



Epidemiological Highlights

Week 01(4-10 Jan 2021)



**World Health
Organization**

Highlights: COVID-19

As of week 01 (04 – 10 Jan 2021) there are 371 confirmed cases of COVID-19 (SARS-CoV-2), 24 409 samples were tested.

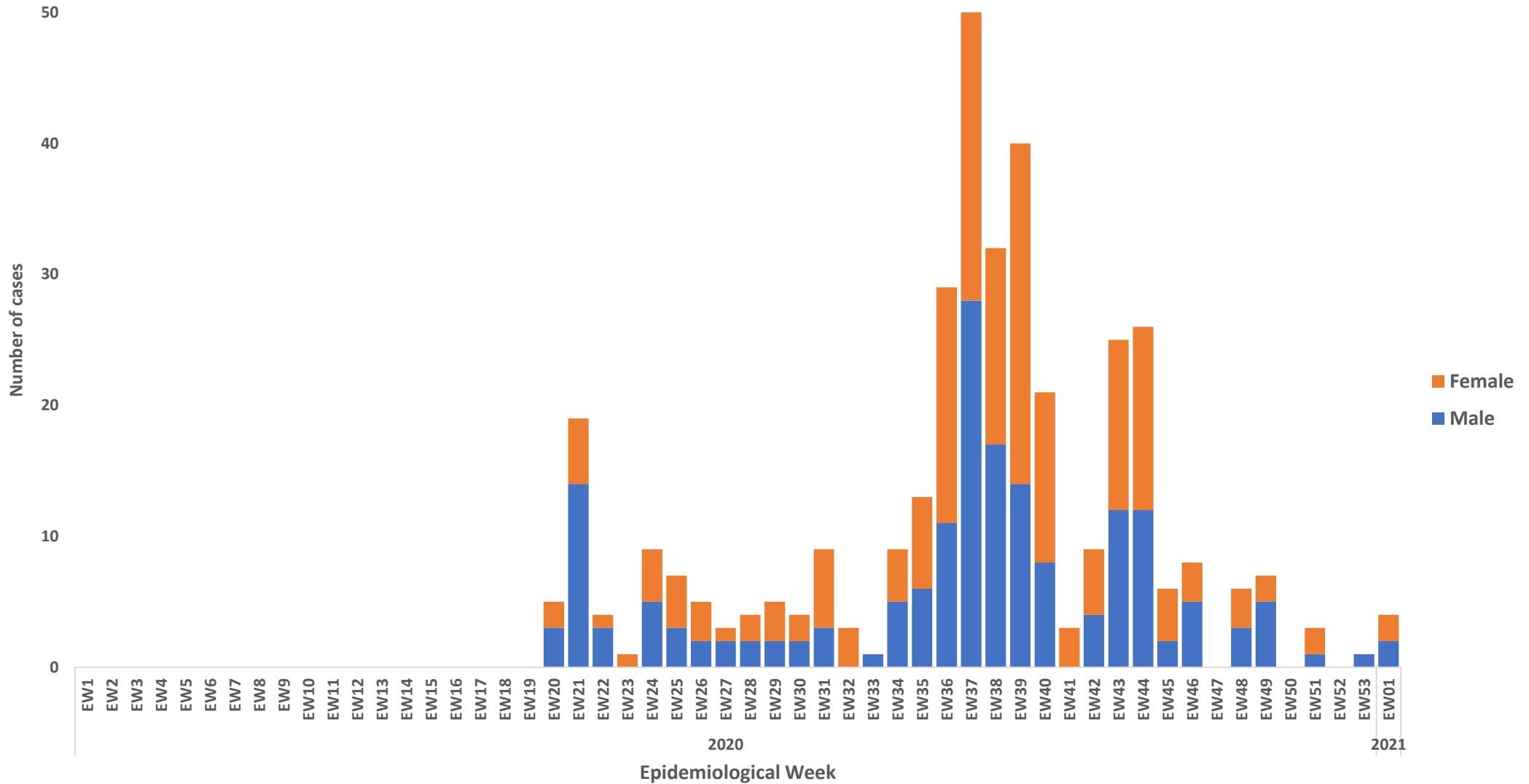
This week (week 01), 4 new confirmed case detected, 1 011 samples were tested, test positivity rate was 0.4%.

As of this week (week 01)

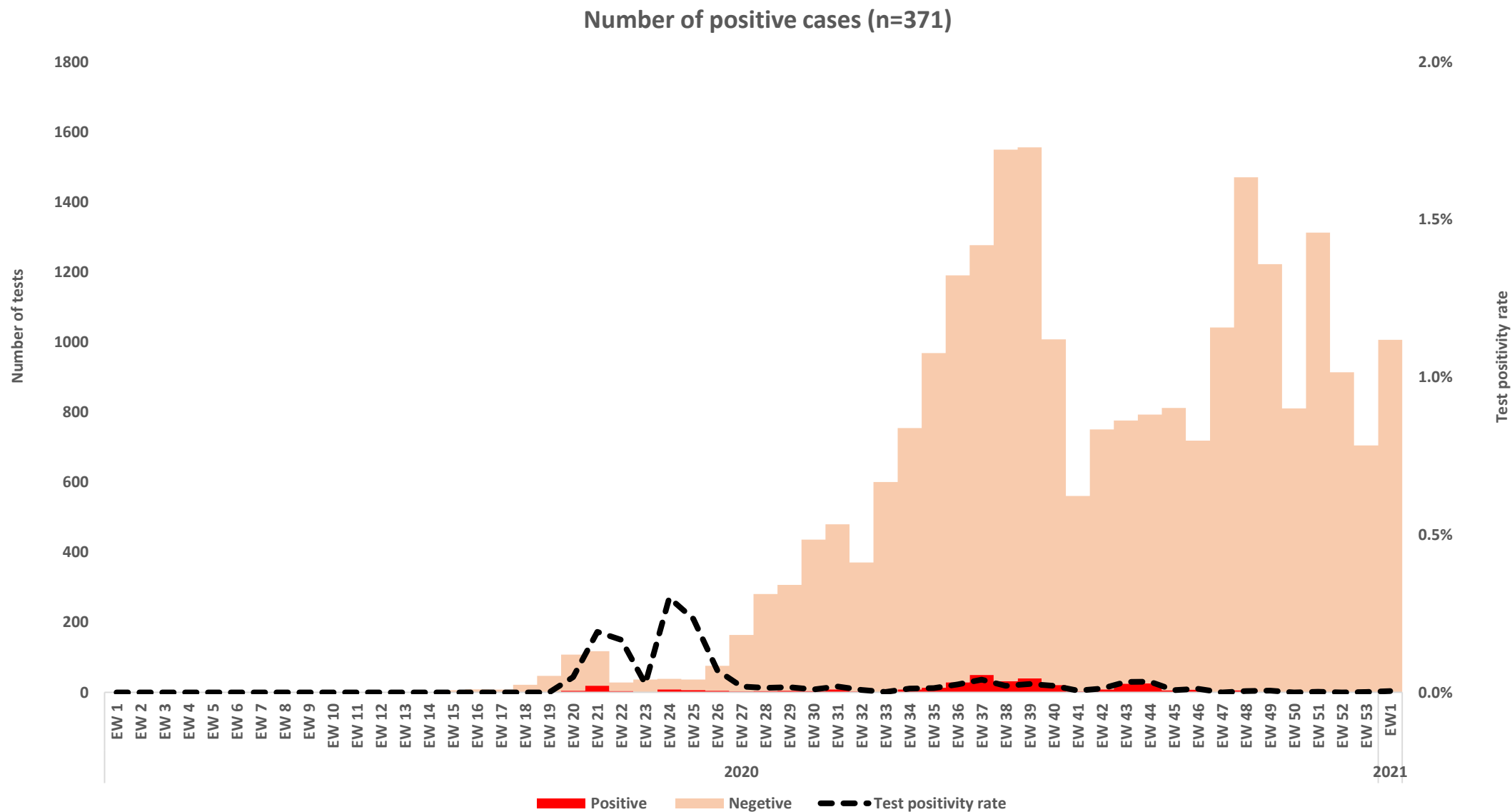
- median age of tested and confirmed cases is 10 (0-120) & 19 (0-90) years
- female among tested and confirmed cases is 55% and 52%
- all 34/34 camps have confirmed cases (C24-54, C2W-37, C3-27, C15-25, C6-22)
- a total of 10 deaths from COVID-19 with the case fatality rate 2.7%
- the incidence is 43.1 per 100,000 people with the growth rate 0.2%
- the overall positivity of all samples tested was 1.5%

Highlights: COVID-19

COVID-19 positive cases (n=371) by week of test

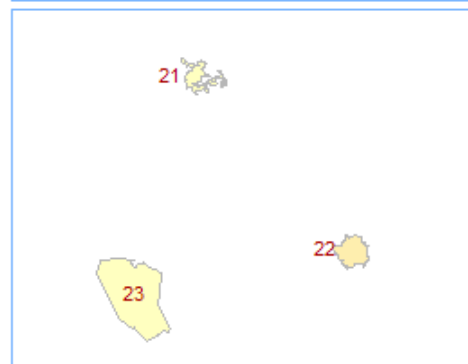
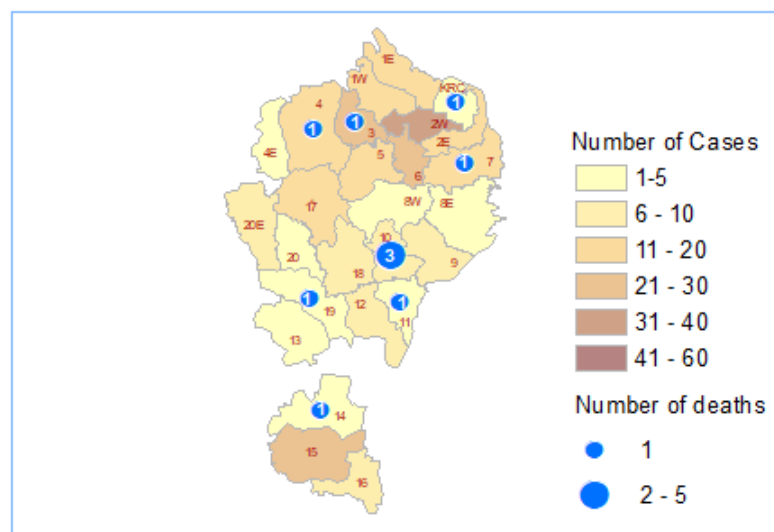


Highlights: COVID-19



Highlights: COVID-19

COVID-19 Cases in Rohingya Camps (As of 10 January 2021)

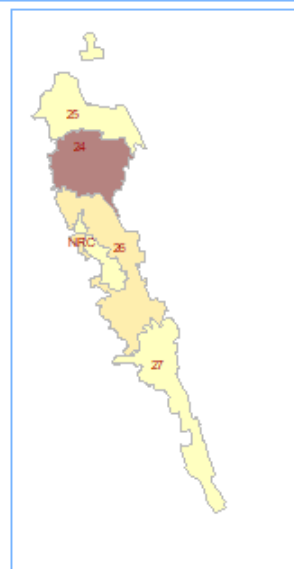


371 Confirmed cases in FDMN/Rohingya Refugee Camps

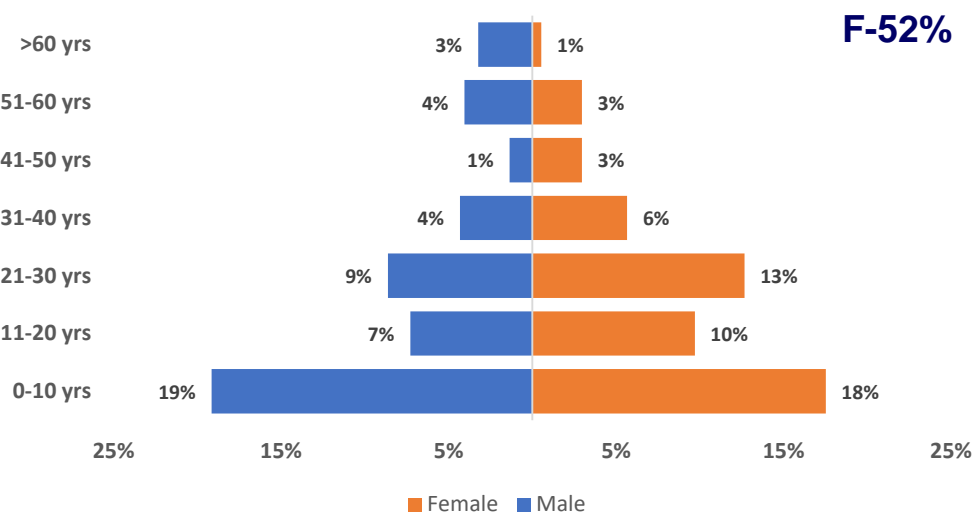
431 Confirmed cases/1 Million

10 Deaths in FDMN/Rohingya Refugee Camps

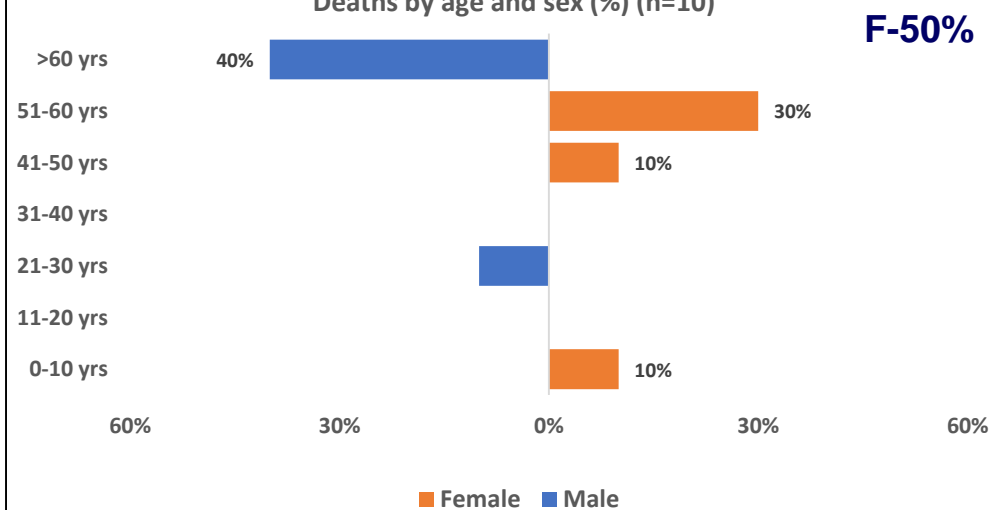
12 Deaths/1 Million



Age and sex distribution (%) (n=371)

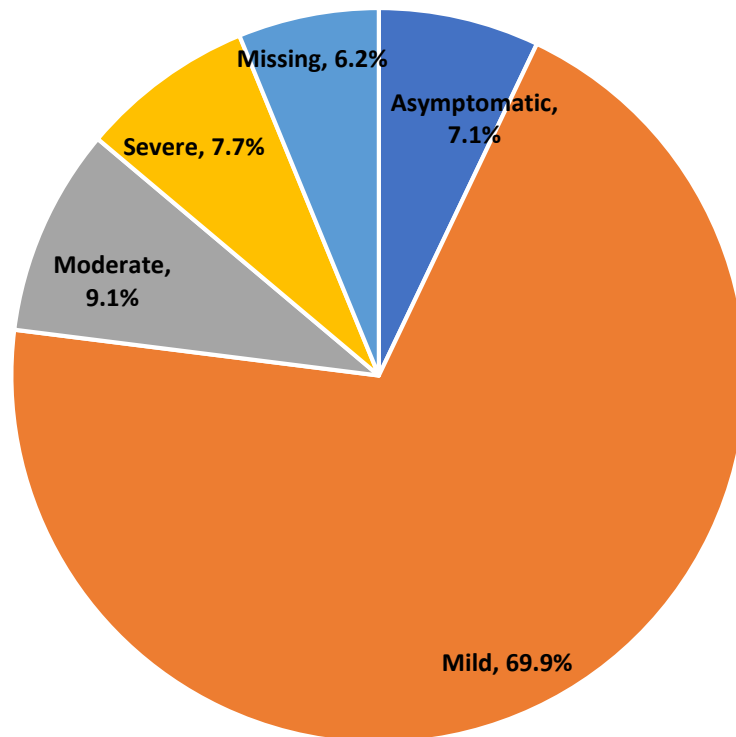


Deaths by age and sex (%) (n=10)

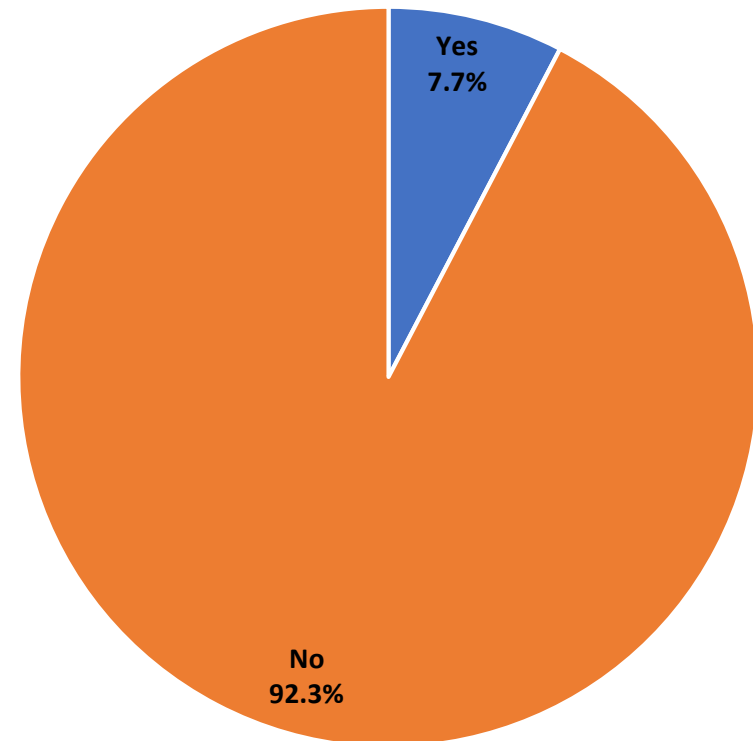


Highlights: COVID-19

Severity of reported cases at presentation (n=342)



Did the case report at least 1 co-morbidity (n=342)



Source: Go.Data

Highlights: COVID-19 Contact Tracing

- Total 342 (out of 371) confirmed cases have been investigated by rapid Investigation and Response Team (RIRT).
- 1,300 (96%) contacts have been identified and registered in the Go.Data for follow up
- 1,034 (80%) 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

EWARS Reporting Updates

- Total 147/166 (89%) health facilities registered in EWARS
- Only 128/147 weekly reports received in week 1.
- Completeness and Timeliness for this week is 83%
- Total 58 alerts were triggered in week 1.
- All alerts were reviewed and verified by WHO EWARS team which is less than as of previous week (37 in week 53).

Highlights:

- Acute Respiratory Infection (18.9%), Diarrheal Diseases (4.5%) & Unexplained Fever (0.9%) are the diseases with highest proportional morbidity in week 1.
- 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 (20) SARI death has been reported so far.

Diphtheria

Two (2) probable (1) and one suspected diphtheria case reported in go.data in week 1

A total of 9 189 case-patients were reported since 2017 to till date

- Confirmed = 339
- Probable = 2779
- Suspected = 6071

Total Case reported in 2021 = 3

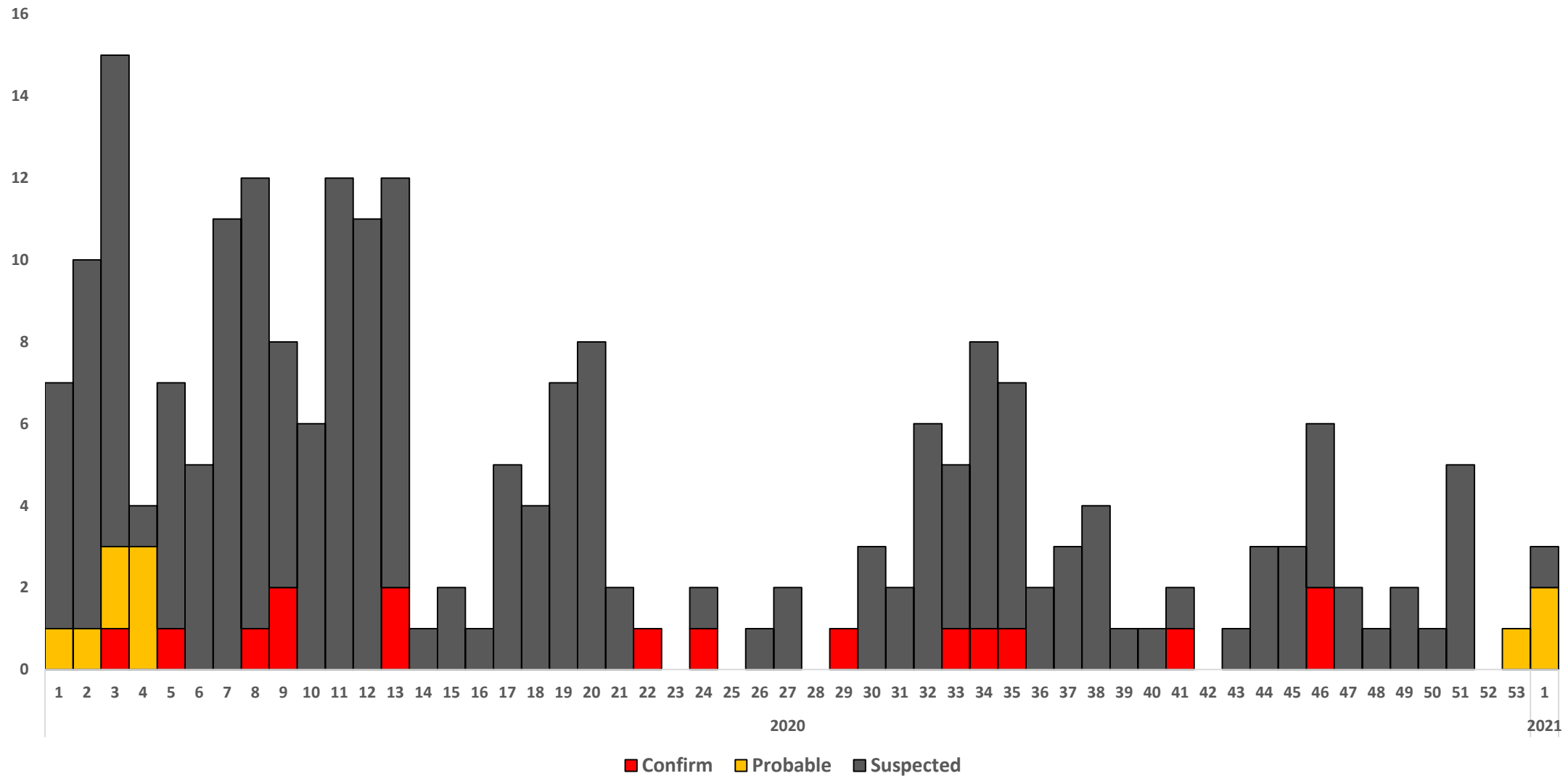
- Confirmed = 0
- Probable = 2
- Suspected = 1

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

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

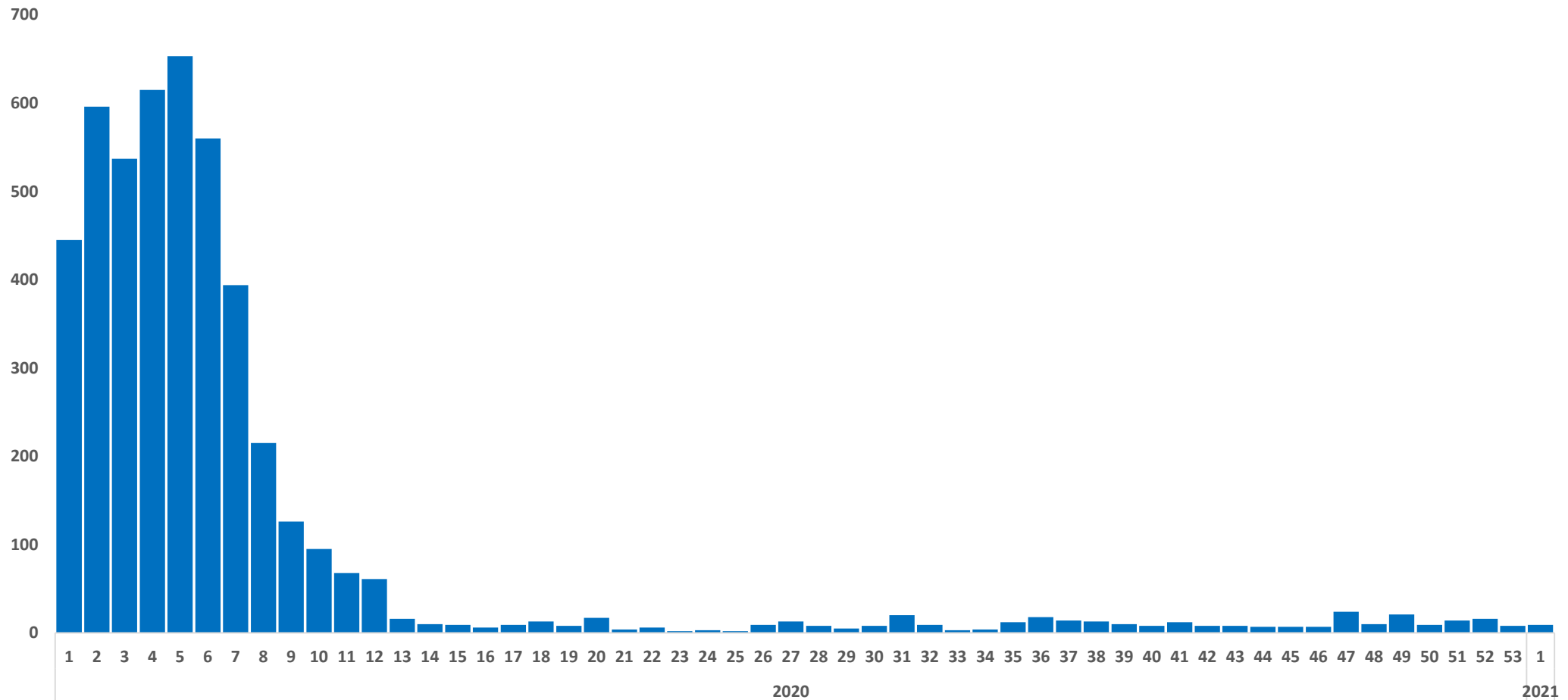
Diphtheria

Total number of diphtheria case reported in EWARS from 2020- EW1, 2021



Measles

Total number of Measles case reported in EWARS from 2020, EW1, 2021



Total 9 suspected measles cases were reported through aggregated weekly reporting in EWARS in week 01. Aggregated weekly report showed 9 and individual case report (CRF) found 9 (100%) in 2021.

Diarrhoeal Disease

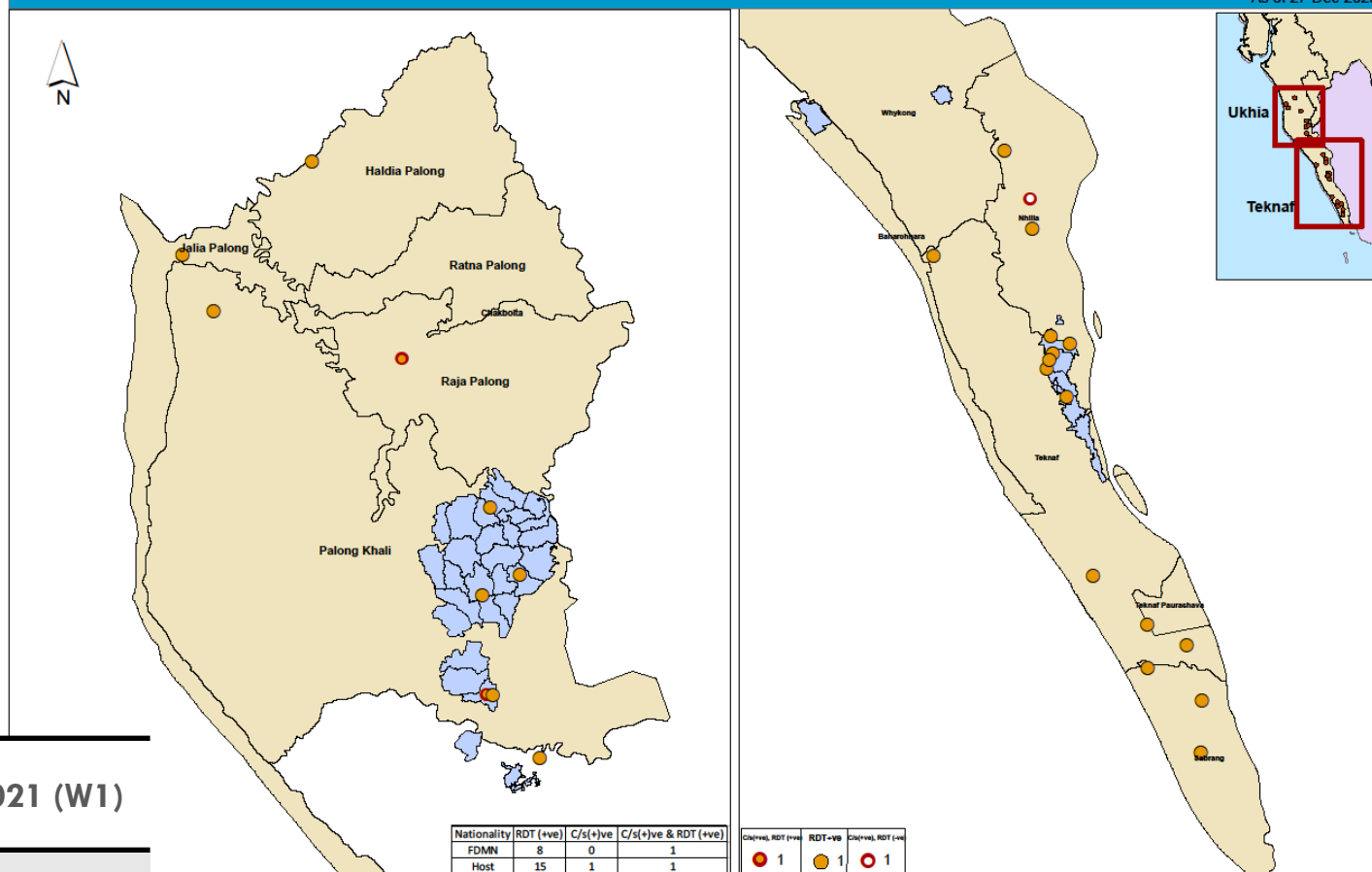
- A total of 3,316 cases of diarrhoeal diseases reported in EWARS in week 1.
- Among which 2,140 cases (2.9%) reported as acute watery diarrhoea (AWD), 828 (1.1%) and 348 (0.5%) cases as other diarrhea and bloody diarrhea respectively.
- Diarrhoeal diseases are the second highest contributor of proportional morbidity after acute respiratory infection (ARI).

Cholera Surveillance

- First and only one new Cholera RDT positive cases reported in W01 2021, tested negative 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 in 2020

As of 27-Dec-2020



2018 2019 2020 2021 (W1)

RDT positive
for Cholera

49 258 28 1

Culture Confirmed
for Cholera

7 184 5* 0

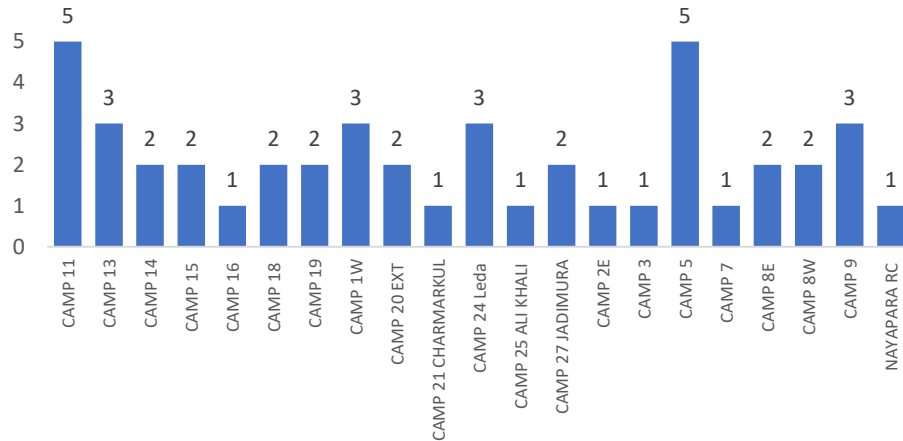
*3 culture confirmed cases were RDT negative in 2020

Community-based Mortality surveillance

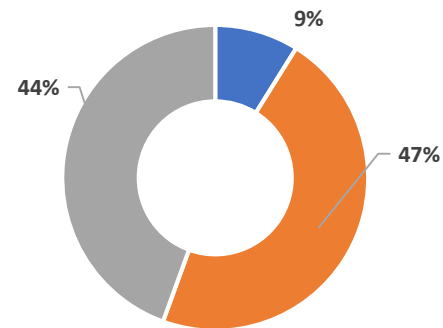
- In week 1 total of 45 deaths were recorded, 67% (n=30) were due to causes classified as “Others”, 13% (n=6) as Still birth (Born Dead), 13% (n=6) as Neonatal (<28 days old) and 2% (n=1) as Severe acute Respiratory illness.
- One mortality alert raised for women of reproductive age (12-49 years).
- 21.5% of deaths reported in the health facility, 20.4% of deaths reported in homes and 4.9% deaths reported from Community/ Public place.
- Partners to report all mortalities into EWARS using the “Community-based mortality surveillance” and “Facility-based mortality surveillance” form.

Community-based Mortality Surveillance

Camp wise deceased distribution (n=45)

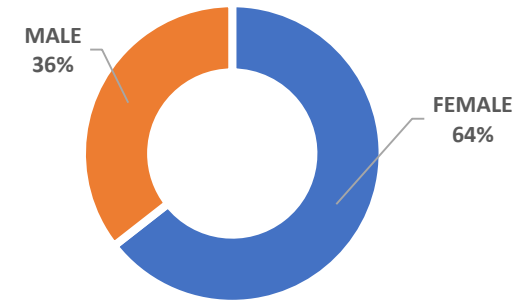


Place of death (n=45)



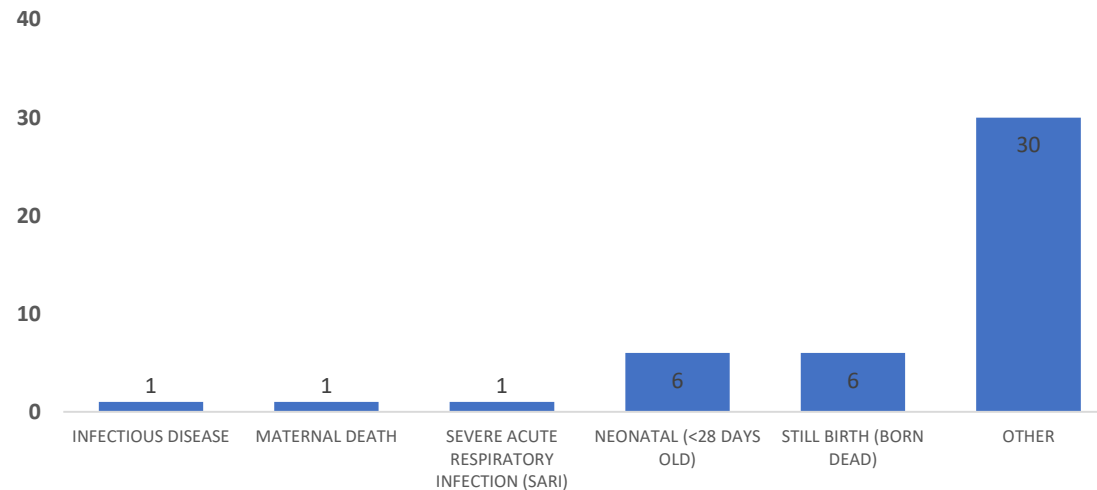
■ COMMUNITY/PUBLIC PLACE ■ HEALTH FACILITY ■ HOME

Sex distribution (n=45)



■ FEMALE ■ MALE

Probable cause of death (n=45)



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W1 2021



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



HEALTH SECTOR
COX'S BAZAR



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Sources of data

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

Highlights W1 2021

Table 1 | Coverage

#	%	
866,457	-	Estimated total Rohingya population ¹
866,457	100%	Total population under surveillance
166	-	Total number of health facilities
147	89%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W1	Cumulative (2021)	
128	252	Number of weekly reports received
83%	82%	Completeness
83%	79%	Timeliness

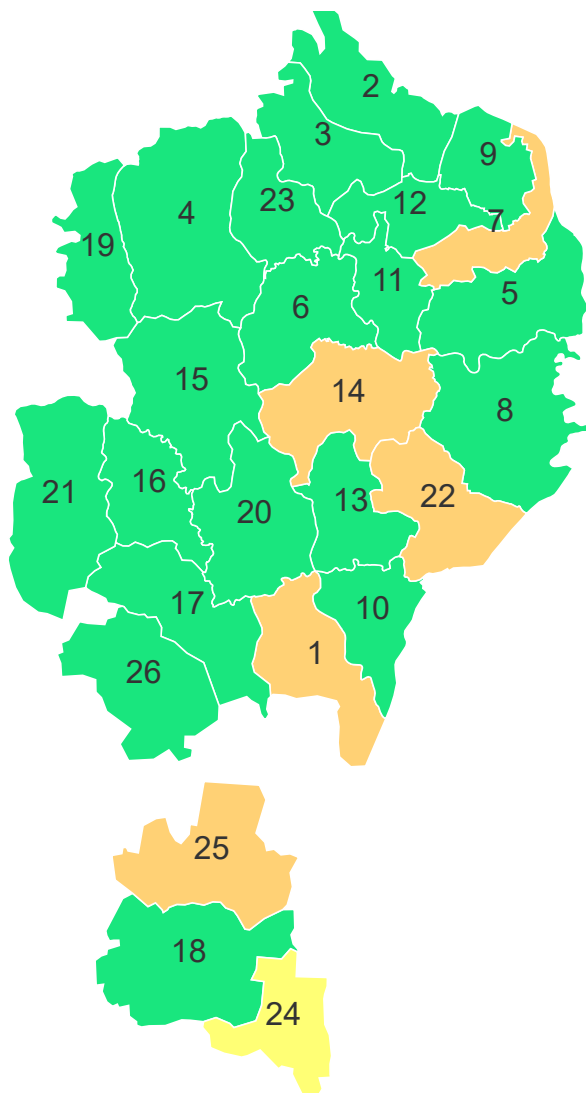
Table 3 Alert performance indicators

W1	Cumulative (2021)	
58	95	Total alerts raised
100%	89%	% verified
0%	0%	% auto-discarded
0%	0%	% undergoing risk assessment
0%	0%	% completed risk assessment

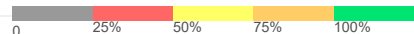
¹ Source: UNHCR. Bangladesh: Joint Government of Bangladesh- UNHCR Population Factsheet. 31 December 2019.

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

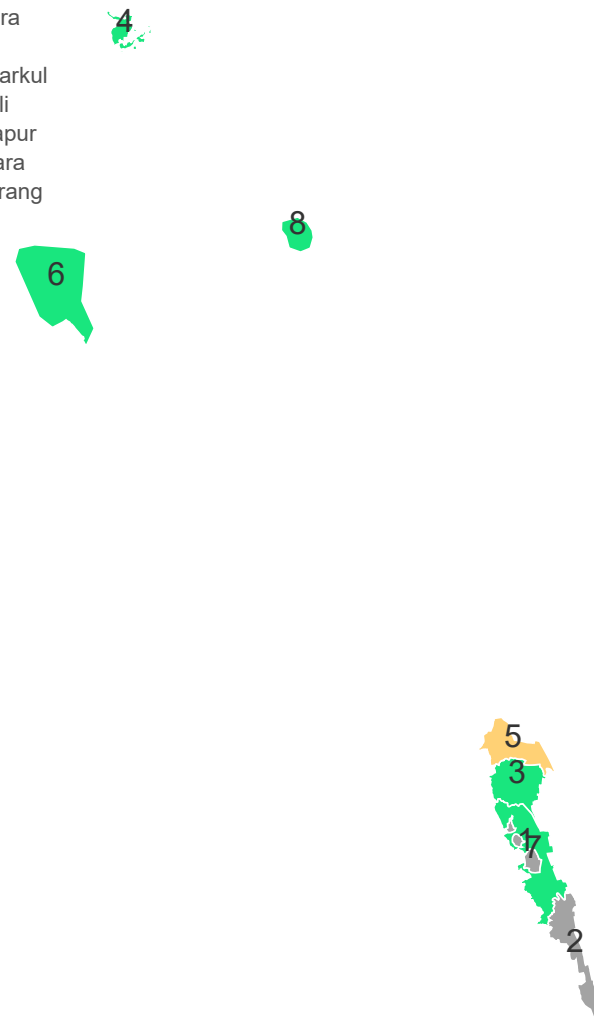


Completeness



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

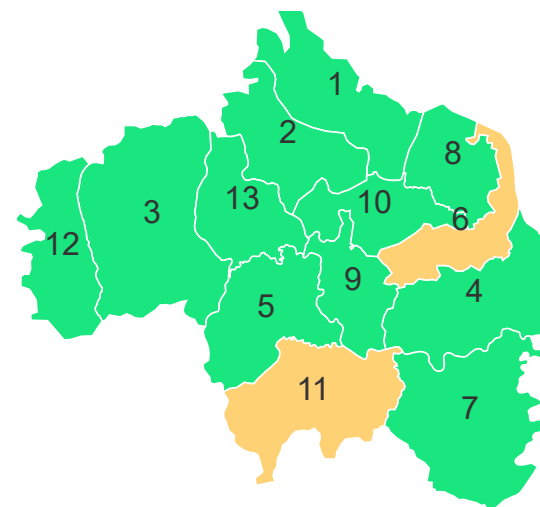


Table 4 | Performance by camp (W1 2021)

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	2	1	50%	50%
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	5	100%	100%
Camp 6	2	2	100%	100%
Camp 7	6	5	83%	83%
Camp 8E	7	7	100%	100%
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



Table 5 | Performance by camp (W1 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	7	78%	78%
Camp 14	6	4	67%	67%
Camp 15	10	8	89%	89%
Camp 16	5	2	40%	40%
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	4	67%	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

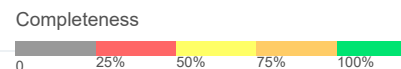
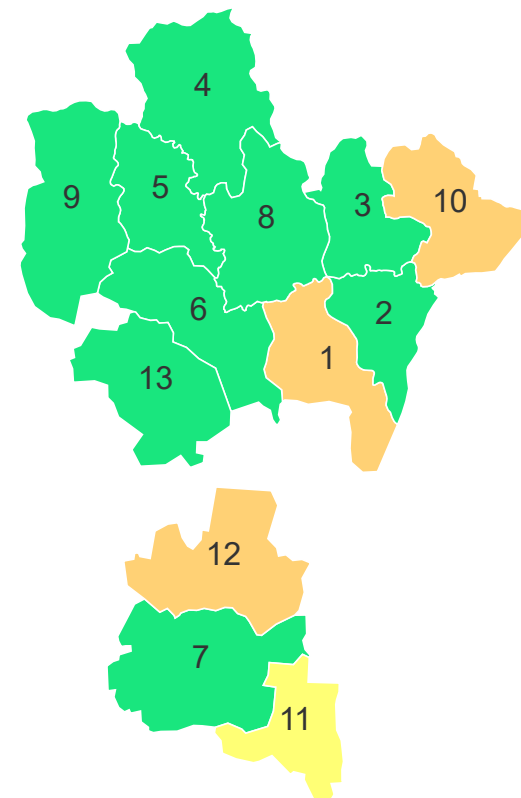
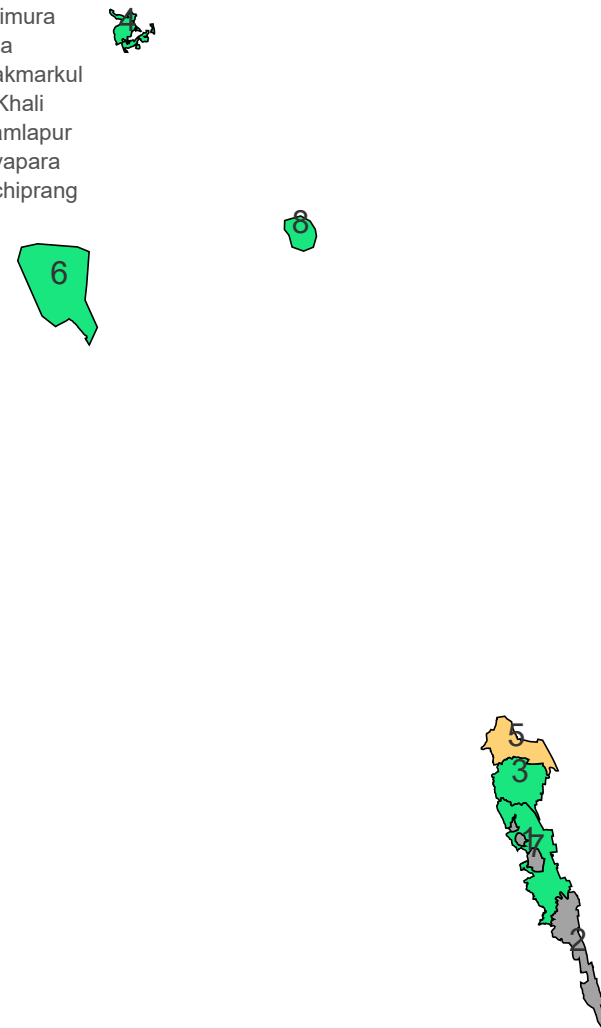


Table 6 | Performance by camp (W1 2021)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	4	3	75%	75%
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	2	67%	67%
Camp 26 Nayapara	3	4	100%	100%
Camp 27 Jadimura	1	0	0%	0%
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



Table 7 | Performance by partner (W1 2021)

Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
BDRCS	10	8	80%	80%
BRAC	11	10	91%	91%
CARE	4	0	0%	0%
FHM	0	0		
FRNDS	12	10	83%	83%
GK	9	9	100%	100%
HMBDF	1	1	100%	100%
IOM	21	18	86%	86%
IRC	2	2	100%	100%
MSF	9	4	44%	44%
MoH	1	1	100%	100%
Hope	1	1	100%	100%
Medair	2	2	100%	100%

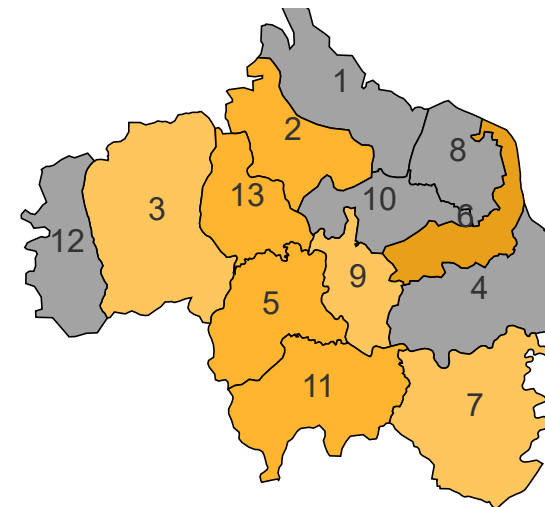
Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
FH/MTI	3	3	100%	100%
PHD	8	8	100%	100%
PWJ	1	1	100%	100%
RHU	1	1	100%	100%
RI	3	3	100%	100%
RTMI	9	9	100%	100%
SCI	9	6	67%	67%
TdH	1	1	100%	100%

Table 8 | Performance by camp

Northern group	W1		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	0	0%	1	100%
Camp 1W	3	100%	8	88%
Camp 2E	6	100%	9	89%
Camp 2W	0	0%	1	0%
Camp 3	3	100%	5	100%
Camp 4	1	100%	2	100%
Camp 4 Ext	0	0%	1	0%
Camp 5	4	50%	5	60%
Camp 6	2	100%	3	100%
Camp 7	0	0%	0	0%
Camp 8E	1	100%	2	100%
Camp 8W	3	100%	6	67%
Kutupalong RC	0	0%	0	0%

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

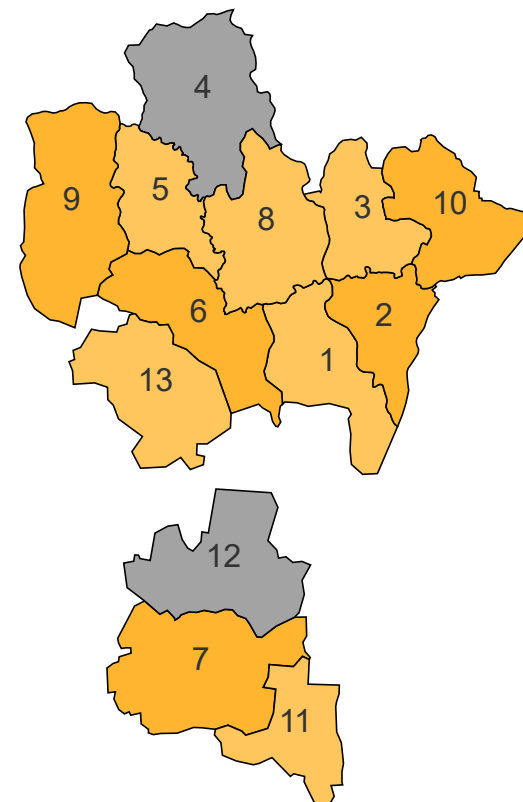


Table 9 | Performance by camp

Southern group	W1		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	2	100%	5	80%
Camp 11	4	100%	5	100%
Camp 12	1	100%	2	50%
Camp 13	2	100%	3	100%
Camp 14	0	0%	0	0%
Camp 15	3	100%	4	100%
Camp 16	1	100%	2	100%
Camp 17	0	0%	0	0%
Camp 18	2	100%	4	100%
Camp 19	3	100%	4	100%
Camp 20	1	100%	2	100%
Camp 20 Ext	4	100%	4	100%
Camp 9	4	100%	7	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



Table 10 | Performance by camp

Teknaf	W1		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	1	100%	1	100%
Camp 22 Unchiprang	0	0%	1	100%
Camp 23 Shamlapur	1	100%	1	100%
Camp 24 Leda	2	100%	2	100%
Camp 25 Ali Khali	1	100%	1	100%
Camp 26 Nayapara	0	0%	1	100%
Camp 27 Jadimura	1	100%	1	100%
Nayapara RC	1	100%	1	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

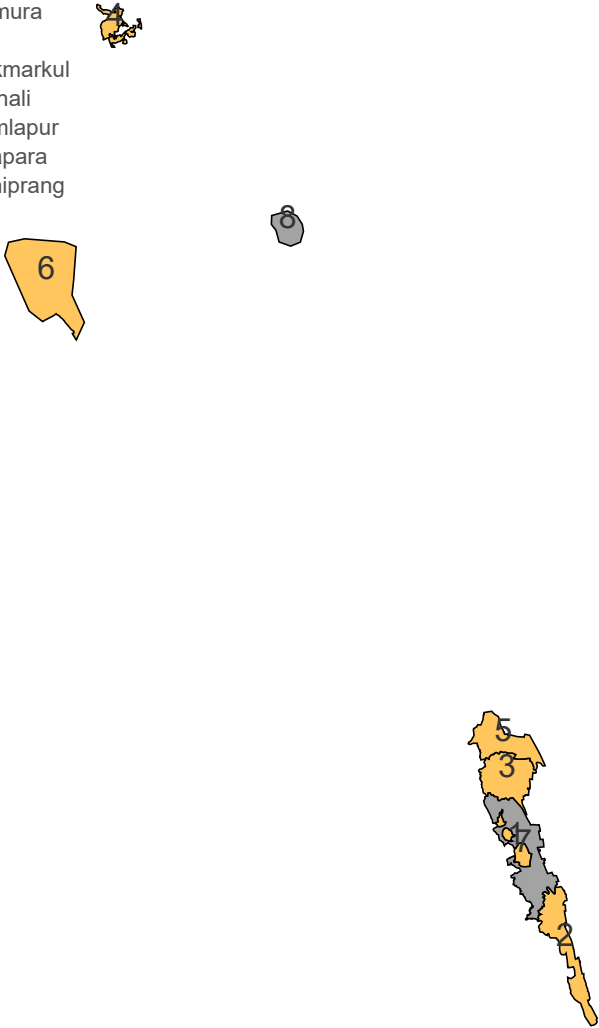


Table 11 | Performance by type of alert

Event	W1		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	9	100%	15	100%
Bloody Diarr.	0	0%	0	0%
AFP	1	100%	1	100%
Meningitis	0	0%	0	0%
Haem. fever (susp.)	0	0%	0	0%
NNT	0	0%	0	0%
Unexp. fever	1	100%	5	100%
AWD	4	100%	10	100%
ARI	5	100%	7	100%
AJS	0	0%	0	0%
Varicella (Susp.)	0	0%	0	0%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	1	100%	1	100%

Table 12 | Risk assessment

W1	Cumulative (2021)	
0	0	Low risk
0	0	Moderate risk
0	0	High risk
0	0	Very high risk

For more help and support, please contact:

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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
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Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W1 2021



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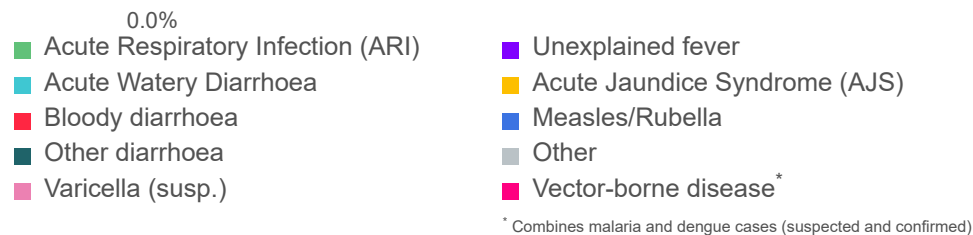
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Proportional morbidity

Figure 1 | Proportional morbidity (W1 2021)



Disease	W1		2021	
	# cases	% morbidity	# cases	% morbidity
AWD	2,140	2.9%	4,076	2.8%
Bloody diarr.	348	0.5%	632	0.4%
Other diarr.	828	1.1%	1,535	1.1%
Susp. Varicella	23	0.0%	38	0.0%
ARI	14,034	18.9%	27,034	18.6%
Measles/Rub.	22	0.0%	30	0.0%
AFP	1	0.0%	1	0.0%
Susp. menin.	0	0.0%	0	0.0%
AJS	6	0.0%	16	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%	0	0.0%
Dengue (conf.)	0	0.0%	0	0.0%
Dengue (susp.)	0	0.0%	0	0.0%
Unexpl. fever	670	0.9%	1,401	1.0%
Sev. Malnut.	30	0.0%	58	0.0%
Inj./Wounds	1,839	2.5%	3,595	2.5%
Other	54,357	73.1%	107,131	73.6%
Total	73,650	100%	145,596	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W1)

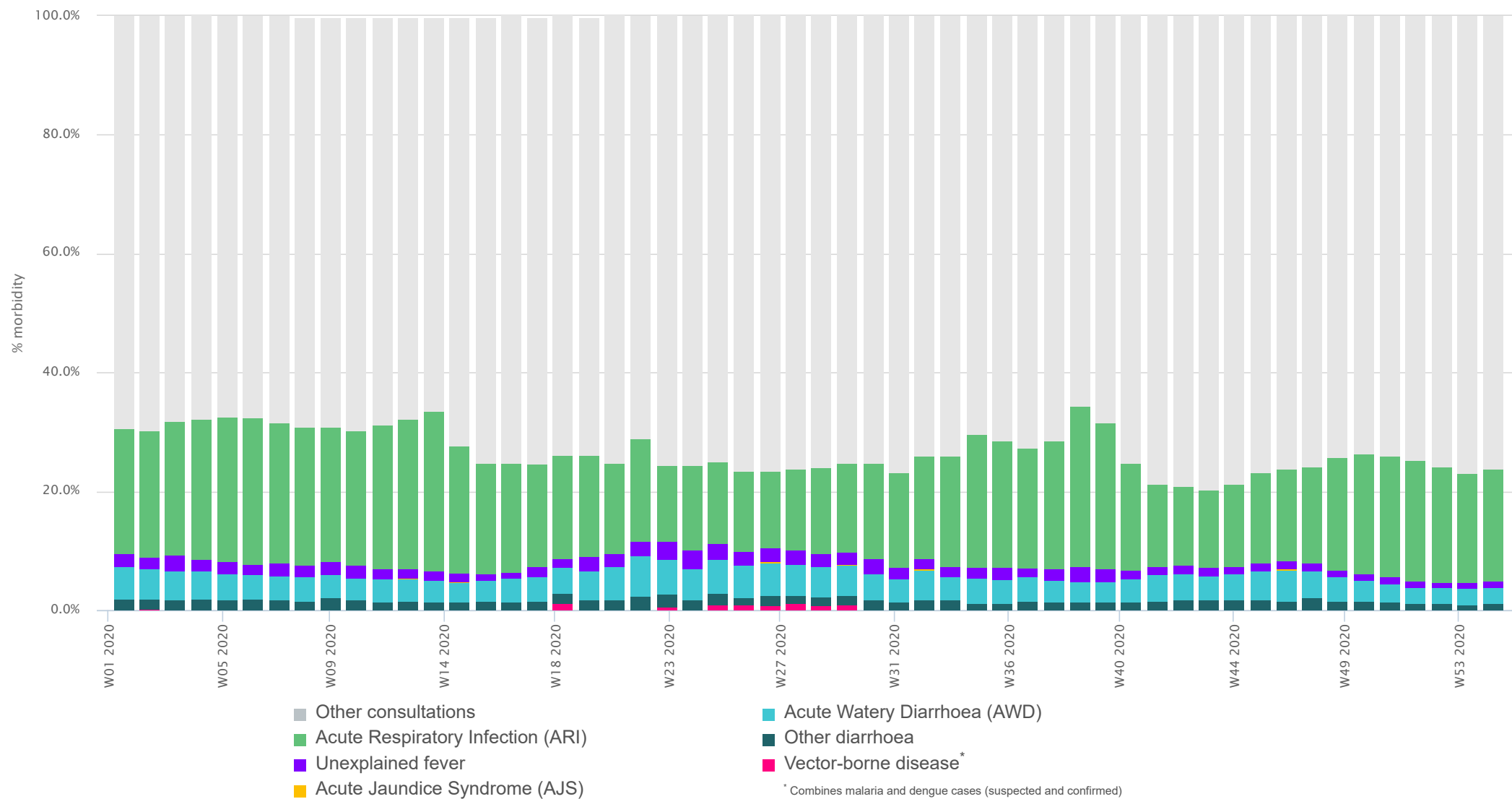
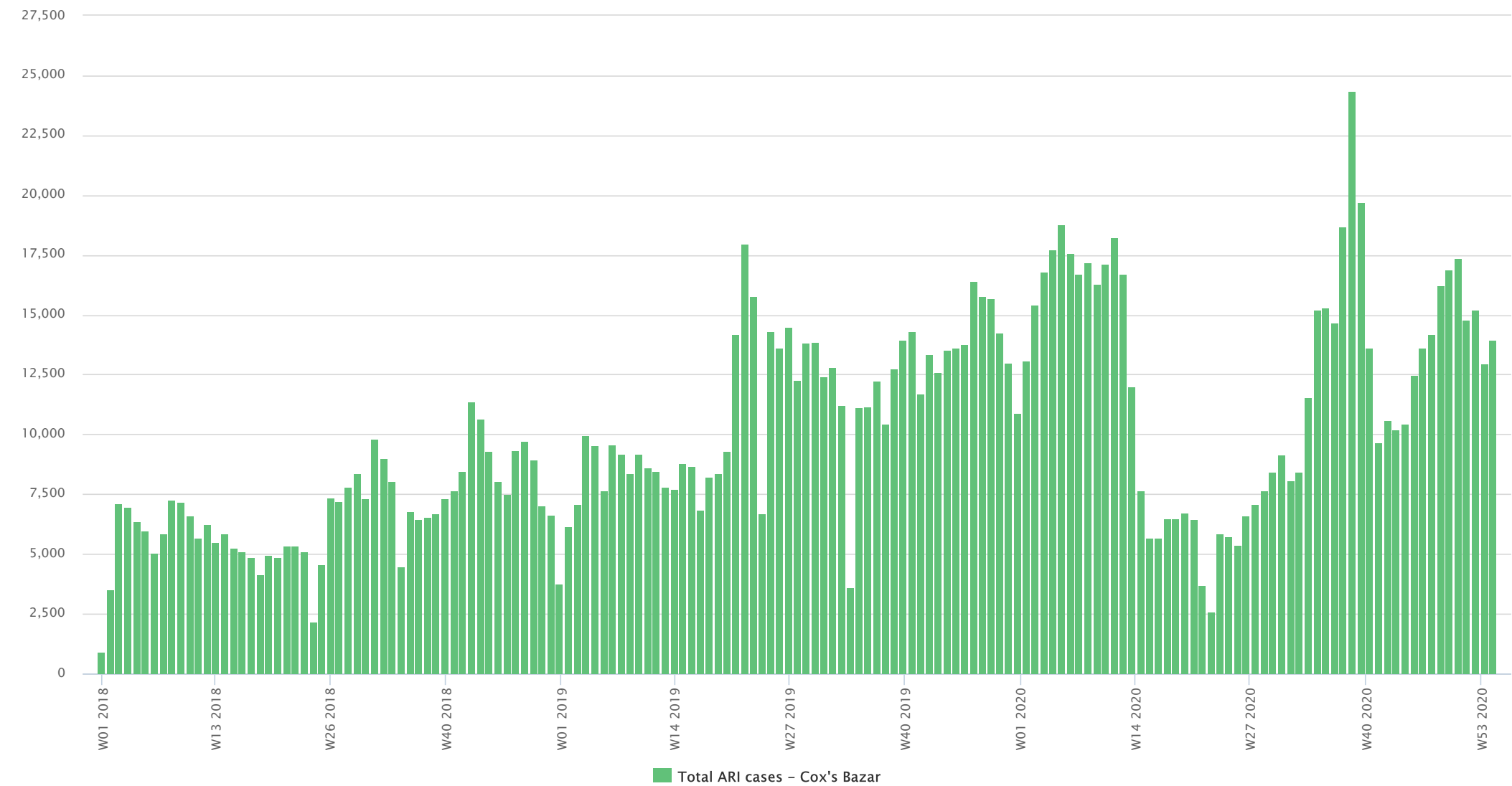
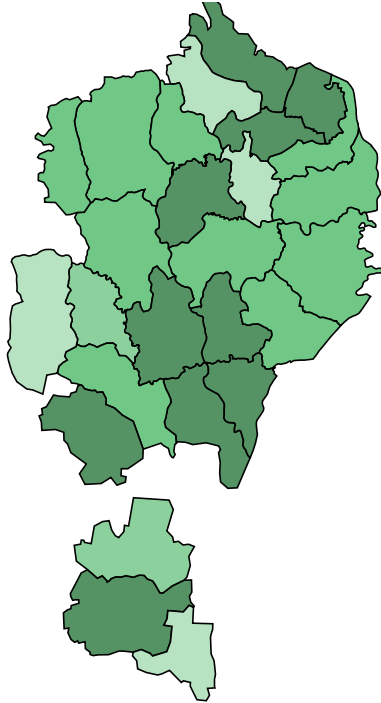


Figure 3 | Trend in number of cases over time (W38 2017 - W1 2021)

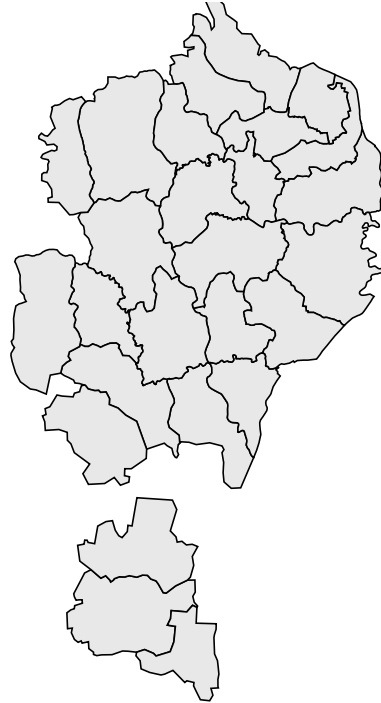


Map 1 | Map of cases by camp (W1 2021)

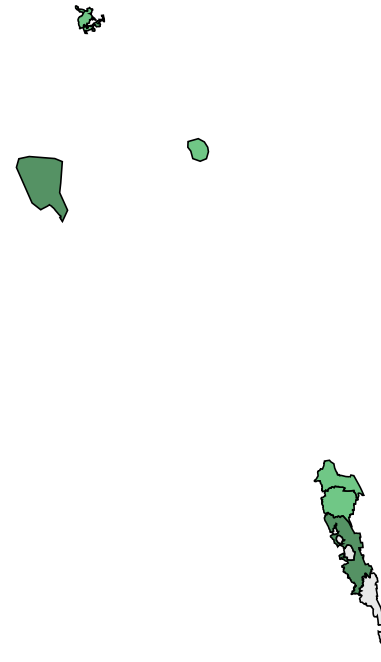
a. Ukhia | Number of cases



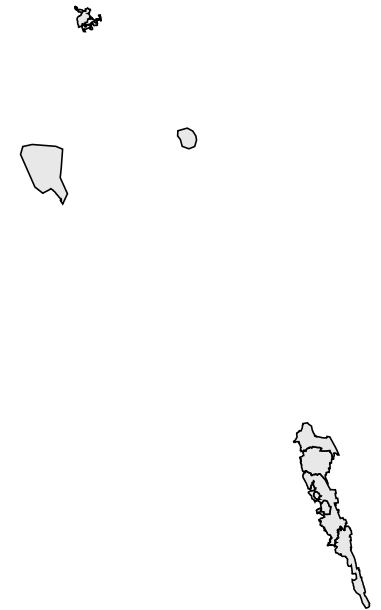
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend

Number of cases



Number of alerts



Alert threshold

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

Alert management (W1 2021)

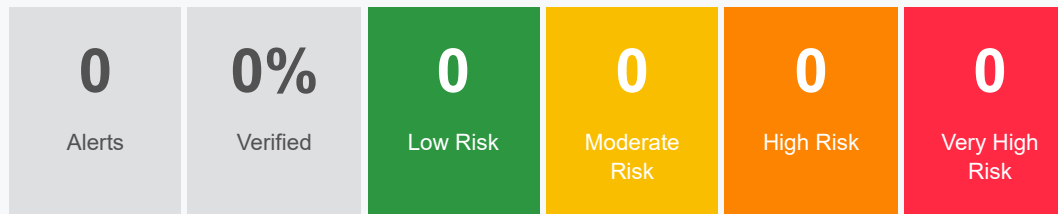


Figure | % sex



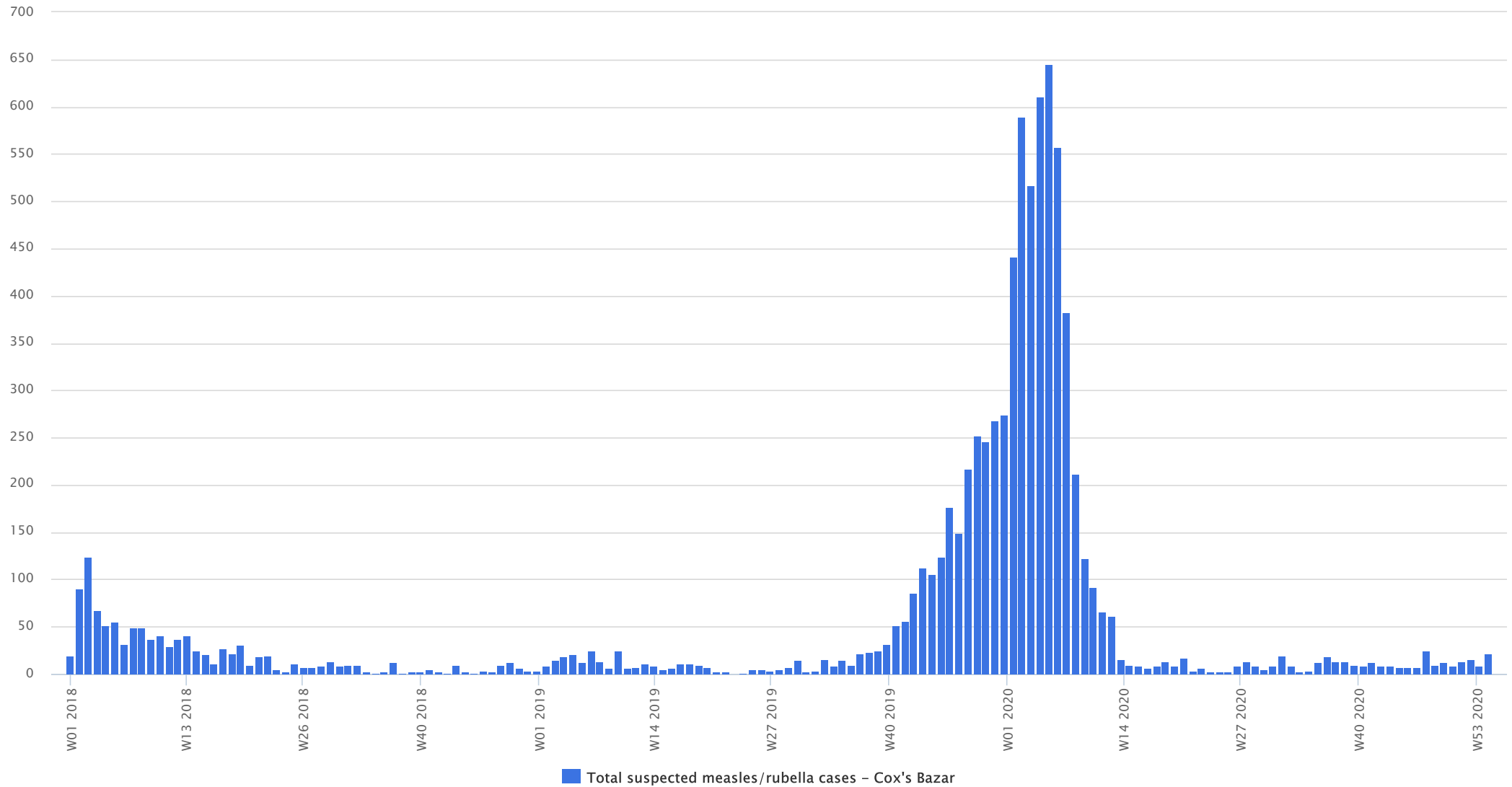
Male Female

Figure | % age



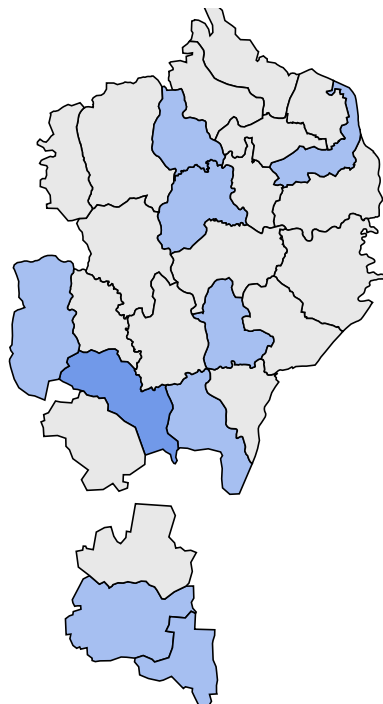
>=5 < 5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W1 2021)

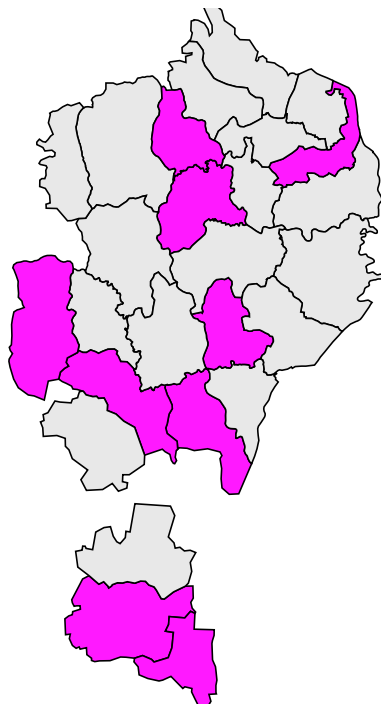


Map 2 | Map of cases by camp (W1 2021)

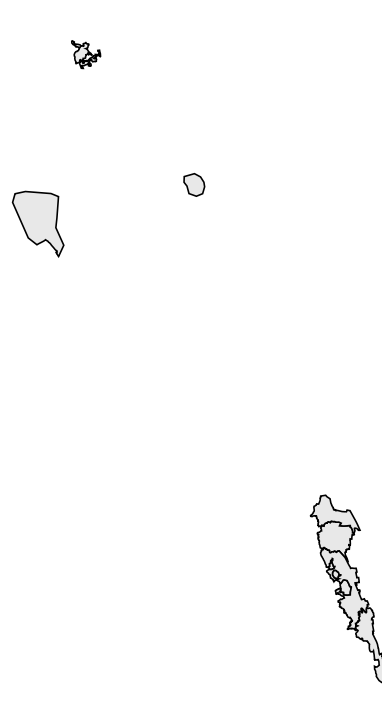
a. Ukhia | Number of cases



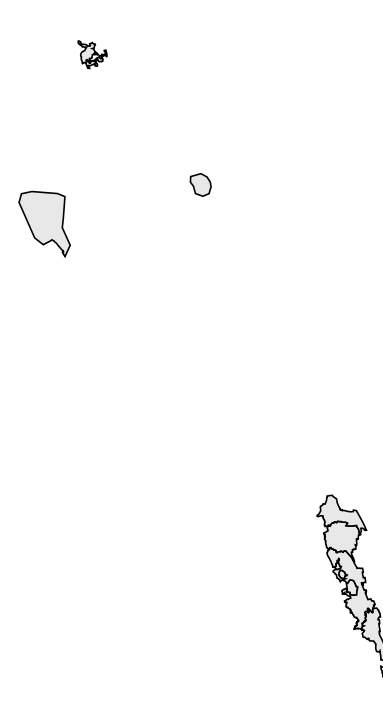
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend

Number of cases



Number of alerts



Alert threshold

1 case. Source: IEDCR

Alert management (W1 2021)



Figure | % sex



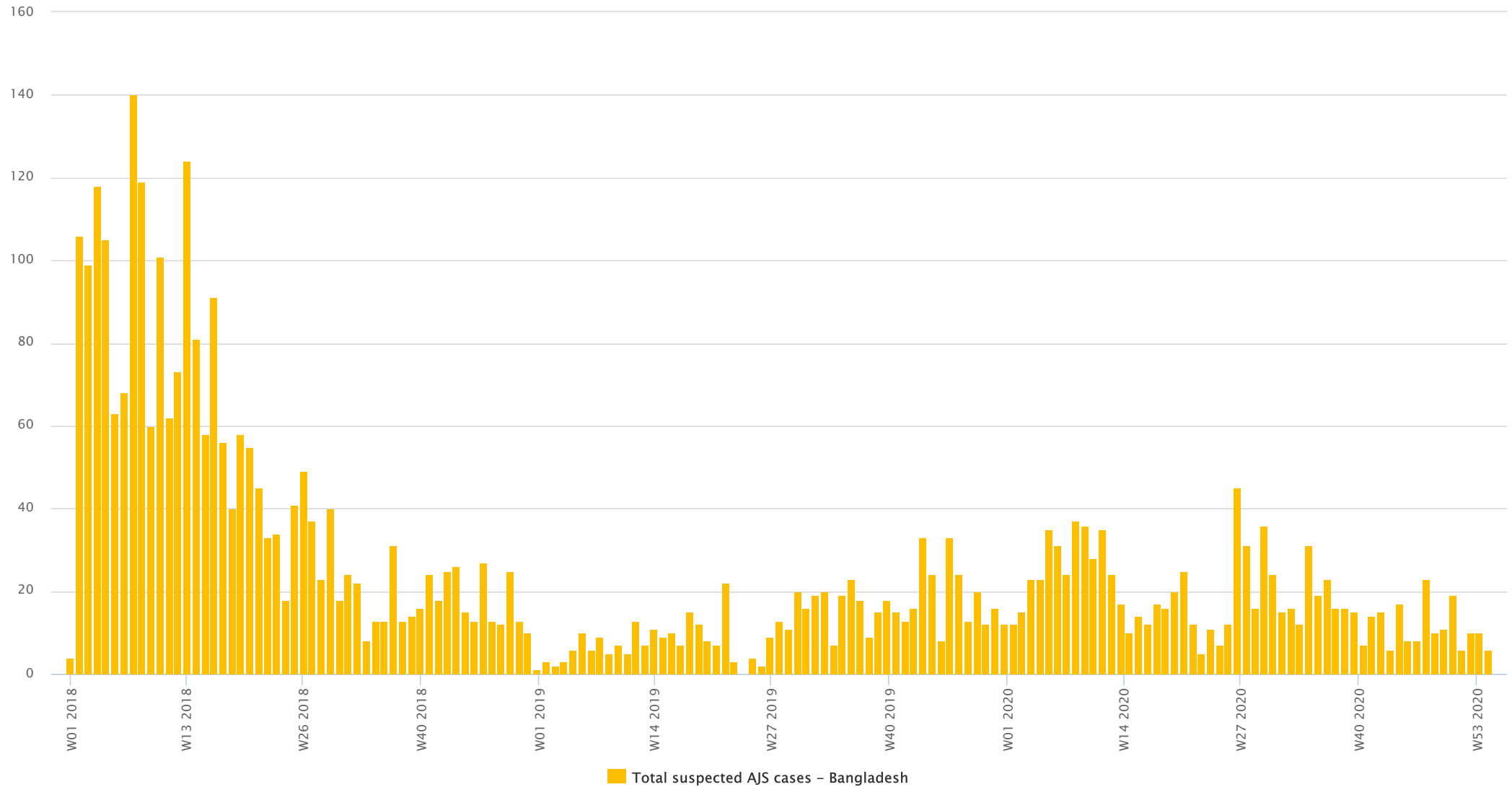
Figure | % age



Male Female

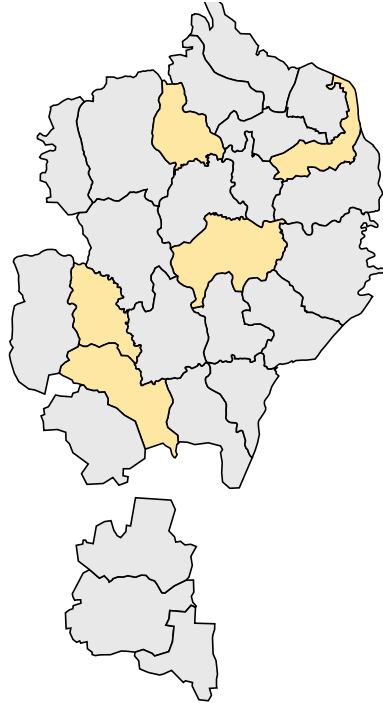
>= 5 < 5

Figure 5 | Trend in number of cases over time (W38 2017 - W1 2021)

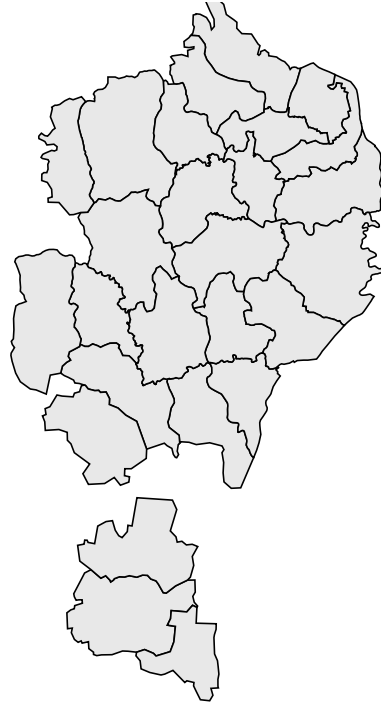


Map 3 | Map of cases by camp (W37 2017 - W1 2021)

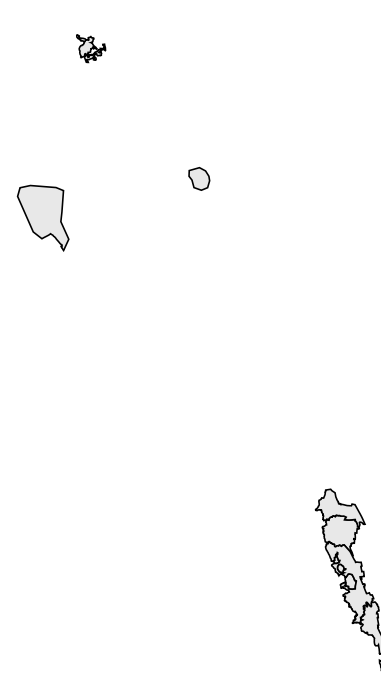
a. Ukhia | Number of cases



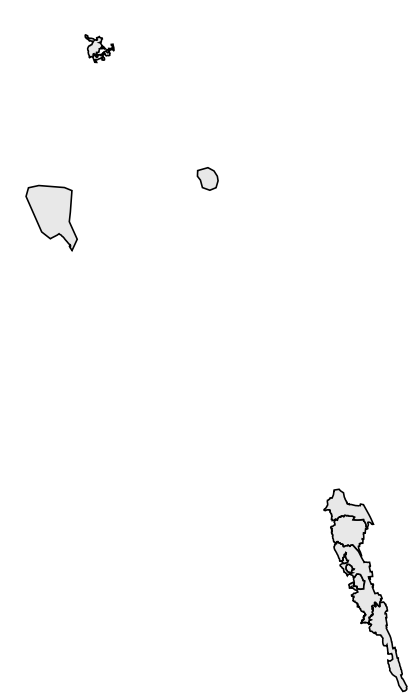
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts

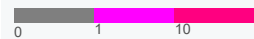


Map legend

Number of cases



Number of alerts



Alert threshold

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

Alert management (W1 2021)

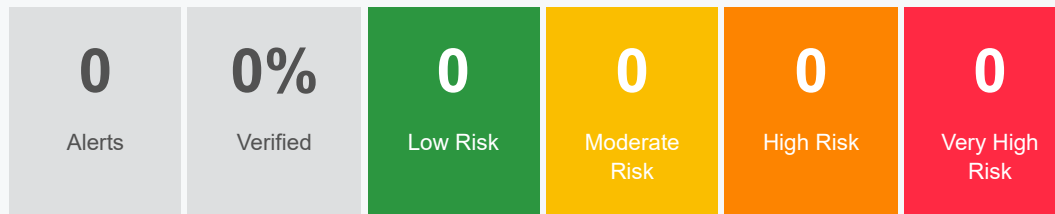
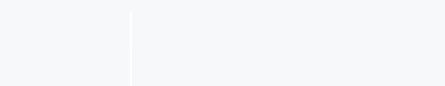


Figure | % sex



Male Female

Figure | % age



>= 5 < 5

Figure 6 | Trend in number of cases over time (W38 2017 - W1 2021)

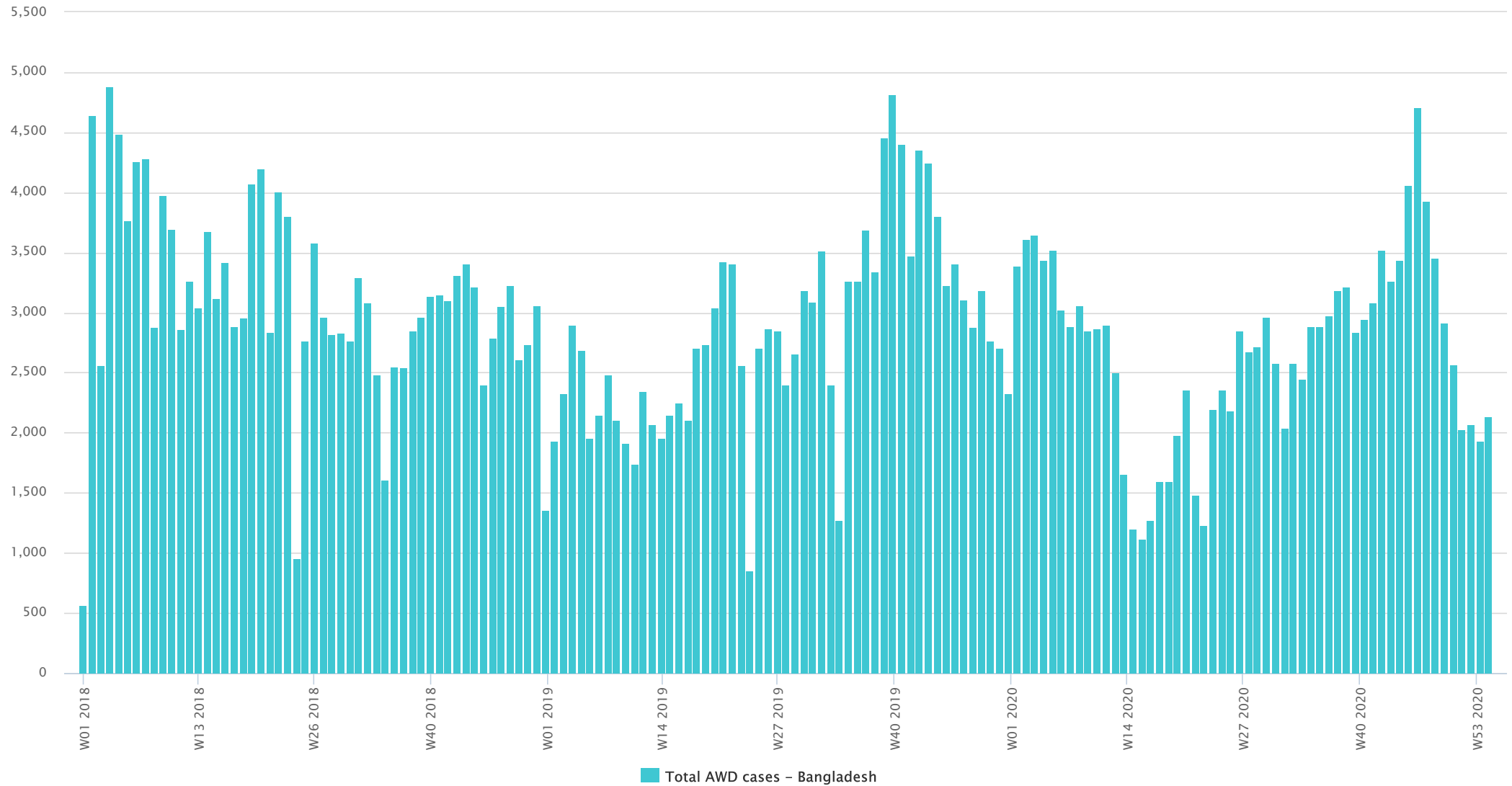
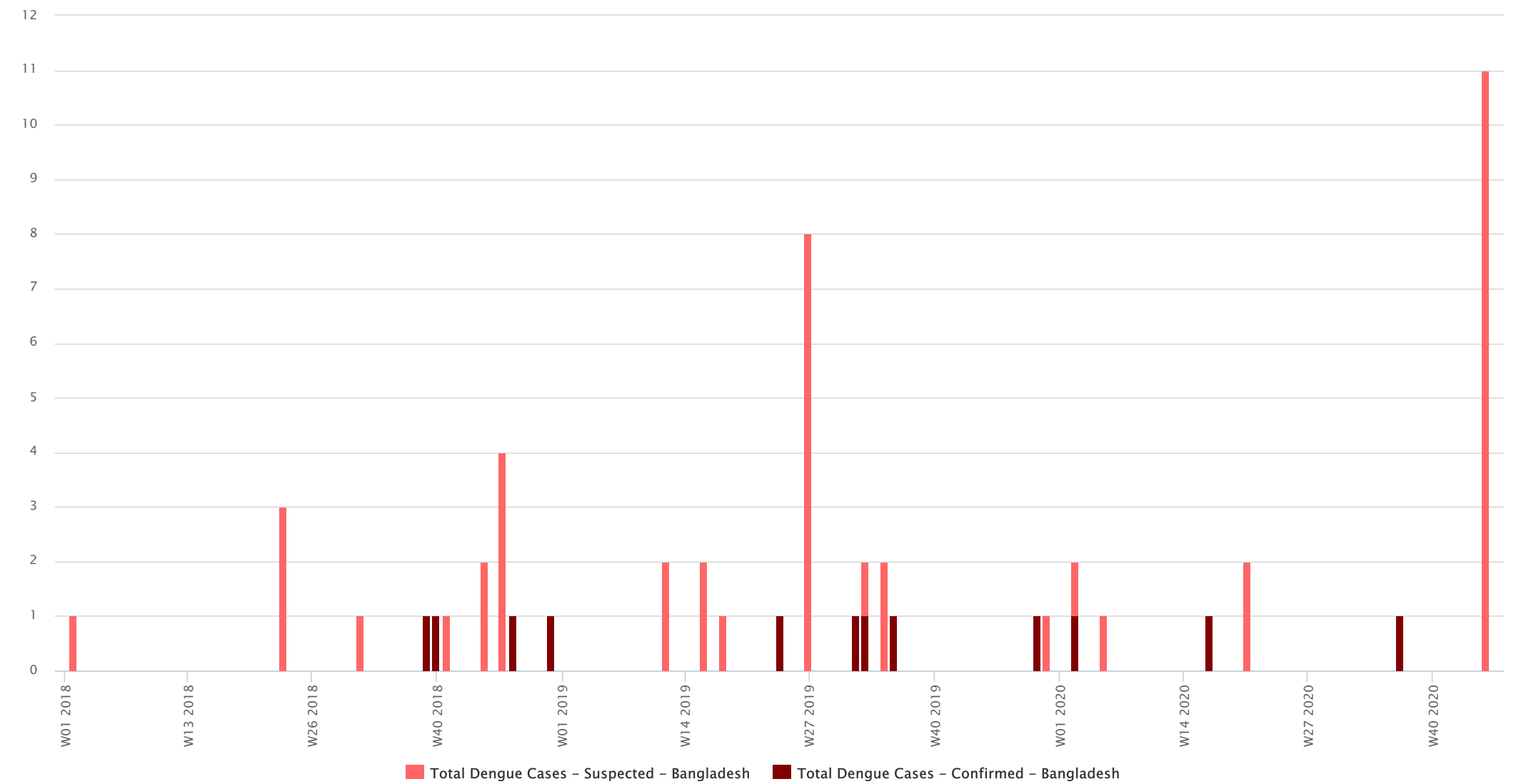


Figure 7 | Trend in number of cases over time (W38 2017 - W1 2021)



Map 4 | Map of cases by camp (W37 2017 - W1 2021)

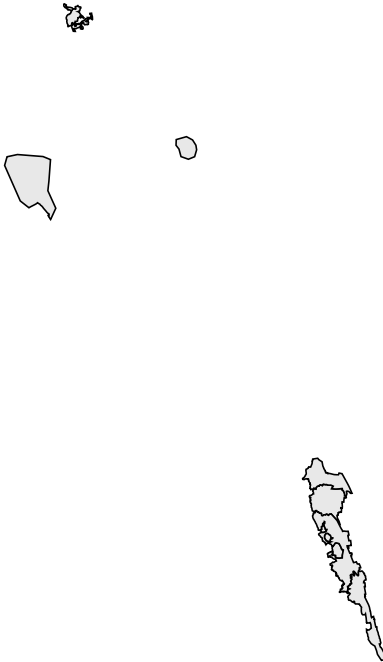
a. Ukhia | Number of cases



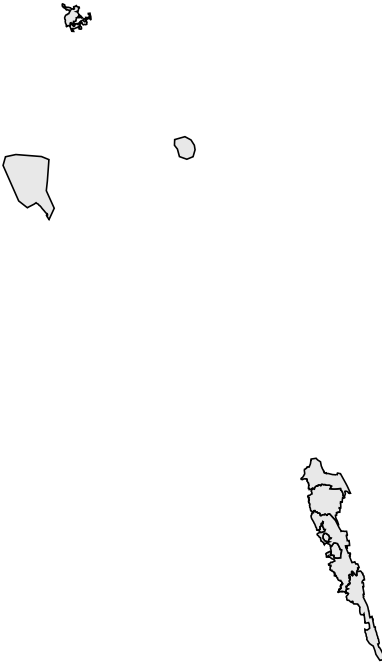
b. Ukhia | Number of alerts



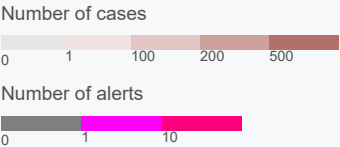
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W1 2021)

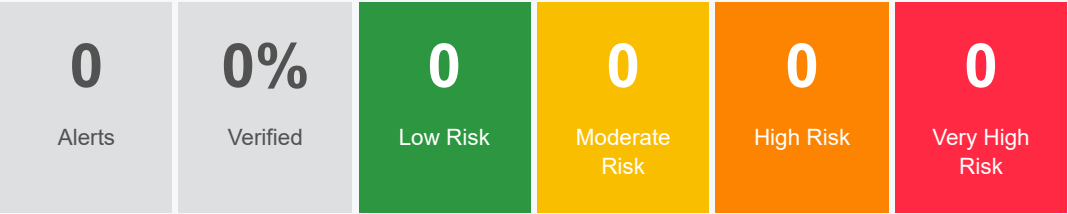


Figure | % sex



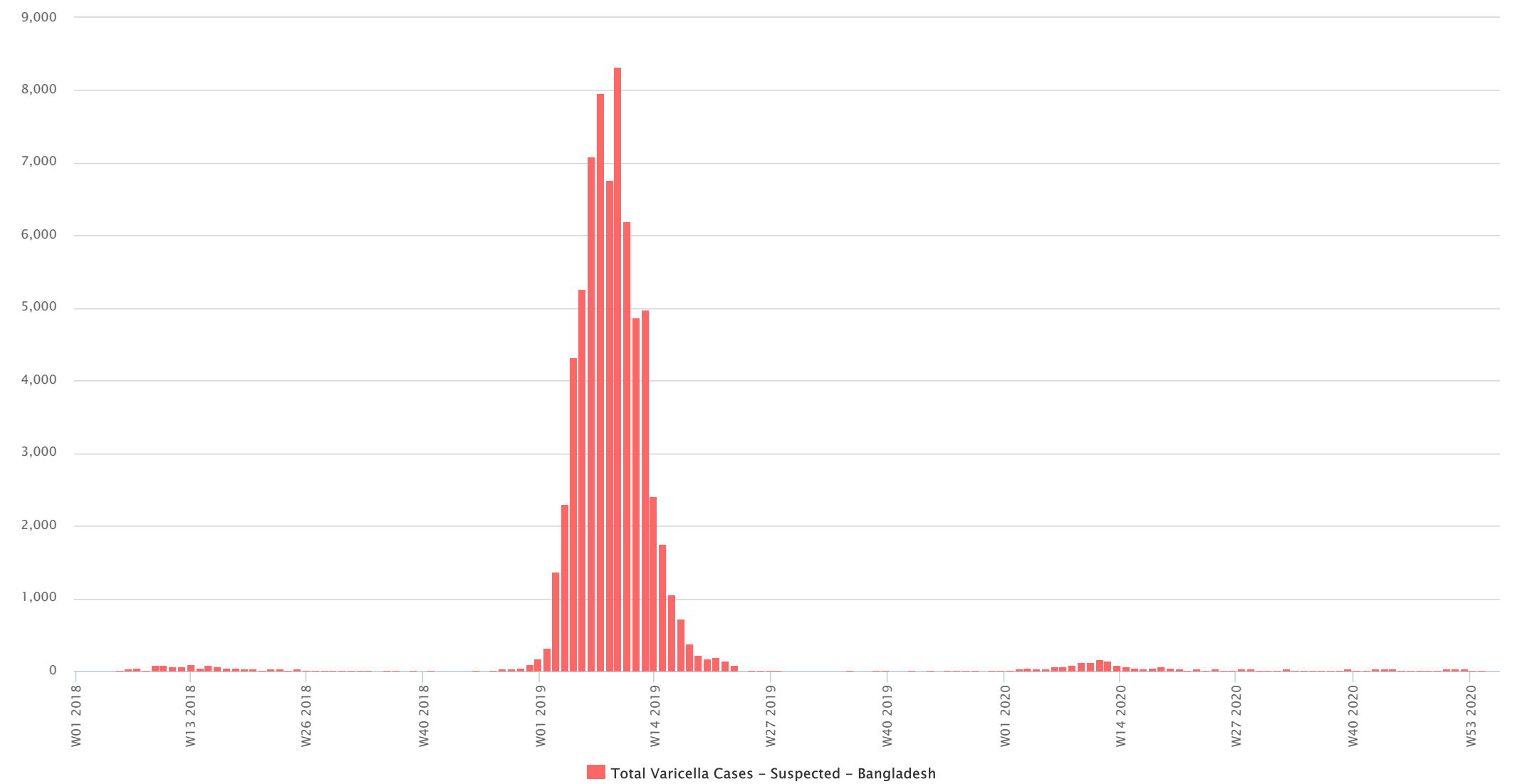
Male Female

Figure | % age



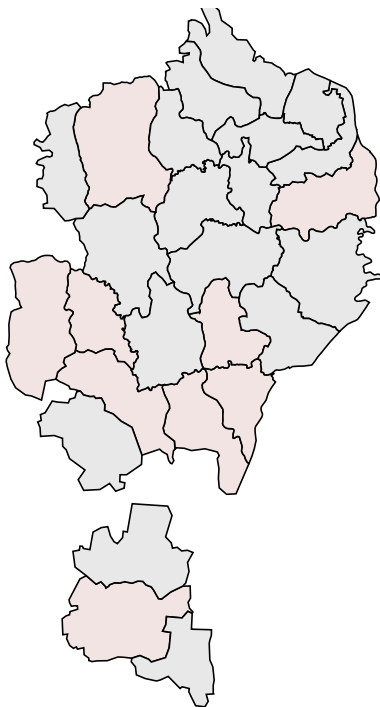
>= 5 < 5

Figure 7 | Trend in number of cases over time (W38 2017 - W1 2021)

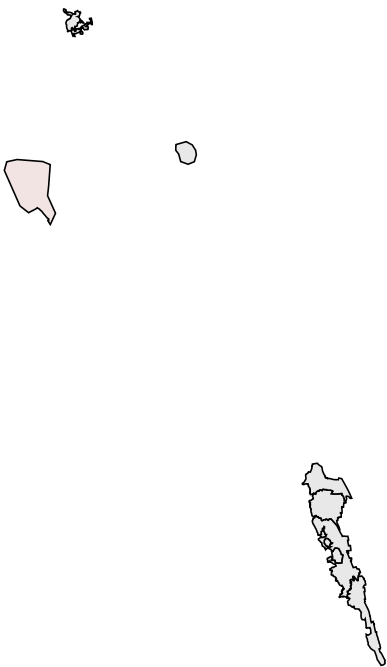


Map 4 | Map of cases by camp (W37 2017 - W1 2021)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

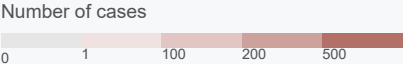


Figure | % sex



Figure | % age



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>

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