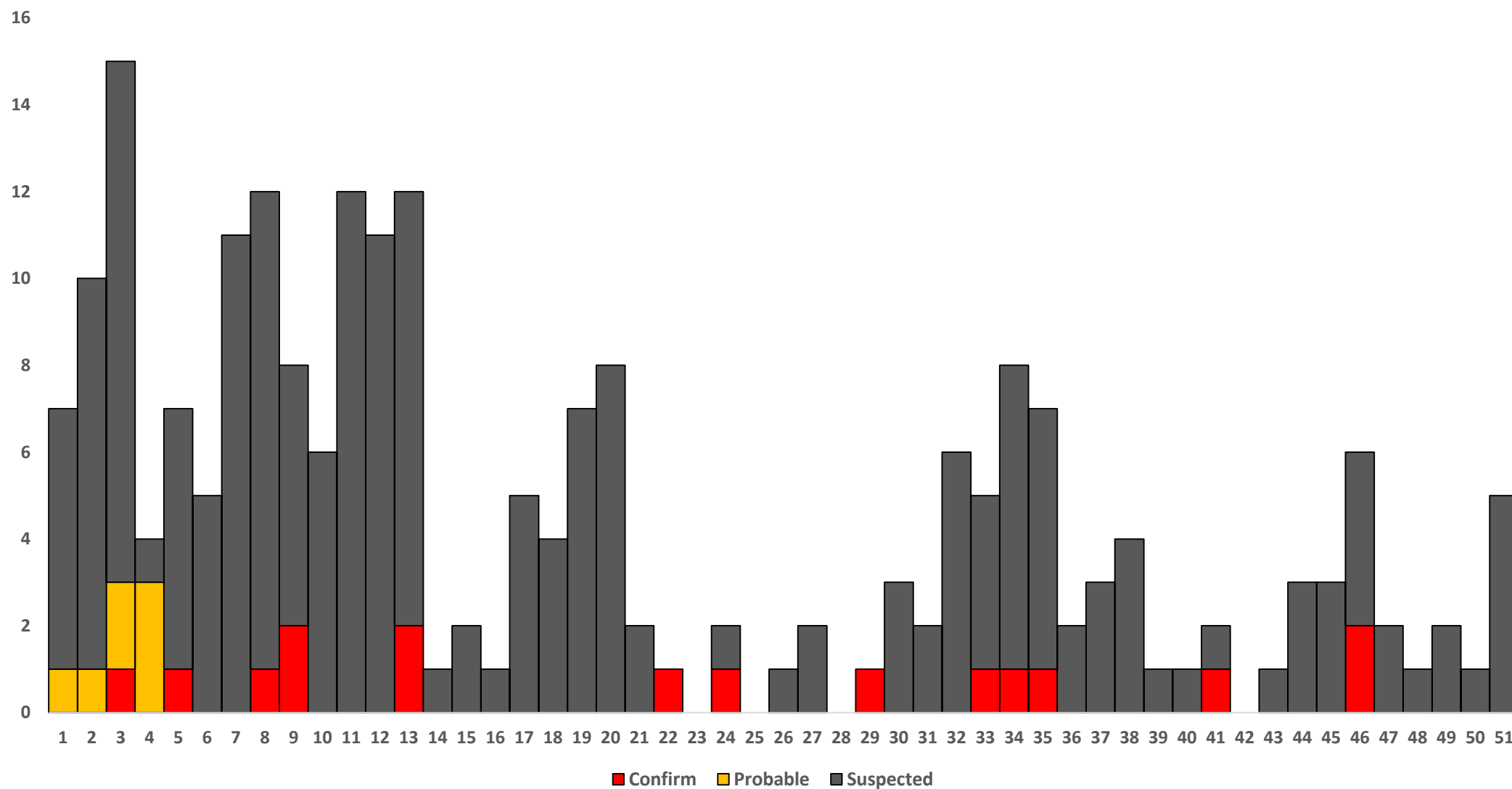Total Case reported in 2020 = 225
- Confirmed = 16
- Probable = 7
- Suspected = 202

Last confirmed case was reported in Week 46 (9 November 2020)

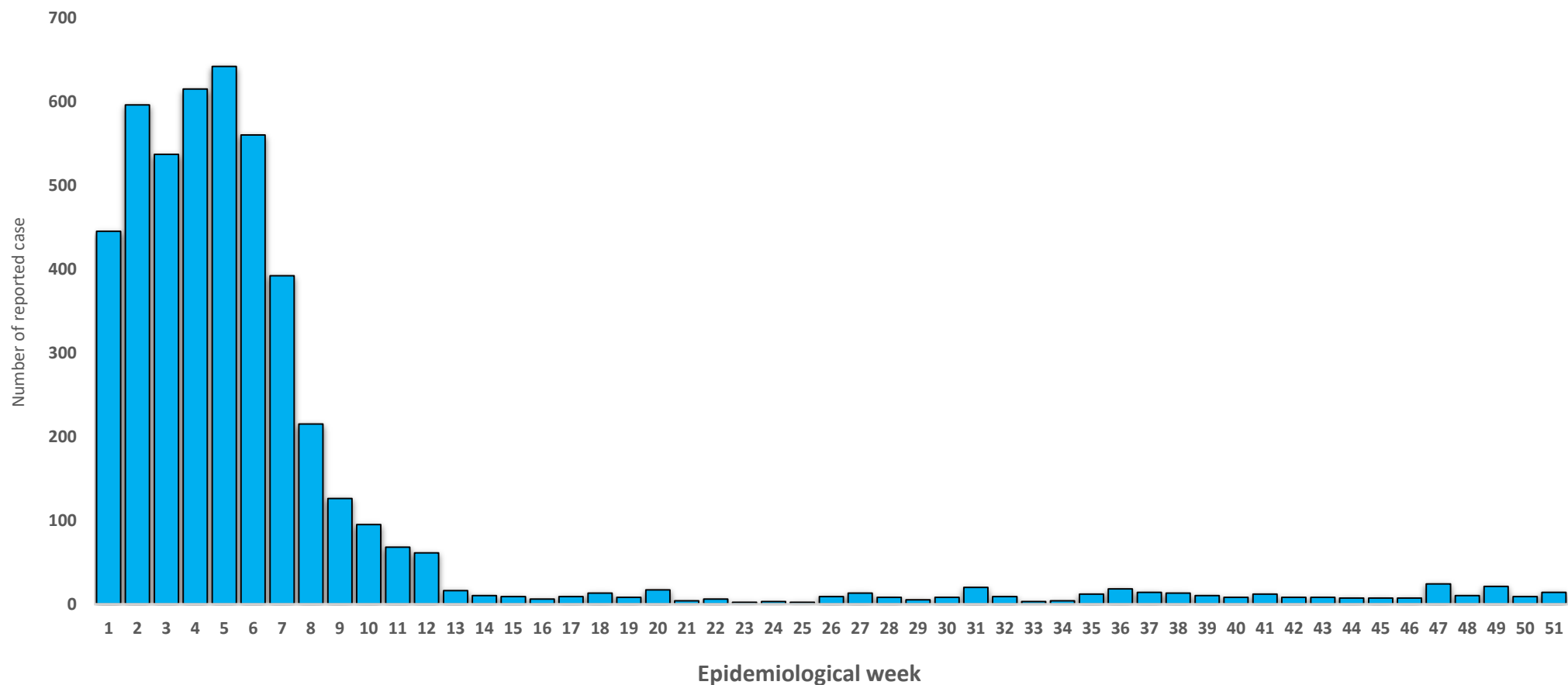Total deaths reported is 47. Last death was reported on 25 October 2019

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Diphtheria

Total number of diphtheria case reported in EWARS from week 1-51, 2020

Confirm ■ Probable ■ Suspected

Measles

Total number of Measles case reported in EWARS from week 36, 2019 to week 51, 2020

Total 14 suspected measles cases were reported through aggregated weekly reporting in EWARS in week 51. Aggregated weekly report showed 4,678 and individual case report (CRF) found 2,629 (56%) in 2020.
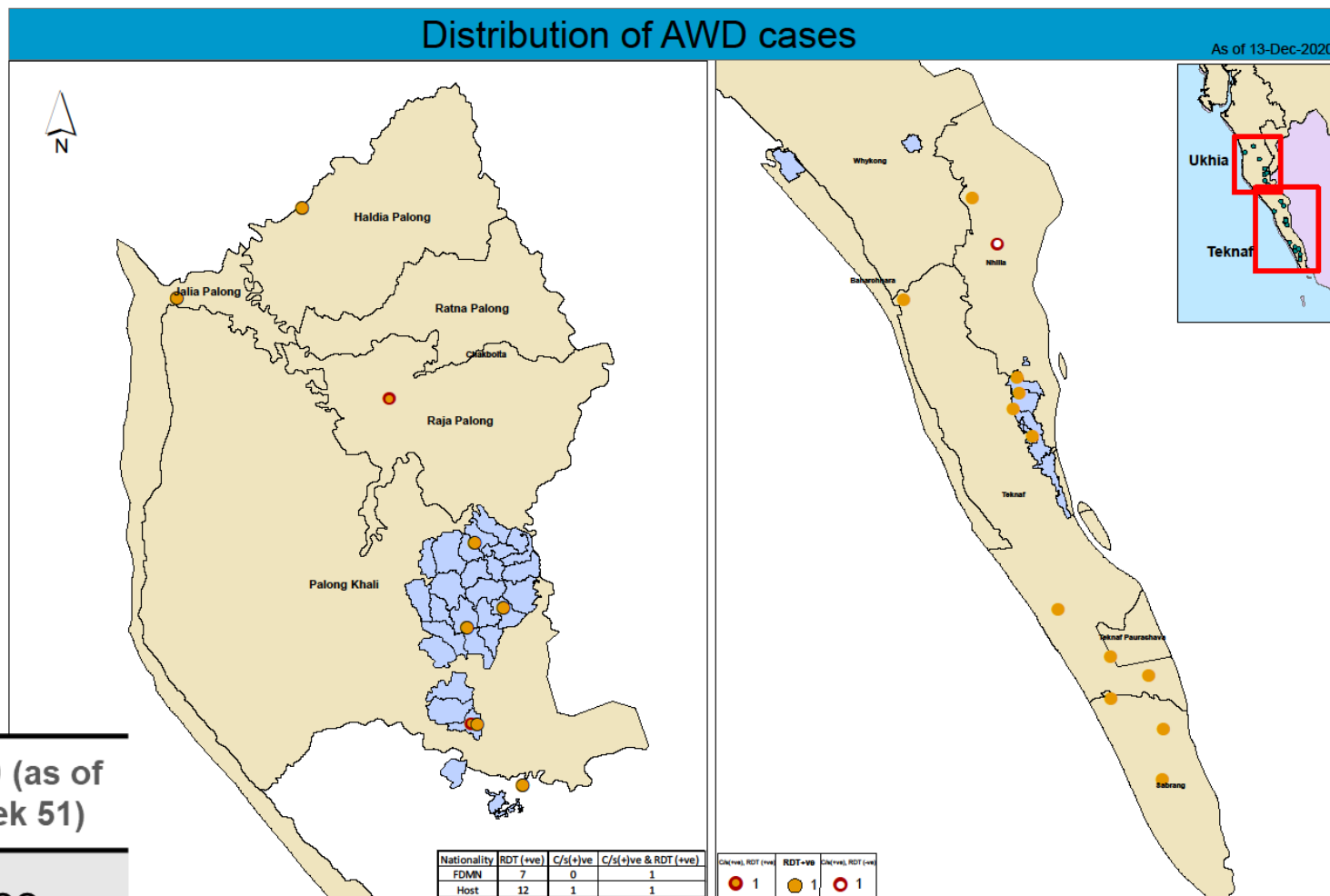
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Diarrhoeal Disease

- A total of 3,150 cases of diarrhoeal diseases reported in EWARS in week 51.

- Among which 2,014 cases (2.8%) reported as acute watery diarrhoea (AWD), 791 (1.1%) and 345 (0.5%) cases as other diarrhea and bloody diarrhea respectively.

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

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Cholera Surveillance

Distribution of AWD cases

As of 13-Dec-2020

Nationality	RDT (+ve)	C/s(+)ve	C/s(+)ve & RDT (+ve)
FDMN	7	0	1
Host	12	1	1

Year	2018	2019	2020 (as of week 51)
RDT + (ve) for Cholera	49	258	22
Culture Confirmed for Cholera	7	184	3

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Community-based Mortality Surveillance

- In week 51 total of 36 deaths were recorded, 61% (n=22) were due to causes classified as "Others", 17% (n=6) as Still birth (Born Dead), 17% (n=6) as Neonatal (<28 days old), 3% (n=1) as Infectious disease and 3% (n=1) as Severe acute respiratory infection (SARI)

- 38.9% of deaths reported in the health facility, 52.8% of deaths reported in homes and 8.3% deaths reported from Community/ Public place.

- Partners to report **all mortalities** into EWARS using the "Community-based mortality surveillance" form.

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Community-based Mortality Surveillance

Camp wise Deceased Case Distribution
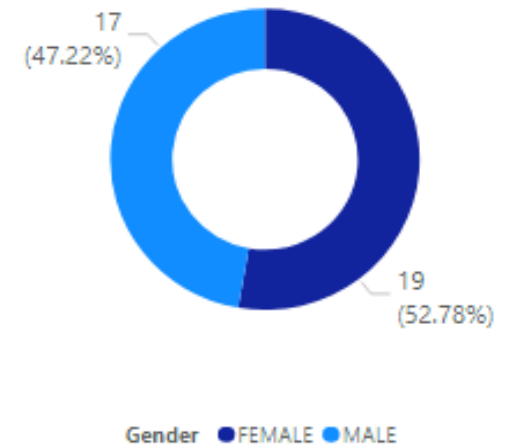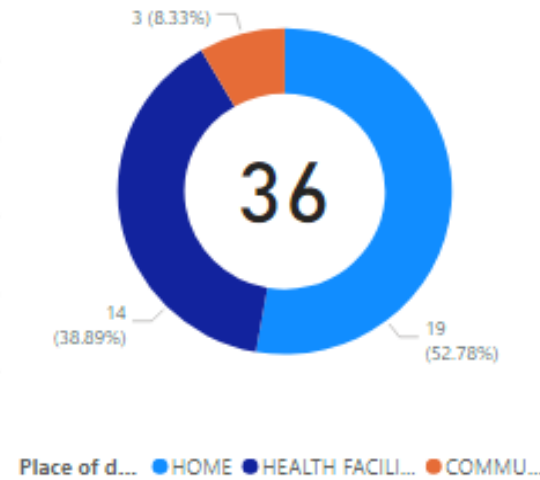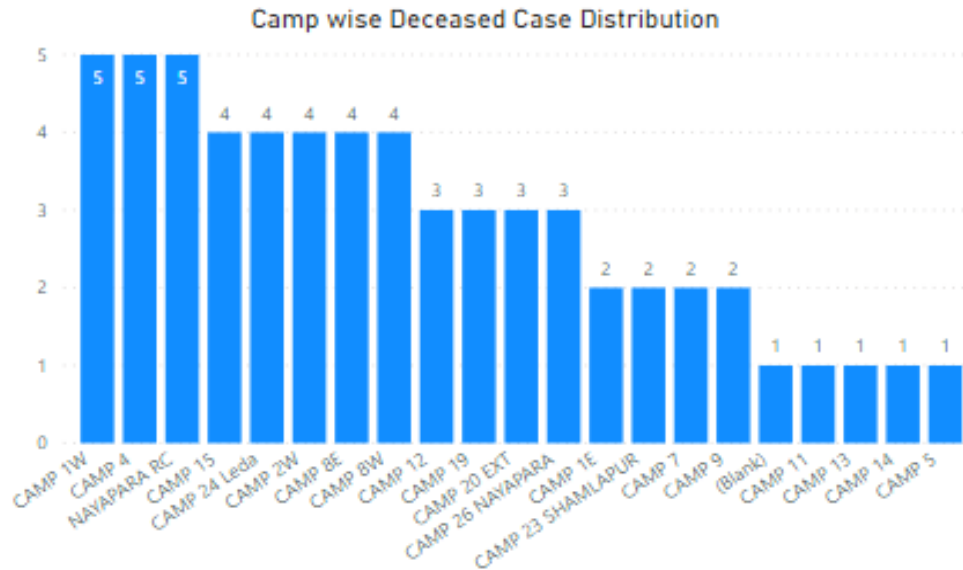
Probable Cause of Death
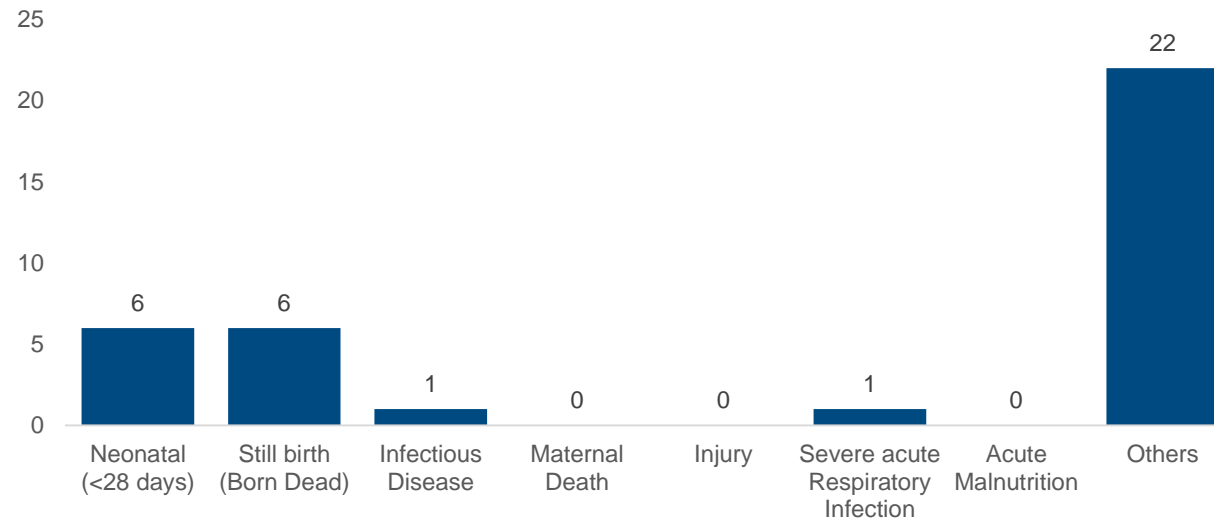
Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Epidemiological Bulletin W51 2020

Ministry of Health and Family Welfare Bangladesh

World Health Organization

HEALTH SECTOR COX'S BAZAR

Contents

Highlights

Early Warning

Alert

Sources of data

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

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HEALTH SECTOR COX'S BAZAR

Highlights W51 2020

Table 1 | Coverage

#	%	
854,704	-	Estimated total Rohingya population[1]
854,704	100%	Total population under surveillance
166	-	Total number of health facilities
146	88%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W51	Cumulative (2020)	
139	7358	Number of weekly reports received
90%	90%	Completeness
84%	80%	Timeliness

Table 3 Alert performance indicators

W51	Cumulative (2020)	
51	3,340	Total alerts raised
100%	100%	% verified
0%	0%	% auto-discarded
0%	0%	% undergoing risk assessment
0%	0%	% completed risk assessment

[1] Source: UNHCR. Bangladesh: Joint Goverment of Bangladesh- UNHCR Population Factsheet. 31 December 2019.

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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 19
18. Camp 15
19. Camp 4 Ext
20. Camp 18
21. Camp 20 Ext
22. Camp 9
23. Camp 3
24. Camp 16
25. Camp 14
26. Camp 13
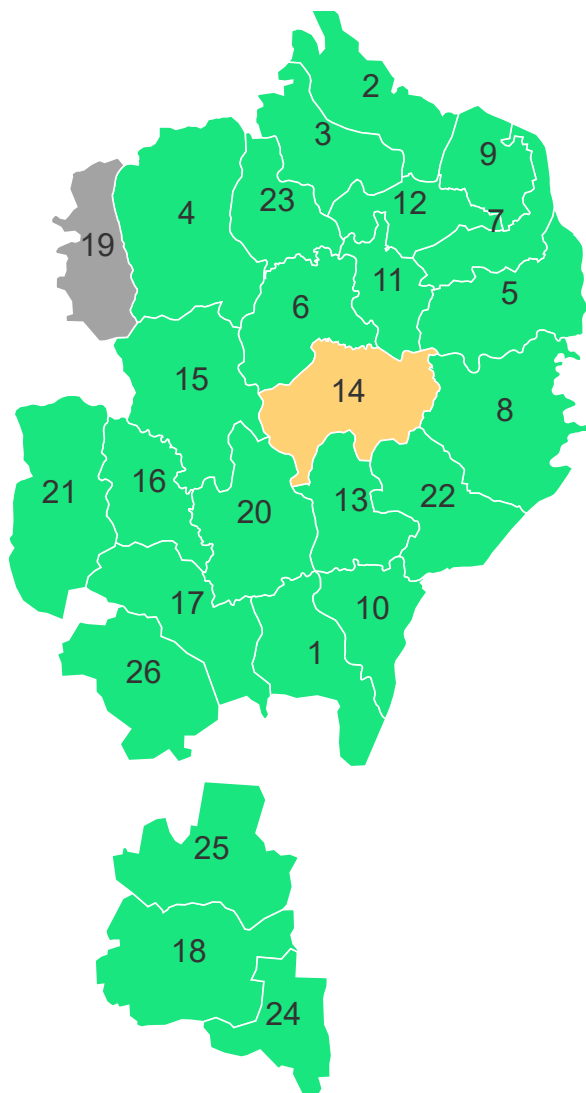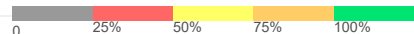
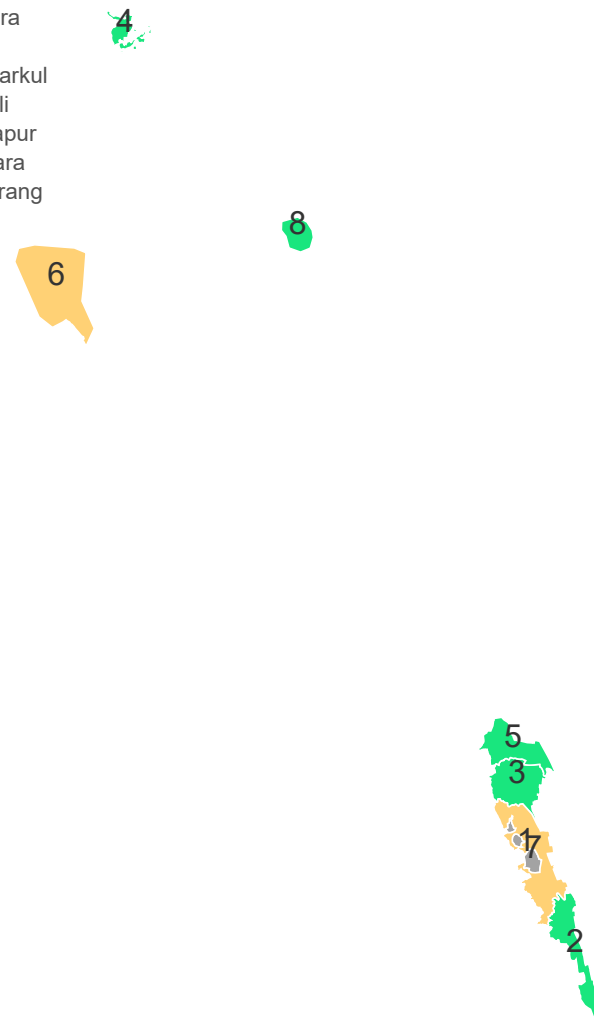## Map 1b | Teknaf completeness by camp

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

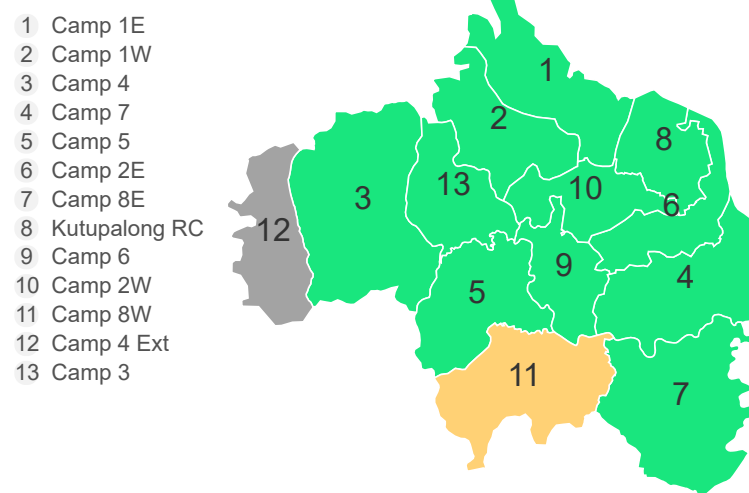Completeness

0   25%   50%   75%   100%

Completeness

0   25%   50%   75%   100%

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Table 4 | Performance by camp (W51 2020)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
		Ukhia Northern Group		
Camp 1E	4	4	100%	100%
Camp 1W	4	3	75%	75%
Camp 2E	1	1	100%	100%
Camp 2W	2	2	100%	100%
Camp 3	6	6	100%	100%
Camp 4	6	6	100%	100%
Camp 4 Ext	1	0	0%	0%
Camp 5	5	4	80%	80%
Camp 6	2	3	100%	100%
Camp 7	6	5	83%	67%
Camp 8E	7	6	86%	71%
Camp 8W	6	4	67%	67%
Kutupalong RC	1	2	100%	100%

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

Completeness

0   25%   50%   75%   100%

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Table 5 | Performance by camp (W51 2020)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	100%
Camp 11	9	10	111%	111%
Camp 12	6	6	100%	100%
Camp 13	9	8	89%	89%
Camp 14	6	5	83%	67%
Camp 15	10	7	78%	67%
Camp 16	5	5	100%	80%
Camp 17	5	4	80%	80%
Camp 18	5	5	100%	100%
Camp 19	5	5	100%	100%
Camp 20	3	3	100%	100%
Camp 20 Ext	2	2	100%	100%
Camp 9	7	5	83%	67%

Map 3 | Completeness by camp

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

Completeness

0   25%   50%   75%   100%

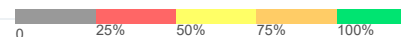World Health Organization

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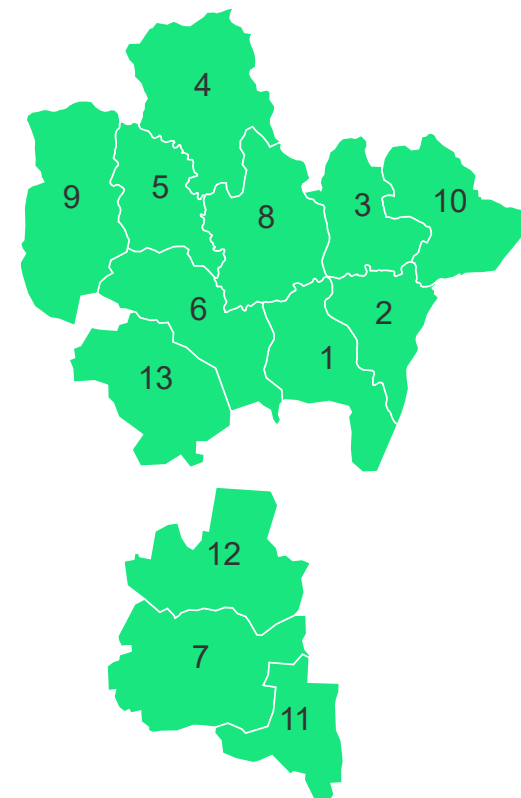
Table 6 | Performance by camp (W51 2020)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
		Ukhia Teknaf		
Camp 21 Chakmarkul	4	5	125%	100%
Camp 22 Unchiprang	5	3	75%	75%
Camp 23 Shamlapur	4	2	67%	67%
Camp 24 Leda	1	1	100%	100%
Camp 25 Ali Khali	3	3	100%	67%
Camp 26 Nayapara	3	4	67%	33%
Camp 27 Jadimura	1	1	100%	100%
Nayapara RC	0	2	0%	100%

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
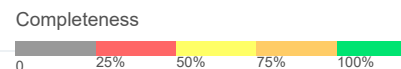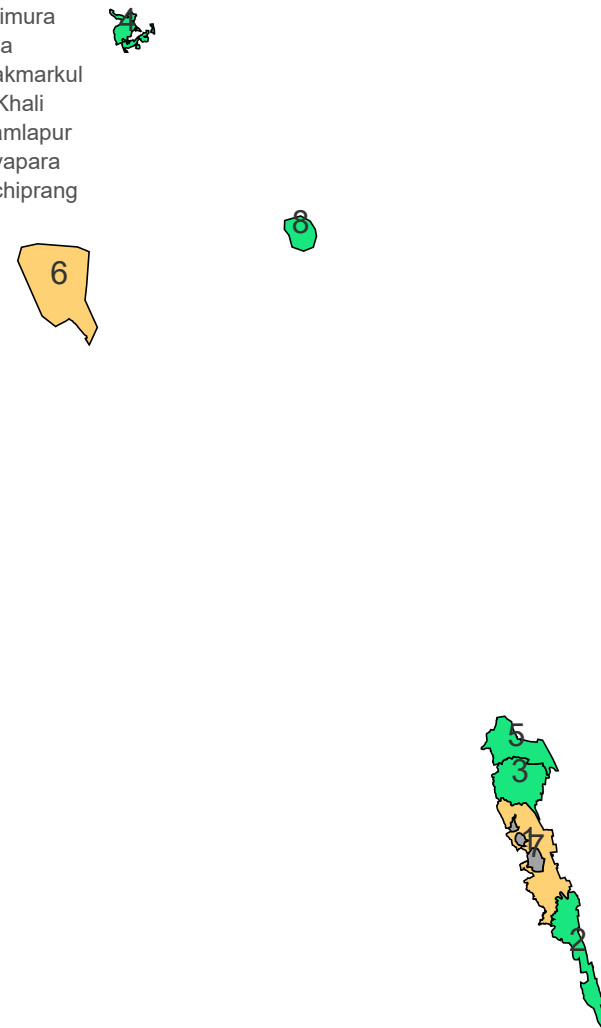6 Camp 23 Shamlapur
7 Camp 26 Nayapara
8 Camp 22 Unchiprang

Completeness

0   25%   50%   75%   100%

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Table 7 | Performance by partner (W51 2020)

Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
BDRCS	9	7	78%	78%	FH/MTI	3	3	100%	100%
BRAC	11	11	100%	100%	PHD	8	8	100%	100%
CARE	4	4	100%	100%	PWJ	1	1	100%	100%
FHM	0	0			RHU	1	1	100%	100%
FRNDS	12	11	92%	92%	RI	3	3	100%	100%
GK	9	8	89%	89%	RTMI	9	9	100%	100%
HMBDF	1	1	100%	100%	SCI	9	10	111%	89%
IOM	21	17	81%	81%	TdH	1	0	0%	0%
IRC	2	2	100%	100%					
MSF	9	6	67%	67%					
MoH	1	1	100%	100%					
Hope	1	1	100%	100%					
Medair	2	2	100%	100%					

Table 8 | Performance by camp

Northern group	W51		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
	Alerts Northern group			
Camp 1E	1	100%	74	100%
Camp 1W	2	100%	68	100%
Camp 2E	5	100%	87	98%
Camp 2W	3	100%	77	100%
Camp 3	0	0%	244	100%
Camp 4	2	100%	188	100%
Camp 4 Ext	0	0%	28	100%
Camp 5	0	0%	162	100%
Camp 6	0	0%	39	100%
Camp 7	0	0%	64	100%
Camp 8E	1	100%	45	100%
Camp 8W	5	100%	173	100%
Kutupalong RC	0	0%	29	100%

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
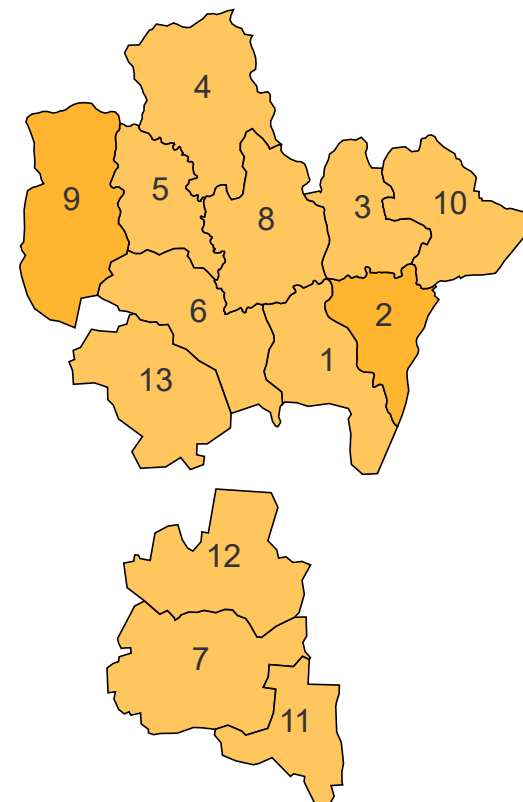10 Camp 2W
11 Camp 8W
12 Camp 4 Ext
13 Camp 3

# of alerts

0   2   5   10

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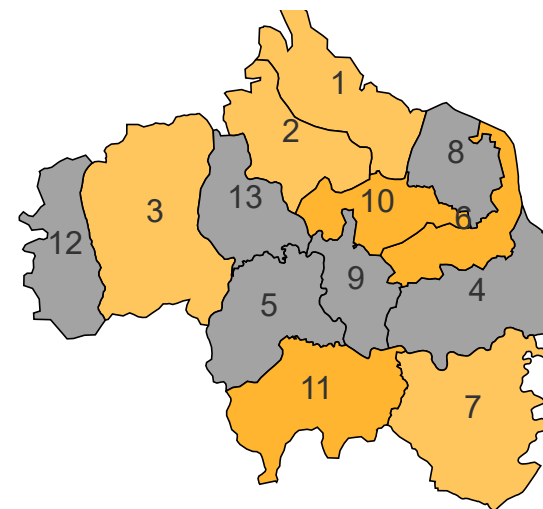
Table 9 | Performance by camp

Map 6 | Number of alerts by camp

Southern group	W51		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
	Alerts Northern group			
Camp 10	1	100%	105	99%
Camp 11	4	100%	129	100%
Camp 12	1	100%	147	100%
Camp 13	2	100%	197	100%
Camp 14	1	100%	85	100%
Camp 15	2	100%	150	100%
Camp 16	1	100%	137	100%
Camp 17	1	100%	112	100%
Camp 18	1	100%	129	99%
Camp 19	1	100%	111	100%
Camp 20	1	100%	76	100%
Camp 20 Ext	3	100%	35	100%
Camp 9	2	100%	148	100%

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

# of alerts

0   2   5   10

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Table 10 | Performance by camp

Teknaf	W51		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	1	100%	72	99%
Camp 22 Unchiprang	1	100%	54	100%
Camp 23 Shamlapur	0	0%	61	100%
Camp 24 Leda	2	100%	38	100%
Camp 25 Ali Khali	1	100%	35	100%
Camp 26 Nayapara	1	100%	51	100%
Camp 27 Jadimura	0	0%	25	100%
Nayapara RC	4	100%	41	100%

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
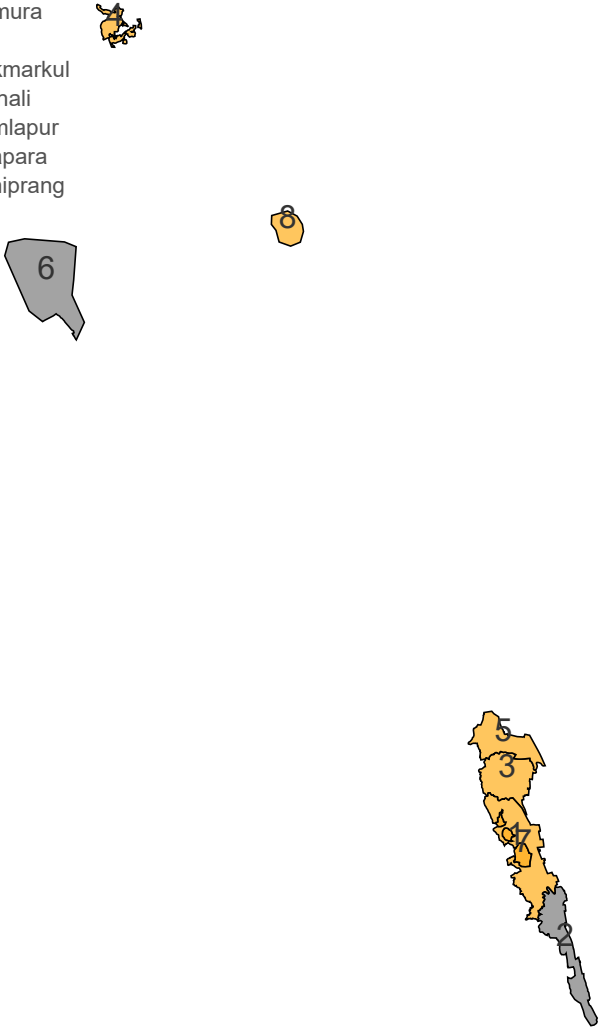6 Camp 23 Shamlapur
7 Camp 26 Nayapara
8 Camp 22 Unchiprang

# of alerts

0   2   5   10

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Table 11 | Performance by type of alert

Event	W51		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	10	100%	881	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	18	100%
Meningitis	0	0%	23	100%
Haem. fever (susp.)	0	0%	9	100%
NNT	0	0%	2	100%
Unexp. fever	2	100%	237	100%
AWD	4	100%	334	100%
ARI	3	100%	360	100%
AJS	0	0%	122	100%
Varicella (Susp.)	0	0%	13	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	4	100%	189	99%

Table 12 | Risk assessment

W51	Cumulative (2020)	
0	9	Low risk
0	3	Moderate risk
0	0	High risk
0	0	Very high risk

For more help and support, please contact:

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NPO (Disease Surveillance & Epidemiology)
World Health Organization
Cox's Bazar, Bangladesh

Telephone: +88 017 0120 2994

Email: khan@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

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Global EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Annex W51 2020

**Ministry of Health and Family
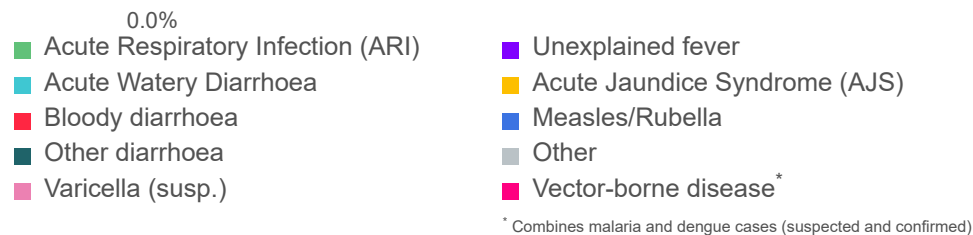Welfare Bangladesh**

**World Health
Organization**

**HEALTH SECTOR
COX'S BAZAR**

Printed: 05:46 Sunday, 03 January 2021 UTC

Proportional morbidity

Figure 1 | Proportional morbidity (W51 2020)

0.0%

- 🟩 Acute Respiratory Infection (ARI)
- 🟦 Acute Watery Diarrhoea
- 🟥 Bloody diarrhoea
- 🟩 Other diarrhoea
- 🟪 Varicella (susp.)
- 🟪 Unexplained fever
- 🟧 Acute Jaundice Syndrome (AJS)
- 🟦 Measles/Rubella
- ⬜ Other
- 🟥 Vector-borne disease*

* Combines malaria and dengue cases (suspected and confirmed)

Disease	W51		2020	
	# cases	% morbidity	# cases	% morbidity
AWD	2,014	2.8%	140,351	4.3%
Bloody diarr.	345	0.5%	16,556	0.5%
Other diarr.	791	1.1%	52,634	1.6%
Susp. Varicella	26	0.0%	1,966	0.1%
ARI	14,324	20.0%	631,903	19.3%
Measles/Rub.	14	0.0%	4,678	0.1%
AFP	0	0.0%	16	0.0%
Susp. menin.	0	0.0%	81	0.0%
AJS	5	0.0%	965	0.0%
Susp. HF	0	0.0%	21	0.0%
Neo. tetanus	0	0.0%	1	0.0%
Adult tetanus	0	0.0%	10	0.0%
Malaria (conf.)	0	0.0%	9	0.0%
Malaria (susp.)	0	0.0%	3,506	0.1%
Dengue (conf.)	0	0.0%	3	0.0%
Dengue (susp.)	0	0.0%	15	0.0%
Unexpl. fever	782	1.1%	59,208	1.8%
Sev. Malnut.	27	0.0%	1,374	0.0%
Inj./Wounds	1,648	2.3%	80,890	2.5%
Other	51,546	72.0%	2,278,732	69.6%
Total	**70,767**	**100%**	**3,273,958**	**100%**

World Health Organization

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Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W51)

Legend:
- 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)

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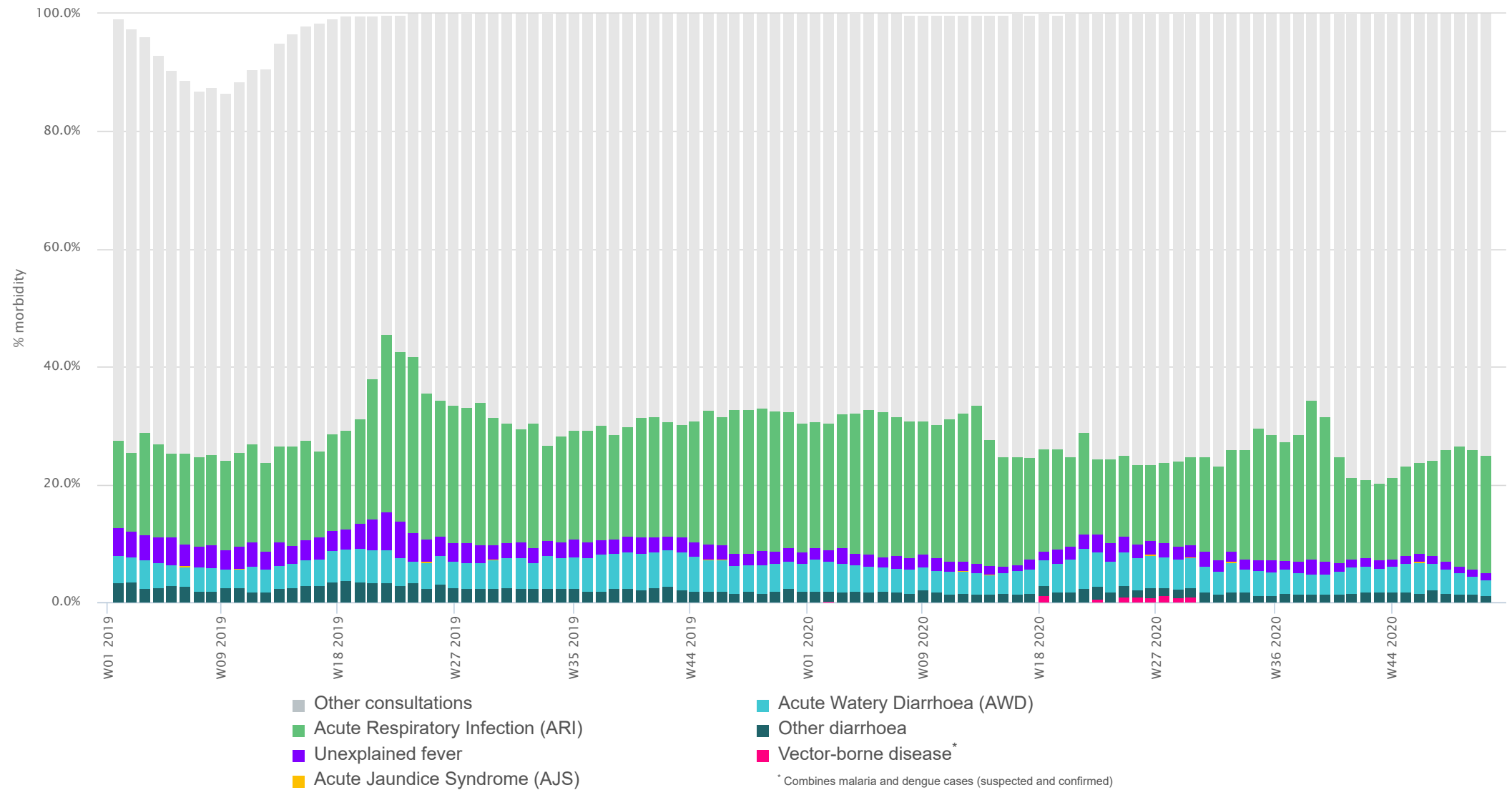
Figure 3 | Trend in number of cases over time (W38 2017 - W51 2020)
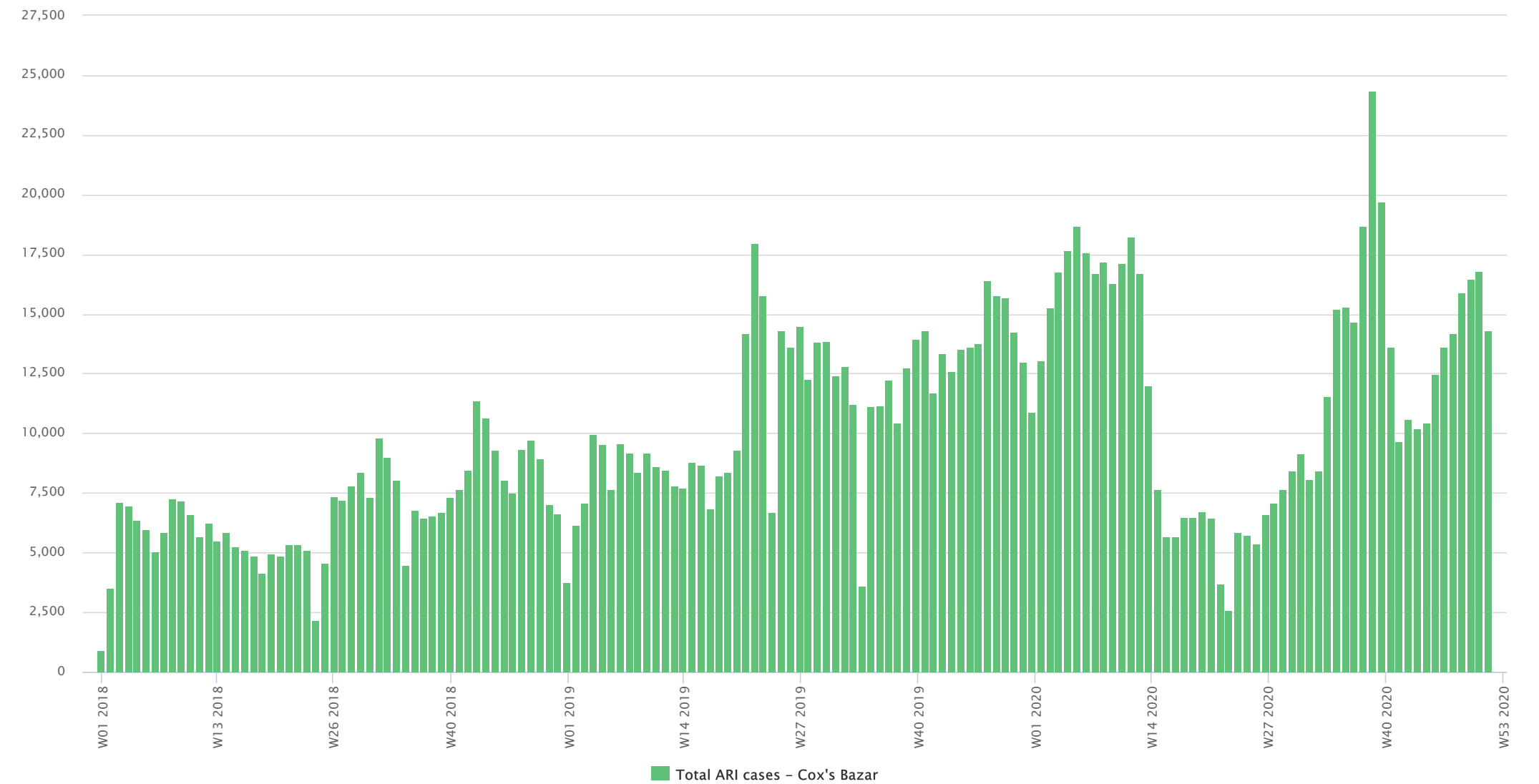
Total ARI cases – Cox's Bazar

World Health Organization

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Acute Respiratory Infection | Maps and Alert Management
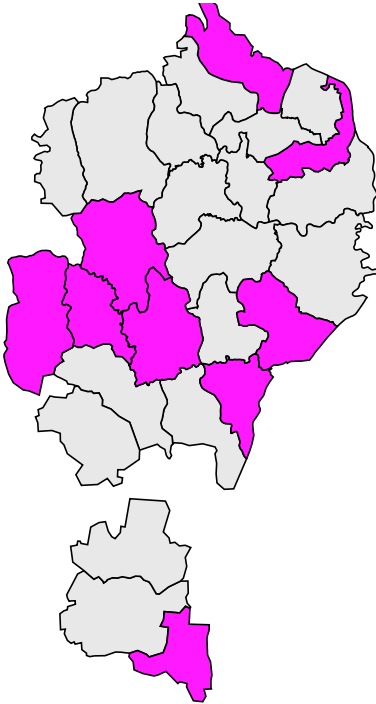
Map 1 | Map of cases by camp (W51 2020)

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 (W51 2020)

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

Figure | % sex

Figure | % age

■ Male   ■ Female   ■ >=5   ■ < 5

World Health Organization

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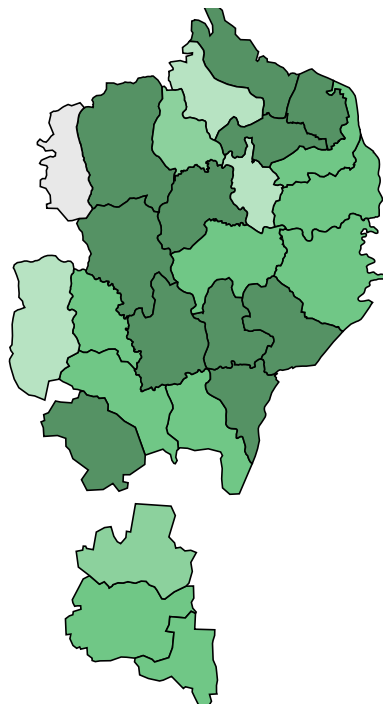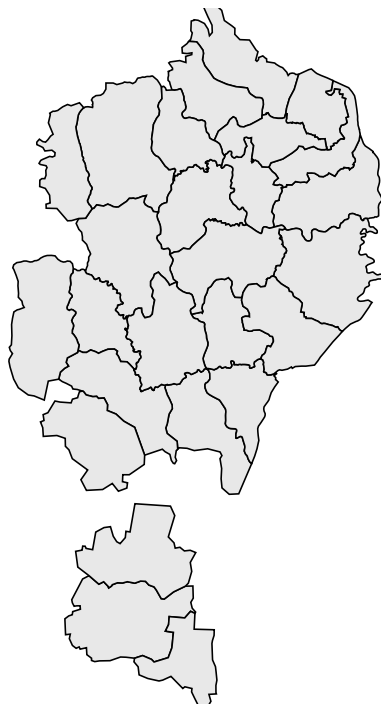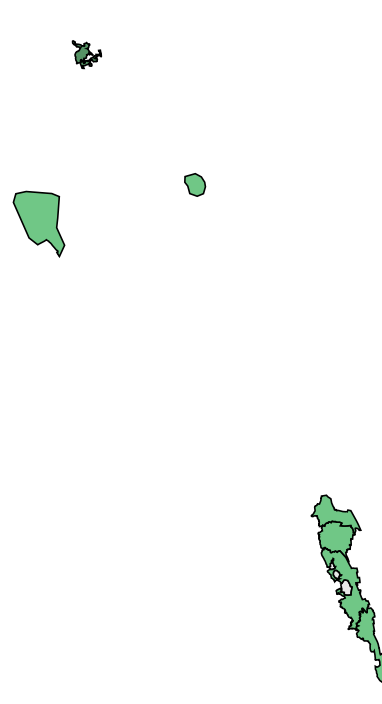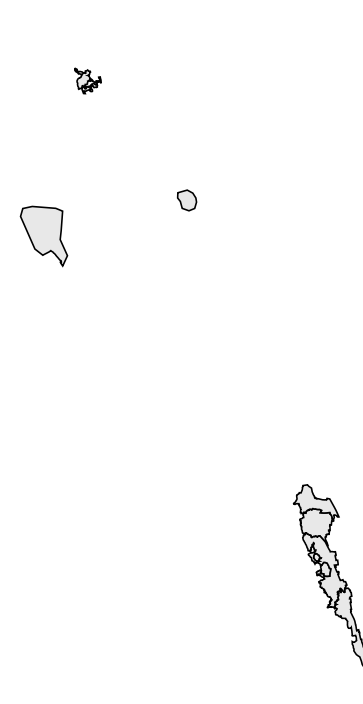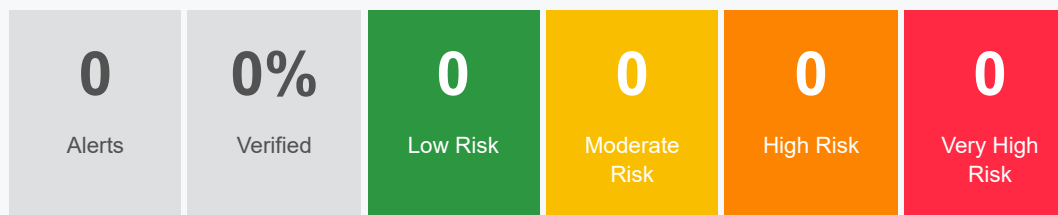
Figure 4 | Trend in number of suspected cases over time (W38 2017 - W51 2020)
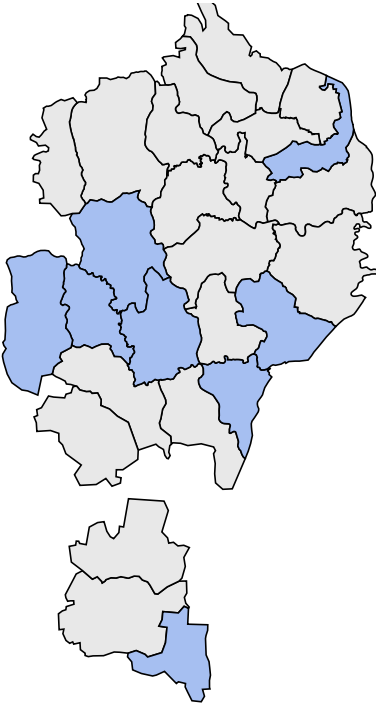
Total suspected measles/rubella cases – Cox's Bazar

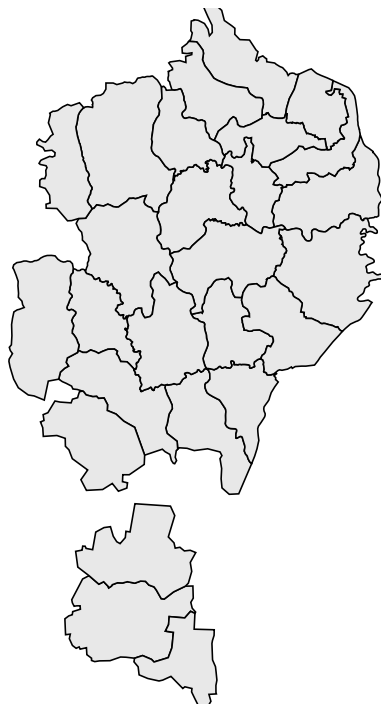# Measles | Maps and Alert Management
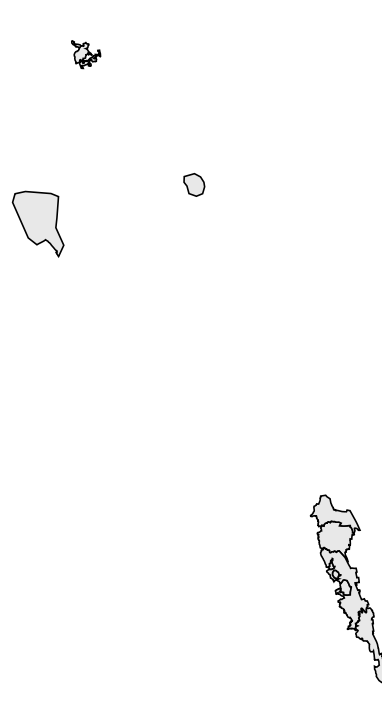
Map 2 | Map of cases by camp (W51 2020)

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 | 10 | 20 | 50 |

Number of alerts

| 0 | 1 | 10 |
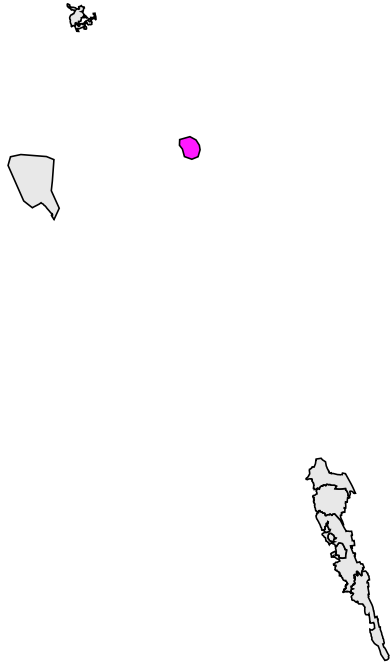
Alert threshold

1 case. *Source: IEDCR*

Alert management (W51 2020)

10	**100%**	**0**	**0**	**0**	**0**
Alerts	Verified	Low Risk	Moderate Risk	High Risk	Very High Risk

Figure | % sex

Figure | % age

■ Male ■ Female   ■ >= 5 ■ < 5

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Figure 5 | Trend in number of cases over time (W38 2017 - W51 2020)

Total suspected AJS cases – Bangladesh

World Health Organization

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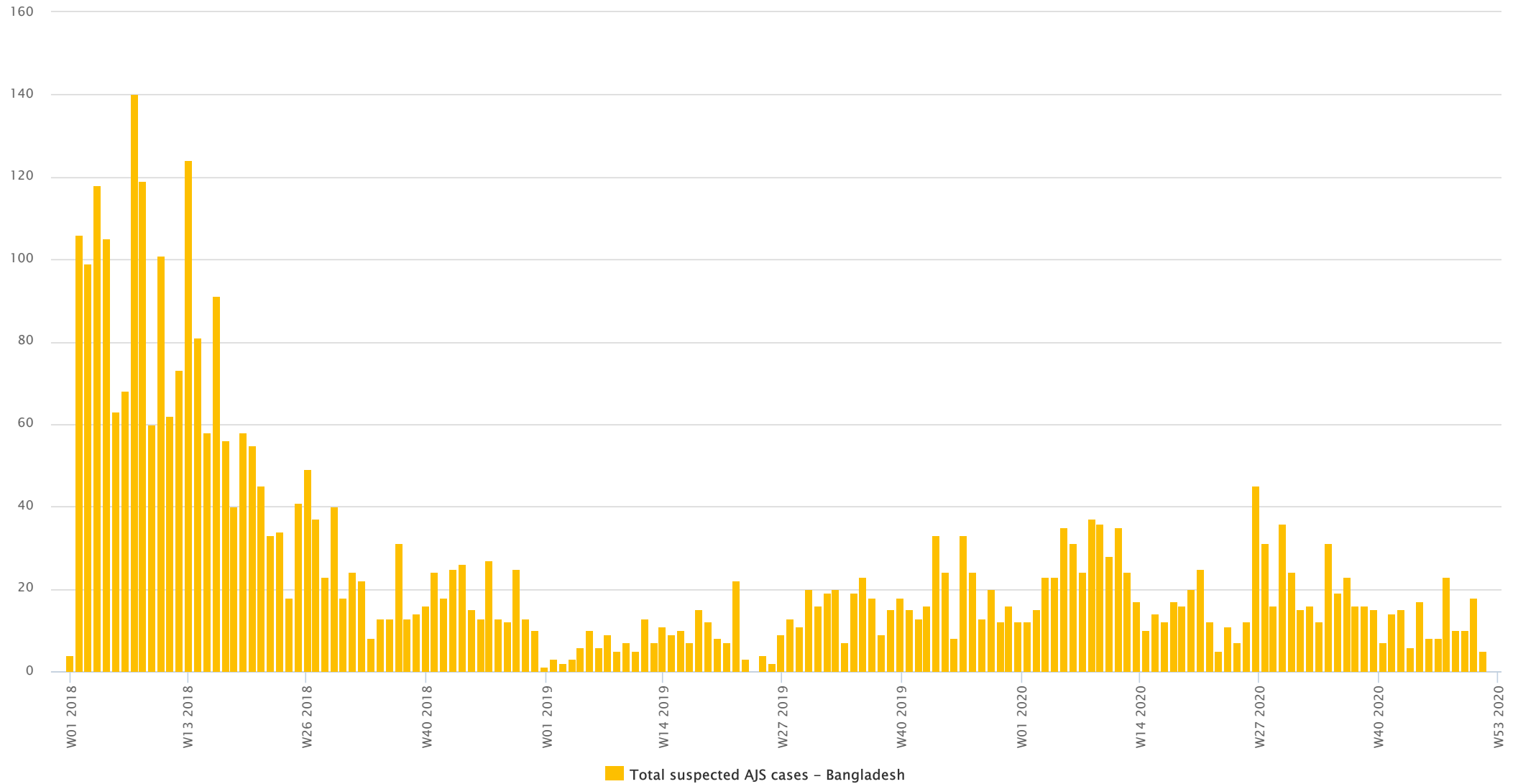
Map 3 | Map of cases by camp (W37 2017 - W51 2020)

a. Ukhia | Number of cases

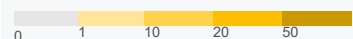**b. Ukhia** | Number of alerts

c. Teknaf | Number of cases

d. Teknaf | Number of alerts

Map legend

Number of cases

0   1   10   20   50

Number of alerts

0   1   10
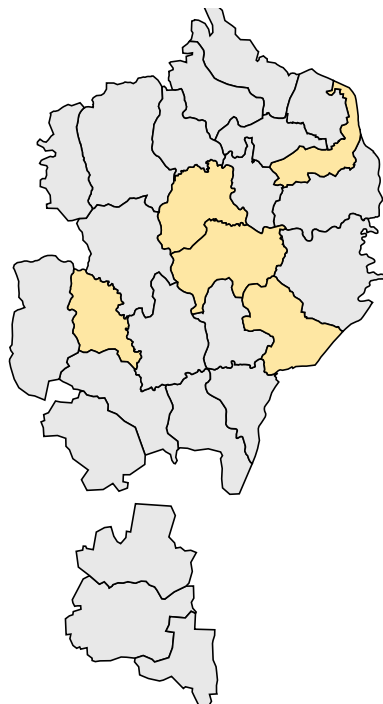
Alert threshold

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

Alert management (W51 2020)

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

Figure | % sex

Figure | % age

Female   Male   >= 5   < 5

World Health Organization

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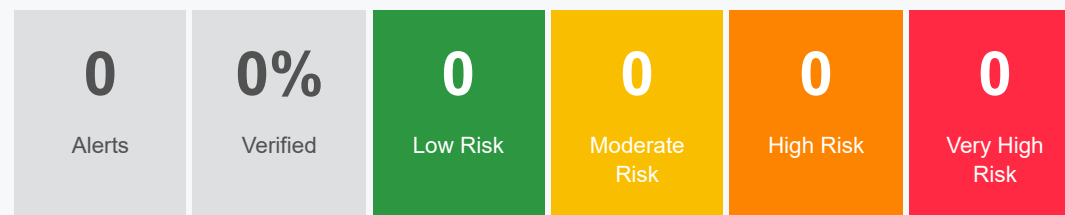
Figure 6 | Trend in number of cases over time (W38 2017 - W51 2020)
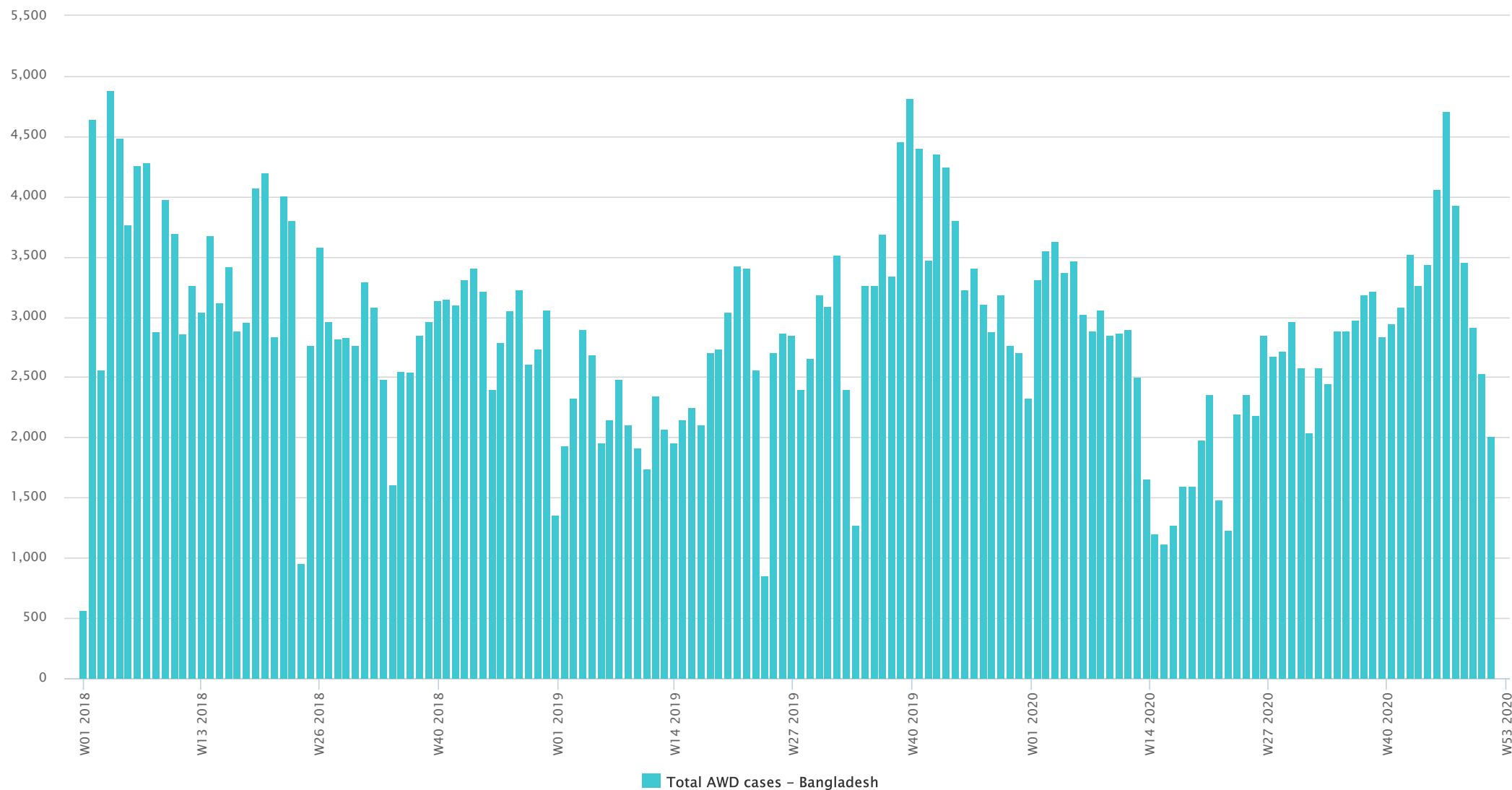
Total AWD cases – Bangladesh

World Health Organization

HEALTH SECTOR COX'S BAZAR

Figure 7 | Trend in number of cases over time (W38 2017 - W51 2020)

Total Dengue Cases – Suspected – Bangladesh   Total Dengue Cases – Confirmed – Bangladesh

Map 4 | Map of cases by camp (W37 2017 - W51 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 (W51 2020)

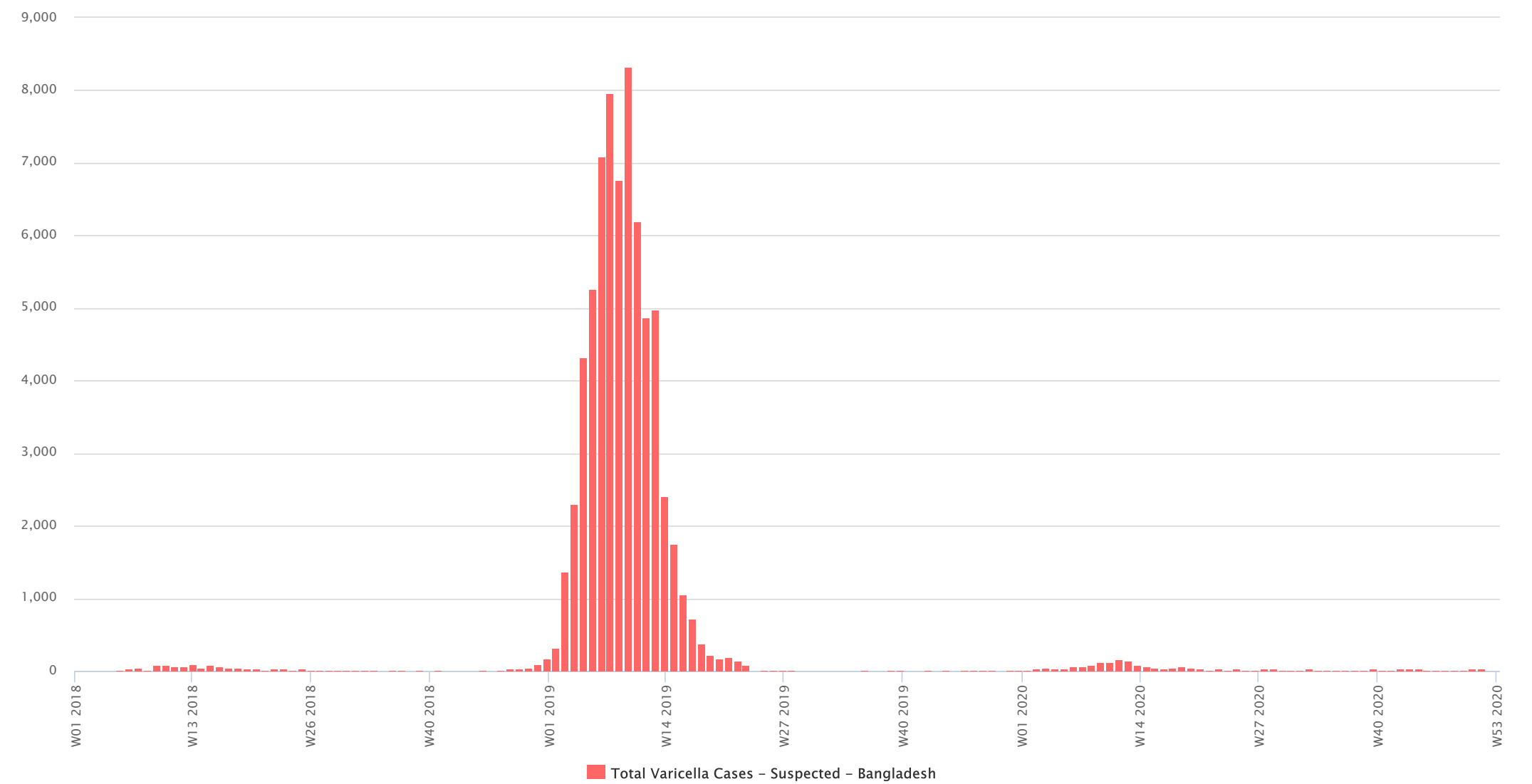| **0**	**0%**	**0**	**0**	**0**	**0**
Alerts	Verified	Low Risk	Moderate Risk	High Risk	Very High Risk

Figure | % sex   **Figure** | % age

■ Male   ■ Female   ■ >= 5   ■ < 5

World Health Organization   HEALTH SECTOR COX'S BAZAR

Varicella (Susp.) | Trends

Figure 7 | Trend in number of cases over time (W38 2017 - W51 2020)

Total Varicella Cases – Suspected – Bangladesh

World Health Organization
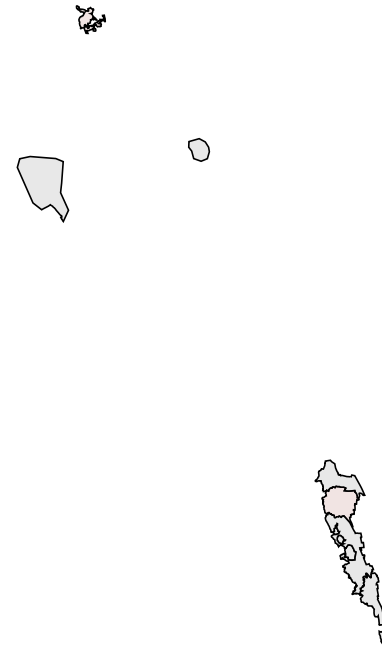
HEALTH SECTOR COX'S BAZAR
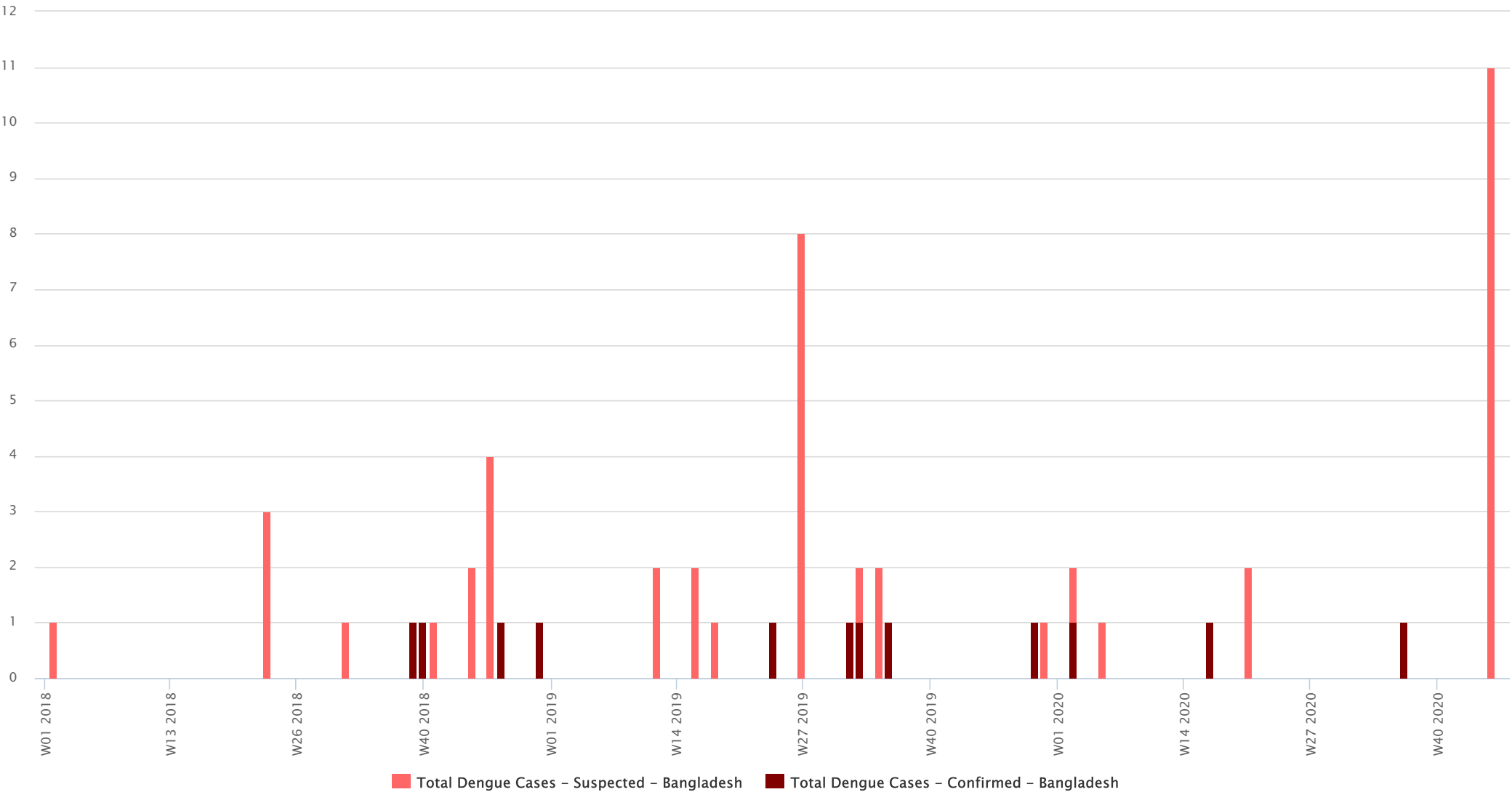
Map 4 | Map of cases by camp (W37 2017 - W51 2020)
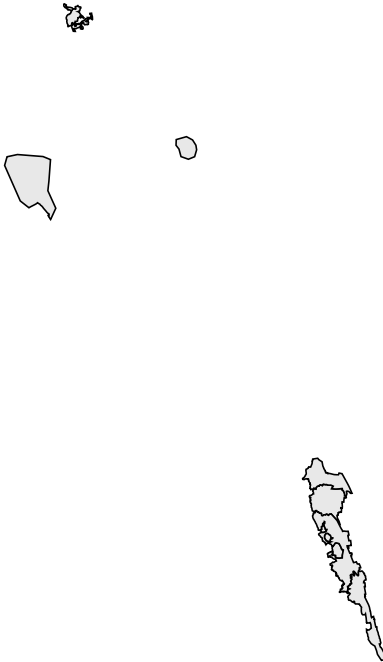
a. Ukhia | Number of cases

c. Teknaf | Number of cases
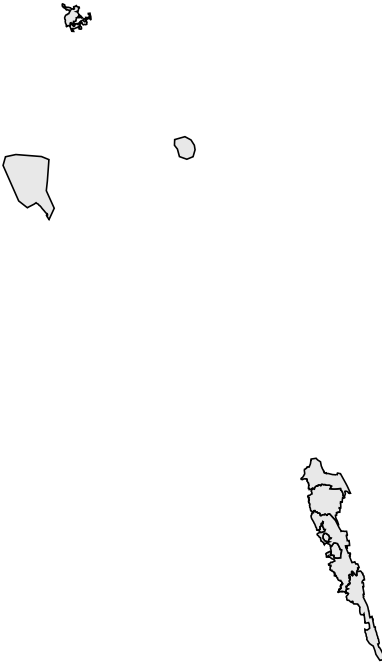
Map legend
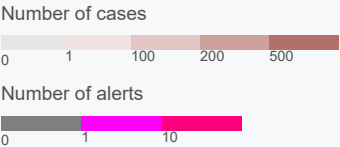
Number of cases

0   1   100   200   500
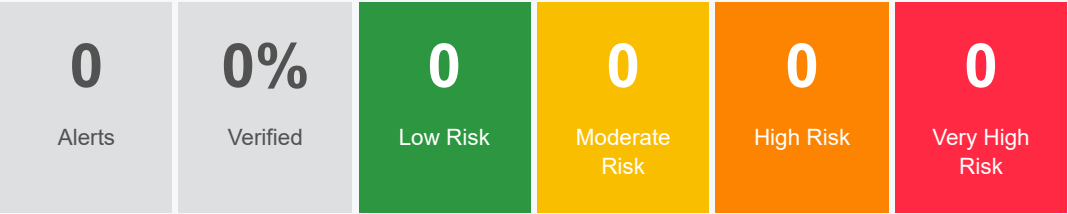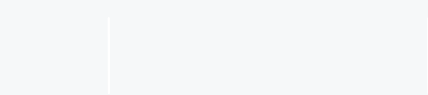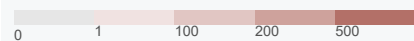
Figure | % sex

🟦 Male 🟪 Female

Figure | % age

🟫 >= 5 🟫 < 5

For more help and support, please contact:

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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

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