Global
EWARS

Epidemiological Highlights

Week 42 (12-18 October 2020)

World Health
Organization

Highlights: COVID-19

- As of (week 42) (12 - 18 October) there are 285 confirmed cases of COVID-19 (SARS-CoV-2), 12,794 samples were tested.

- This week (week 42), there have been 9 confirmed cases, 764 samples were tested, test positivity was 1.3%.

- As of this week (week 42)
  - all 34/34 camps have confirmed cases
  - a total of 9 deaths from COVID-19
  - the case fatality rate is 3.2%
  - the incidence is 33.1 per 100,000 people
 - the overall positivity of all samples tested was 2.3%.

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Highlights: COVID-19

COVID-19 positive cses (n=285) by date of test

Epidemiological Highlights
Week 42, 2020

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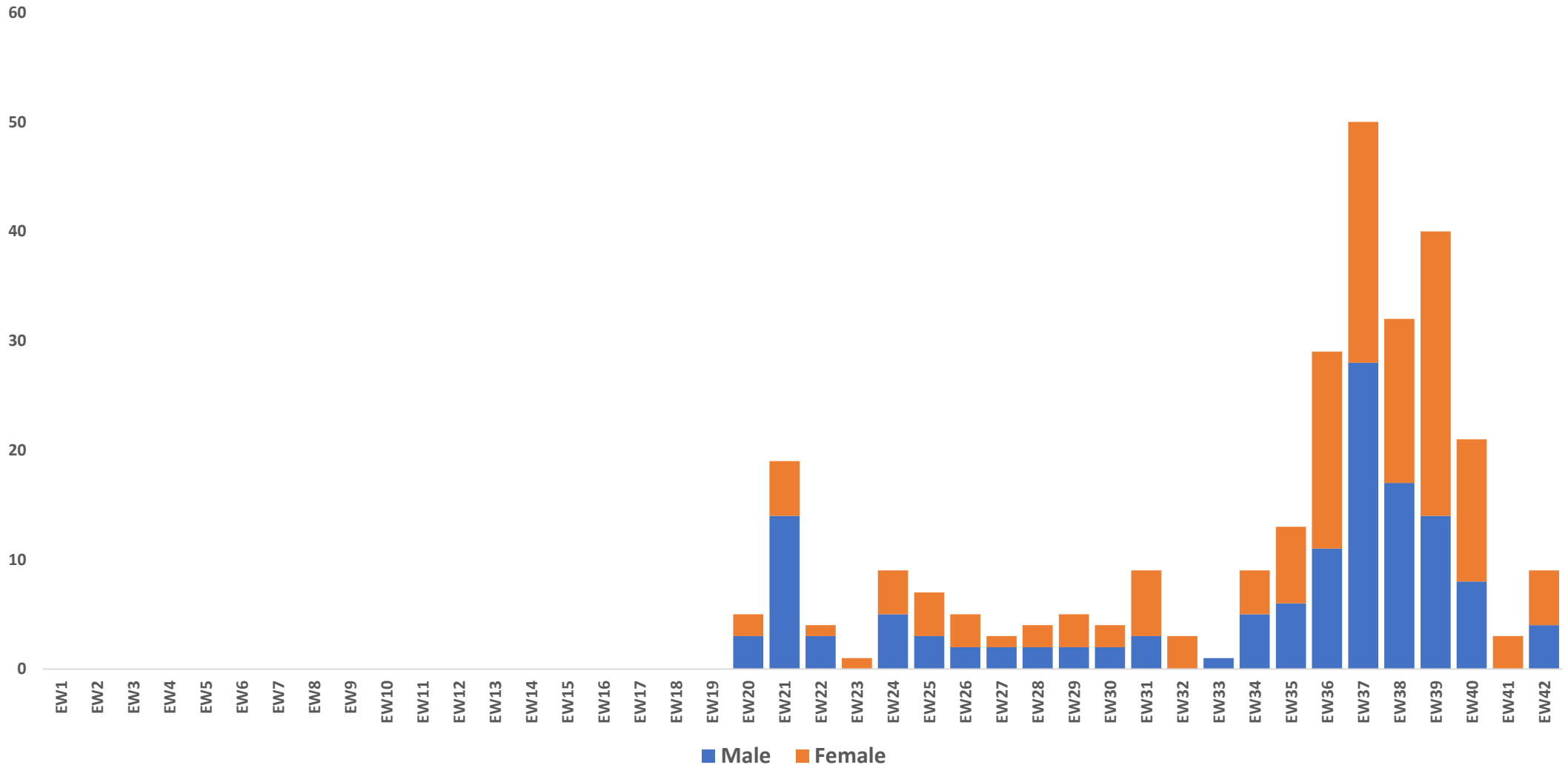
Highlights: COVID-19

COVID-19 Cases in Rohingya Camps (As of 18 October 2020)

Number of Cases
- 0 - 2
- 3 - 5
- 6 - 10
- 11 - 15
- 16 - 30
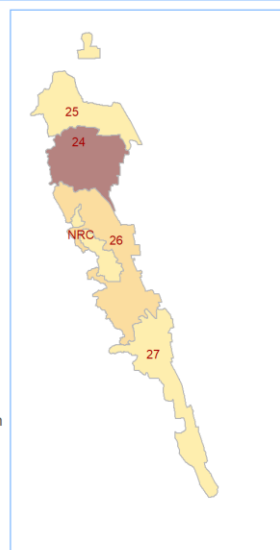- 31 - 50

Number of deaths
- 1
- 2
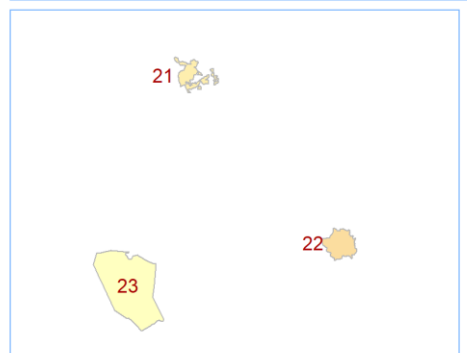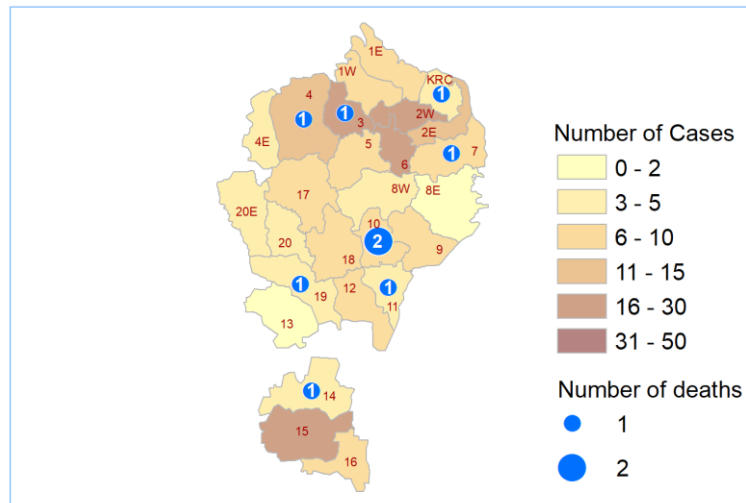
285 Confirmed cases in FDMN/Rohingya Refugee Camps

326 Confirmed cases/1 Million

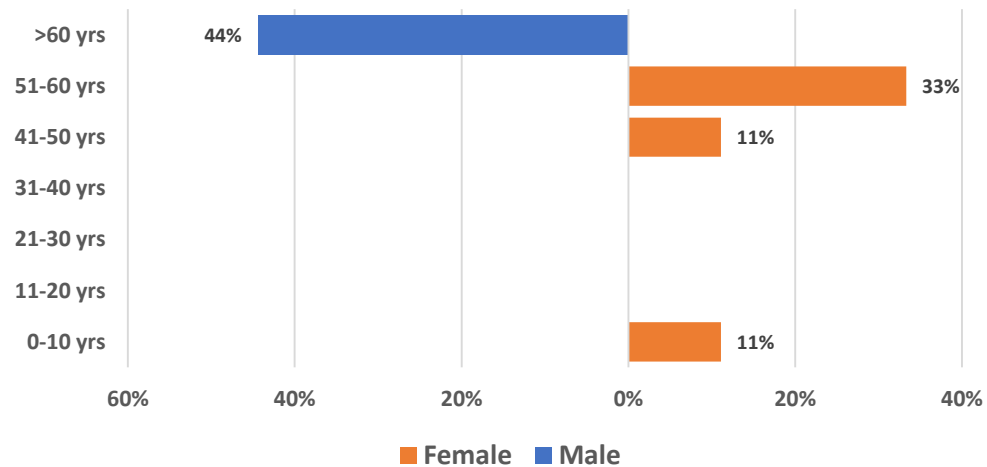**9** Deaths in FDMN/Rohingya Refugee Camps

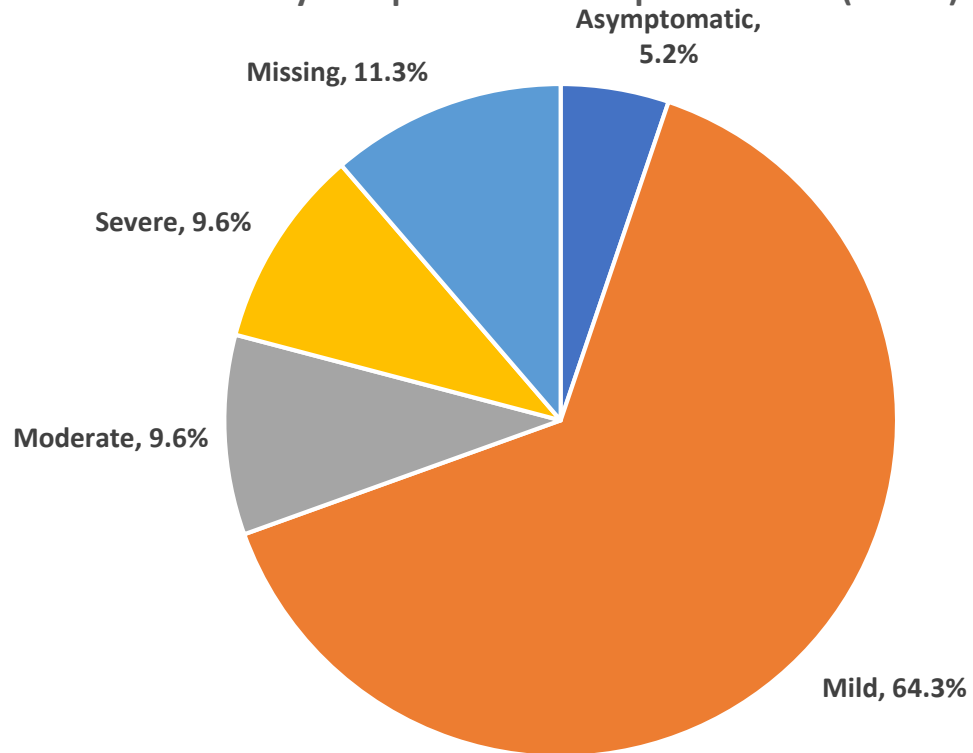**10** Deaths/1 Million

Age and sex distribution (%) (n=285)

F-53%

Age group	Male	Female
>60 yrs	4%	1%
51-60 yrs	4%	3%
41-50 yrs	1%	3%
31-40 yrs	5%	5%
21-30 yrs	9%	13%
11-20 yrs	8%	9%
0-10 yrs	17%	19%

■ Female ■ Male
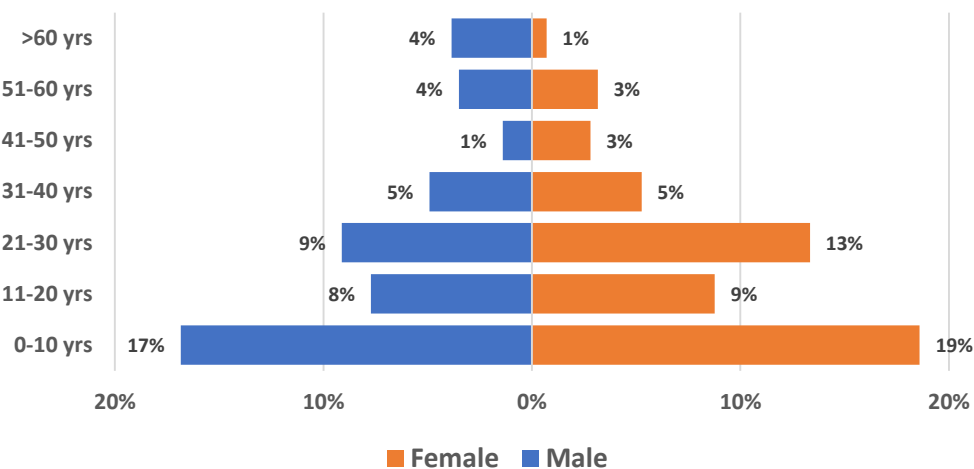
Deaths by age and sex (%) (n=9)

F-56%

Age group	Male	Female
>60 yrs	44%	
51-60 yrs		33%
41-50 yrs		11%
31-40 yrs		
21-30 yrs		
11-20 yrs		
0-10 yrs		11%

■ Female ■ Male

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Highlights: COVID-19

Severity of reported cases at presentation (n=240)

- Asymptomatic, 5.2%
- Missing, 11.3%
- Severe, 9.6%
- Moderate, 9.6%
- Mild, 64.3%

Patient outcome (n=240)

- Missing, 20.4%
- Alive, 31.3%
- Dead, 3.0%
- Recovered, 45.2%

Source: Go.Data

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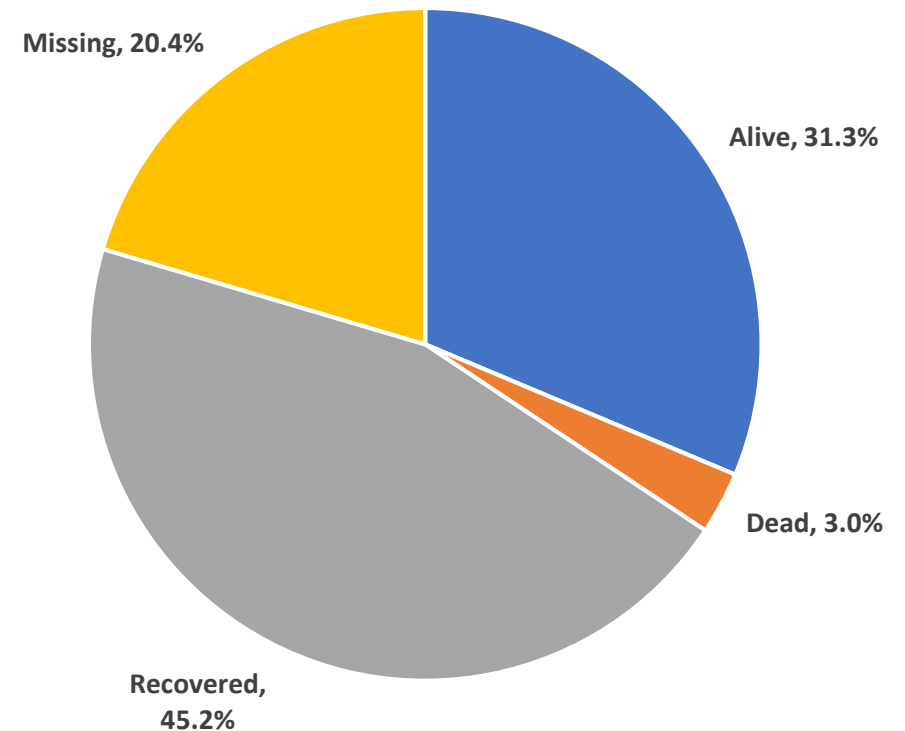
COVID-19

Share of positive test and it's 14-days moving average (n=285)

--- Share of positive test   ——— 14-day moving average of share of positive test

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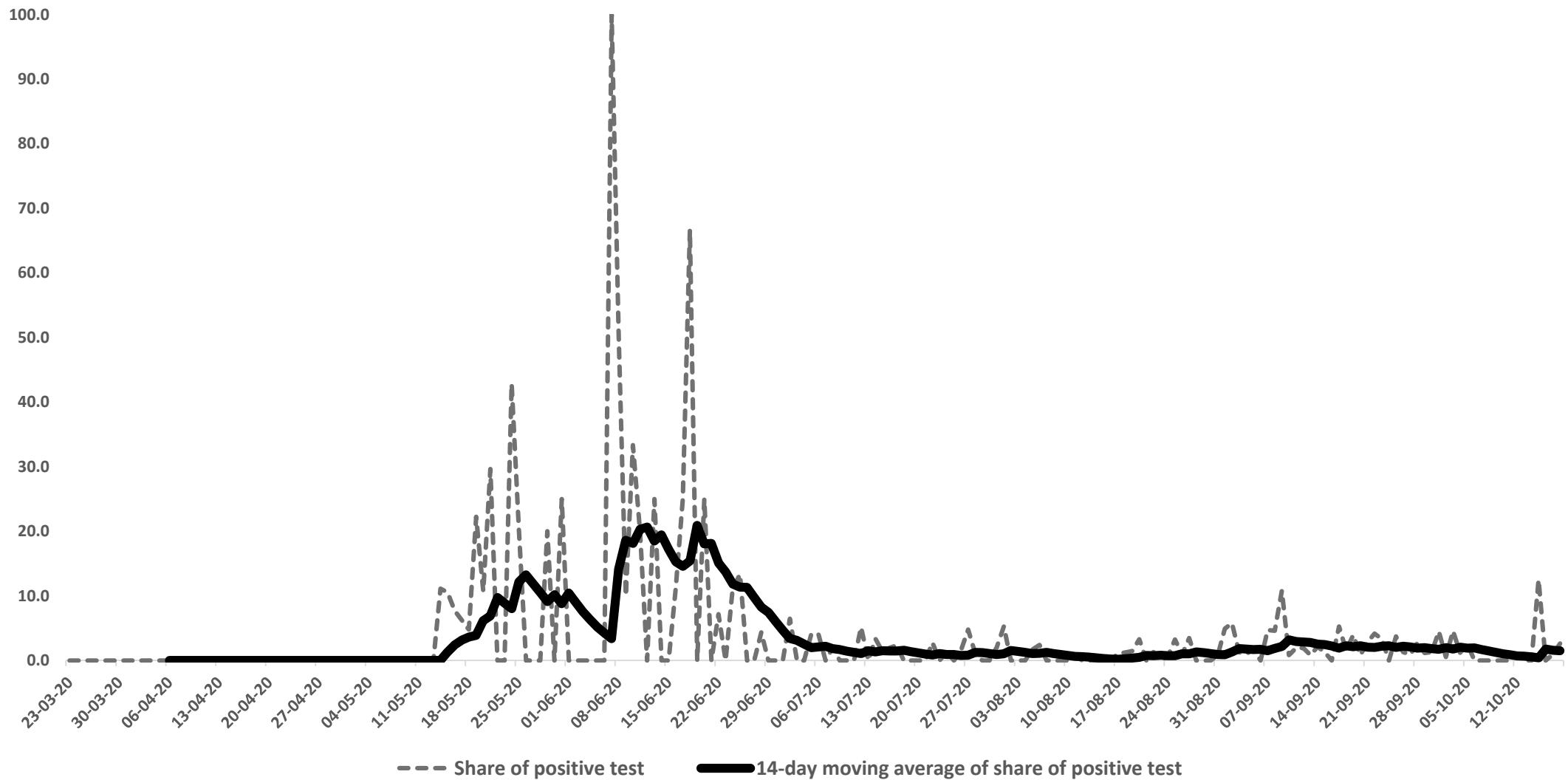
Highlights:

- Acute Respiratory Infection (13.6%), Diarrheal Diseases (6.9%) & Unexplained Fever (1.2%) are the diseases with highest proportional morbidity in week 42

- Number of consultations are showed decreasing trend in last 4 weeks.

- Community-based mortality surveillance included SARI death in weekly reporting since week 28 and the reporting frequency changed since then from bi-weekly. Twelve (12) SARI death has been reported so far.

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EWARS Reporting Updates

- Total 145/166 (87%) health facilities registered in EWARS

- Only 139/145 weekly reports received in week 42.

- Completeness and Timeliness for this week is 91%.

- Total 62 alerts were triggered in week 42.

- All alerts were reviewed and verified by WHO EWARS team which is more than as of previous week (37 in week 41).

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Diphtheria

No suspected diphtheria case reported in go.data in week 42

A total of 9 163 case-patients were reported since 2017 to till date
- Confirmed = 329
- Probable = 2785
- Suspected = 6049
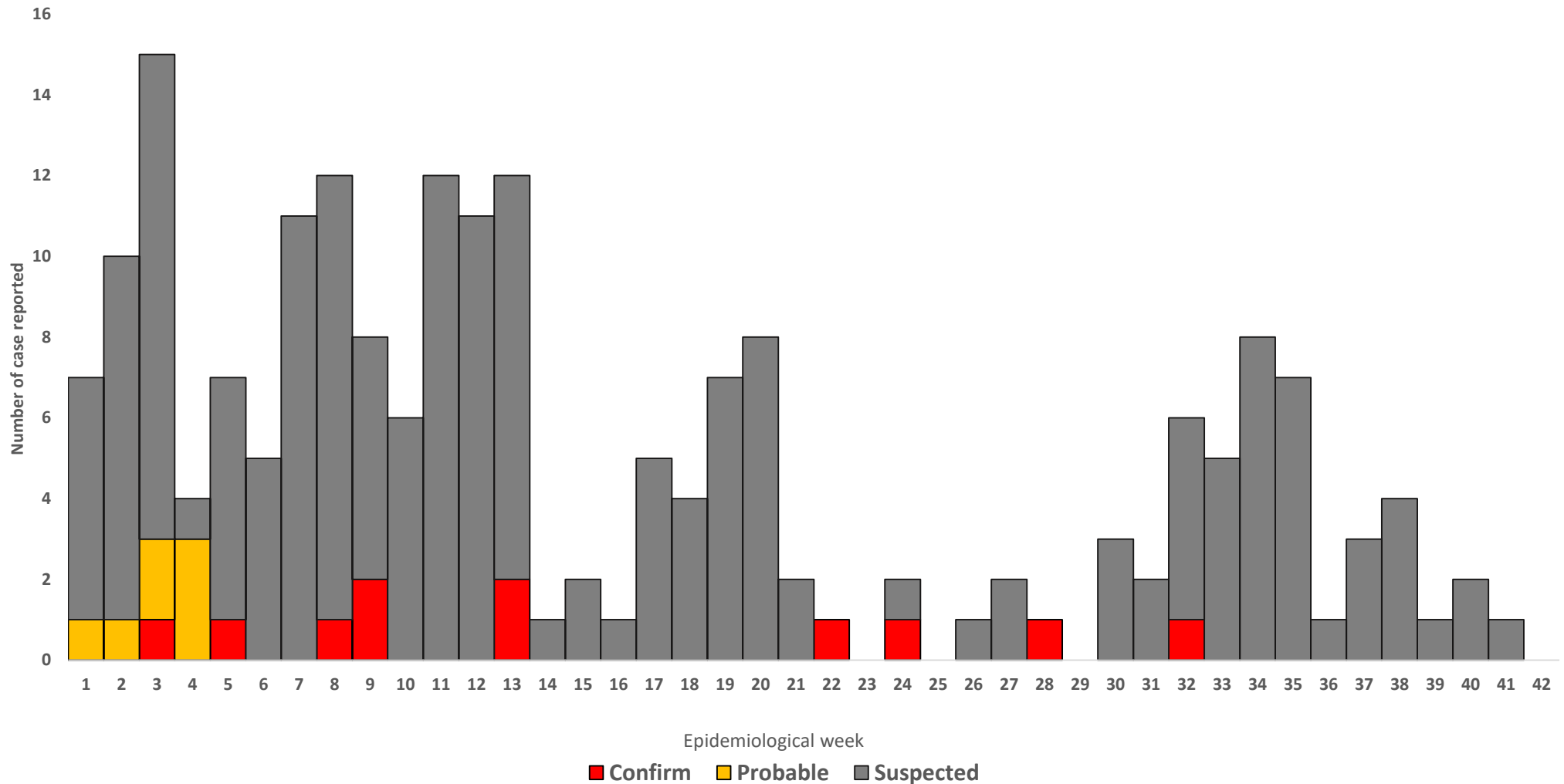
Total Case reported in 2020 = 200
- Confirmed = 11
- Probable = 7
- Suspected = 182

Last confirmed case was reported in Week 33 (20 August 2020)

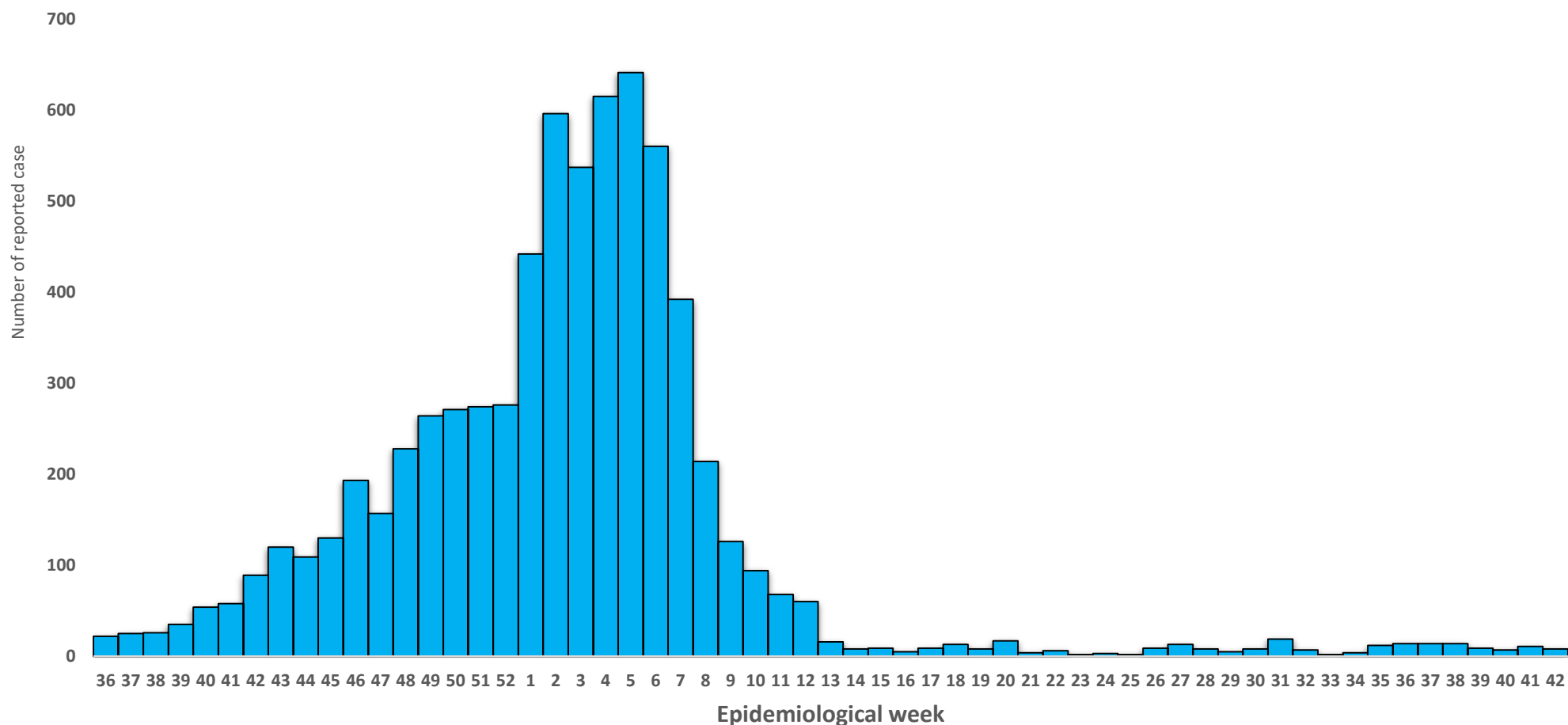Total deaths reported is 47. Last death was reported on 25 October 2019

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Diphtheria

Total number of diphtheria case reported in EWARS from week 1-42, 2020

Epidemiological Highlights
Week 42, **2020**

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Measles

Total number of Measles case reported in EWARS from week 36, 2019 to week 42, 2020

Total 08 suspected measles cases were reported through aggregated weekly reporting in EWARS in week 42. Aggregated weekly report showed 4,549 and individual case report (CRF) found 2,531 (56%) in 2020.

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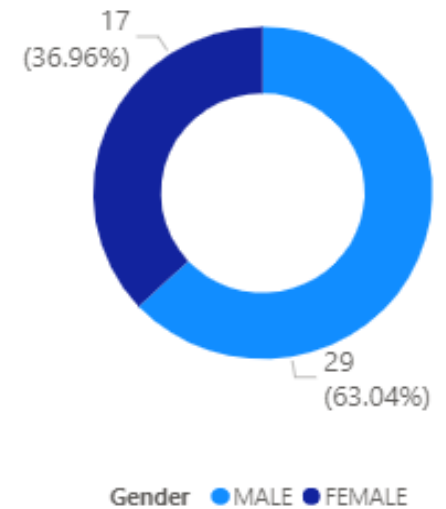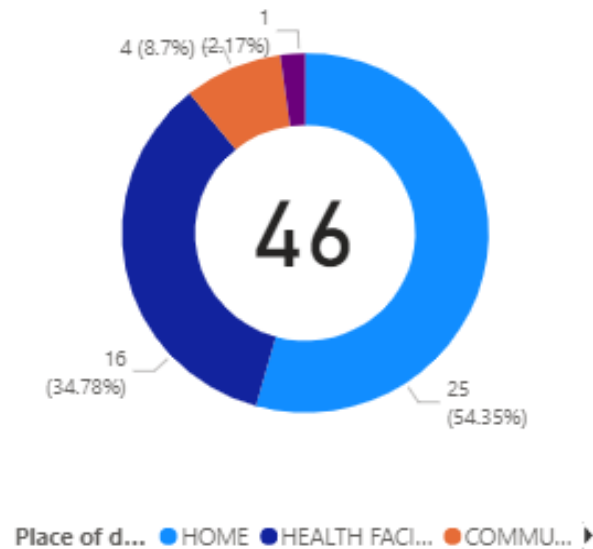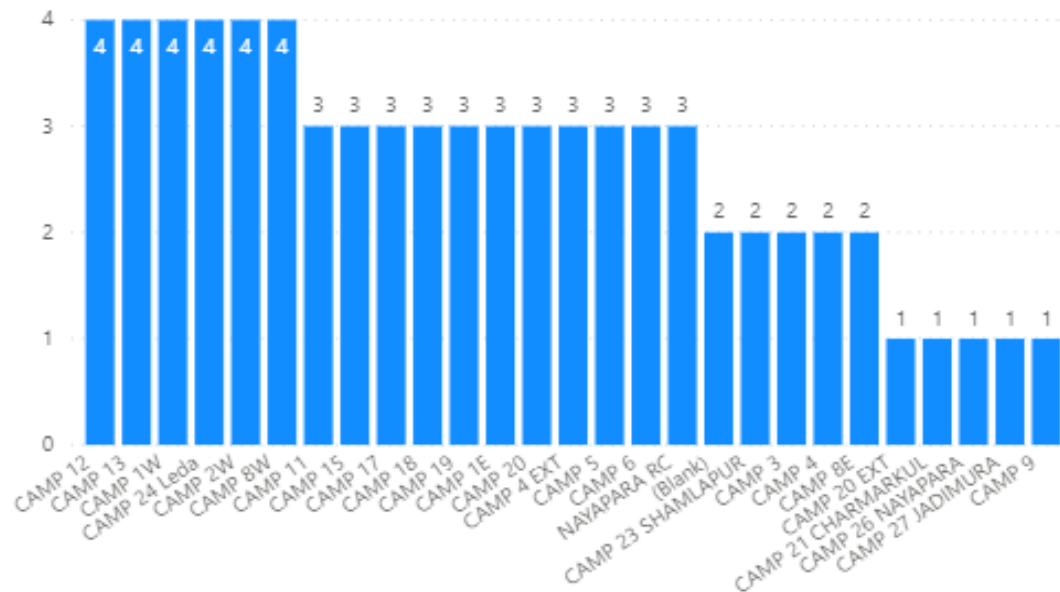World Health
Organization

Diarrhoeal Disease

- A total of 5,103 cases of diarrhoeal diseases reported in EWARS in week 42.

- Among which 3,347 cases (4.5%) reported as acute watery diarrhoea (AWD), 1,392 (1.5%) and 364 (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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Community-based Mortality surveillance

- In week 42 total of 46 deaths were recorded, 67% (n=31) were due to causes classified as "Others", 20% (n=9) as Neonatal (<28 days old), 7% (n=3) as Injury, 4% (n=2) as Still birth (Born Dead), and 2% (n=1) as Infectious Disease.

- 34.8% of deaths reported in the health facility 54.4% of deaths reported in homes and 8.7% 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

Place of d... ● HOME ● HEALTH FACI... ● COMMU... ▶

Gender ● MALE ● FEMALE

Probable cause of deaths (n=46)
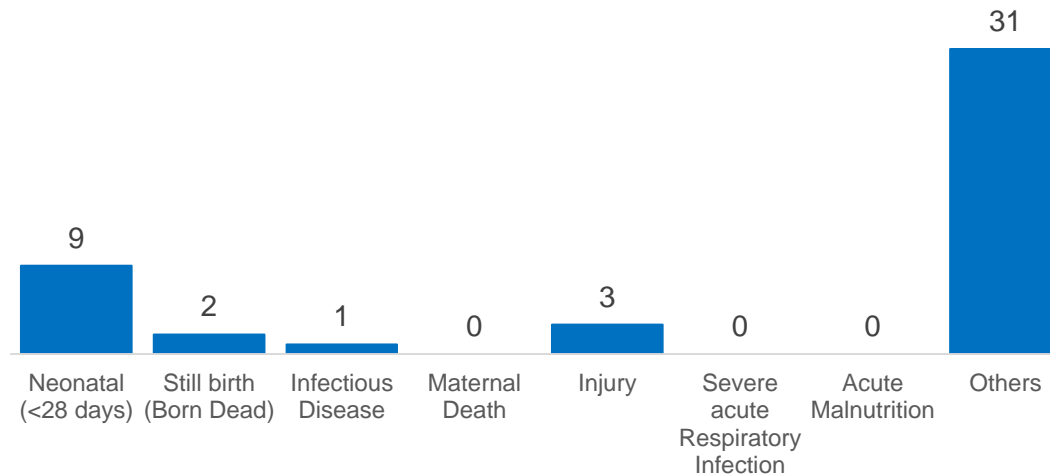
Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W42 2020

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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Highlights W42 2020

Table 1 | Coverage

#	%	
854,704	-	Estimated total Rohingya population[1]
854,704	100%	Total population under surveillance
166	-	Total number of health facilities
145	87%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W42	Cumulative (2020)	
139	5816	Number of weekly reports received
91%	88%	Completeness
91%	81%	Timeliness

Table 3 Alert performance indicators

W42	Cumulative (2020)	
62	2,612	Total alerts raised
97%	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
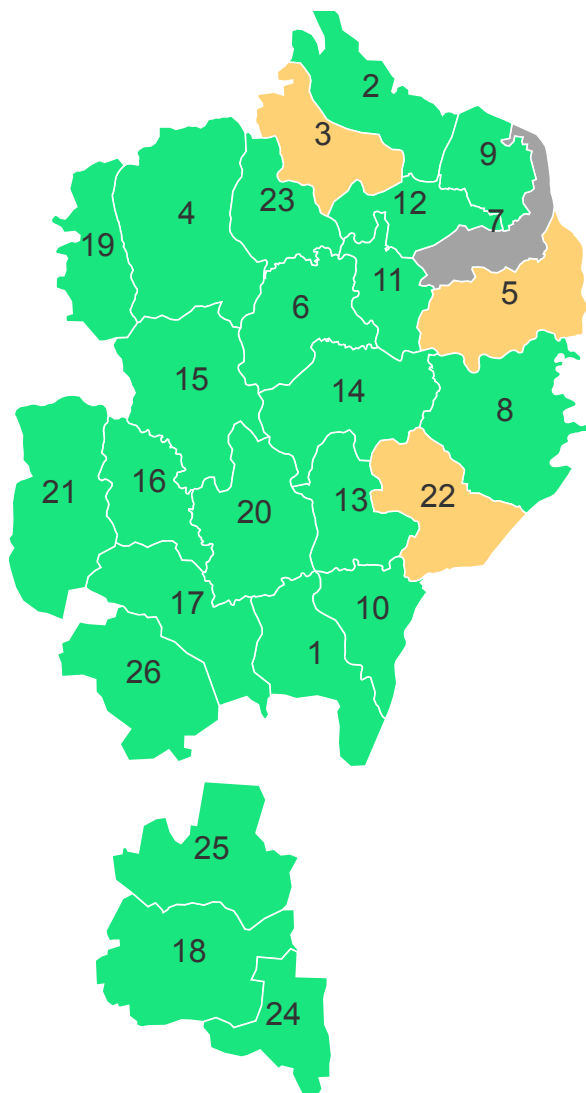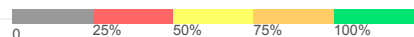
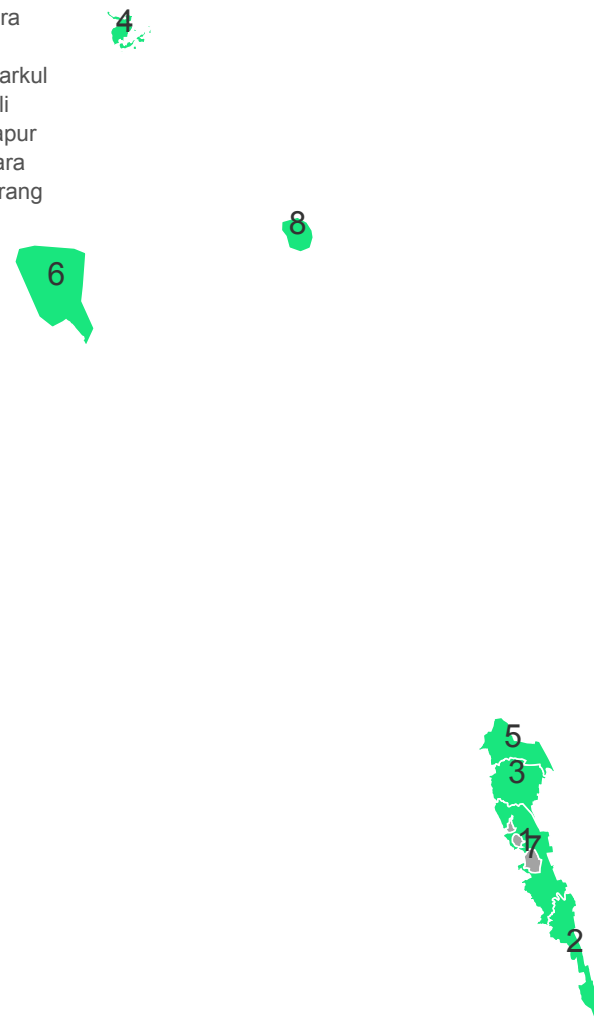## Map 1b | Teknaf completeness by camp

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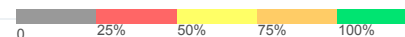7 Camp 26 Nayapara
8 Camp 22 Unchiprang

Completeness

0   25%   50%   75%   100%

Completeness

0   25%   50%   75%   100%

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Table 4 | Performance by camp (W42 2020)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 1E	4	4	100%	100%
Camp 1W	3	2	67%	67%
Camp 2E	1	0	0%	0%
Camp 2W	2	2	100%	100%
Camp 3	6	6	100%	100%
Camp 4	6	6	100%	100%
Camp 4 Ext	1	1	100%	100%
Camp 5	5	4	80%	80%
Camp 6	2	2	100%	100%
Camp 7	6	4	67%	67%
Camp 8E	7	7	100%	100%
Camp 8W	6	6	100%	100%
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
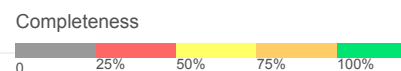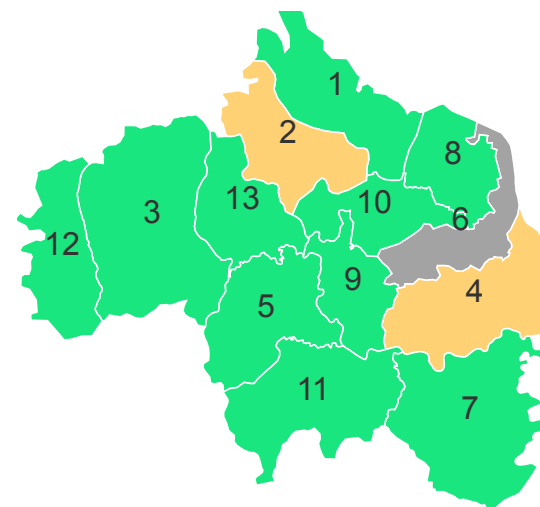9 Camp 6
10 Camp 2W
11 Camp 8W
12 Camp 4 Ext
13 Camp 3

Completeness

0   25%   50%   75%   100%

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Table 5 | Performance by camp (W42 2020)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 10	4	4	100%	100%
Camp 11	9	9	100%	100%
Camp 12	6	7	100%	100%
Camp 13	9	8	89%	89%
Camp 14	6	6	100%	100%
Camp 15	10	9	100%	100%
Camp 16	5	4	80%	80%
Camp 17	5	5	100%	100%
Camp 18	5	6	100%	100%
Camp 19	5	5	100%	100%
Camp 20	3	3	100%	100%
Camp 20 Ext	2	2	100%	100%
Camp 9	7	3	50%	50%

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
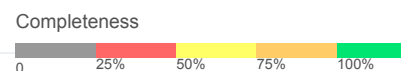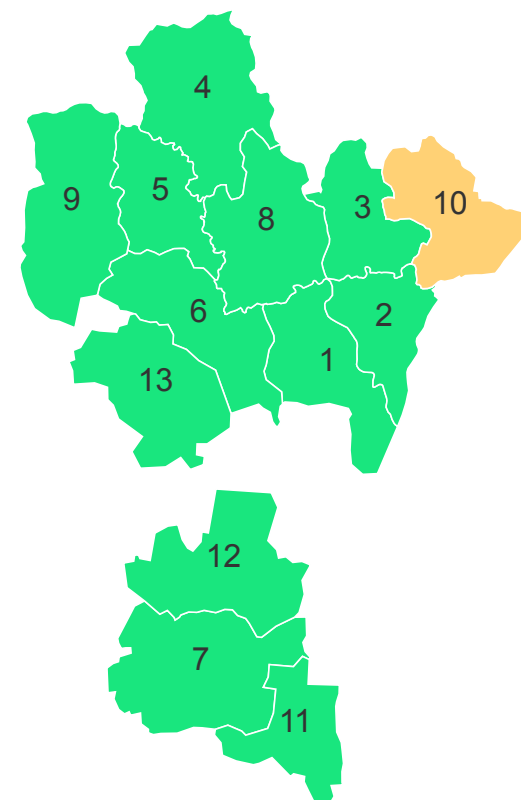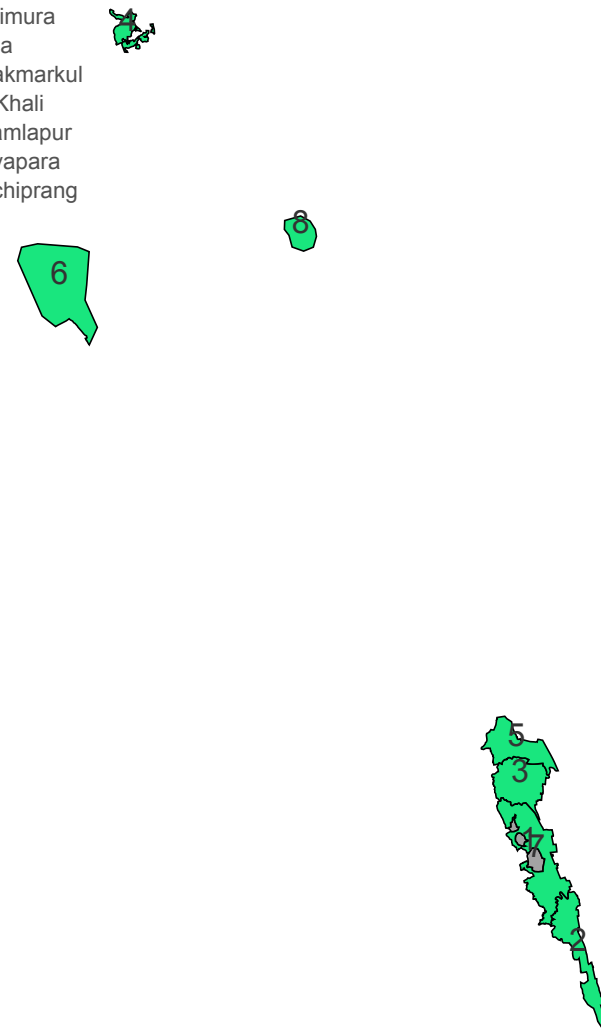9 Camp 20 Ext
10 Camp 9
11 Camp 16
12 Camp 14
13 Camp 13

Completeness

| 0 | 25% | 50% | 75% | 100% |

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Table 6 | Performance by camp (W42 2020)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 21 Chakmarkul	4	4	100%	100%
Camp 22 Unchiprang	5	3	75%	75%
Camp 23 Shamlapur	4	3	100%	100%
Camp 24 Leda	1	1	100%	100%
Camp 25 Ali Khali	3	3	100%	100%
Camp 26 Nayapara	3	3	100%	100%
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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Early Warning | Partner performance

Table 7 | Performance by partner (W42 2020)

Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
BDRCS	9	9	100%	100%	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	9	100%	100%	RTMI	9	9	100%	100%
HMBDF	1	1	100%	100%	SCI	9	9	100%	100%
IOM	21	17	81%	81%	TdH	1	1	100%	100%
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%					

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Table 8 | Performance by camp

Northern group	W42		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 1E	0	0%	62	100%
Camp 1W	3	100%	52	100%
Camp 2E	0	0%	57	100%
Camp 2W	2	100%	58	100%
Camp 3	4	100%	200	100%
Camp 4	4	100%	155	100%
Camp 4 Ext	1	100%	24	100%
Camp 5	3	100%	134	100%
Camp 6	2	100%	30	100%
Camp 7	1	100%	53	100%
Camp 8E	0	0%	34	100%
Camp 8W	4	100%	124	100%
Kutupalong RC	0	0%	18	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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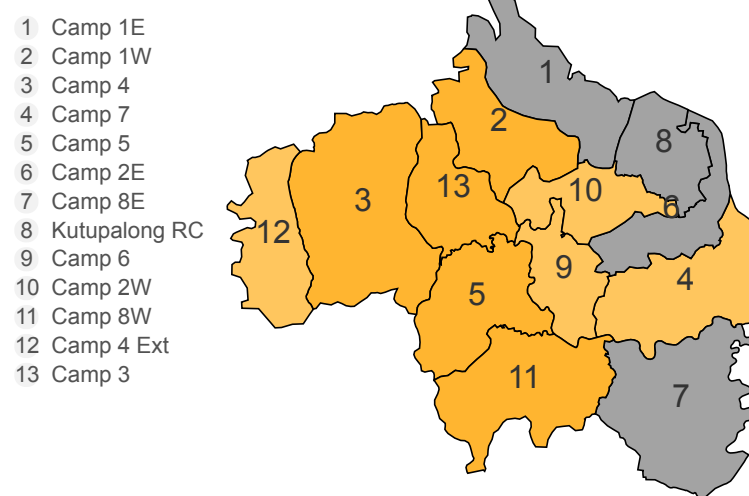
Table 9 | Performance by camp

Southern group	W42		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 10	0	0%	82	100%
Camp 11	3	100%	110	100%
Camp 12	4	100%	134	100%
Camp 13	3	100%	162	100%
Camp 14	0	0%	74	100%
Camp 15	3	100%	119	100%
Camp 16	1	100%	108	100%
Camp 17	4	100%	83	100%
Camp 18	3	100%	86	100%
Camp 19	2	100%	94	100%
Camp 20	4	75%	61	98%
Camp 20 Ext	0	0%	16	100%
Camp 9	3	100%	111	100%

Map 6 | Number of alerts 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

# of alerts

0   2   5   10

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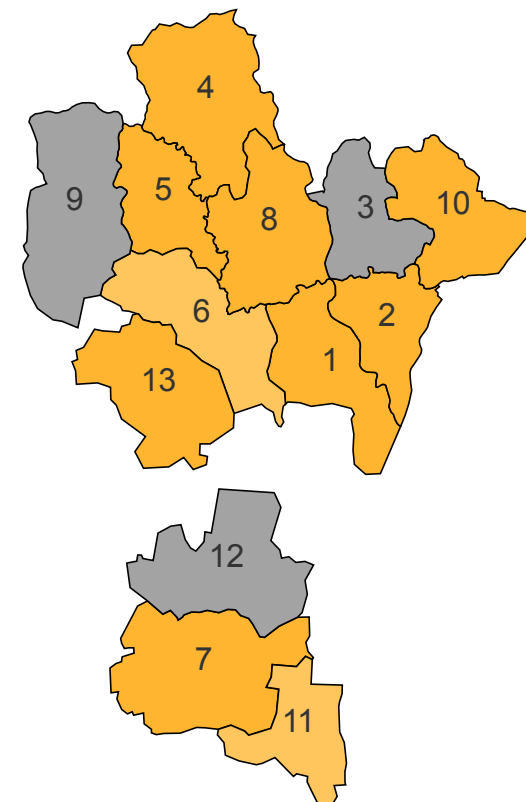
Table 10 | Performance by camp

Teknaf	W42		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 21 Chakmarkul	2	100%	52	100%
Camp 22 Unchiprang	1	100%	32	100%
Camp 23 Shamlapur	3	100%	53	100%
Camp 24 Leda	0	0%	19	100%
Camp 25 Ali Khali	0	0%	24	100%
Camp 26 Nayapara	0	0%	45	100%
Camp 27 Jadimura	0	0%	15	100%
Nayapara RC	0	0%	26	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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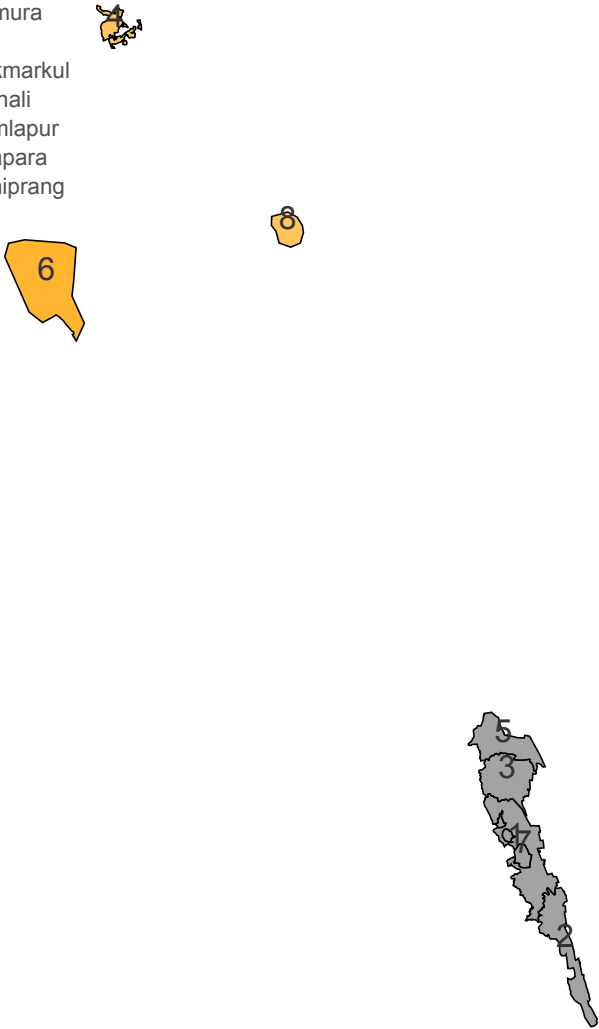
Table 11 | Performance by type of alert

Event	W42		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	6	100%	790	100%
Bloody Diarr.	0	0%	0	0%
AFP	1	0%	13	92%
Meningitis	1	100%	17	100%
Haem. fever (susp.)	0	0%	9	100%
NNT	0	0%	2	100%
Unexp. fever	2	100%	209	100%
AWD	9	100%	271	100%
ARI	4	100%	277	100%
AJS	2	100%	106	100%
Varicella (Susp.)	0	0%	12	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	1	100%	174	100%

Table 12 | Risk assessment

W42	Cumulative (2020)	
0	4	Low risk
0	1	Moderate risk
0	0	High risk
0	0	Very high risk

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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

World Health Organization

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Global EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W42 2020

Ministry of Health and Family Welfare Bangladesh

World Health Organization

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Proportional morbidity

Figure 1 | Proportional morbidity (W42 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)
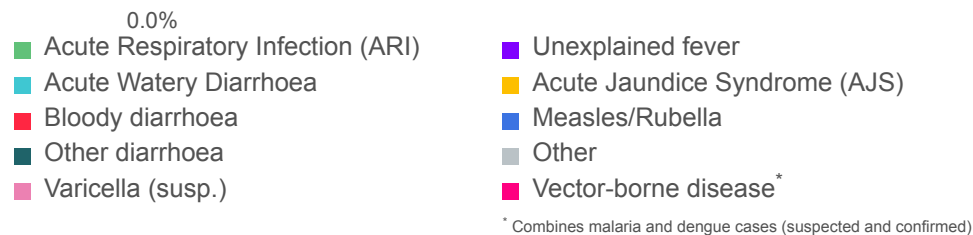
Disease	W42		2020	
	# cases	% morbidity	# cases	% morbidity
AWD	3,347	4.5%	106,786	4.4%
Bloody diarr.	364	0.5%	13,031	0.5%
Other diarr.	1,392	1.9%	39,427	1.6%
Susp. Varicella	18	0.0%	1,729	0.1%
ARI	10,136	13.6%	487,576	20.3%
Measles/Rub.	8	0.0%	4,549	0.2%
AFP	0	0.0%	11	0.0%
Susp. menin.	2	0.0%	60	0.0%
AJS	13	0.0%	838	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.)	1	0.0%	8	0.0%
Malaria (susp.)	0	0.0%	3,502	0.1%
Dengue (conf.)	0	0.0%	2	0.0%
Dengue (susp.)	0	0.0%	4	0.0%
Unexpl. fever	914	1.2%	47,984	2.0%
Sev. Malnut.	36	0.0%	1,009	0.0%
Inj./Wounds	1,795	2.4%	62,271	2.6%
Other	56,674	75.8%	1,636,732	68.0%
Total	**73,805**	**100%**	**2,406,384**	**100%**

World Health Organization   HEALTH SECTOR COX'S BAZAR

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W42)

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)

World Health Organization

HEALTH SECTOR COX'S BAZAR
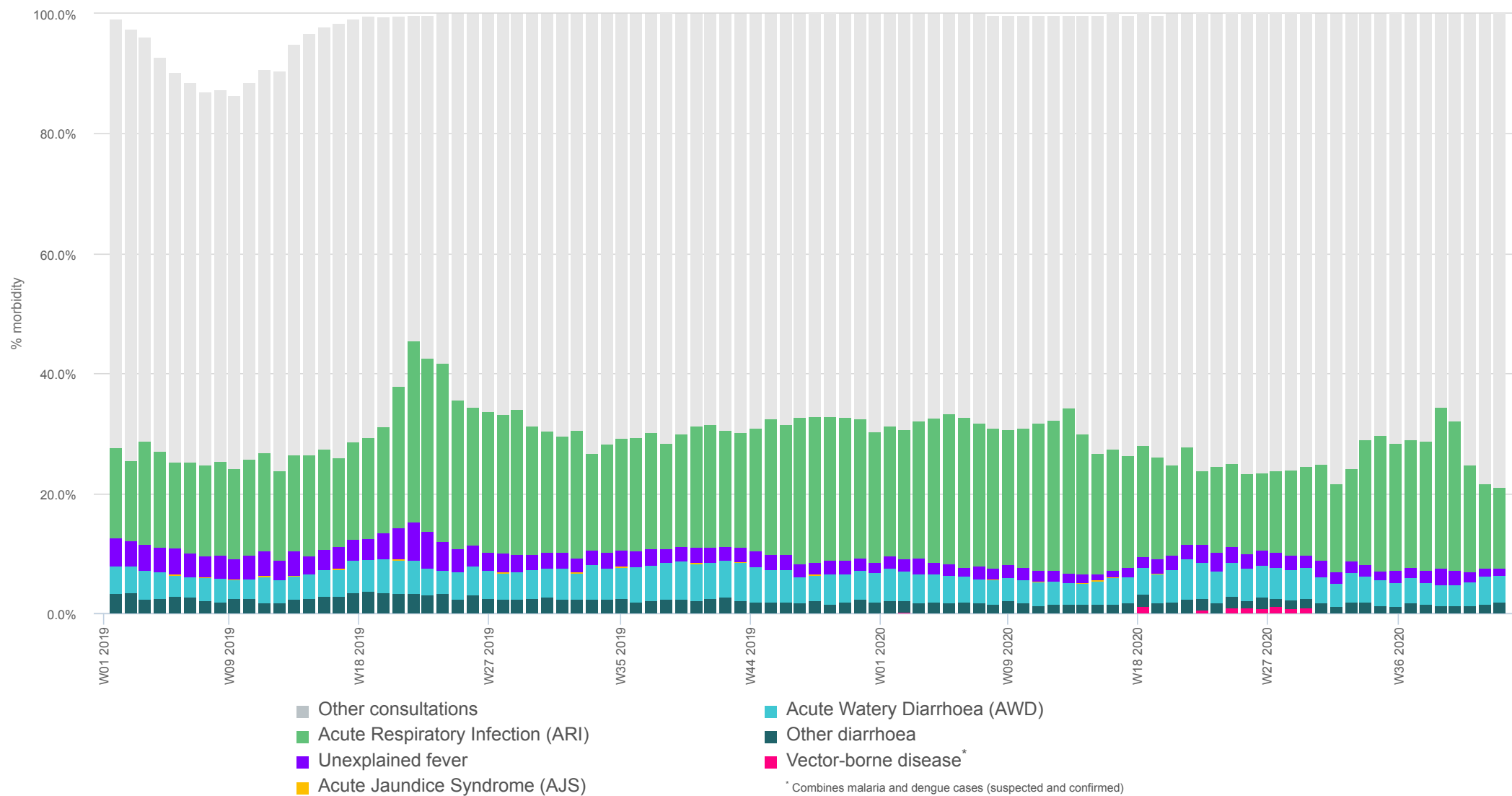
Figure 3 | Trend in number of cases over time (W38 2017 - W42 2020)
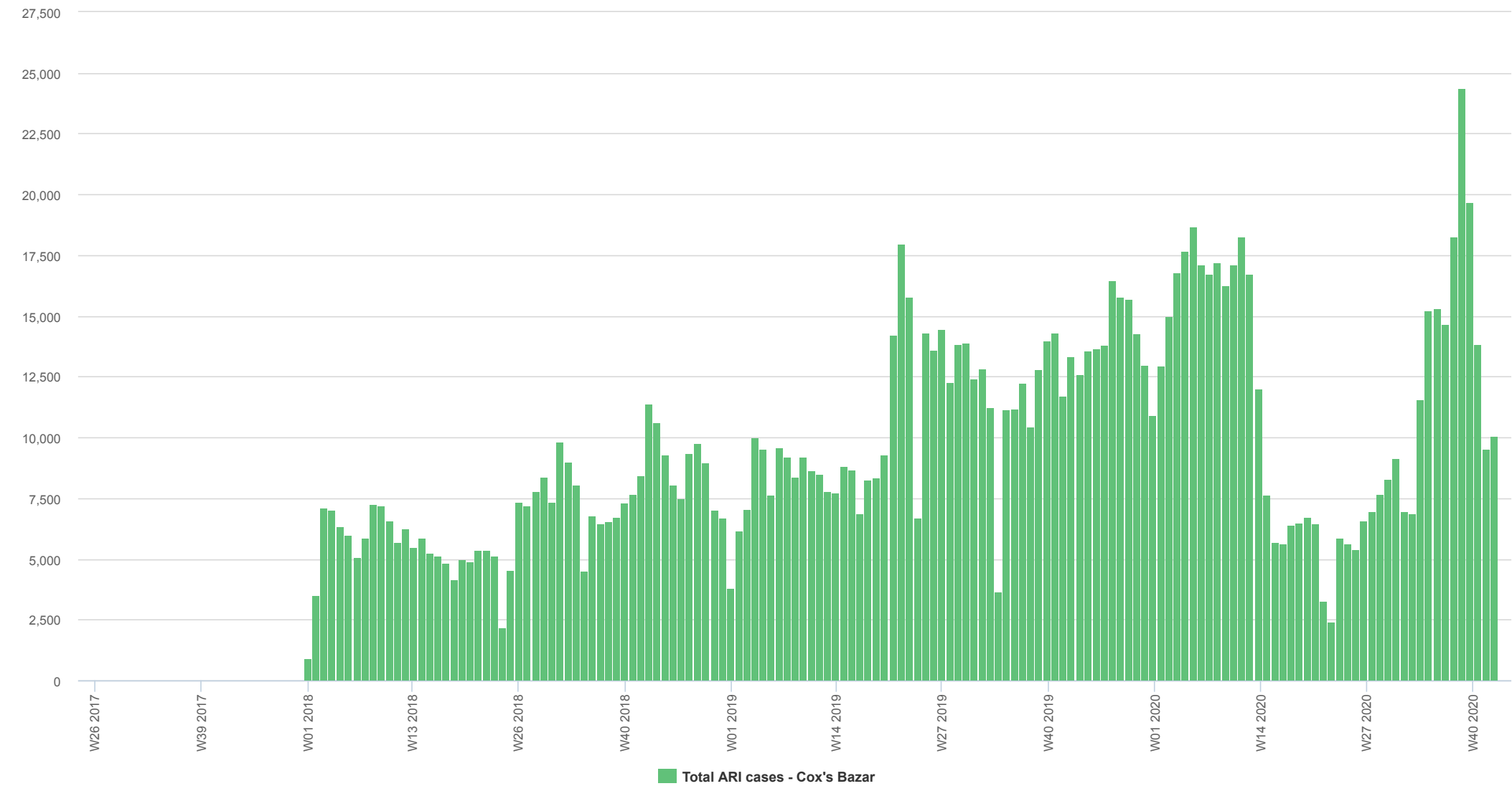
Total ARI cases - Cox's Bazar

World Health Organization
HEALTH SECTOR COX'S BAZAR

Acute Respiratory Infection | Maps and Alert Management

Map 1 | Map of cases by camp (W42 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 (W42 2020)

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

Figure | % sex

- Male
- Female

Figure | % age

- >=5
- < 5

World Health Organization

HEALTH SECTOR COX'S BAZAR
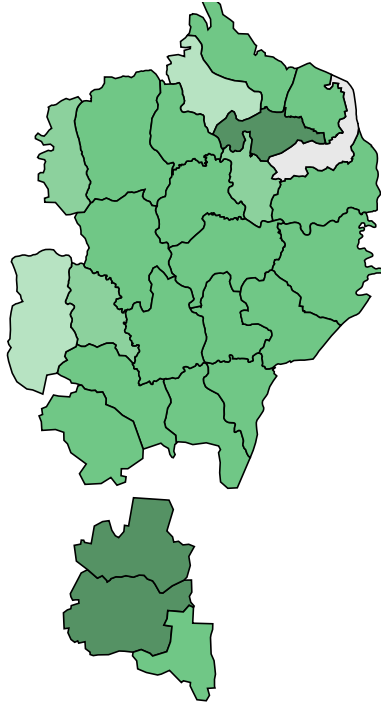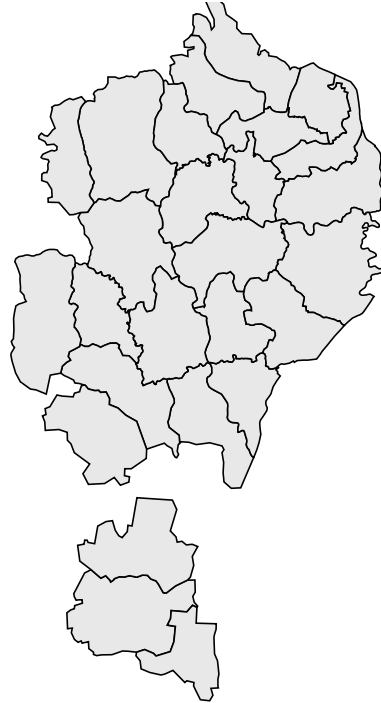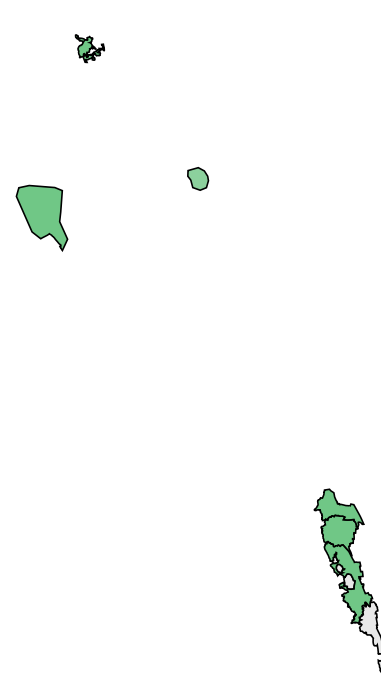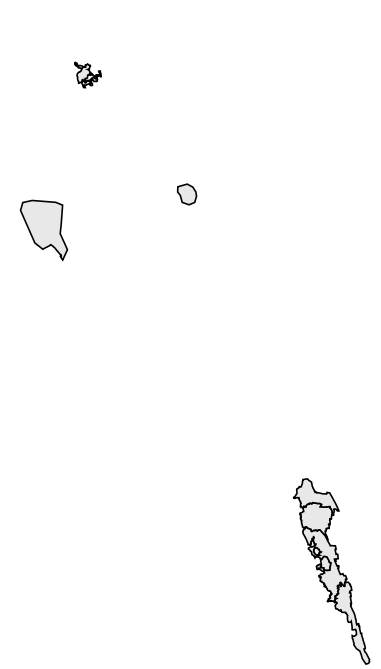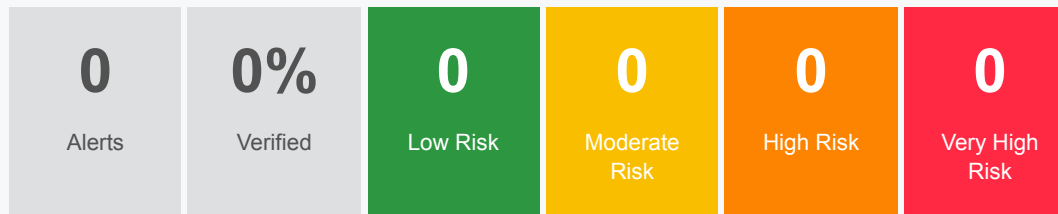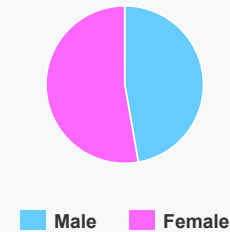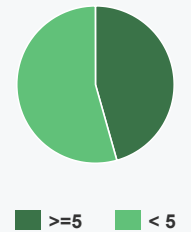
Figure 4 | Trend in number of suspected cases over time (W38 2017 - W42 2020)
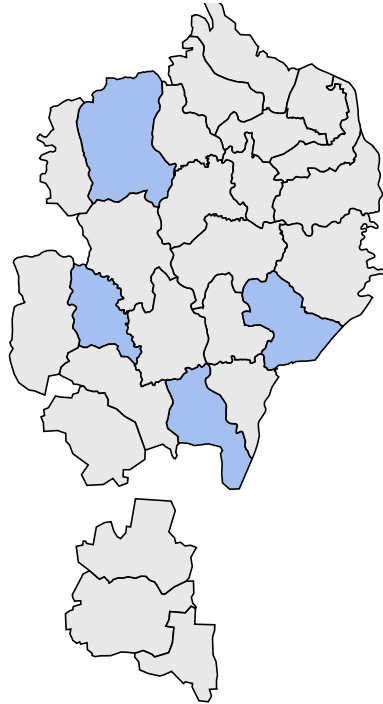
Total suspected measles/rubella cases - Cox's Bazar

World Health Organization

HEALTH SECTOR COX'S BAZAR

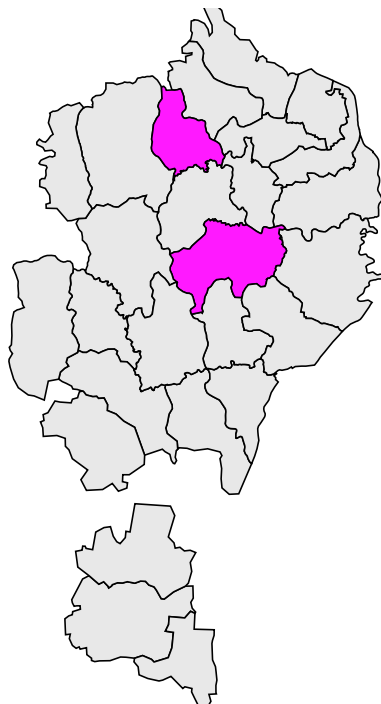# Measles | Maps and Alert Management

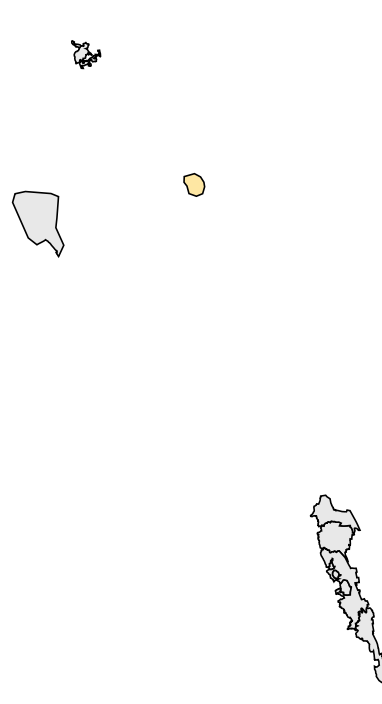## Map 2 | Map of cases by camp (W42 2020)

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
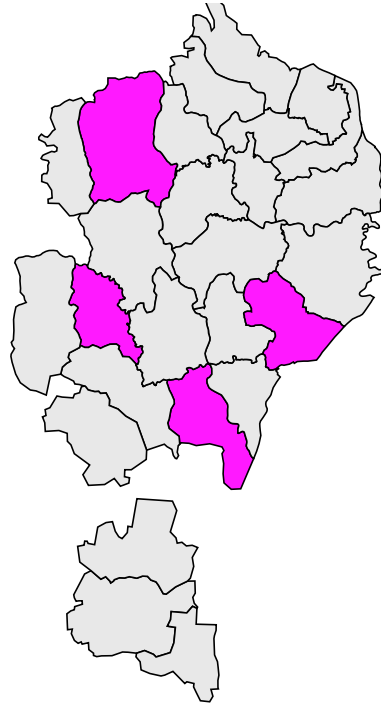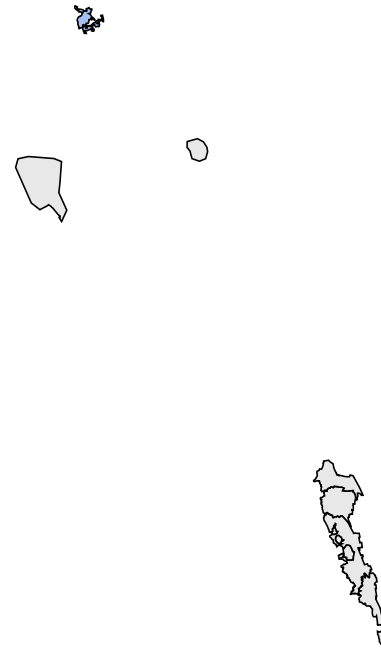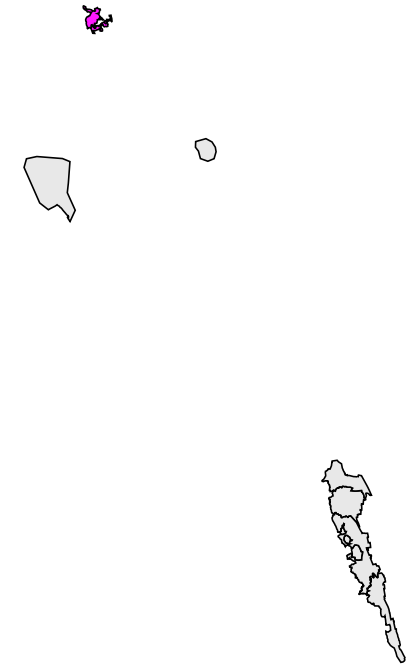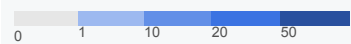
Alert threshold

1 case. *Source: IEDCR*

Alert management (W42 2020)

6	**100%**	**0**	**0**	**0**	**0**
Alerts	Verified	Low Risk	Moderate Risk	High Risk	Very High Risk

Figure | % sex

- Male
- Female

Figure | % age

- >= 5
- < 5

World Health Organization

HEALTH SECTOR COX'S BAZAR

Acute Jaundice Syndrome | Trend
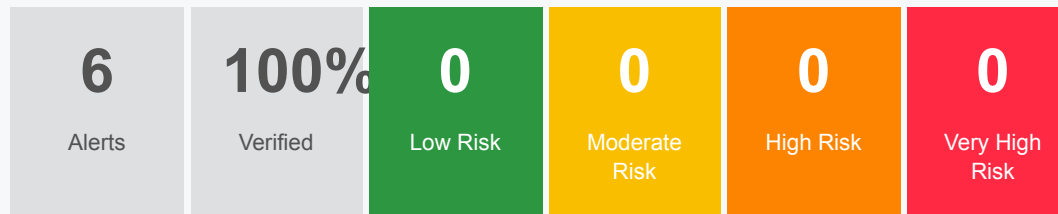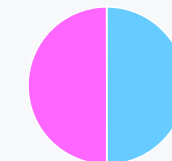
Figure 5 | Trend in number of cases over time (W38 2017 - W42 2020)

Total suspected AJS cases - Bangladesh

World Health Organization

HEALTH SECTOR COX'S BAZAR
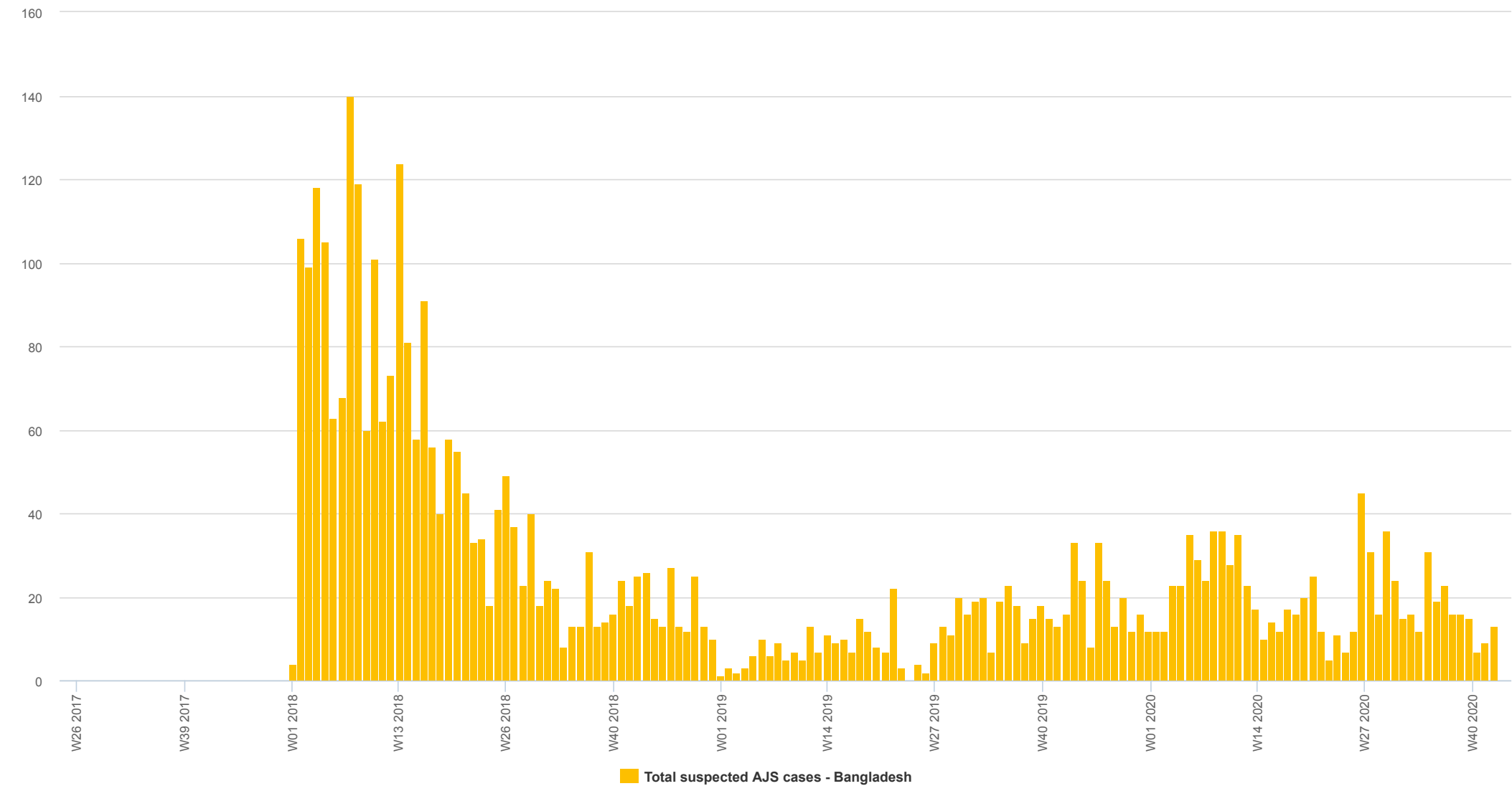
Map 3 | Map of cases by camp (W37 2017 - W42 2020)

a. Ukhia | Number of cases

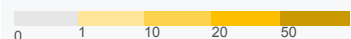**b. Ukhia** | Number of alerts

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
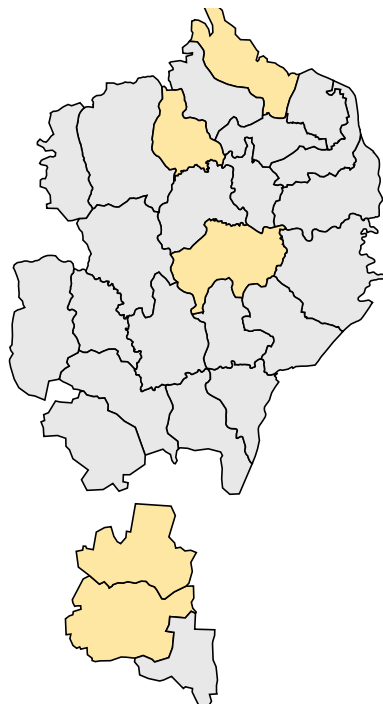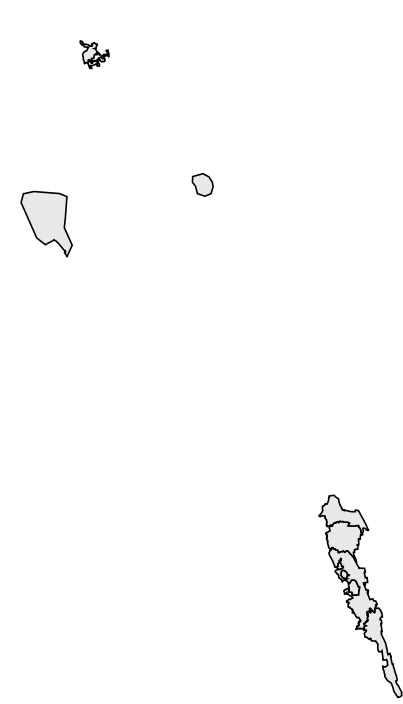
Alert threshold

A cluster of 3 or more cases seen in a health facility. *Source: IEDCR*
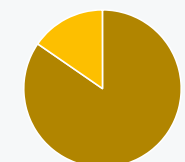
Alert management (W42 2020)

2	100%	0	0	0	0
Alerts	Verified	Low Risk	Moderate Risk	High Risk	Very High Risk

Figure | % sex

- Male
- Female

Figure | % age

- >= 5
- < 5

World Health Organization

HEALTH SECTOR COX'S BAZAR
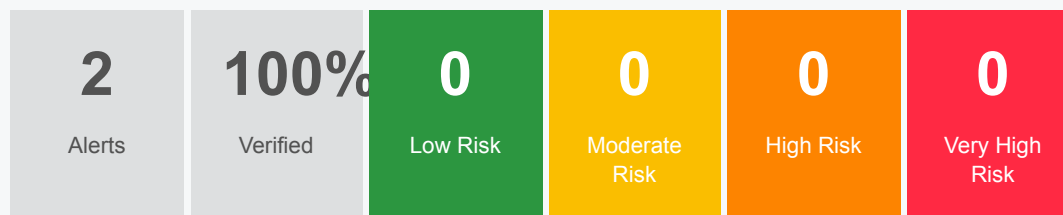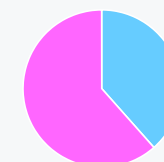
Figure 6 | Trend in number of cases over time (W38 2017 - W42 2020)
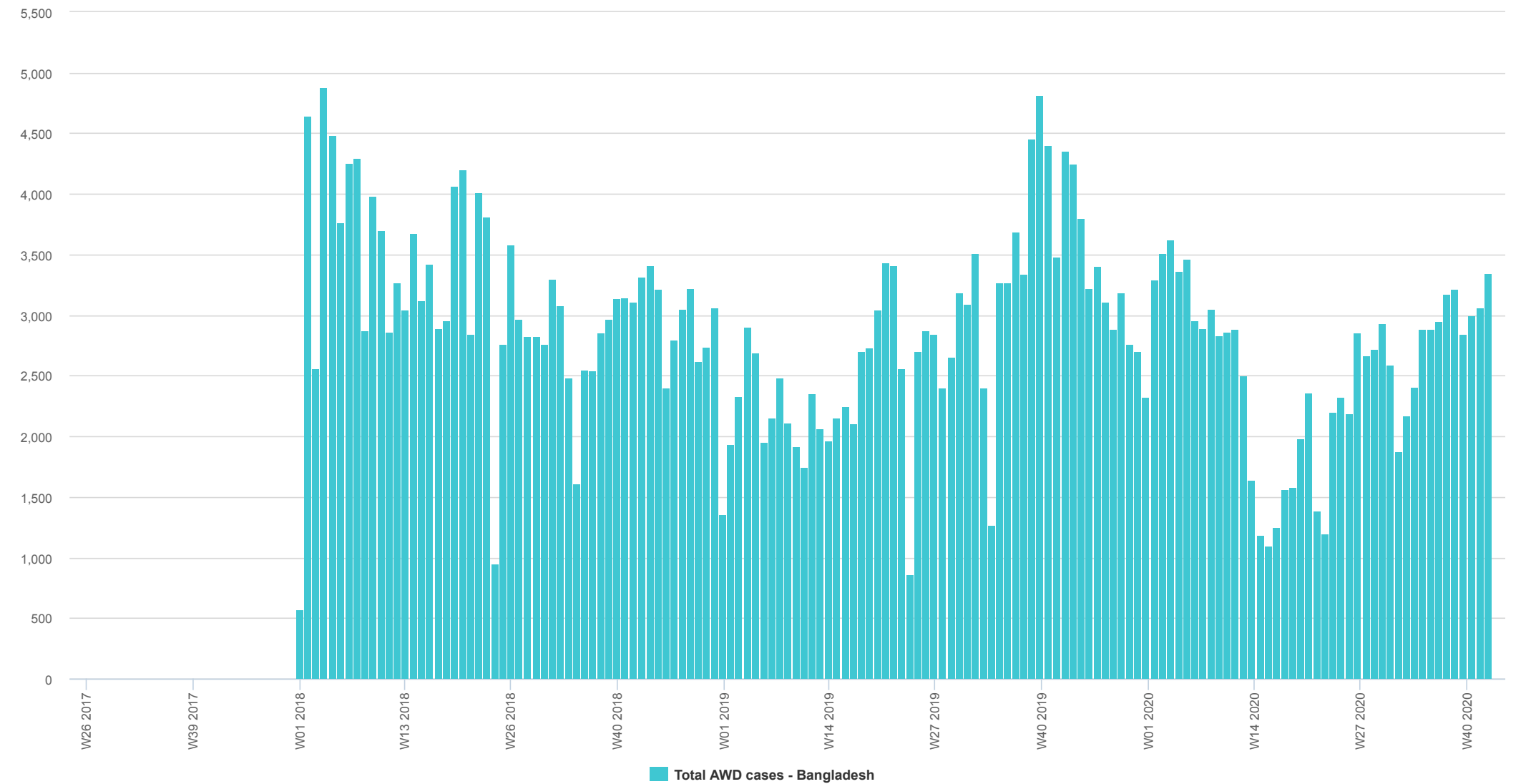
Total AWD cases - Bangladesh

Figure 7 | Trend in number of cases over time (W38 2017 - W42 2020)

Legend: Total Dengue Cases - Suspected - Bangladesh ■ Total Dengue Cases - Confirmed - Bangladesh

Dengue | Maps and Alert Management

Map 4 | Map of cases by camp (W37 2017 - W42 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*
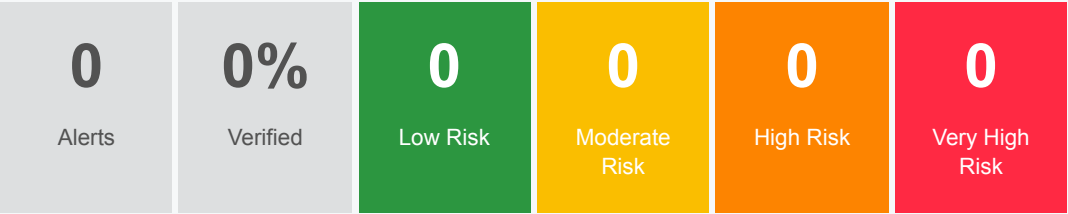
Alert management (W42 2020)

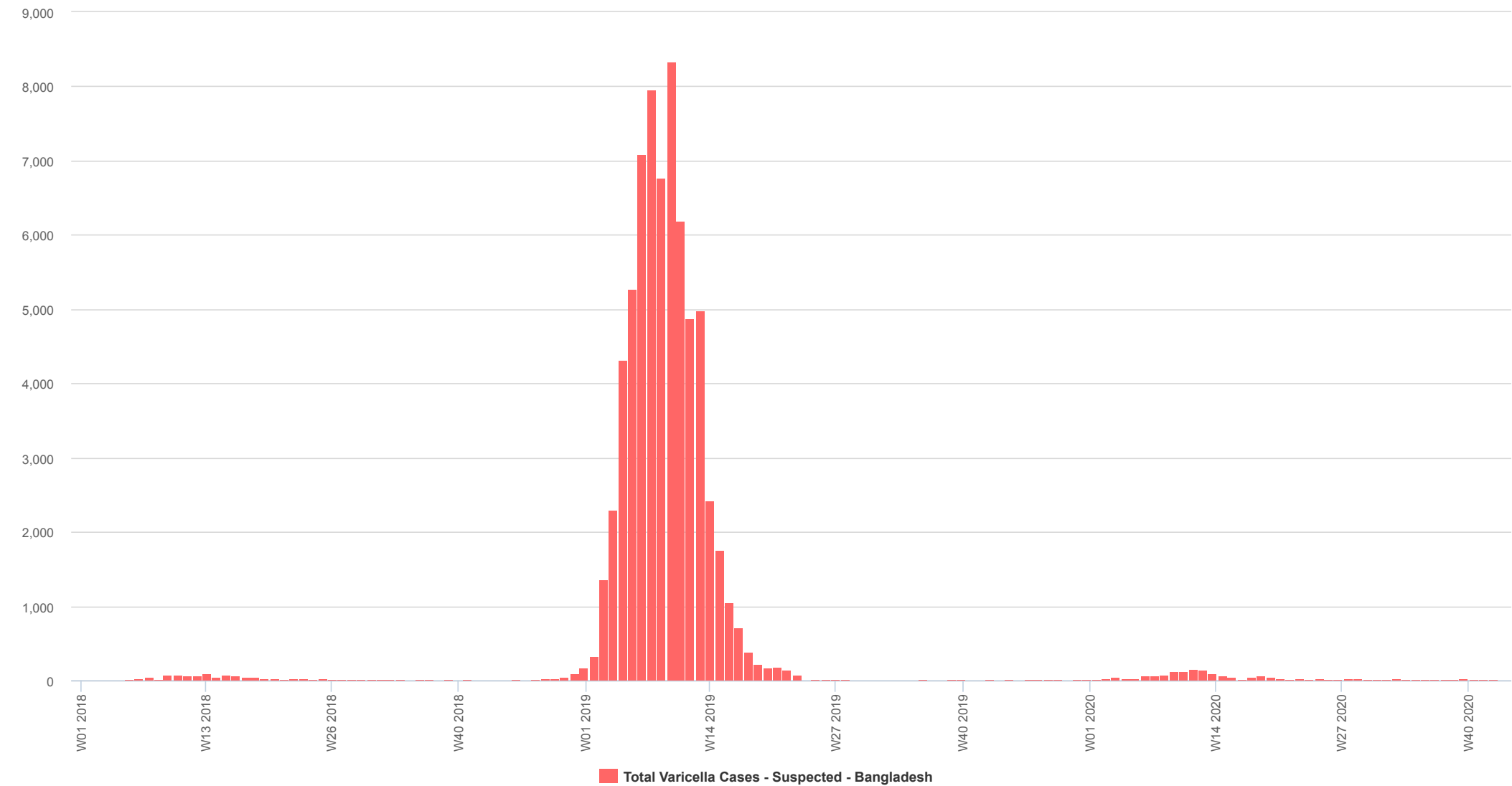| **0**	**0%**	**0**	**0**	**0**	**0**
Alerts	Verified	Low Risk	Moderate Risk	High Risk	Very High Risk

Figure | % sex

Figure | % age

■ Male   ■ Female   ■ >= 5   ■ < 5

World Health Organization

HEALTH SECTOR COX'S BAZAR

Figure 7 | Trend in number of cases over time (W38 2017 - W42 2020)

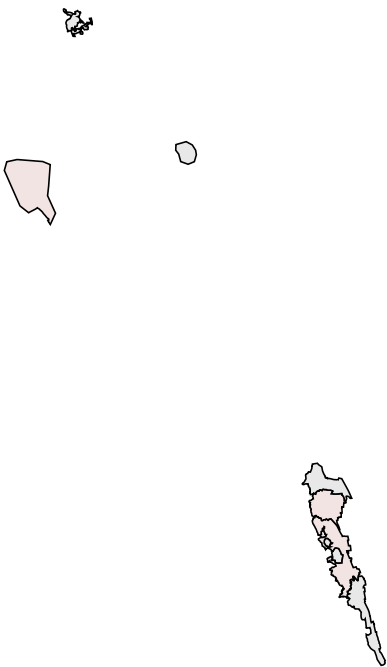Total Varicella Cases - Suspected - Bangladesh

Varicella (Susp.) | Maps
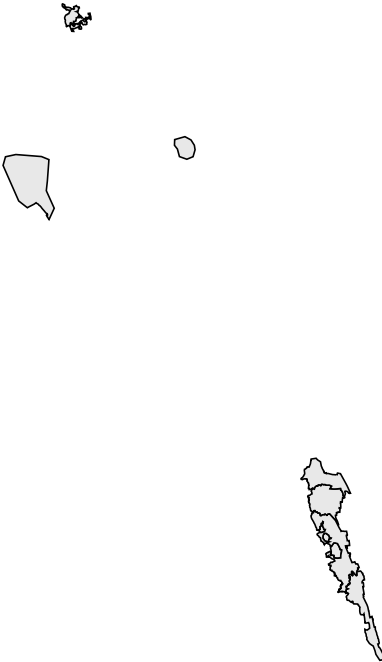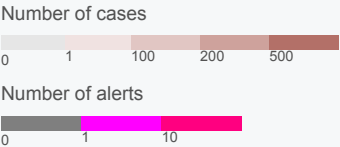
Map 4 | Map of cases by camp (W37 2017 - W42 2020)

a. Ukhia | Number of cases
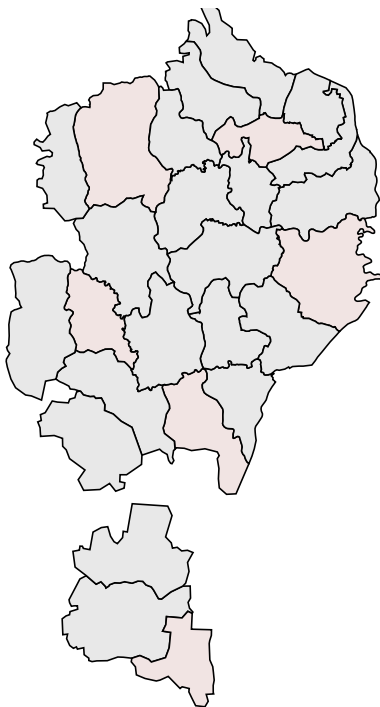
c. Teknaf | Number of cases

Map legend

Number of cases

0   1   100   200   500

Figure | % sex

Male   Female

Figure | % age

>= 5   < 5

World Health Organization

HEALTH SECTOR COX'S BAZAR
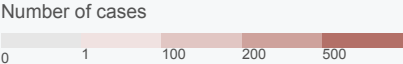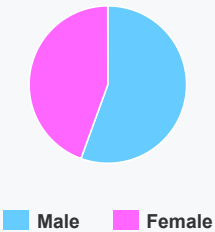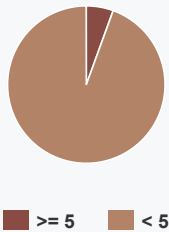
For more help and support, please contact:

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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

Ministry of Health and Family Welfare Bangladesh

World Health Organization

HEALTH SECTOR COX'S BAZAR

Global EWARS