Global
EWARS

Epidemiological Highlights

Week 3 (18-24 Jan 2021)

World Health Organization

Highlights: COVID-19

As of week 03 (18 – 24 Jan 2021) there are 373 confirmed cases of COVID-19 (SARS-CoV-2), 26 170 samples were tested.
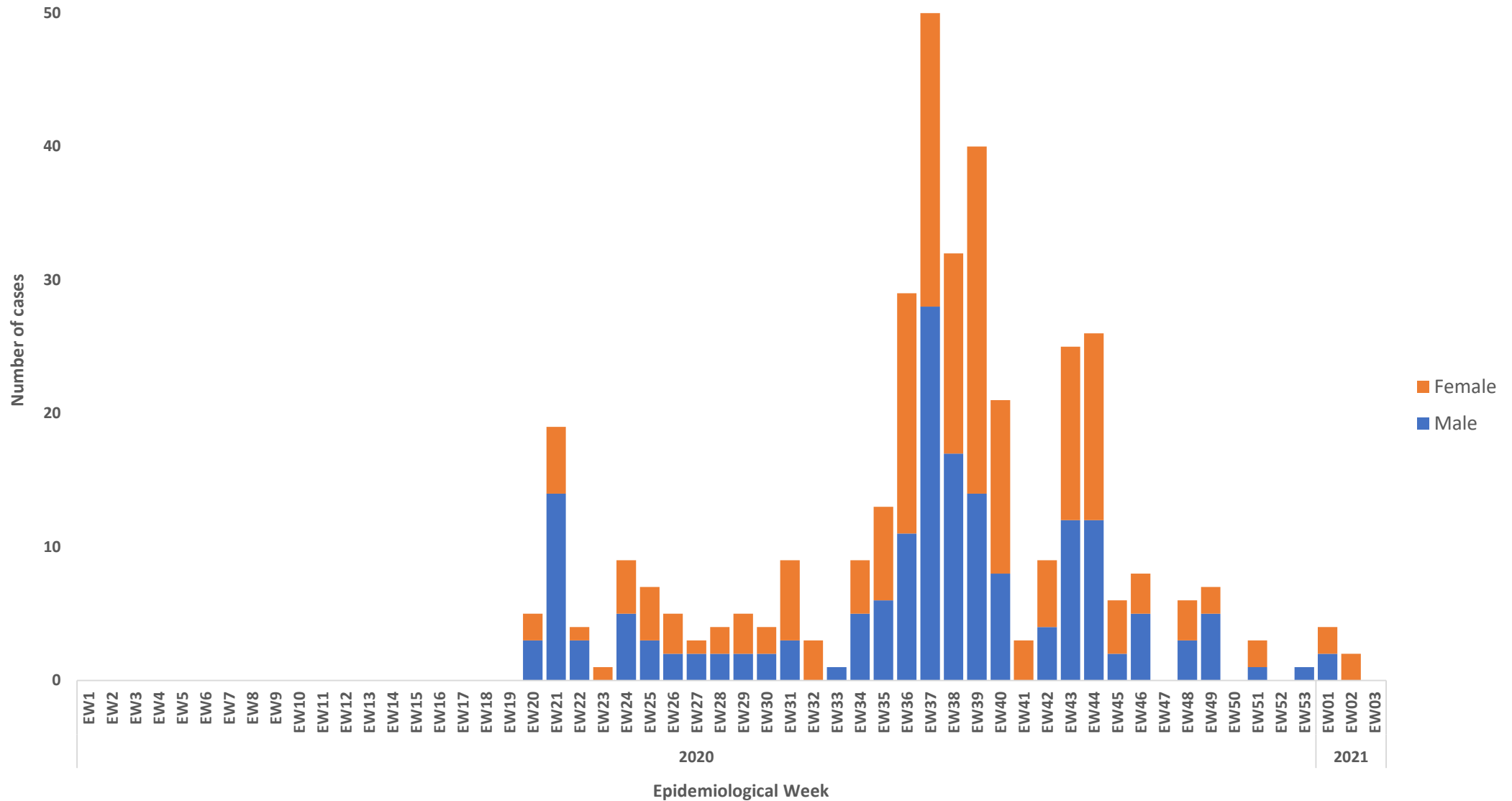
This week (week 03), no new confirmed case detected, 889 samples were tested.
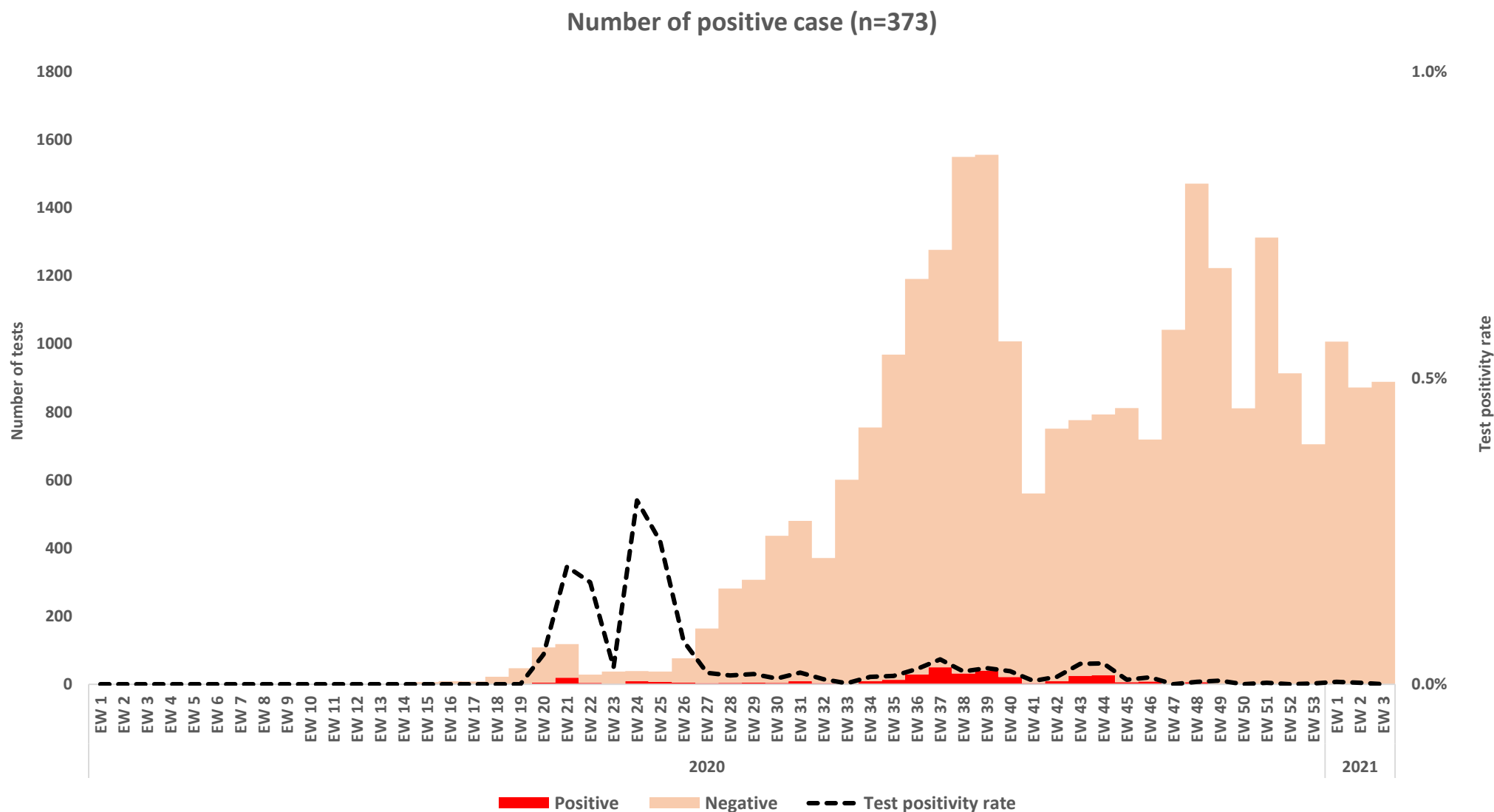
As of this week (week 03)

- Median age of tested and confirmed cases is 10 (0-120) & 19 (0-90) years
- Female among tested and confirmed cases is 55% 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 43.4 per 100,000 people with the growth rate 0.0%
- The overall positivity of all samples tested was 1.4%

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Highlights: COVID-19

COVID-19 positive cases (n=373) by week of test

Epidemiological Highlights
Week 3, **2021**

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Highlights: COVID-19

Number of positive case (n=373)

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COVID-19 Cases in Rohingya Camps (As of 24 January 2021)

Number of Cases
- 1-5
- 6 - 10
- 11 - 20
- 21 - 30
- 31 - 40
- 41 - 60

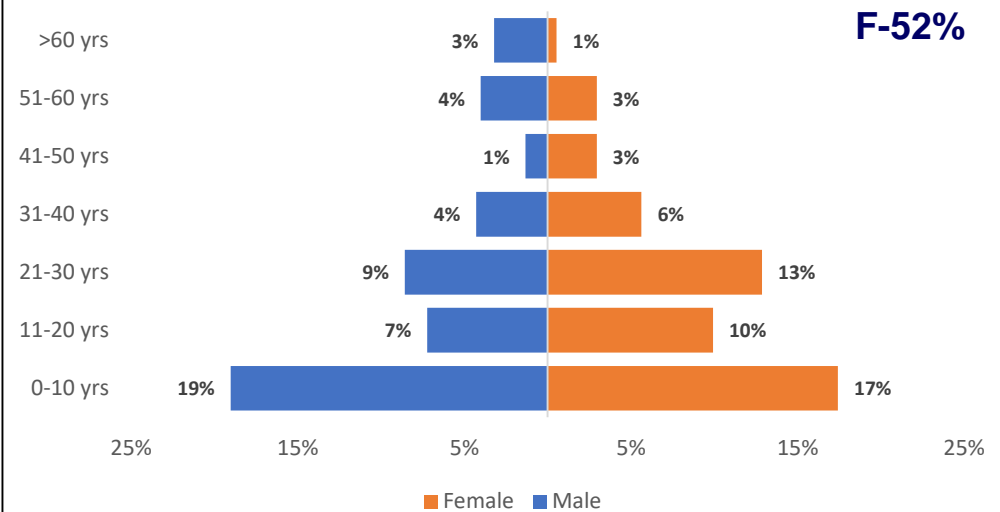Number of deaths
- 1
- 2 - 5
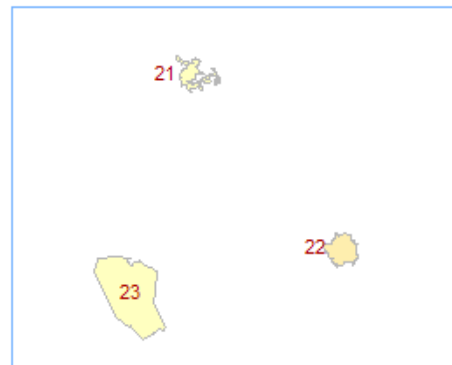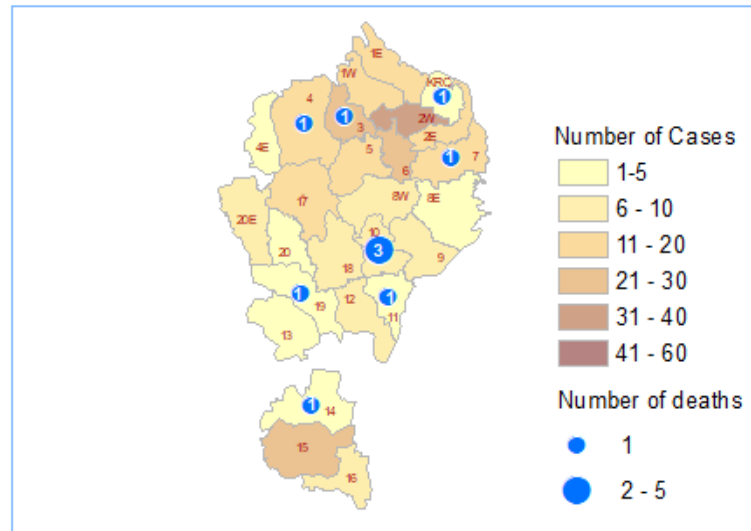
373 Confirmed cases in FDMN/Rohingya Refugee Camps

434 Confirmed cases/1 Million

10 Deaths in FDMN/Rohingya Refugee Camps
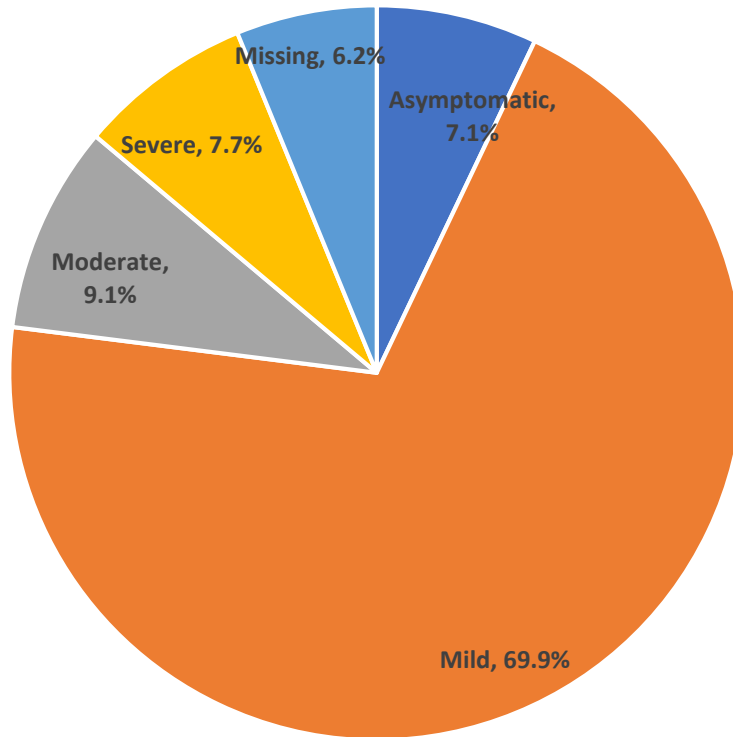
12 Deaths/ 1 Million

Age and sex distribution (%) (n=373)

F-52%

	Male	Female
>60 yrs	3%	1%
51-60 yrs	4%	3%
41-50 yrs	1%	3%
31-40 yrs	4%	6%
21-30 yrs	9%	13%
11-20 yrs	7%	10%
0-10 yrs	19%	17%

25% 15% 5% 5% 15% 25%

■ Female ■ Male

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

F-50%

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

60% 30% 0% 30% 60%

■ Female ■ Male
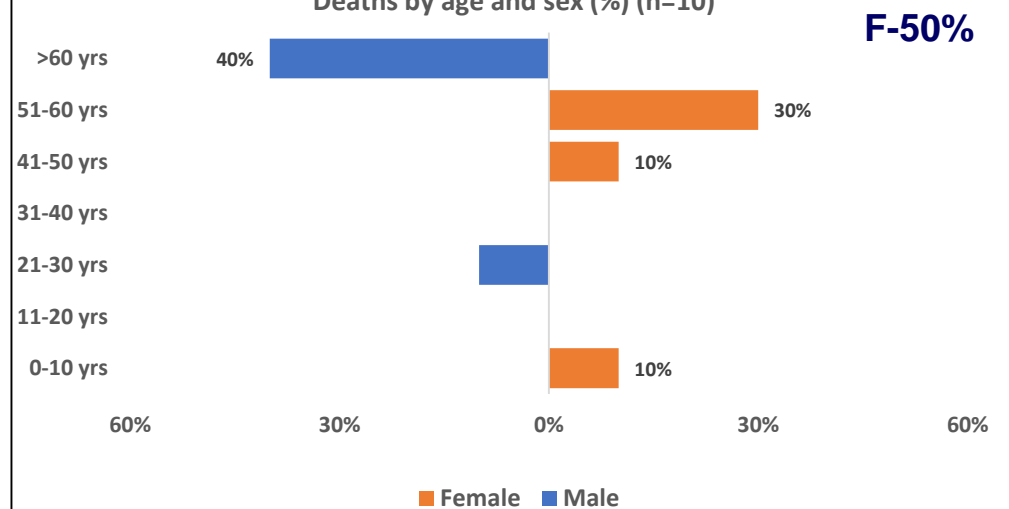
Highlights: COVID-19

Severity of reported cases at presentation (n=349)

- Asymptomatic, 7.1%
- Missing, 6.2%
- Severe, 7.7%
- Moderate, 9.1%
- Mild, 69.9%

Did the case report at least 1 co-morbidity (n=349)

- Yes 7.7%
- No 92.3%

Source: Go.Data

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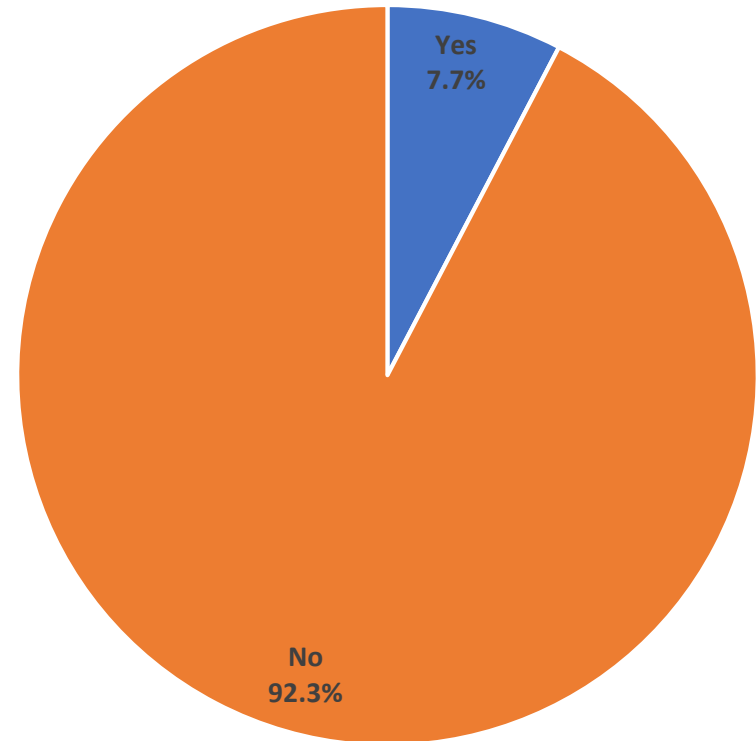
Highlights: COVID-19 Contact Tracing

- Total 349 (out of 373) confirmed cases have been investigated by rapid Investigation and Response Team (RIRT).

- 1,355 contacts have been identified and registered in the Go.Data for follow up

- 1,233 (91%) contacts have been completed their follow up so far

- Thirteen contacts (1.3%) tested positive

- Average number of contacts is ~4 per positive case

- No geo cluster has been observed in camps

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EWARS Reporting Updates

- Total 152/166 (92%) health facilities registered in EWARS

- Only 121/152 weekly reports received in week 3.

- Completeness and Timeliness for this week is 78%

- Total 49 alerts were triggered in week 3.

- All alerts were reviewed and verified by WHO EWARS team which is more than as of previous week (61 in week 2).

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Highlights:

- Acute Respiratory Infection (18.6%), Diarrheal Diseases (4.1%) & Unexplained Fever (0.9%) are the diseases with highest proportional morbidity in week 3.

- Community-based mortality surveillance included SARI death in weekly reporting since week 28, 2020 and the reporting frequency changed since then from bi-weekly. Twenty five (25) SARI death has been reported so far.

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Diphtheria

Four (4) probable and two (2) suspected diphtheria case reported in go.data in week 3

A total of 9 204 case-patients were reported since 2017 to till date

- Confirmed = 340
- Probable = 2792
- Suspected = 6070

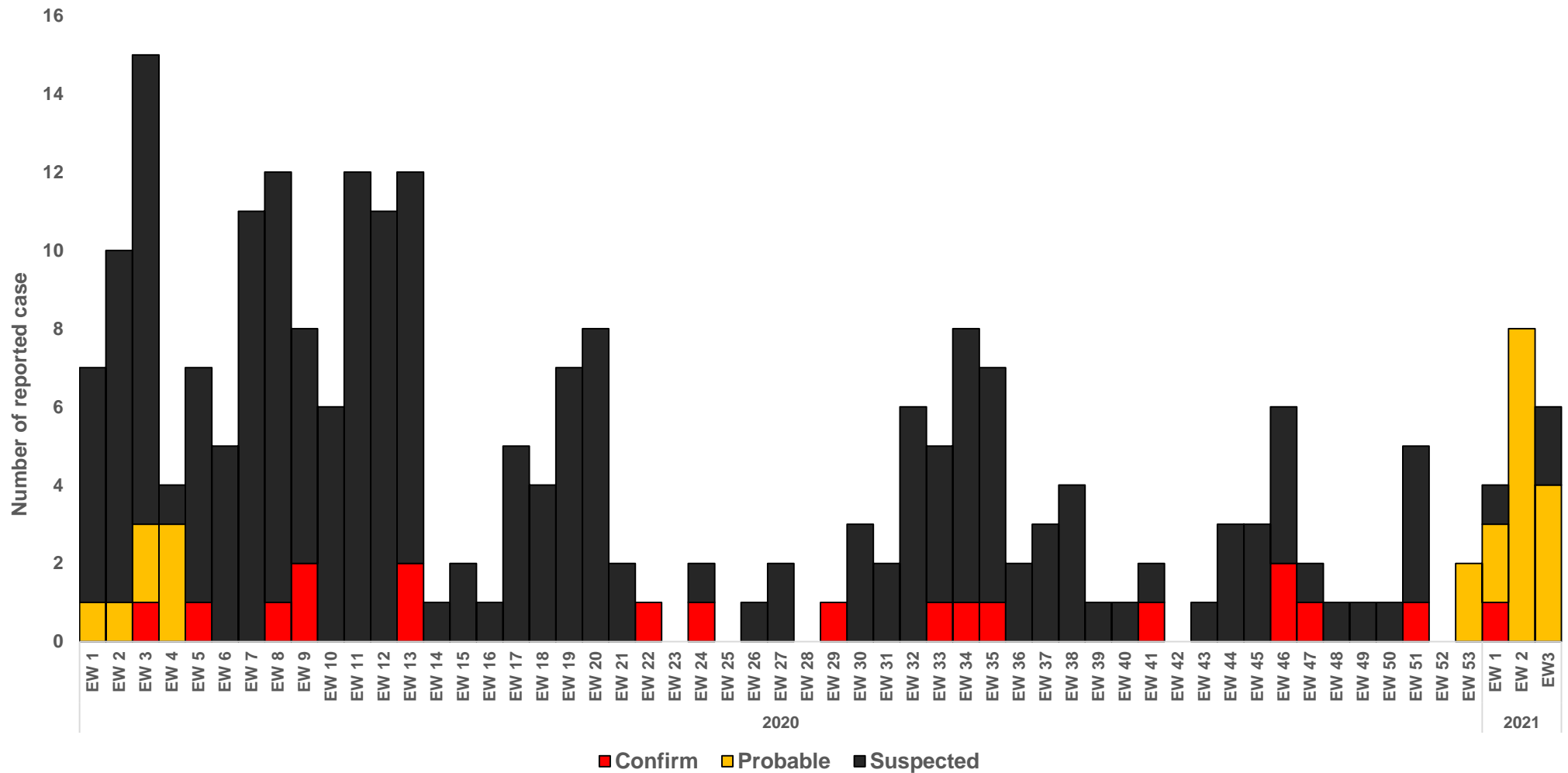Total Case reported in 2021 = 18

- Confirmed = 1
- Probable = 14
- Suspected = 3

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

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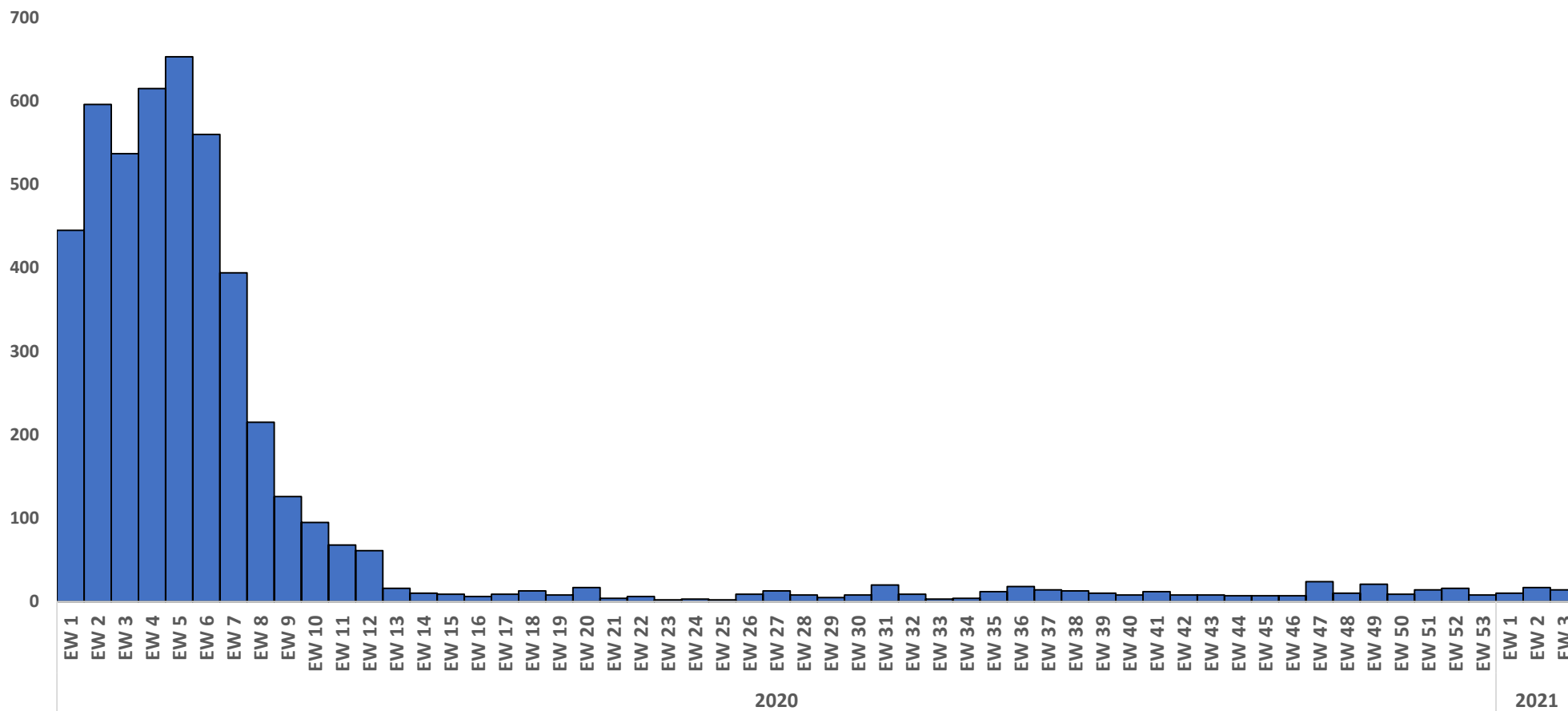
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Diphtheria

Total number of diphtheria case reported in EWARS from 2020- EW3, 2021

Epidemiological Highlights
Week 3, 2021

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Measles

Total number of Measles case reported in EWARS from 2020, EW3, 2021
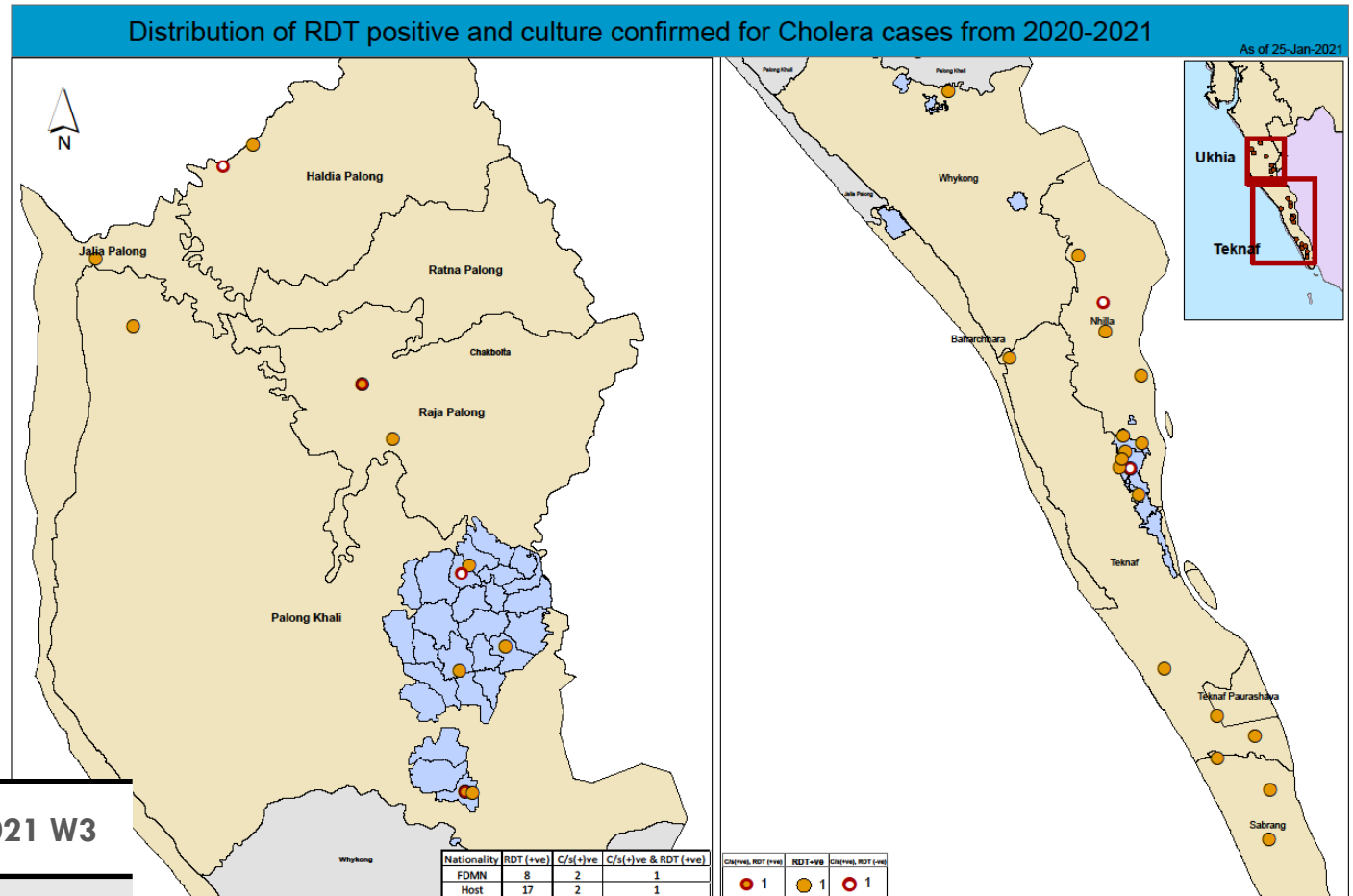

Total 14 suspected measles cases were reported through aggregated weekly reporting in EWARS in week 3. Aggregated weekly report showed 41 and individual case report (CRF) found 39 (95.2%) in 2021.

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Diarrhoeal Disease

- A total of 2,347 cases of diarrhoeal diseases reported in EWARS in week 3.

- Among which 1,970 cases (2.6%) reported as acute watery diarrhoea (AWD), 872 (1.1%) and 295 (0.4%) 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

- Total three (3) Cholera RDT positive/culture cases reported as of EW3, 2021, 1 was culture confirmed and remaining two discarded by culture.

- In 2020, total 28 RDT/Culture positive cases for Cholera detected through sentinel testing. Specifically, 5 became confirmed by culture - 2 from Ukhiya Host, 1 from Teknaf host and 2 from Refugees.

Distribution of RDT positive and culture confirmed for Cholera cases from 2020-2021

As of 25-Jan-2021

Nationality	RDT (+ve)	C/s(+)ve	C/s(+)ve & RDT (+ve)
FDMN	8	2	1
Host	17	2	1

	2018	2019	2020	2021 W3
RDT positive for Cholera	49	258	28	2
Culture Confirmed for Cholera	7	184	5*	1

*3 culture confirmed cases were RDT negative in 2020

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Community-based Mortality surveillance

- In week 3 total of 42 deaths were recorded, 64% (n=27) were due to causes classified as "Others", 19% (n=8) as Still birth (Born Dead), 5% (n=2) as Neonatal (<28 days old), 2% (n=1) as Infectious disease, 2% (n=1) as Injury and 5% (n=2) as Severe Acute Respiratory Illness.

- One mortality alert raised for women of reproductive age (12-49 years).

- 47.7% of deaths reported in the health facility and 52.4% of deaths reported in homes

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

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Community-based Mortality Surveillance

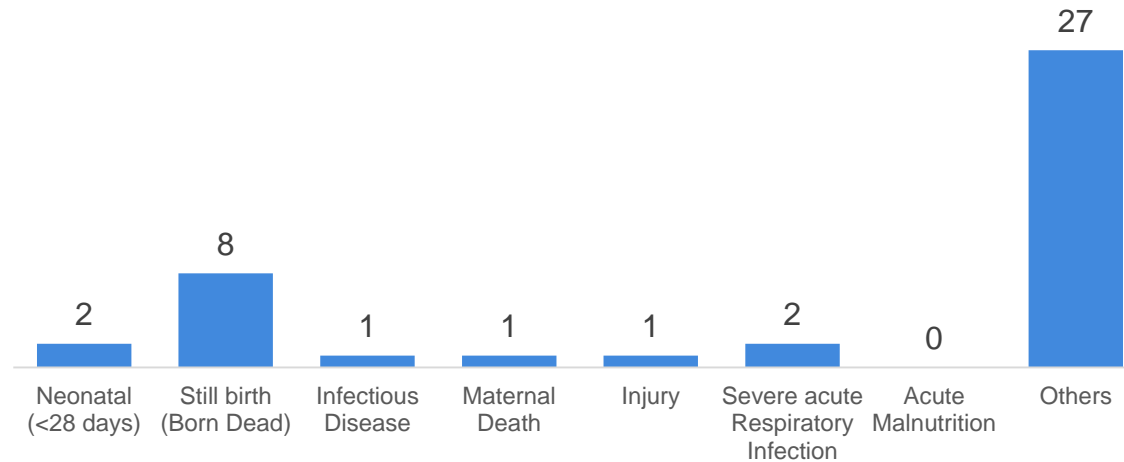Distribution of death by camps (n=42)
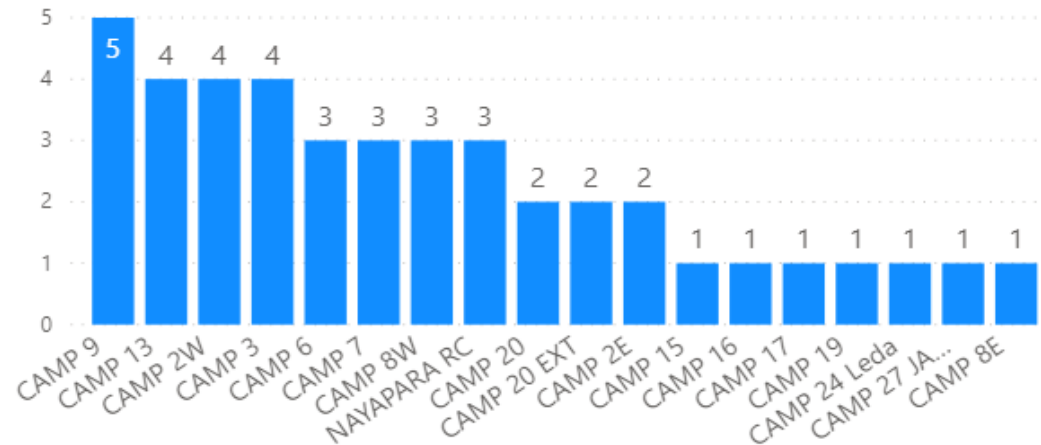
Distribution of sex (n=42)

20 (47.62%)

42

22 (52.38
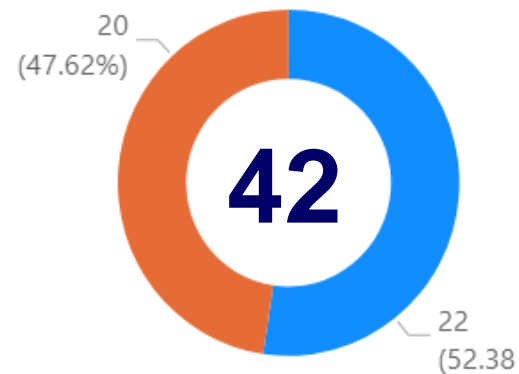
Gender ● MALE ● FEMALE

Distribution of place of death (n=42)

20 (47.62%)

22 (52.38%)
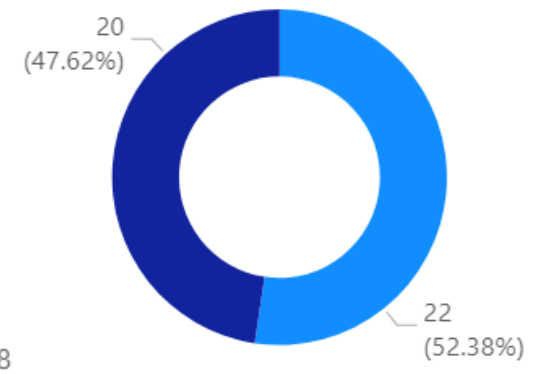
Place of d... ● HOME ● HEALTH FACILITY

Probable Cause of Death (n=42)

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Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W3 2021

**Ministry of Health and Family
Welfare Bangladesh**

**World Health
Organization**

HEALTH SECTOR
COX'S BAZAR

Contents

Sources of data

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

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Highlights W3 2021

Table 1 | Coverage

#	%	
866,457	-	Estimated total Rohingya population[1]
866,457	100%	Total population under surveillance
166	-	Total number of health facilities
152	92%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W3	Cumulative (2021)	
121	541	Number of weekly reports received
78%	87%	Completeness
78%	82%	Timeliness

Table 3 Alert performance indicators

W3	Cumulative (2021)	
49	215	Total alerts raised
100%	100%	% verified
0%	0%	% auto-discarded
0%	0%	% undergoing risk assessment
0%	1%	% completed risk assessment

[1] Source: UNHCR. Bangladesh: Joint Goverment of Bangladesh- UNHCR Population Factsheet. 31 December 2020.

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Map 1a | Ukhia completeness by camp

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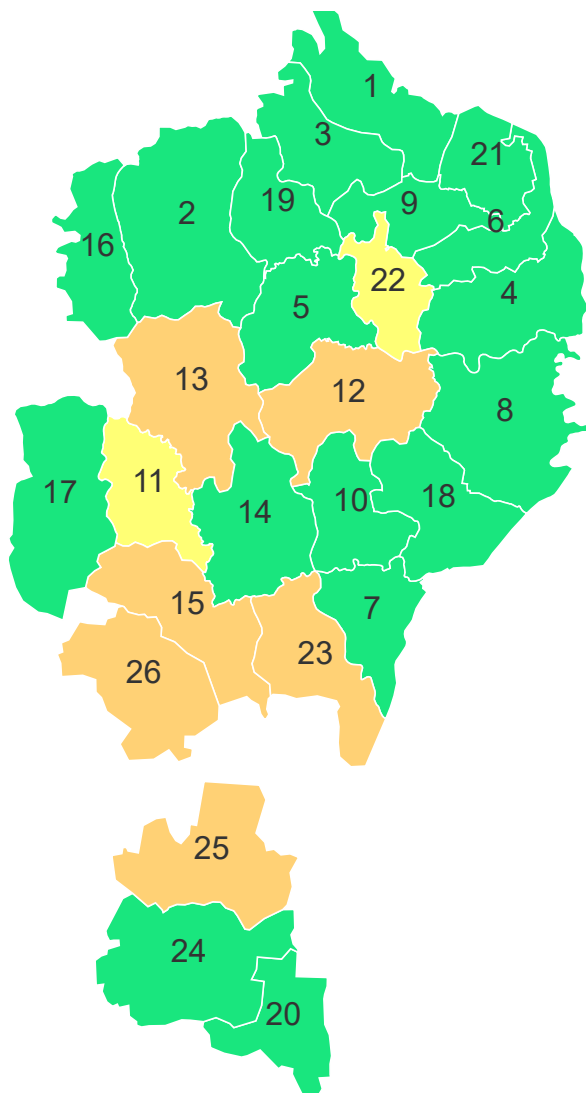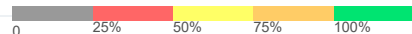
Map 1b | Teknaf completeness by camp

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

Completeness

0   25%   50%   75%   100%

Completeness

0   25%   50%   75%   100%

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Table 4 | Performance by camp (W3 2021)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
	Ukhia Northern Group			
Camp 1E	4	3	75%	75%
Camp 1W	4	3	75%	75%
Camp 2E	3	3	100%	100%
Camp 2W	2	2	100%	100%
Camp 3	6	6	100%	100%
Camp 4	6	5	80%	80%
Camp 4 Ext	1	1	100%	100%
Camp 5	5	4	80%	80%
Camp 6	3	1	33%	33%
Camp 7	6	5	83%	83%
Camp 8E	7	7	100%	100%
Camp 8W	6	4	67%	67%
Kutupalong RC	2	2	100%	100%

Map 2 | Completeness by camp

1 Camp 1E
2 Camp 4
3 Camp 1W
4 Camp 7
5 Camp 5
6 Camp 2E
7 Camp 8E
8 Camp 2W
9 Camp 8W
10 Camp 4 Ext
11 Camp 3
12 Kutupalong RC
13 Camp 6

Completeness

0   25%   50%   75%   100%

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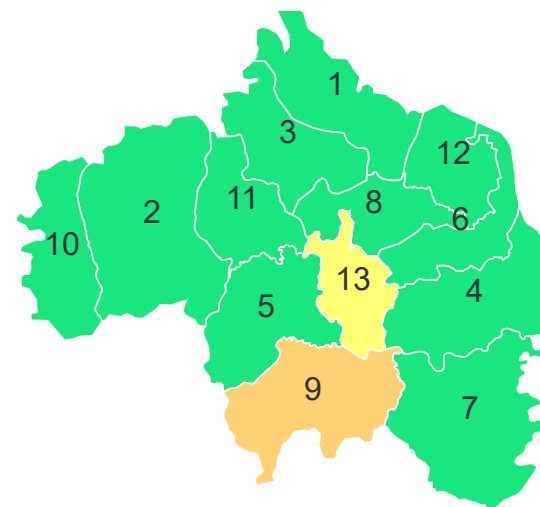
Table 5 | Performance by camp (W3 2021)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	100%
Camp 11	9	9	100%	100%
Camp 12	6	4	60%	60%
Camp 13	9	6	67%	67%
Camp 14	7	4	67%	67%
Camp 15	10	7	78%	78%
Camp 16	5	4	80%	80%
Camp 17	5	3	60%	60%
Camp 18	5	4	80%	80%
Camp 19	6	3	60%	60%
Camp 20	3	1	33%	33%
Camp 20 Ext	2	2	100%	100%
Camp 9	7	5	83%	83%

Map 3 | Completeness by camp

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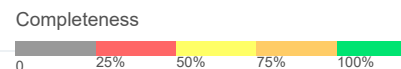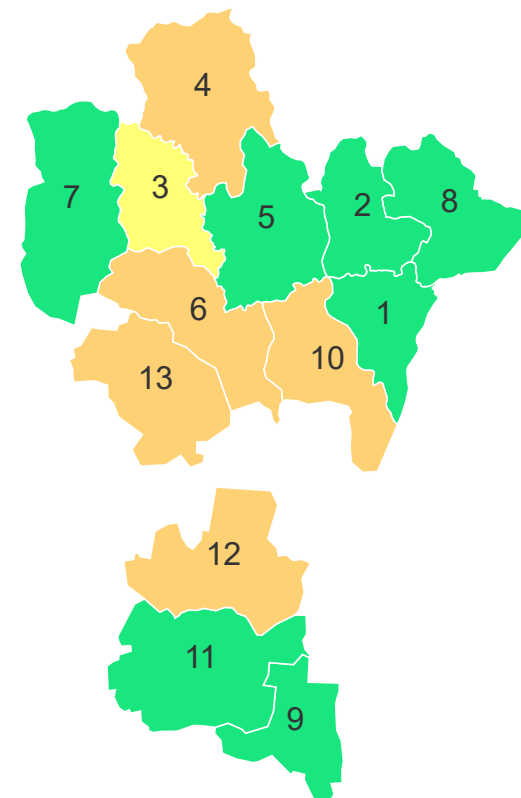9 Camp 16
10 Camp 12
11 Camp 15
12 Camp 14
13 Camp 13

Completeness

0   25%   50%   75%   100%

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Table 6 | Performance by camp (W3 2021)

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

Map 4 | Completeness by camp

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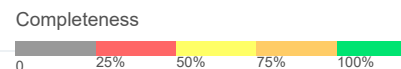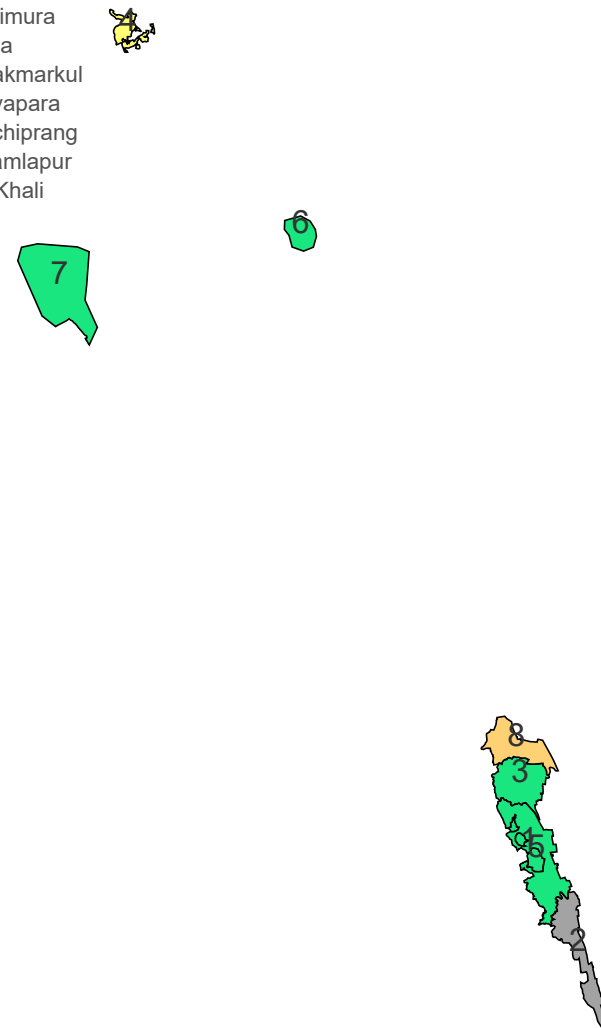6 Camp 22 Unchiprang
7 Camp 23 Shamlapur
8 Camp 25 Ali Khali

Completeness

0   25%   50%   75%   100%

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Table 7 | Performance by partner (W3 2021)

Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
BDRCS	10	9	90%	90%	FH/MTI	3	3	100%	100%
BRAC	11	10	91%	91%	PHD	8	8	100%	100%
CARE	4	0	0%	0%	PWJ	1	1	100%	100%
FHM	0	0			RHU	2	2	100%	100%
FRNDS	12	6	50%	50%	RI	3	3	100%	100%
GK	10	10	100%	100%	RTMI	9	9	100%	100%
HMBDF	1	1	100%	100%	SCI	9	0	0%	0%
IOM	23	21	91%	91%	TdH	1	0	0%	0%
IRC	2	2	100%	100%					
MSF	9	7	78%	78%					
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	W3		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
	Alerts Northern group			
Camp 1E	0	0%	3	100%
Camp 1W	0	0%	9	100%
Camp 2E	2	100%	18	100%
Camp 2W	3	100%	6	100%
Camp 3	6	100%	15	100%
Camp 4	1	100%	5	100%
Camp 4 Ext	0	0%	3	100%
Camp 5	1	100%	11	100%
Camp 6	4	100%	10	100%
Camp 7	1	100%	3	100%
Camp 8E	0	0%	3	100%
Camp 8W	4	100%	14	100%
Kutupalong RC	0	0%	2	100%

Map 5 | Number of alerts by camp

1 Camp 1E
2 Camp 4
3 Camp 1W
4 Camp 7
5 Camp 5
6 Camp 2E
7 Camp 8E
8 Camp 2W
9 Camp 8W
10 Camp 4 Ext
11 Camp 3
12 Kutupalong RC
13 Camp 6

\# of alerts

0   2   5   10

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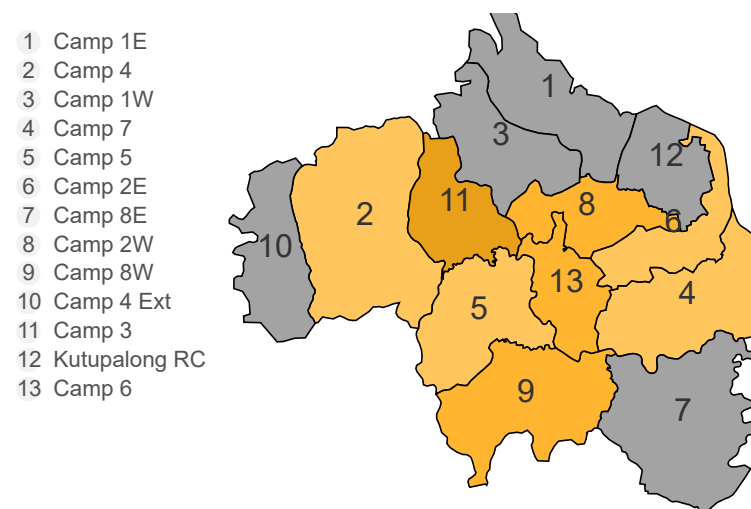
Table 9 | Performance by camp

Southern group	W3		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
		Alerts Northern group		
Camp 10	2	100%	8	100%
Camp 11	0	0%	6	100%
Camp 12	1	100%	6	100%
Camp 13	3	100%	9	100%
Camp 14	1	100%	5	100%
Camp 15	2	100%	8	100%
Camp 16	2	100%	8	100%
Camp 17	1	100%	1	100%
Camp 18	3	100%	11	100%
Camp 19	0	0%	4	100%
Camp 20	2	100%	6	100%
Camp 20 Ext	1	100%	5	100%
Camp 9	3	100%	15	100%

Map 6 | Number of alerts by camp

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

# of alerts
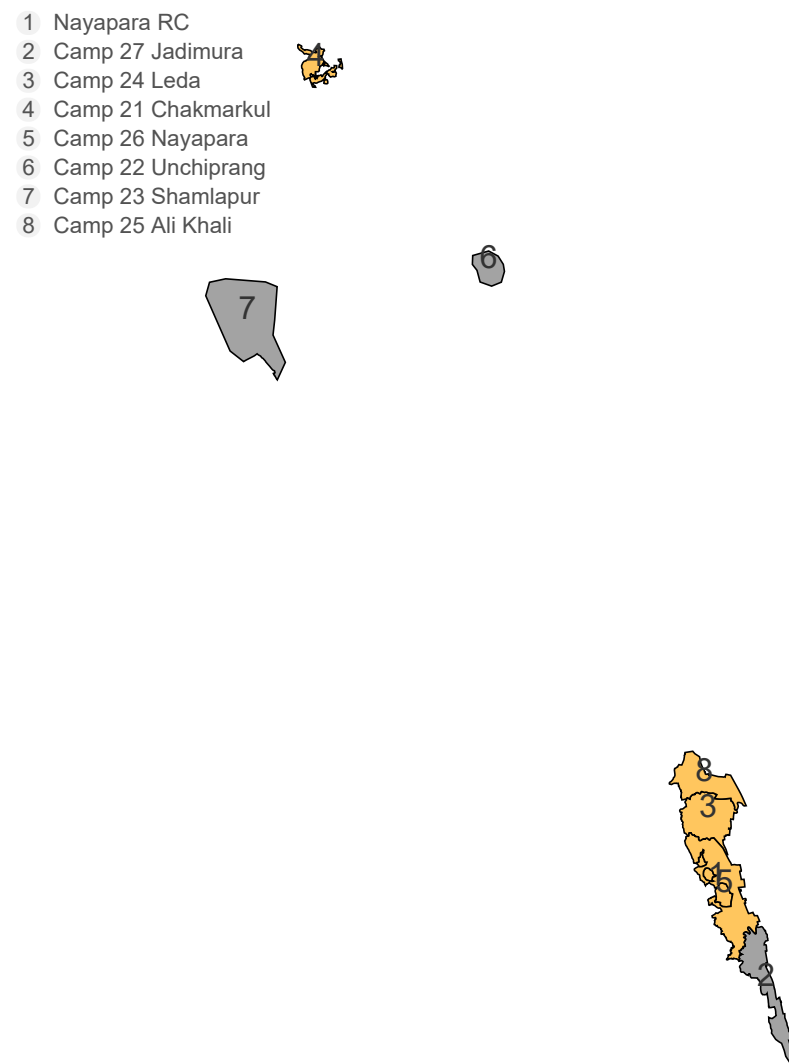
0   2   5   10

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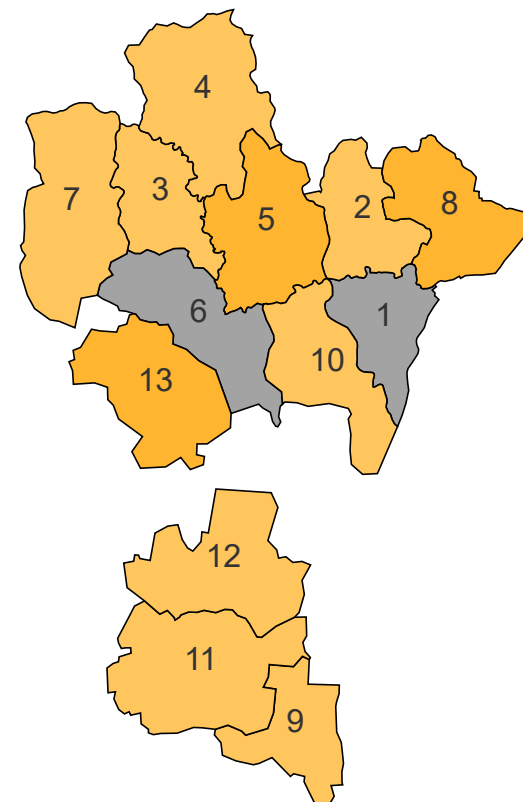
Table 10 | Performance by camp

Teknaf	W3		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	2	100%	3	100%
Camp 22 Unchiprang	0	0%	1	100%
Camp 23 Shamlapur	0	0%	3	100%
Camp 24 Leda	1	100%	5	100%
Camp 25 Ali Khali	1	100%	2	100%
Camp 26 Nayapara	1	100%	2	100%
Camp 27 Jadimura	0	0%	1	100%
Nayapara RC	1	100%	2	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 26 Nayapara
6 Camp 22 Unchiprang
7 Camp 23 Shamlapur
8 Camp 25 Ali Khali

# of alerts

0   2   5   10

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Table 11 | Performance by type of alert

Event	W3		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	8	100%	36	100%
Bloody Diarr.	0	0%	0	0%
AFP	1	100%	2	100%
Meningitis	0	0%	1	100%
Haem. fever (susp.)	0	0%	0	0%
NNT	0	0%	0	0%
Unexp. fever	1	100%	12	100%
AWD	5	100%	18	100%
ARI	3	100%	14	100%
AJS	3	100%	4	100%
Varicella (Susp.)	0	0%	0	0%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	1	100%	7	100%

Table 12 | Risk assessment

W3	Cumulative (2021)	
0	2	Low risk
0	0	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

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Global EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W3 2021

Ministry of Health and Family Welfare Bangladesh

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Proportional morbidity

Figure 1 | Proportional morbidity (W3 2021)

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)
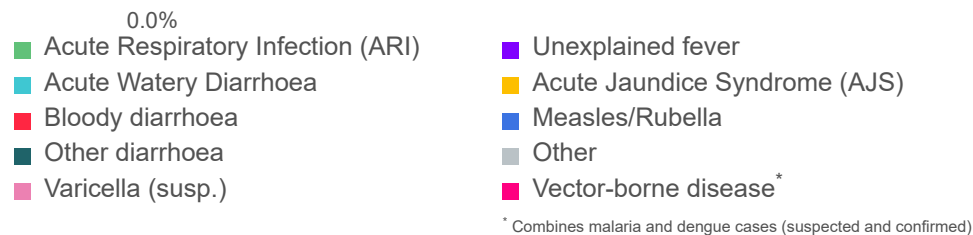
Disease	W3		2021	
	# cases	% morbidity	# cases	% morbidity
AWD	1,970	2.6%	8,980	2.7%
Bloody diarr.	295	0.4%	1,361	0.4%
Other diarr.	872	1.1%	3,294	1.0%
Susp. Varicella	35	0.0%	125	0.0%
ARI	14,309	18.6%	62,376	19.0%
Measles/Rub.	14	0.0%	49	0.0%
AFP	1	0.0%	2	0.0%
Susp. menin.	0	0.0%	3	0.0%
AJS	19	0.0%	48	0.0%
Susp. HF	0	0.0%	0	0.0%
Neo. tetanus	0	0.0%	0	0.0%
Adult tetanus	0	0.0%	0	0.0%
Malaria (conf.)	0	0.0%	0	0.0%
Malaria (susp.)	0	0.0%	1	0.0%
Dengue (conf.)	0	0.0%	0	0.0%
Dengue (susp.)	0	0.0%	0	0.0%
Unexpl. fever	695	0.9%	2,997	0.9%
Sev. Malnut.	20	0.0%	118	0.0%
Inj./Wounds	1,919	2.5%	8,473	2.6%
Other	56,676	73.8%	239,843	73.2%
Total	**76,148**	**100%**	**327,772**	**100%**

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Figure 2 | Trend in proportional morbidity for key diseases (W3)

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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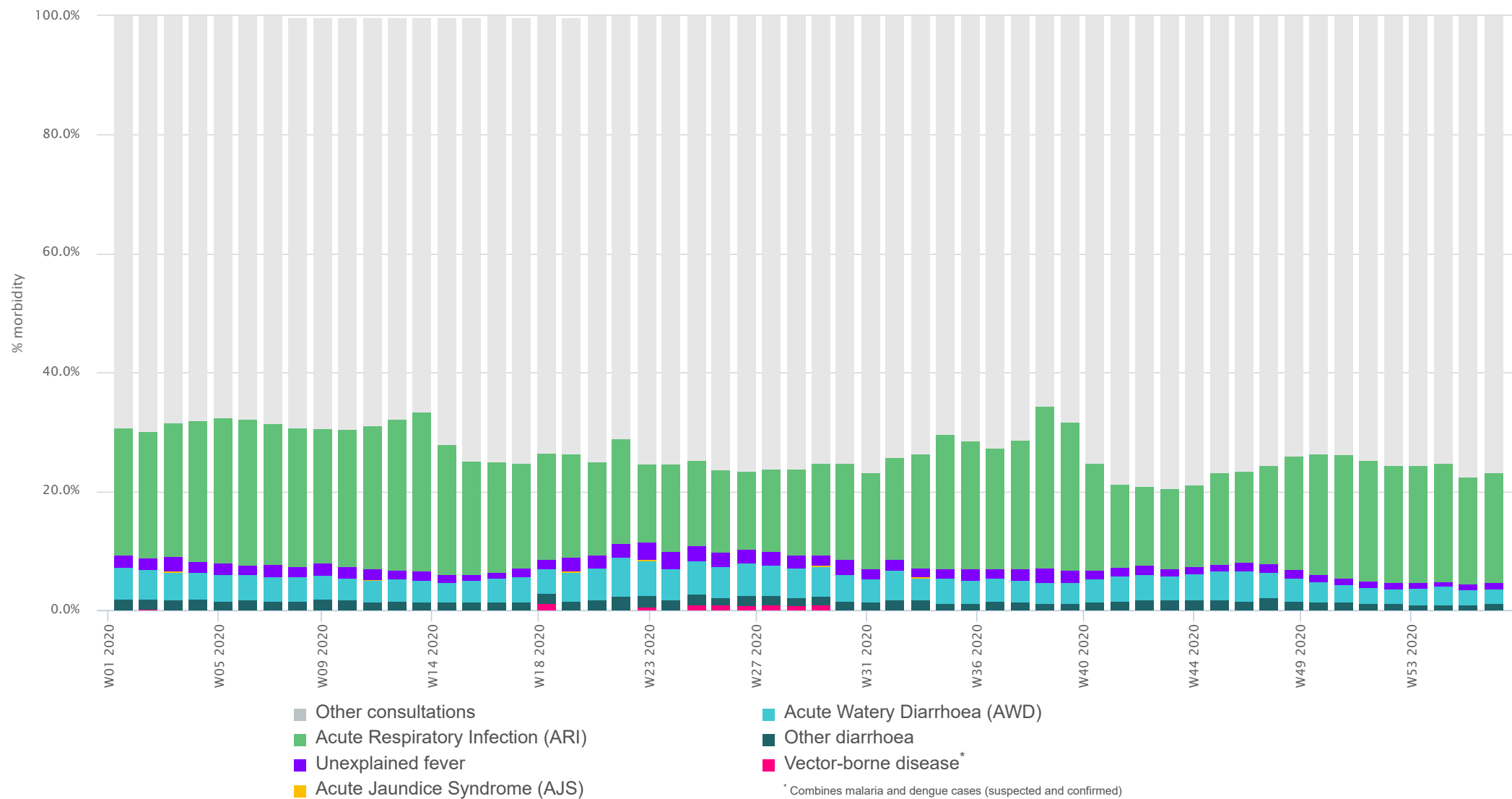
Figure 3 | Trend in number of cases over time (W38 2017 - W3 2021)
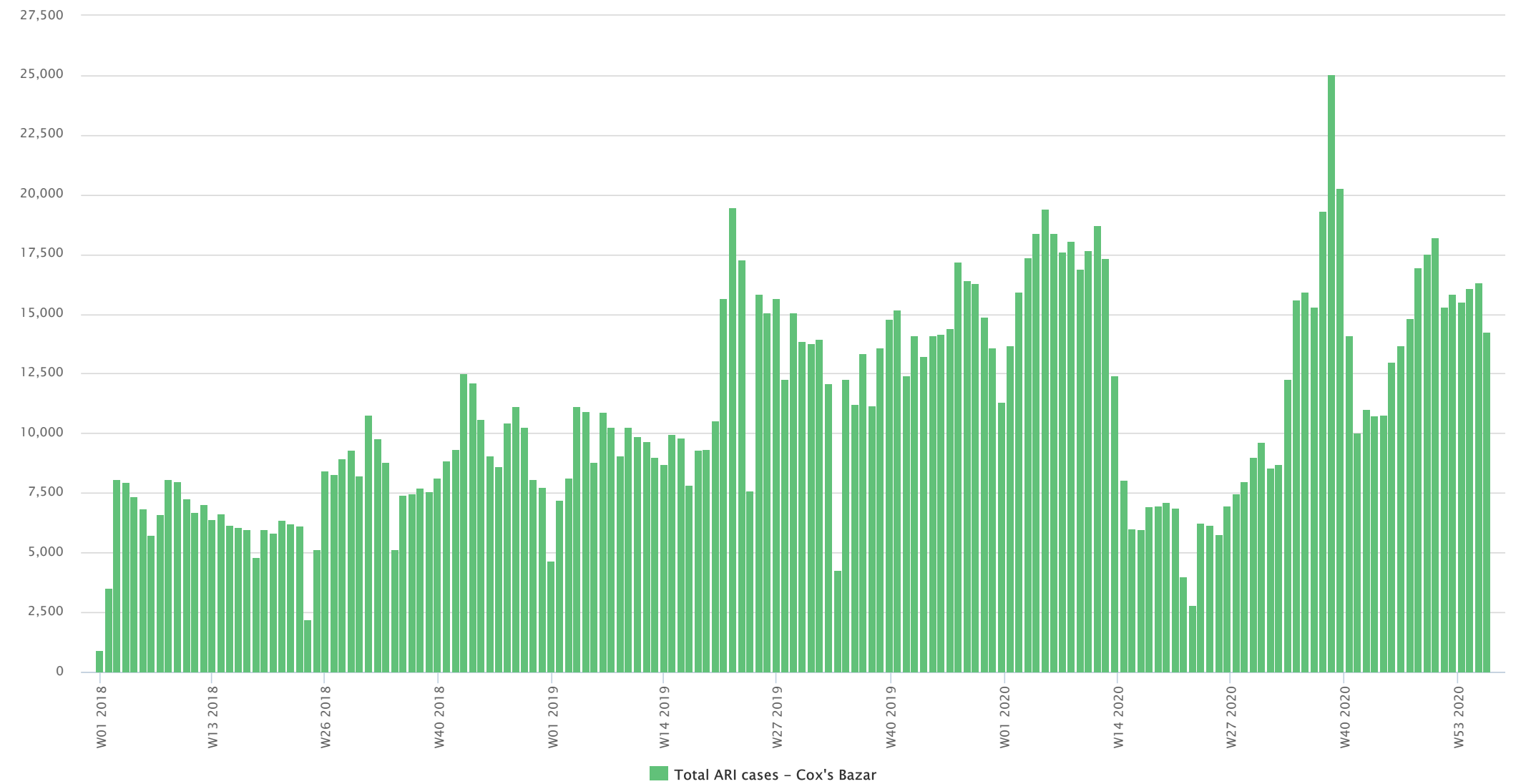
Total ARI cases – Cox's Bazar

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Acute Respiratory Infection | Maps and Alert Management

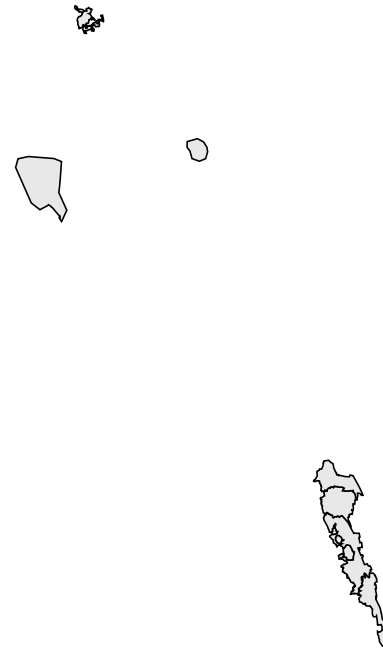**Map 1** | Map of cases by camp (W3 2021)

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 (W3 2021)

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

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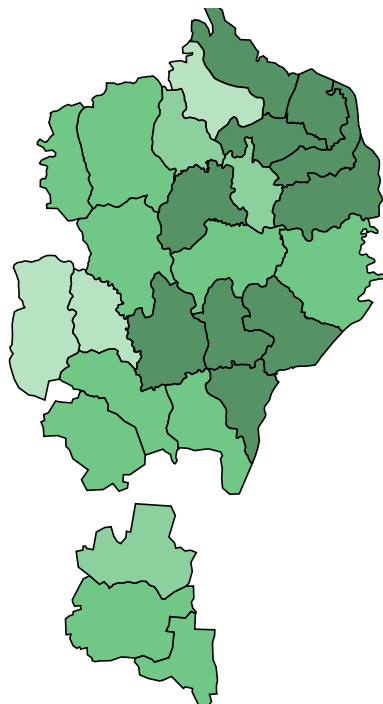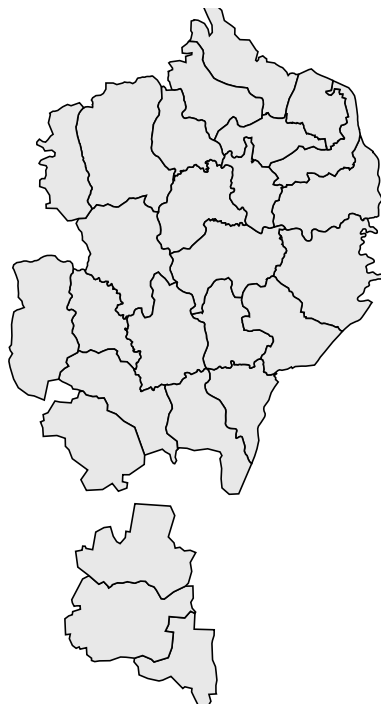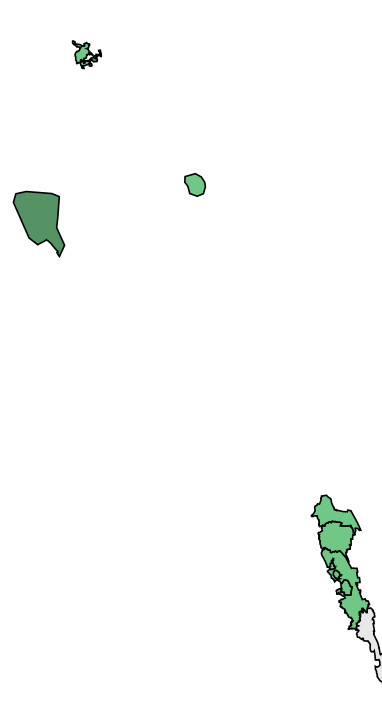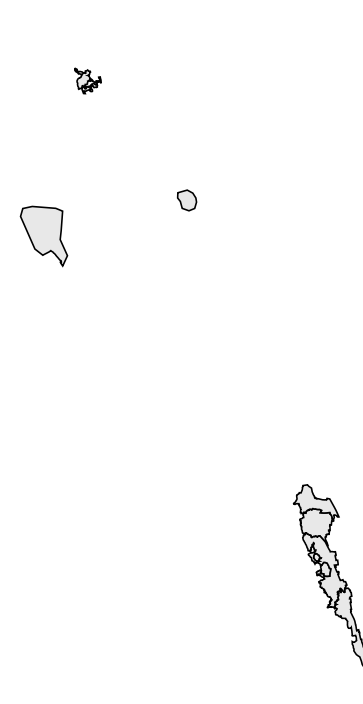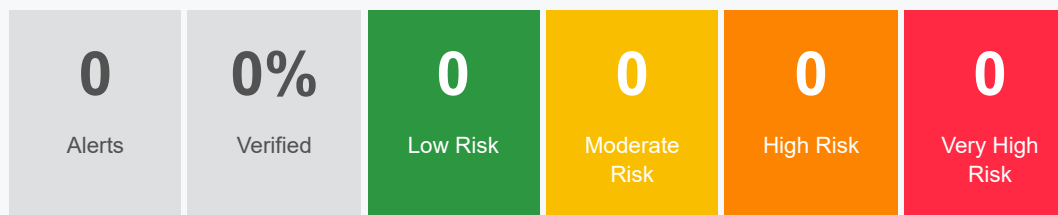
Figure 4 | Trend in number of suspected cases over time (W38 2017 - W3 2021)
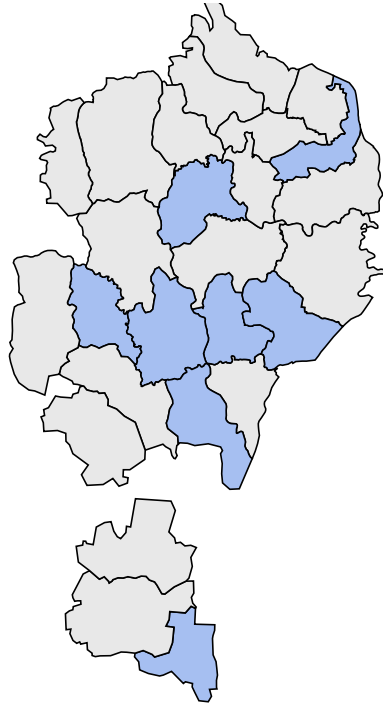
Total suspected measles/rubella cases – Cox's Bazar

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**Map 2** | Map of cases by camp (W3 2021)

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
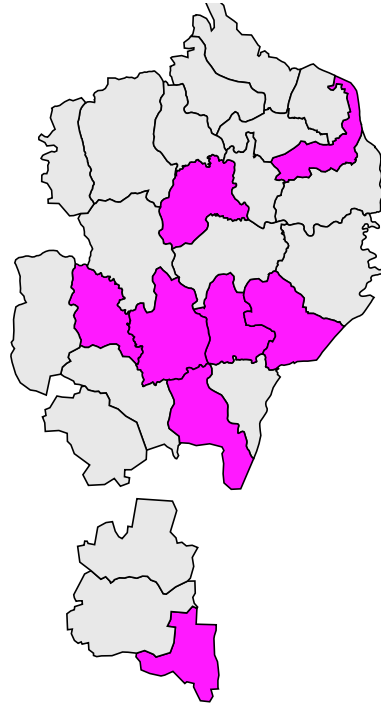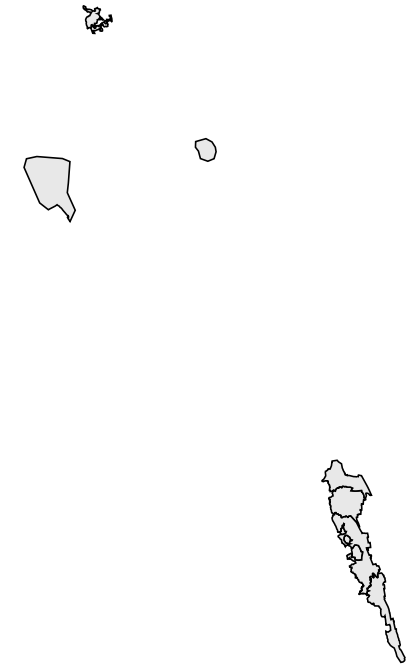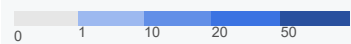
Alert threshold

1 case. *Source: IEDCR*

Alert management (W3 2021)

8	**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 - W3 2021)
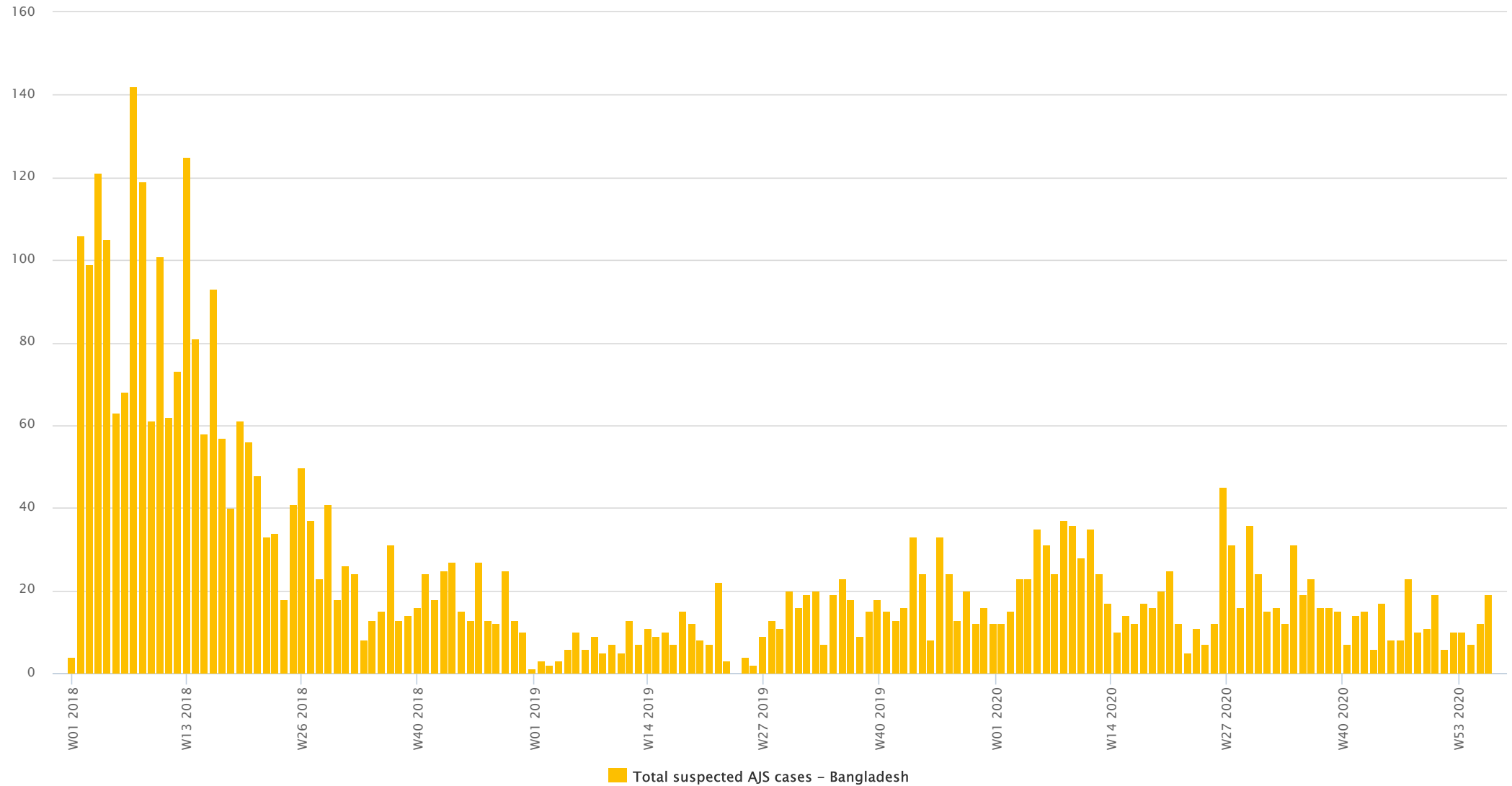
Total suspected AJS cases – Bangladesh

Map 3 | Map of cases by camp (W37 2017 - W3 2021)

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
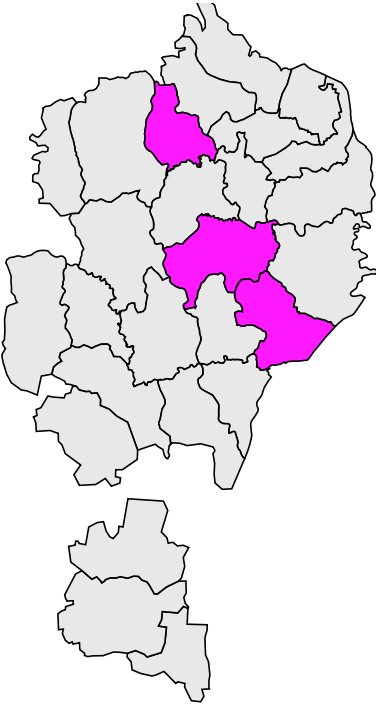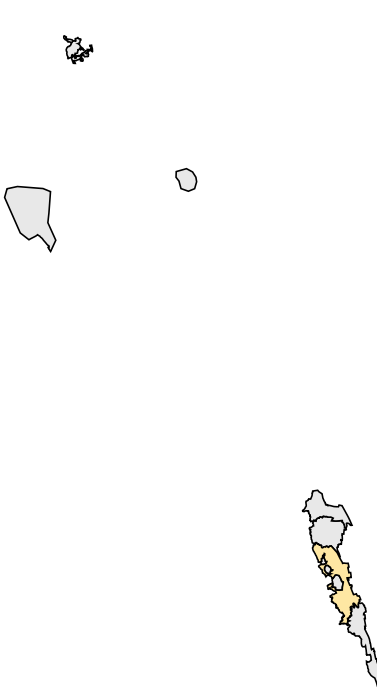
Alert threshold

A cluster of 3 or more cases seen in a health facility. *Source: IEDCR*
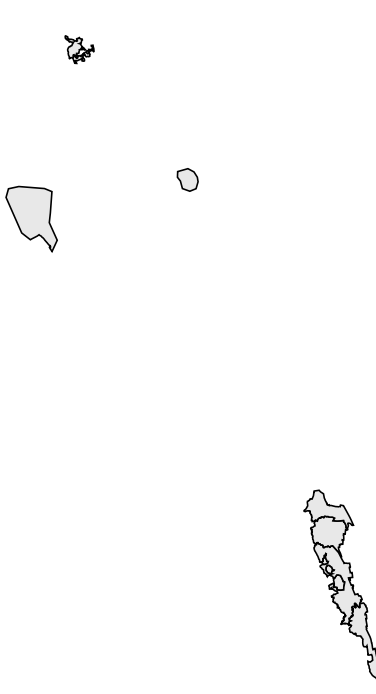
Alert management (W3 2021)

3	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 6 | Trend in number of cases over time (W38 2017 - W3 2021)
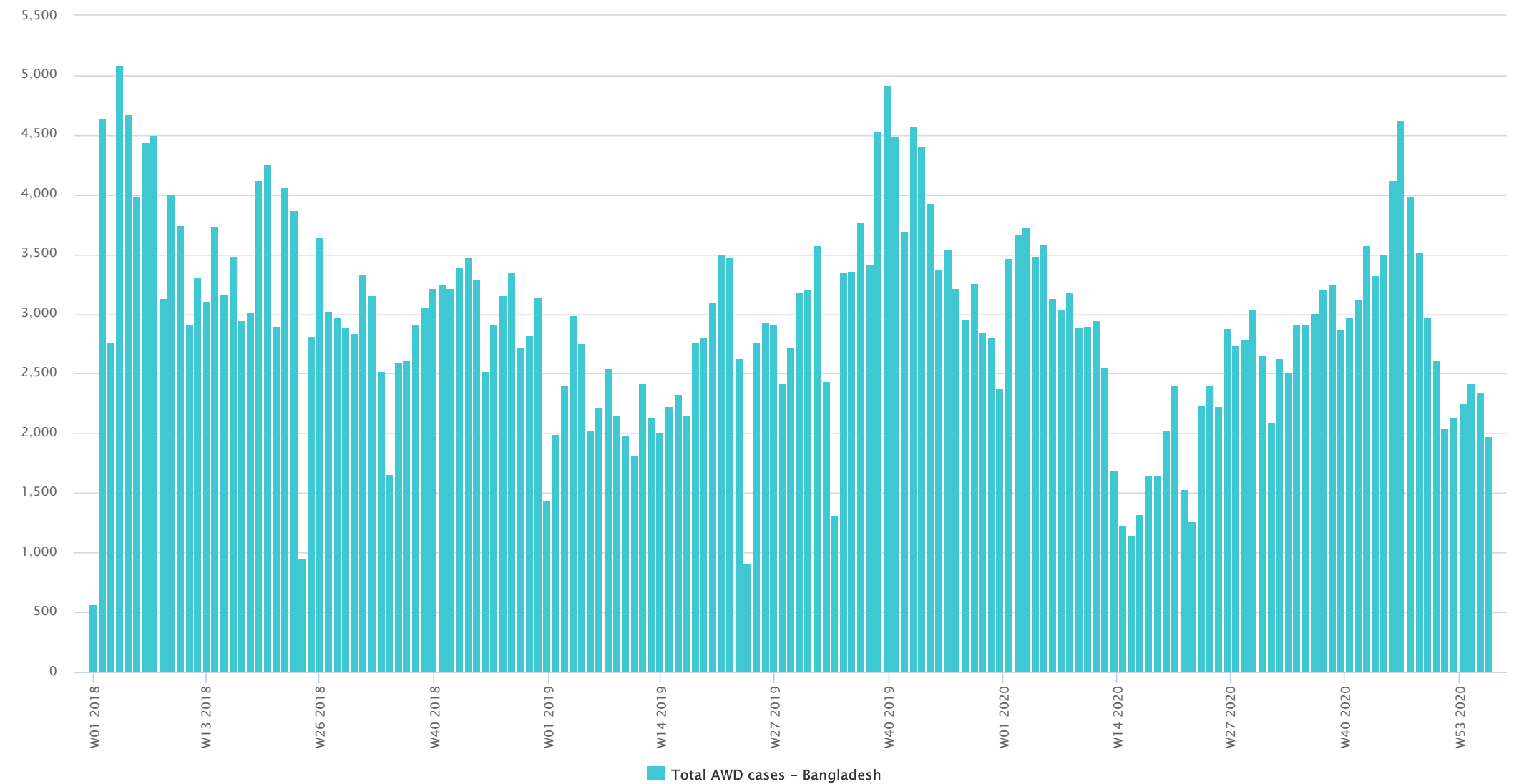
Total AWD cases – Bangladesh

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Figure 7 | Trend in number of cases over time (W38 2017 - W3 2021)

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

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Map 4 | Map of cases by camp (W37 2017 - W3 2021)

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*
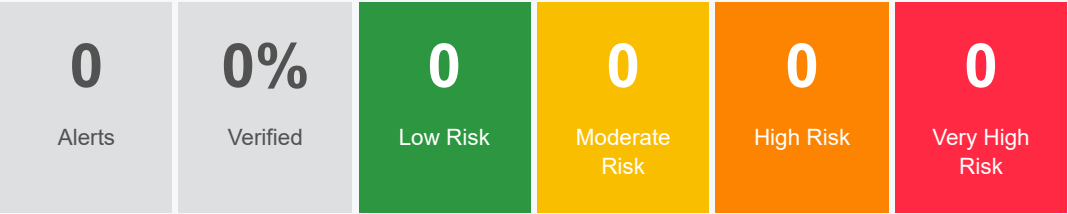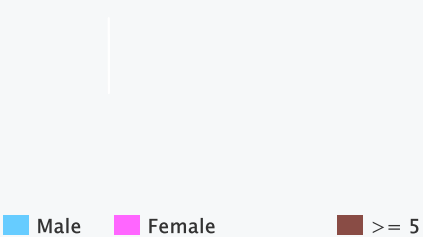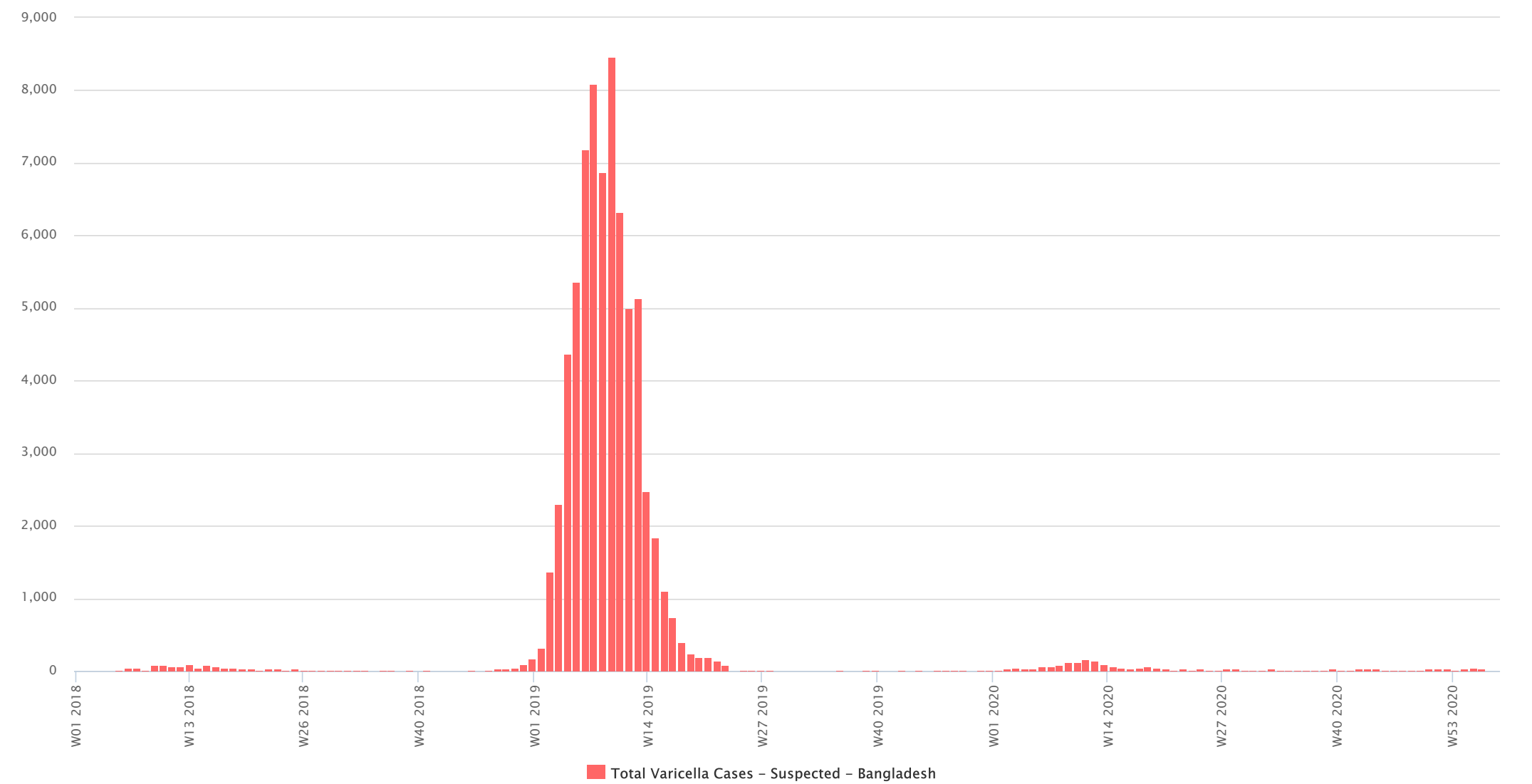
Alert management (W3 2021)

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

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Figure 7 | Trend in number of cases over time (W38 2017 - W3 2021)

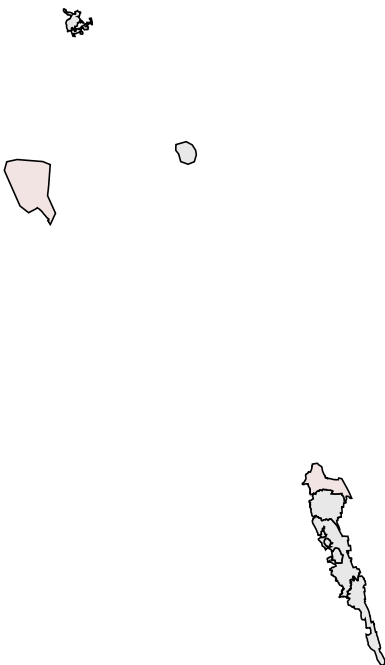Total Varicella Cases – Suspected – Bangladesh
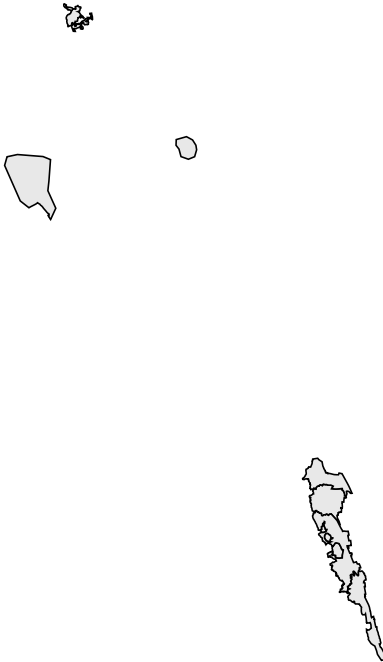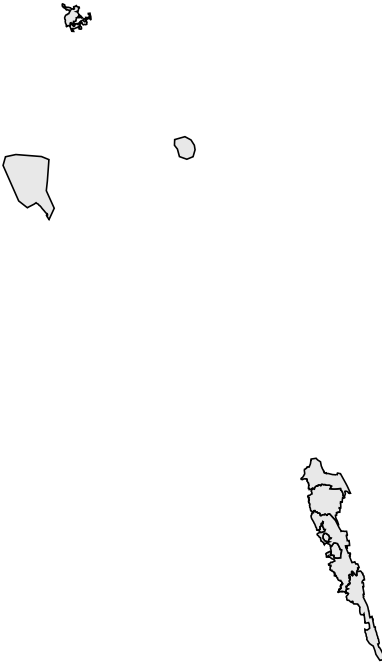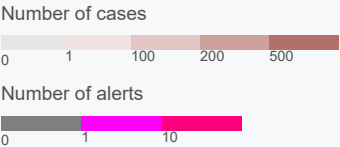
Map 4 | Map of cases by camp (W37 2017 - W3 2021)

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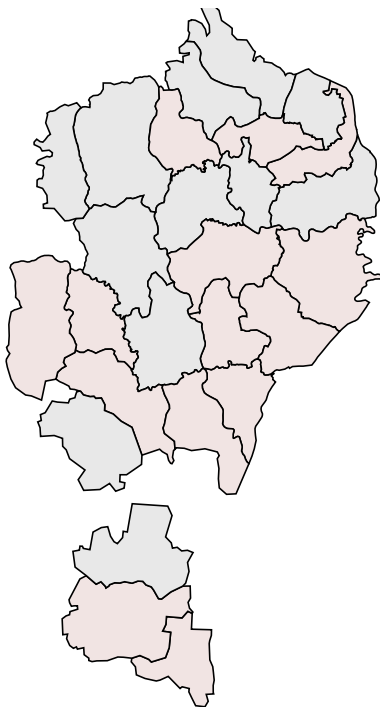
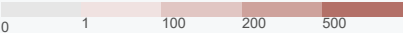**c. Teknaf** | Number of cases

Map legend

Number of cases

0	1	100	200	500	

Figure | % sex

■ Male ■ Female

Figure | % age

■ >= 5 ■ < 5

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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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Global EWARS