



Epidemiological Highlights

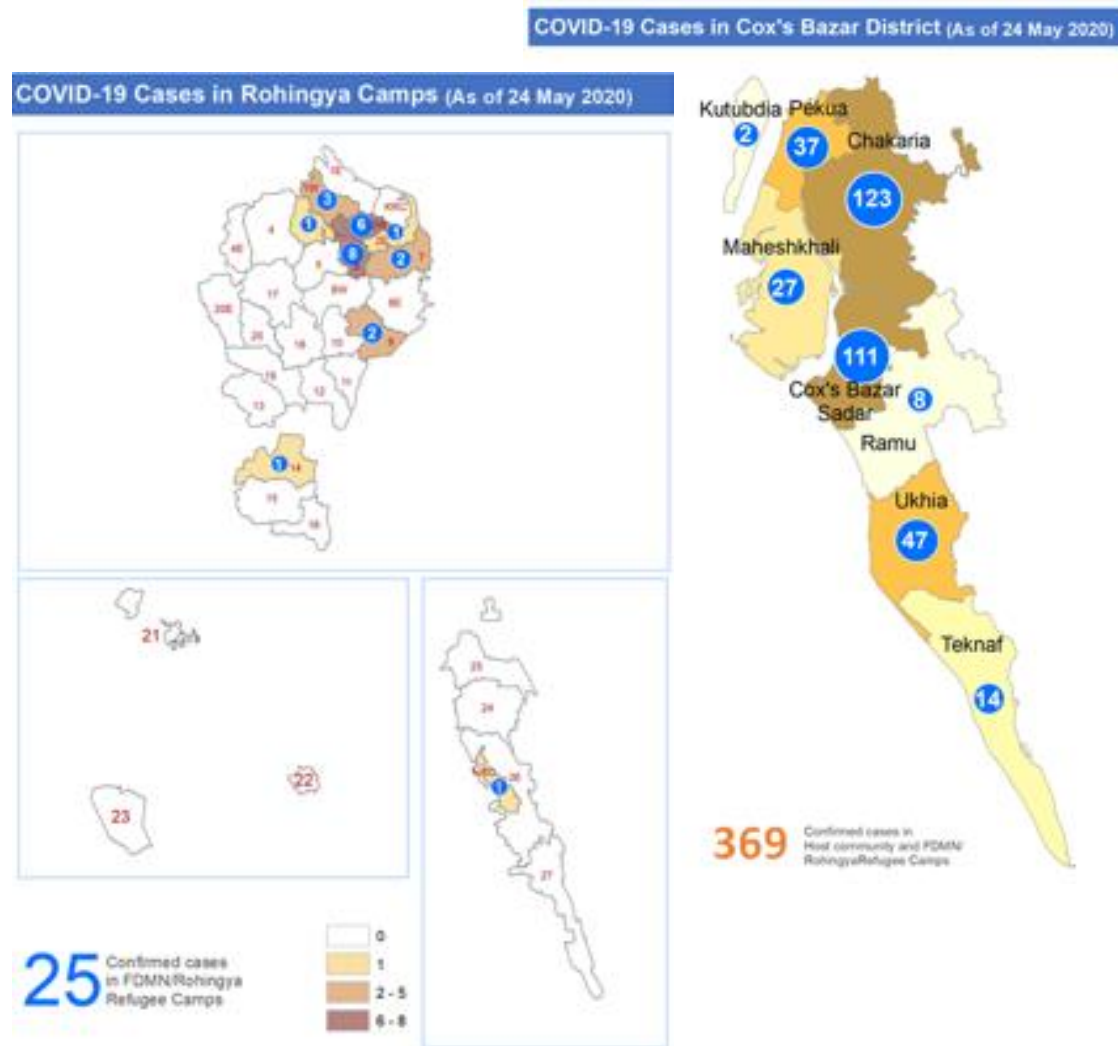
Week 21 (18-24 May 2020)



**World Health
Organization**

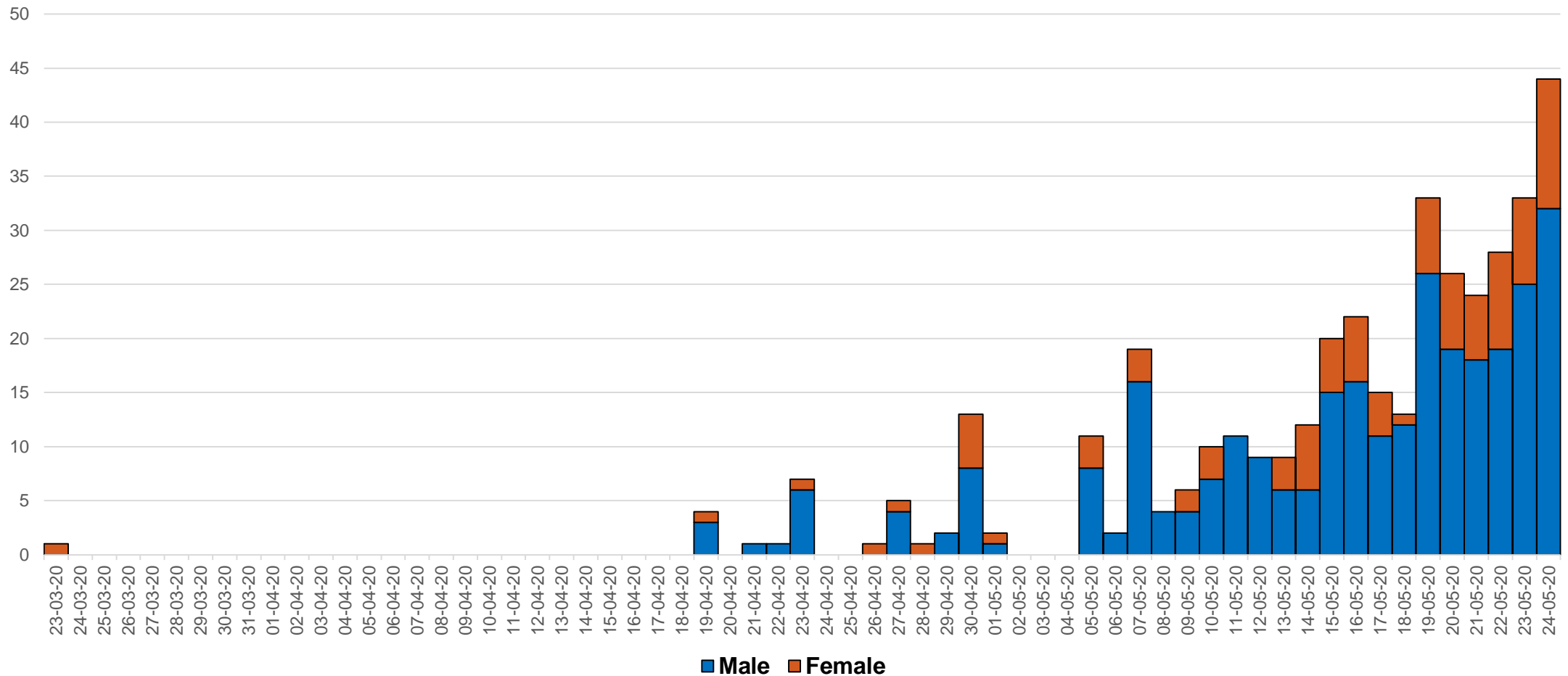
Highlights:

- In FDMN 20 confirmed COVID-19 patients has been identified during this period. The first case was identified on 14 May 2020. Confirmed cases were identified through ARI/ILI sentinel surveillance and contact of positive case. Out of 20 patients, 16 are male, 12 above 18 years of age.
- In Cox's Bazar district, 201 patients tested positive for COVID-19 in week 21. Total COVID-19 patients in district is 394. The first COVID-19 patient was detected on 23 March.

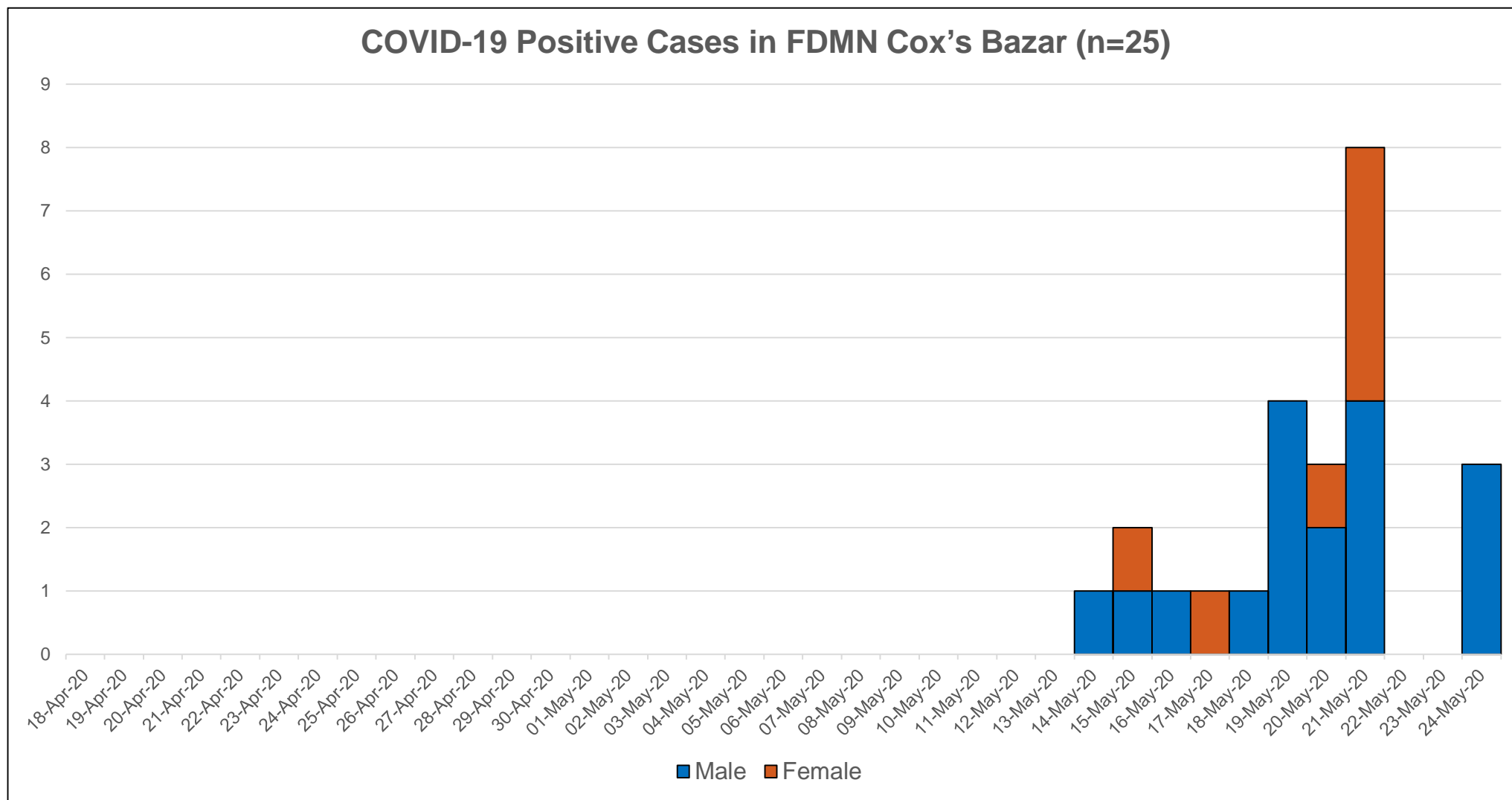


Highlights:

COVID-19 Positive Cases in host community Cox's Bazar (n=369)



Highlights:

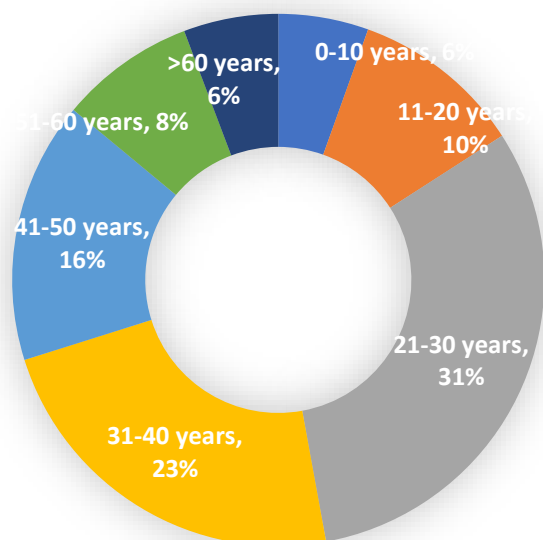


Highlights:

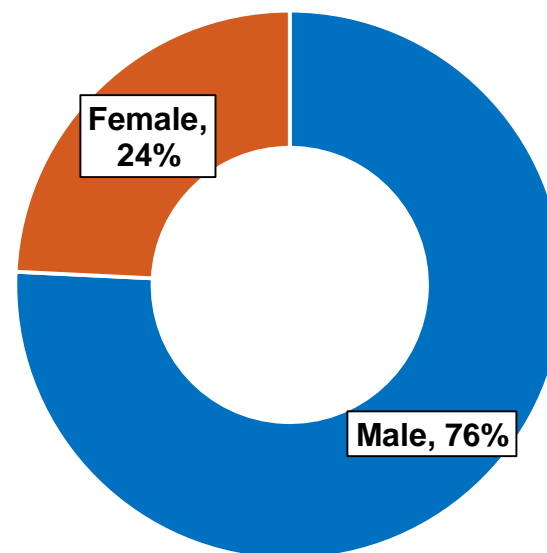
**COVID-19 update of Laboratory
Confirmed Cases in Host Community
Cox's Bazar (n=369)**

**Age group 21-40 are more affected 54%
and 76% are male**

Age Group (%) (n=369)



Sex Distribution (%) (n=369)

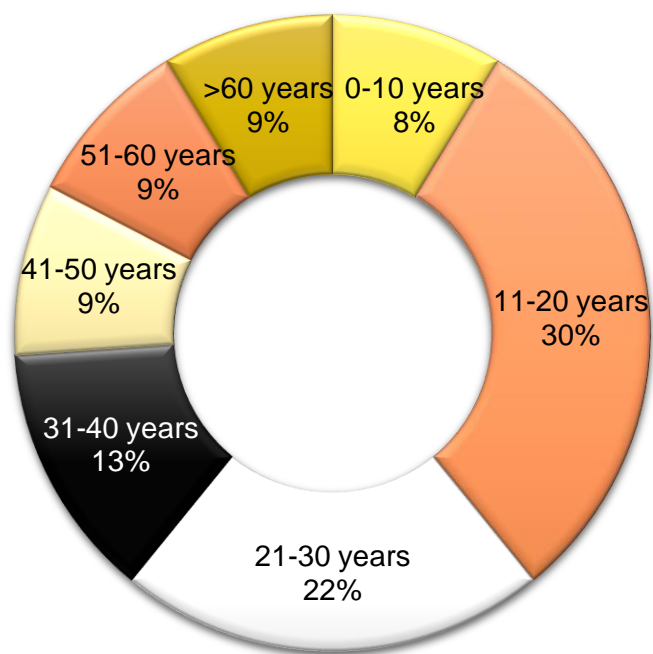


Highlights:

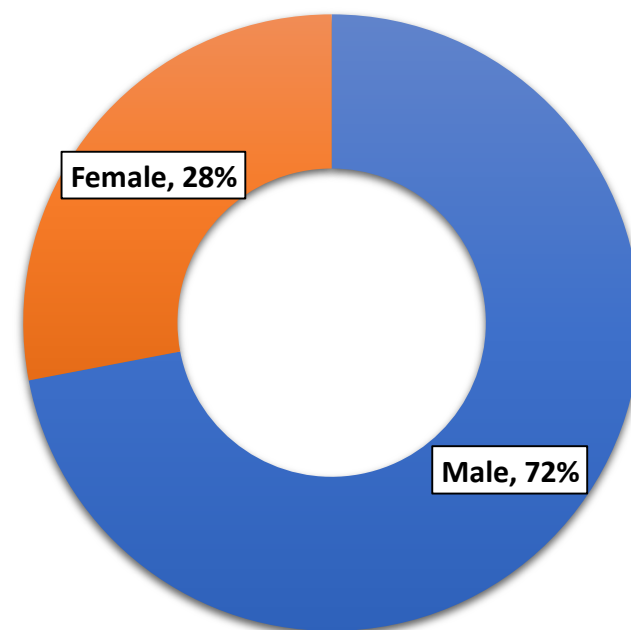
**COVID-19 update of Laboratory
Confirmed Cases in FDMN Cox's Bazar
(n=25)**

**Age group 11-30 are more affected 52%
and 72% are male**

Age Group (n=25)



Sex Distribution (n=25)



Highlights:

- Currently 14 sentinel sites (Isolation Units) in camps have been trained to collect sample using SARI/Suspected COVID-19 case definition.
- Rapid Investigation Team (comprised of IUs and CHW Supervisors) is functional in camps for case investigation and contact tracing.
- Go.Data apps is being using for data collection along with preliminary notification receiving through EWRAS hotline.

Highlights:

- Acute Respiratory Infection (16.9%), Diarrheal Diseases (8.2%) & Unexplained Fever (2.6%) are the diseases with highest proportional morbidity in week 21. Injury/wounds shows increasing trend (3.1%) over last couple of months.
- Total consultation is significantly dropped over 50% in last 2 months. Out of total consultation, ARI contributed 16.9% in week 21 decreased from 26.4% in week 12.
- Two third reduction of total ARI consultation indicates changes in specific health seeking behavior of population.
- Community-based mortality surveillance has included SARI death in weekly reporting. One (01) SARI death has been reported so far.

EWARS Reporting Updates

- Total 139/166 (84%) health facilities registered in EWARS
- Only 65/139 weekly reports received in week 21.
- Completeness and Timeliness for this week is 45%.
- In 2020 cumulative completeness and timeliness of reporting is 88% and 81% respectively
- Total 17 alerts were triggered in week 21. All alerts were reviewed and verified by WHO EWARS team which is less than as of previous week (48).

Diphtheria

2 suspected diphtheria case reported in go.data in week 21

A total of 9 117 case-patients were reported since 2017 to till date

- Confirmed = 329
- Probable = 2785
- Suspected = 6003

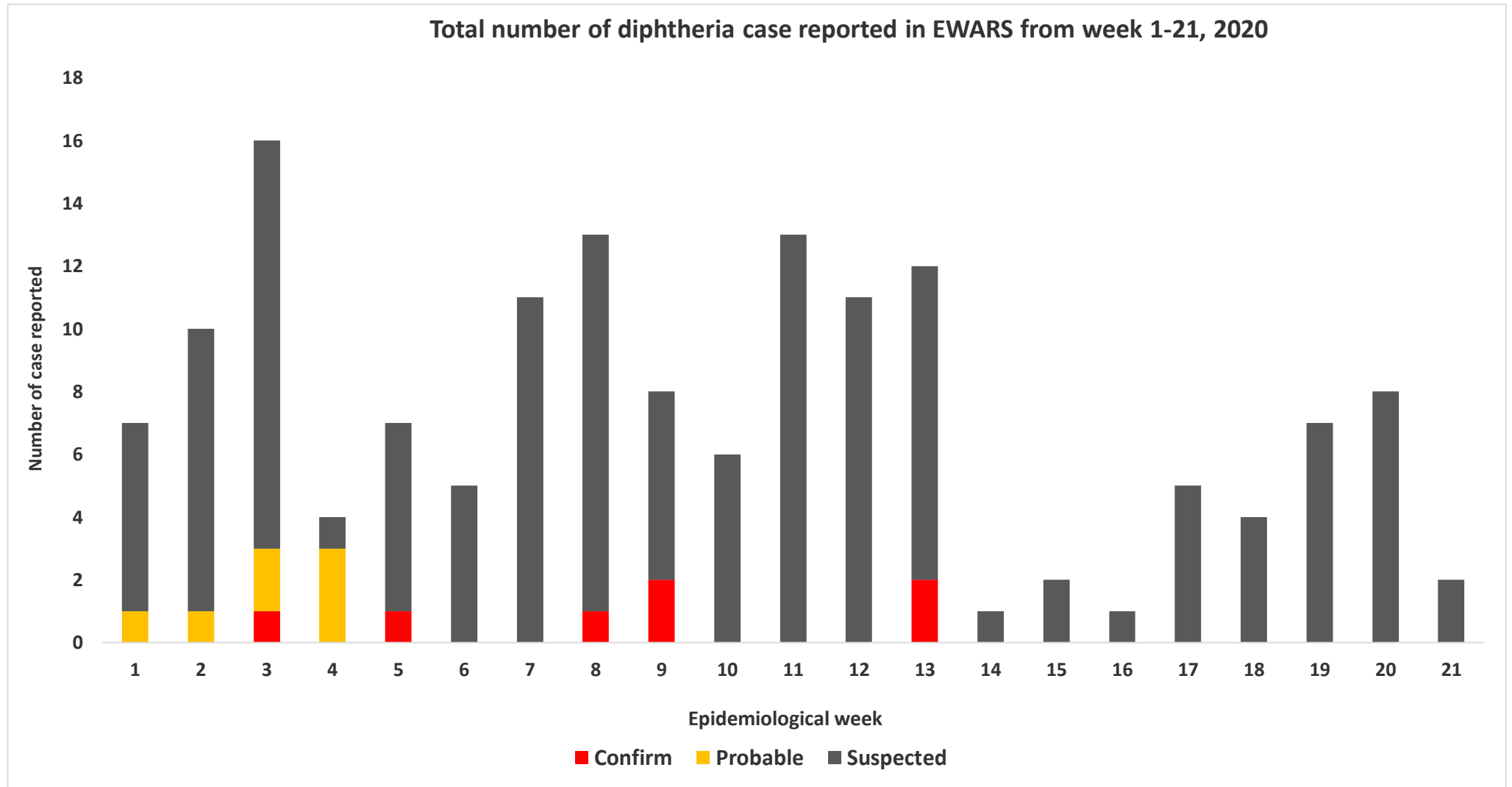
Total Case reported in 2020 = 153

- Confirmed = 7
- Probable = 7
- Suspected = 139

Last confirmed case was reported in Week 13 (24 March 2020)

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

Diphtheria

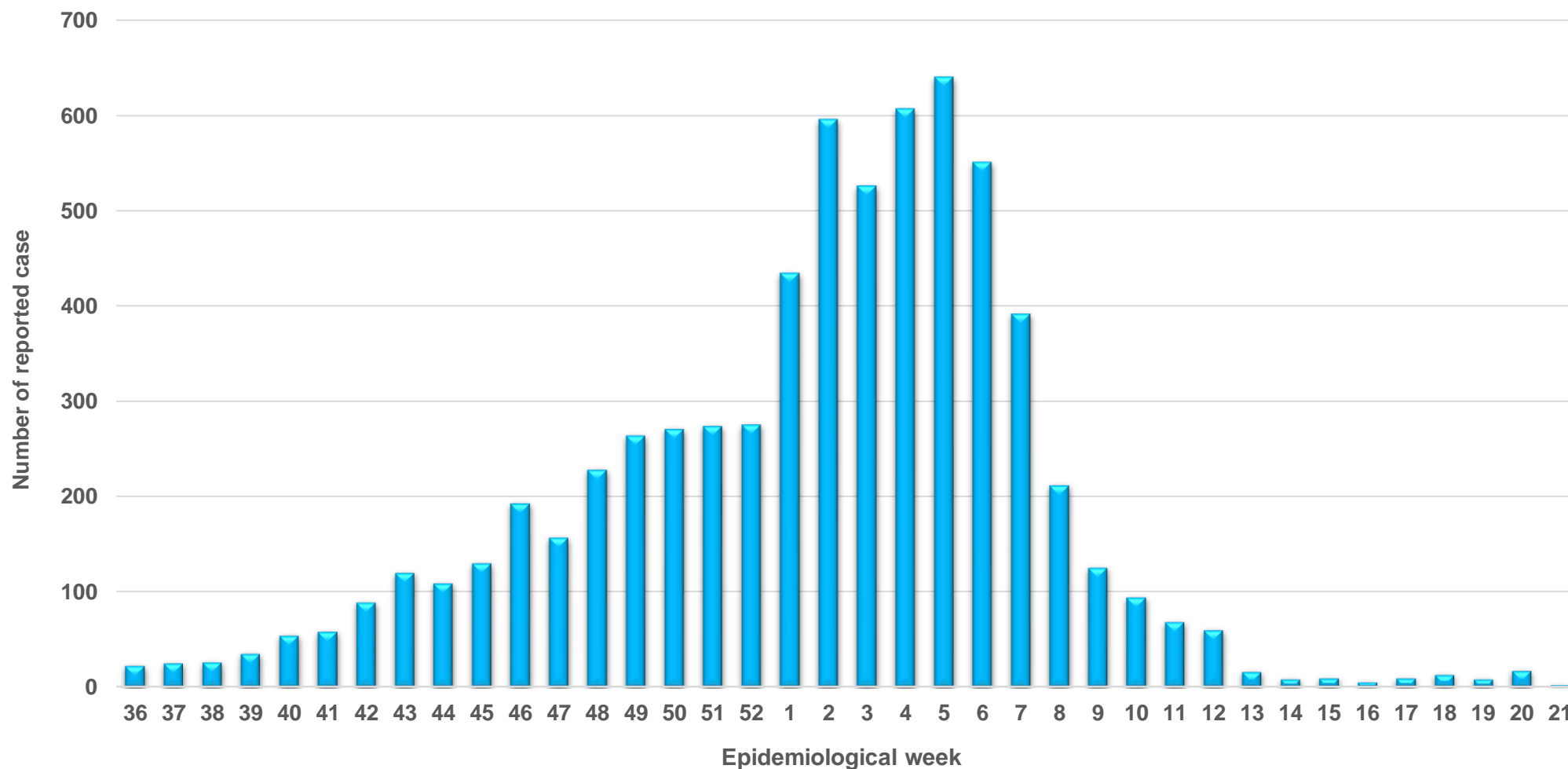


Measles

- Total 2 suspected measles cases were reported through aggregated weekly reporting in EWARS in week 21
- In last three month number of cases showed a decreasing trend
- 2,432 (56%) individual case report forms (CRF) were received out of total 4,359 cases reported through aggregated weekly report in EWARS in 2020

Measles

Total number of Measles case reported in EWARS from week 36, 2019 to week 21, 2020



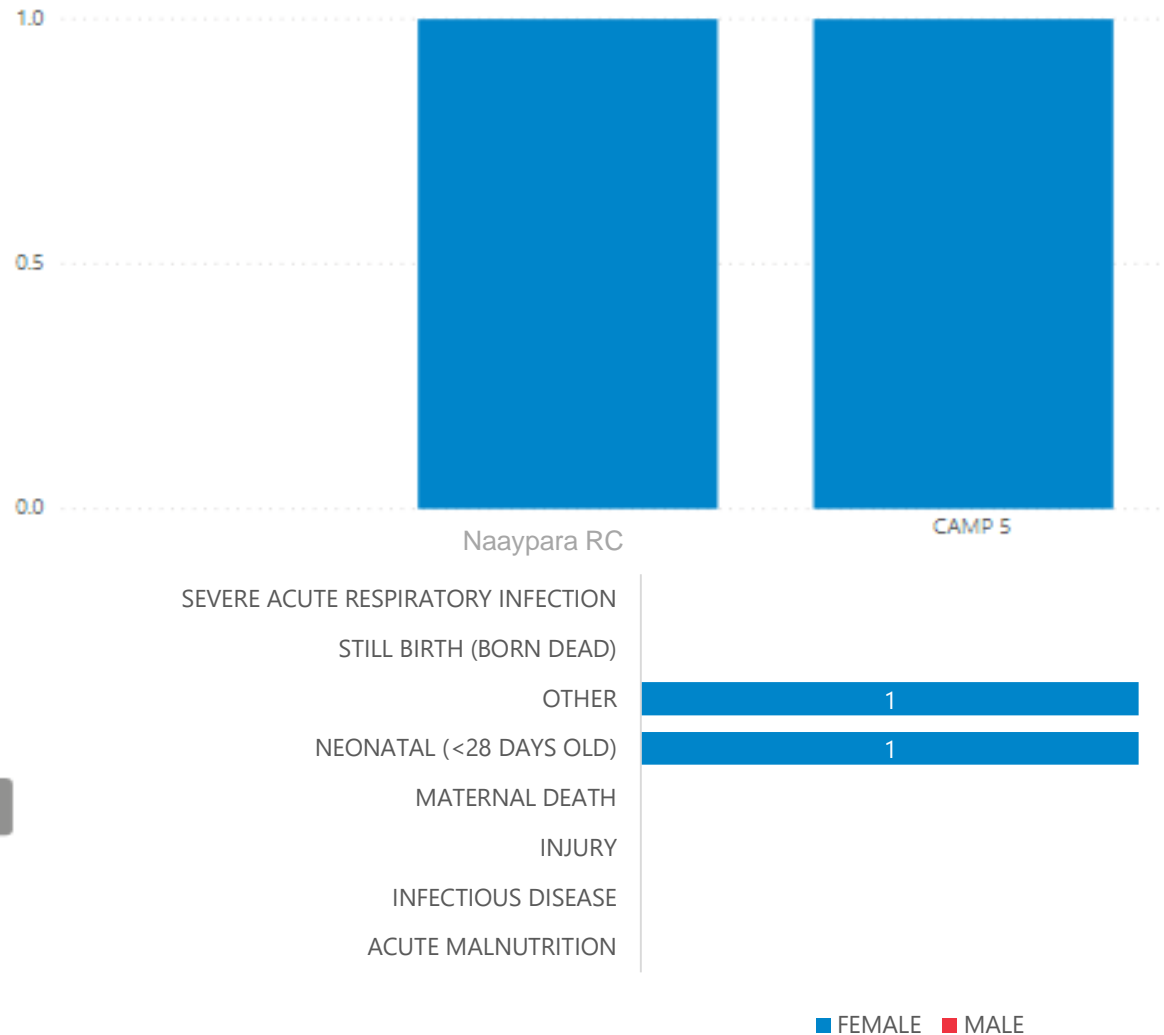
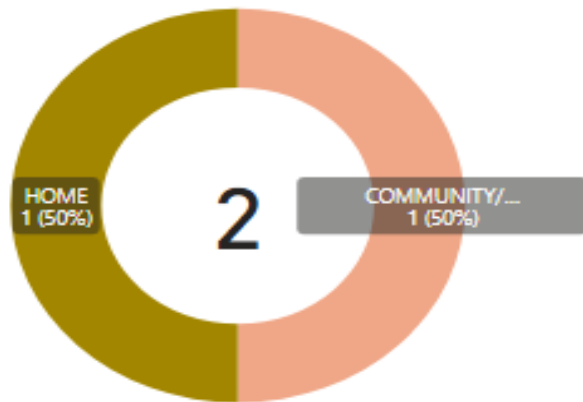
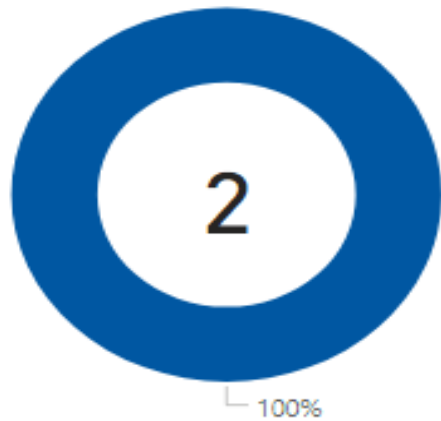
Diarrhoeal Disease

- A total 1 073 cases of diarrhoeal diseases reported in EWARS in week 20
- Among which 810 cases (6.2%) reported as acute watery diarrhoea (AWD), 7184 (1.4%) and 79 (0.6%) cases as other diarrhea and bloody diarrhea respectively.
- Diarrhoeal diseases are the second highest contributor of proportional morbidity after acute respiratory infection (ARI).

Community-based surveillance

- In week 21 total of 2 deaths were recorded due to 1 causes classified as “Others” , and 1 neonatal death
- No mortality alert raised for women of reproductive age (12-49 years).
- 1 of deaths reported are at the community and 1 from home
- We would like to urge donor agencies to inform their partners to report **all mortalities** into EWARS using the “Community-based mortality surveillance” form.

Community-based Surveillance



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W21 2020



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



HEALTH SECTOR
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Sources of data

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

Highlights W21 2020

Table 1 | Coverage

#	%	
854,704	-	Estimated total Rohingya population ¹
854,704	100%	Total population under surveillance
166	-	Total number of health facilities
139	84%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W21	Cumulative (2020)	
65	2819	Number of weekly reports received
45%	89%	Completeness
45%	82%	Timeliness

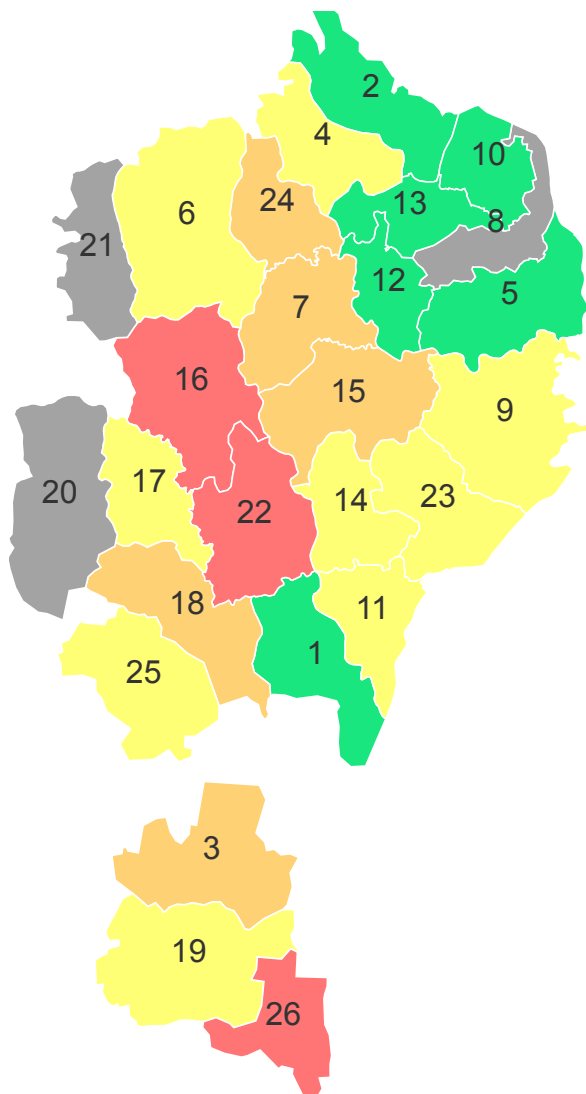
Table 3 Alert performance indicators

W21	Cumulative (2020)	
17	1,328	Total alerts raised
100%	100%	% verified
0%	0%	% auto-discarded
0%	0%	% undergoing risk assessment
0%	1%	% completed risk assessment

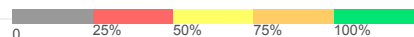
¹ Source: UNHCR. Bangladesh: Joint Government of Bangladesh- UNHCR Population Factsheet. 31 December 2019.

Map 1a | Ukhia completeness by camp

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

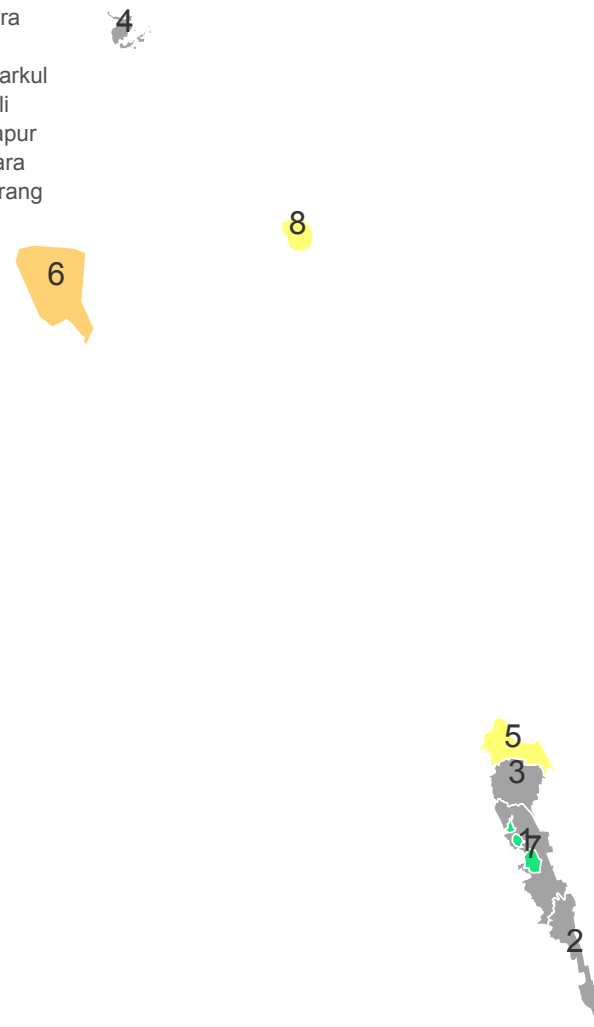


Completeness



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

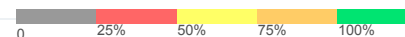


Table 4 | Performance by camp (W21 2020)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 1E	4	3	75%	75%
Camp 1W	3	1	33%	33%
Camp 2E	1	0	0%	0%
Camp 2W	2	2	100%	100%
Camp 3	6	4	67%	67%
Camp 4	6	3	40%	40%
Camp 4 Ext	1	0	0%	0%
Camp 5	4	2	50%	50%
Camp 6	2	2	100%	100%
Camp 7	5	4	80%	80%
Camp 8E	7	2	33%	33%
Camp 8W	7	4	57%	57%
Kutupalong RC	1	1	100%	100%

Map 2 | Completeness by camp

- 1 Camp 1E
- 2 Camp 1W
- 3 Camp 7
- 4 Camp 4
- 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

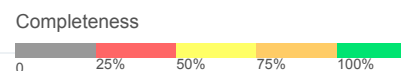
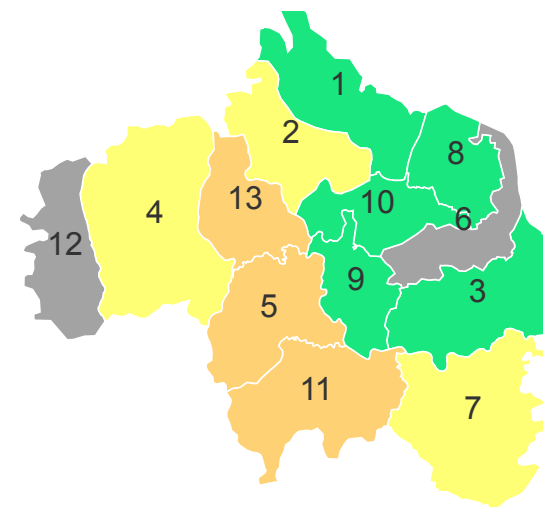


Table 5 | Performance by camp (W21 2020)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 10	4	1	25%	25%
Camp 11	9	4	44%	44%
Camp 12	7	5	83%	83%
Camp 13	8	3	29%	29%
Camp 14	6	3	50%	50%
Camp 15	11	4	44%	44%
Camp 16	6	1	17%	17%
Camp 17	5	1	20%	20%
Camp 18	5	1	20%	20%
Camp 19	5	3	60%	60%
Camp 20	3	1	33%	33%
Camp 20 Ext	1	0	0%	0%
Camp 9	7	2	40%	40%

Map 3 | Completeness by camp

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

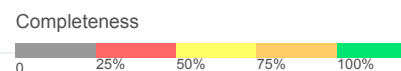
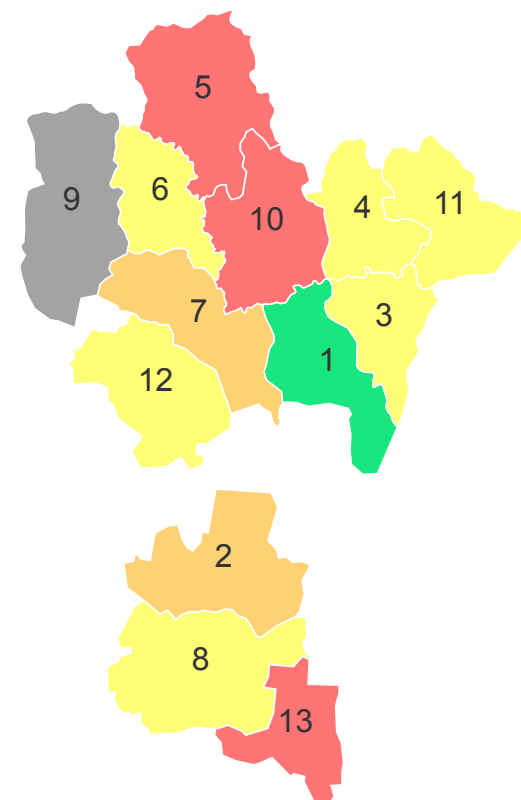
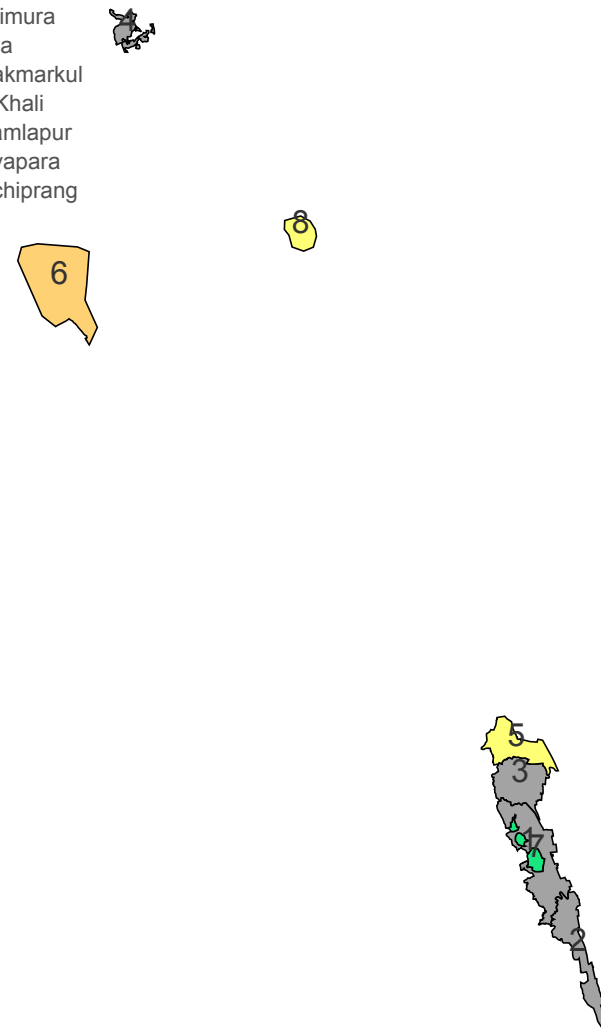


Table 6 | Performance by camp (W21 2020)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 21 Chakmarkul	4	1	0%	0%
Camp 22 Unchiprang	4	1	33%	33%
Camp 23 Shamlapur	4	2	67%	67%
Camp 24 Leda	1	0	0%	0%
Camp 25 Ali Khali	3	1	33%	33%
Camp 26 Nayapara	1	0	0%	0%
Camp 27 Jadimura	1	0	0%	0%
Nayapara RC	2	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 25 Ali Khali
- 6 Camp 23 Shamlapur
- 7 Camp 26 Nayapara
- 8 Camp 22 Unchiprang



Completeness



Table 7 | Performance by partner (W21 2020)

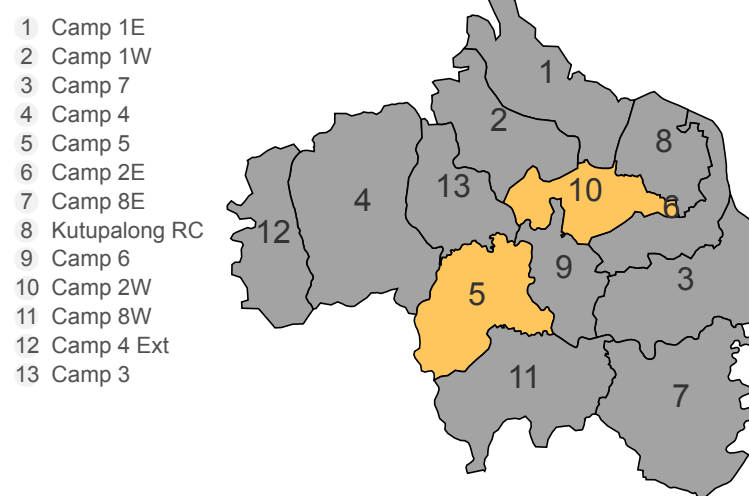
Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
BDRCS	4	3	75%	75%
BRAC	11	0	0%	0%
CARE	4	4	100%	100%
FHM	1	0	0%	0%
FRNDS	12	12	100%	100%
GK	9	8	89%	89%
HMBDF	1	0	0%	0%
IOM	15	10	67%	67%
IRC	2	0	0%	0%
MSF	8	3	38%	38%
MoH	0	1	0%	0%
Hope	2	1	50%	50%
Medair	1	0	0%	0%

Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
FH/MTI	3	2	67%	67%
PHD	9	0	0%	0%
PWJ	1	1	100%	100%
RHU	3	3	100%	100%
RI	3	3	100%	100%
RTMI	9	0	0%	0%
SCI	9	0	0%	0%
TdH	1	0	0%	0%

Table 8 | Performance by camp

Northern group	W21		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 1E	0	0%	34	100%
Camp 1W	0	0%	14	100%
Camp 2E	0	0%	35	100%
Camp 2W	1	100%	35	100%
Camp 3	0	0%	101	100%
Camp 4	0	0%	92	100%
Camp 4 Ext	0	0%	11	100%
Camp 5	2	100%	71	100%
Camp 6	0	0%	14	100%
Camp 7	0	0%	22	100%
Camp 8E	0	0%	18	100%
Camp 8W	0	0%	59	98%
Kutupalong RC	0	0%	8	100%

Map 5 | Number of alerts by camp



of alerts

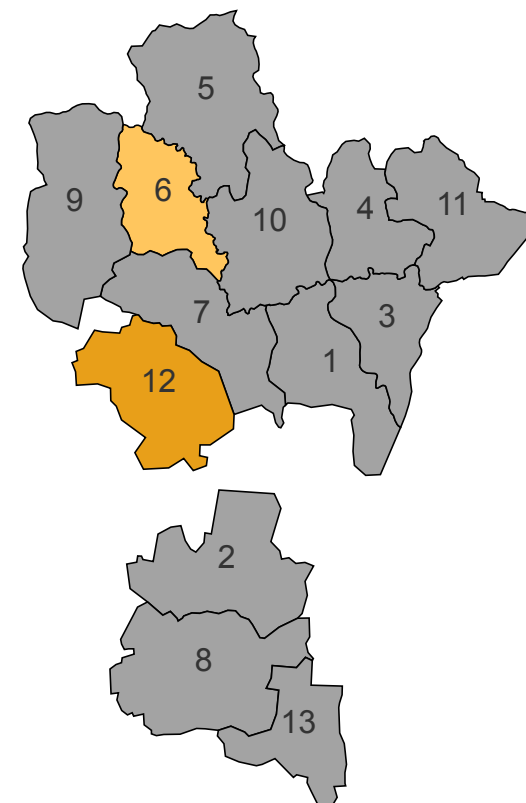


Table 9 | Performance by camp

Southern group	W21		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 10	0	0%	36	100%
Camp 11	0	0%	46	100%
Camp 12	0	0%	75	100%
Camp 13	9	100%	53	100%
Camp 14	0	0%	48	100%
Camp 15	0	0%	72	100%
Camp 16	0	0%	75	96%
Camp 17	0	0%	36	100%
Camp 18	0	0%	38	100%
Camp 19	0	0%	45	100%
Camp 20	2	100%	38	100%
Camp 20 Ext	0	0%	6	100%
Camp 9	0	0%	64	100%

Map 6 | Number of alerts by camp

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



of alerts

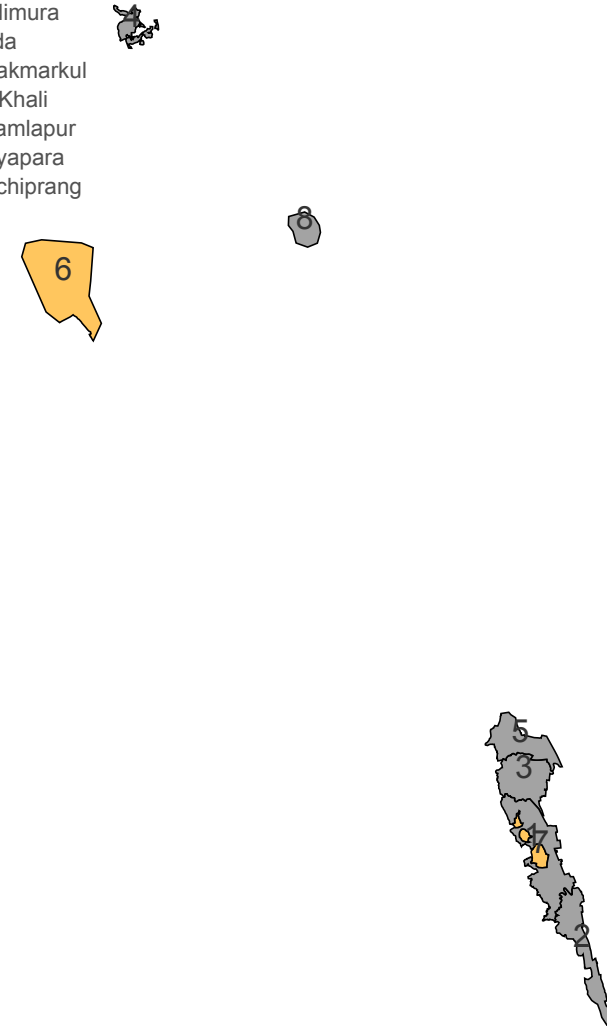


Table 10 | Performance by camp

Teknaf	W21		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 21 Chakmarkul	0	0%	32	100%
Camp 22 Unchiprang	0	0%	12	100%
Camp 23 Shamlapur	1	100%	14	100%
Camp 24 Leda	0	0%	16	100%
Camp 25 Ali Khali	0	0%	12	100%
Camp 26 Nayapara	0	0%	42	100%
Camp 27 Jadimura	0	0%	12	100%
Nayapara RC	1	100%	11	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



Table 11 | Performance by type of alert

Event	W21		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	2	100%	646	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	5	100%
Meningitis	0	0%	10	100%
Haem. fever (susp.)	0	0%	8	100%
NNT	0	0%	1	100%
Unexp. fever	0	0%	77	100%
AWD	0	0%	91	100%
ARI	0	0%	78	100%
AJS	0	0%	56	100%
Varicella (Susp.)	0	0%	10	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	10	100%	79	100%

Table 12 | Risk assessment

W21	Cumulative (2020)	
0	16	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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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 W21 2020



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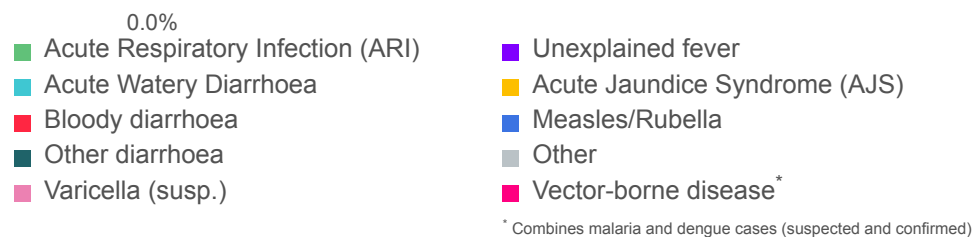
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Proportional morbidity

Figure 1 | Proportional morbidity (W21 2020)



Disease	W21		2020	
	# cases	% morbidity	# cases	% morbidity
AWD	810	6.2%	50,180	4.3%
Bloody diarr.	79	0.6%	6,768	0.6%
Other diarr.	184	1.4%	20,867	1.8%
Susp. Varicella	2	0.0%	1,290	0.1%
ARI	2,218	16.9%	275,768	23.7%
Measles/Rub.	2	0.0%	4,359	0.4%
AFP	0	0.0%	5	0.0%
Susp. menin.	0	0.0%	33	0.0%
AJS	5	0.0%	456	0.0%
Susp. HF	0	0.0%	12	0.0%
Neo. tetanus	0	0.0%	1	0.0%
Adult tetanus	0	0.0%	1	0.0%
Malaria (conf.)	0	0.0%	6	0.0%
Malaria (susp.)	0	0.0%	573	0.0%
Dengue (conf.)	0	0.0%	2	0.0%
Dengue (susp.)	0	0.0%	6	0.0%
Unexpl. fever	340	2.6%	22,305	1.9%
Sev. Malnut.	1	0.0%	555	0.0%
Inj./Wounds	401	3.1%	31,090	2.7%
Other	9,068	69.1%	746,870	64.3%
Total	12,776	100%	1,161,598	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W21)

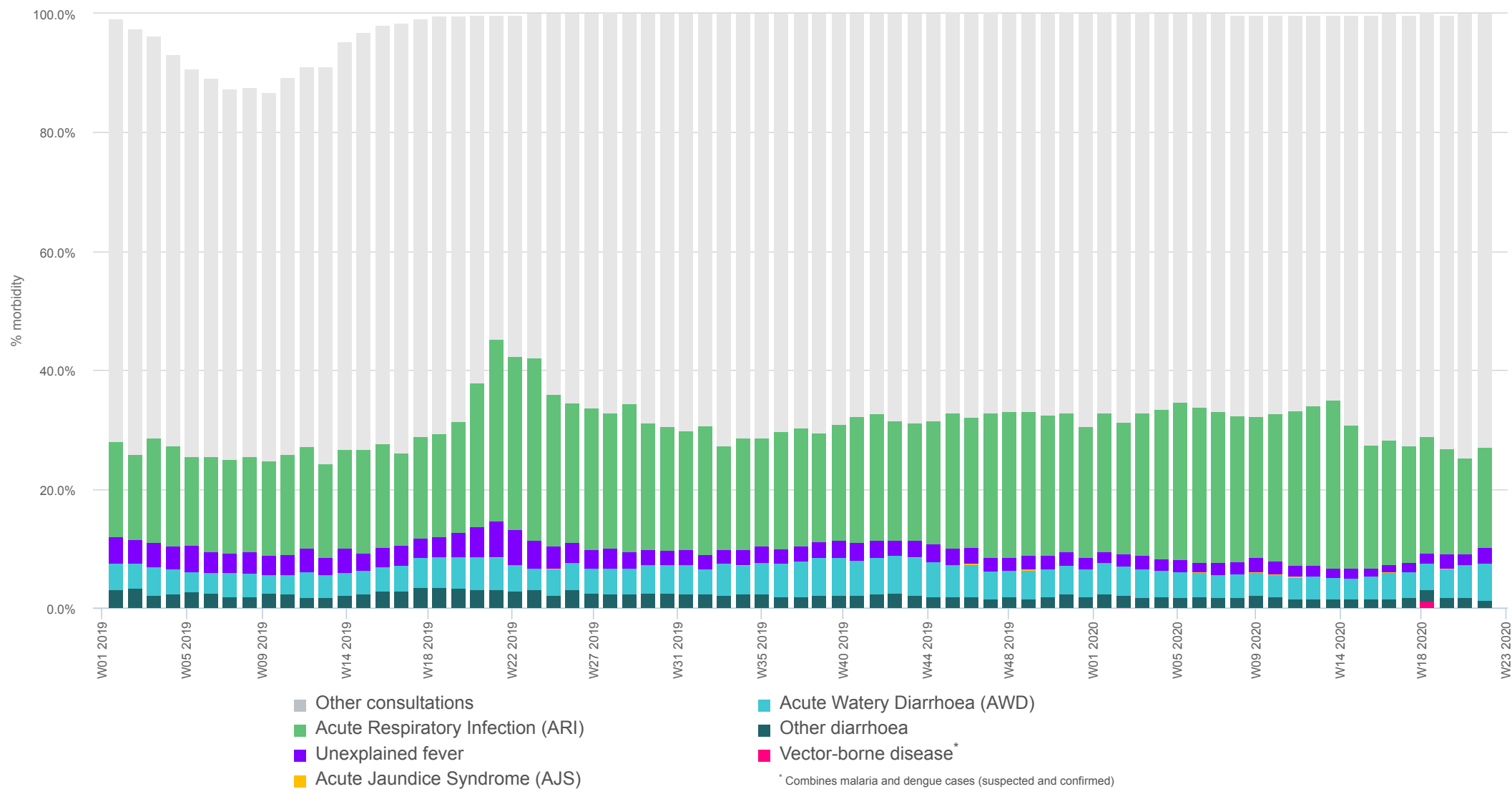
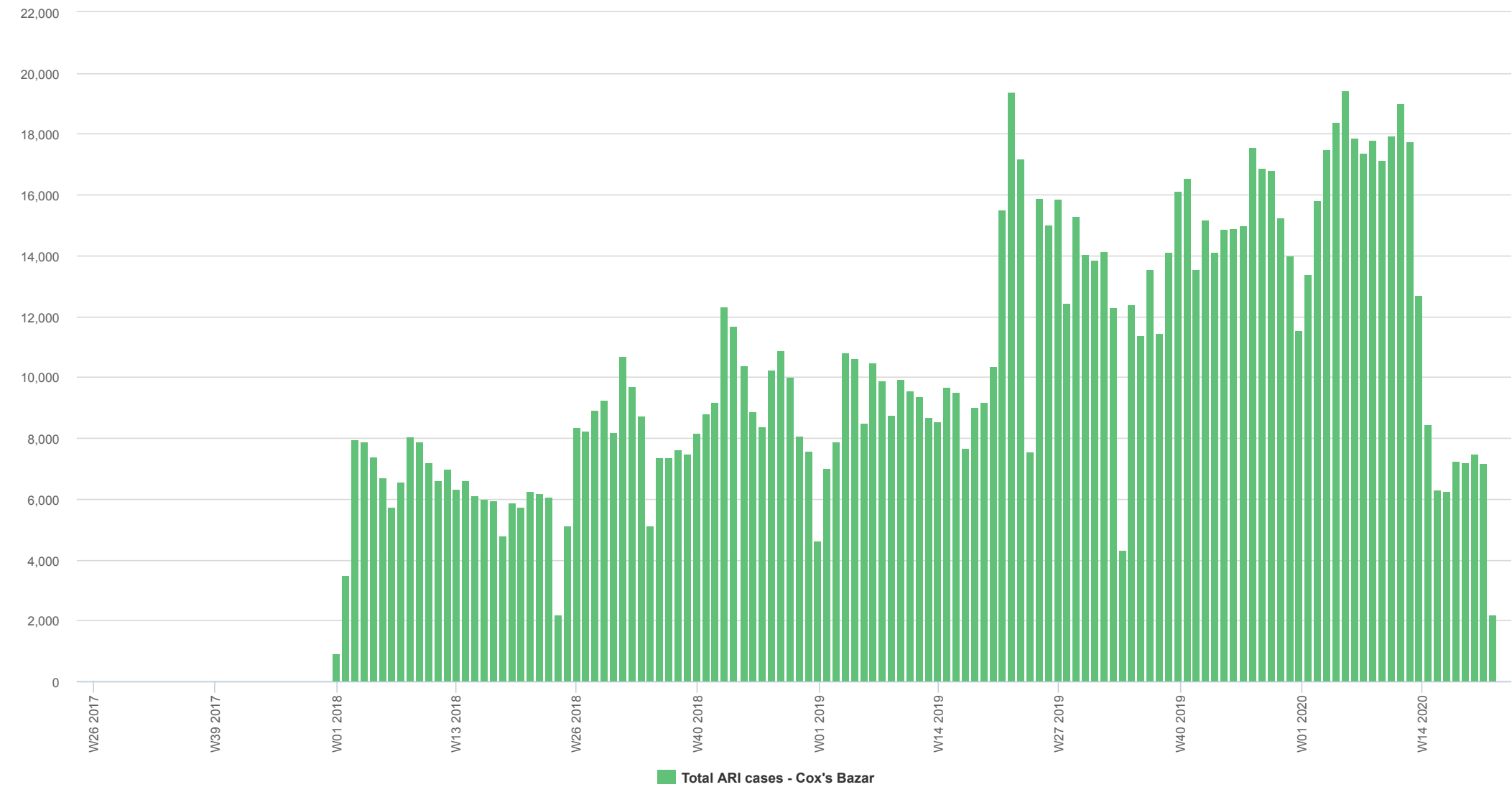
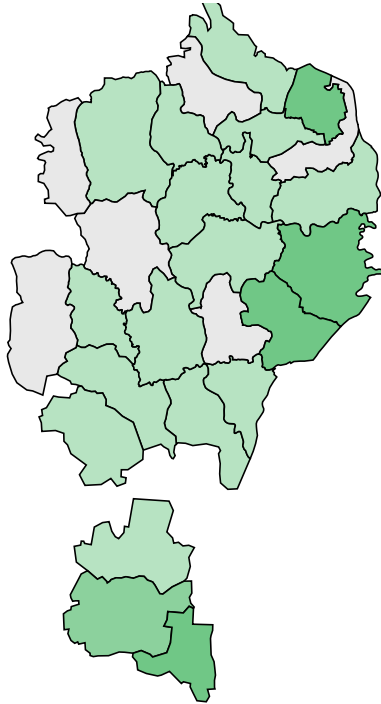


Figure 3 | Trend in number of cases over time (W38 2017 - W21 2020)

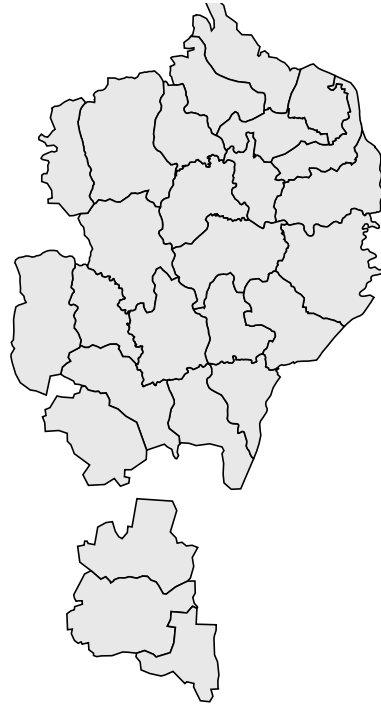


Map 1 | Map of cases by camp (W21 2020)

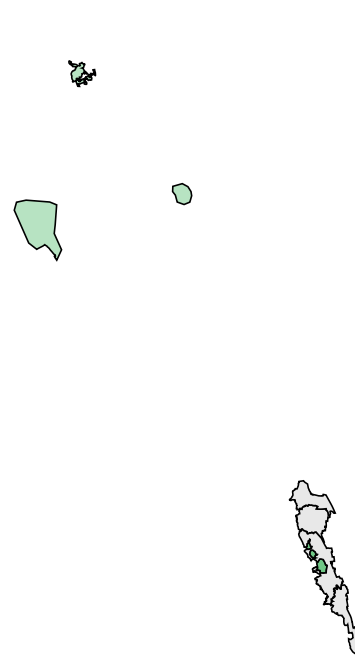
a. Ukhia | Number of cases



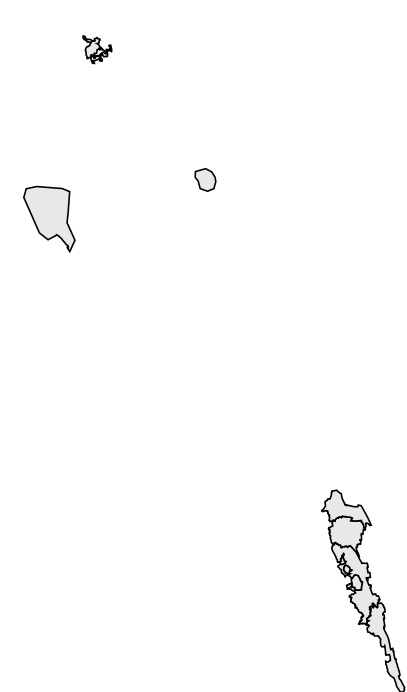
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend

Number of cases



Number of alerts



Alert threshold

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

Alert management (W21 2020)

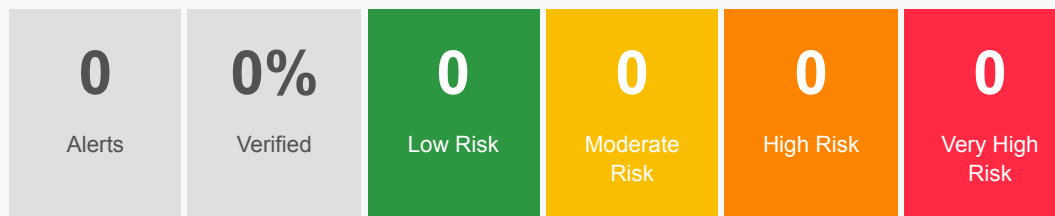
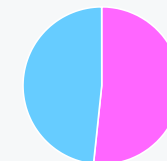
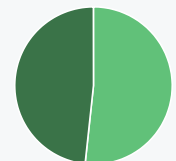


Figure | % sex



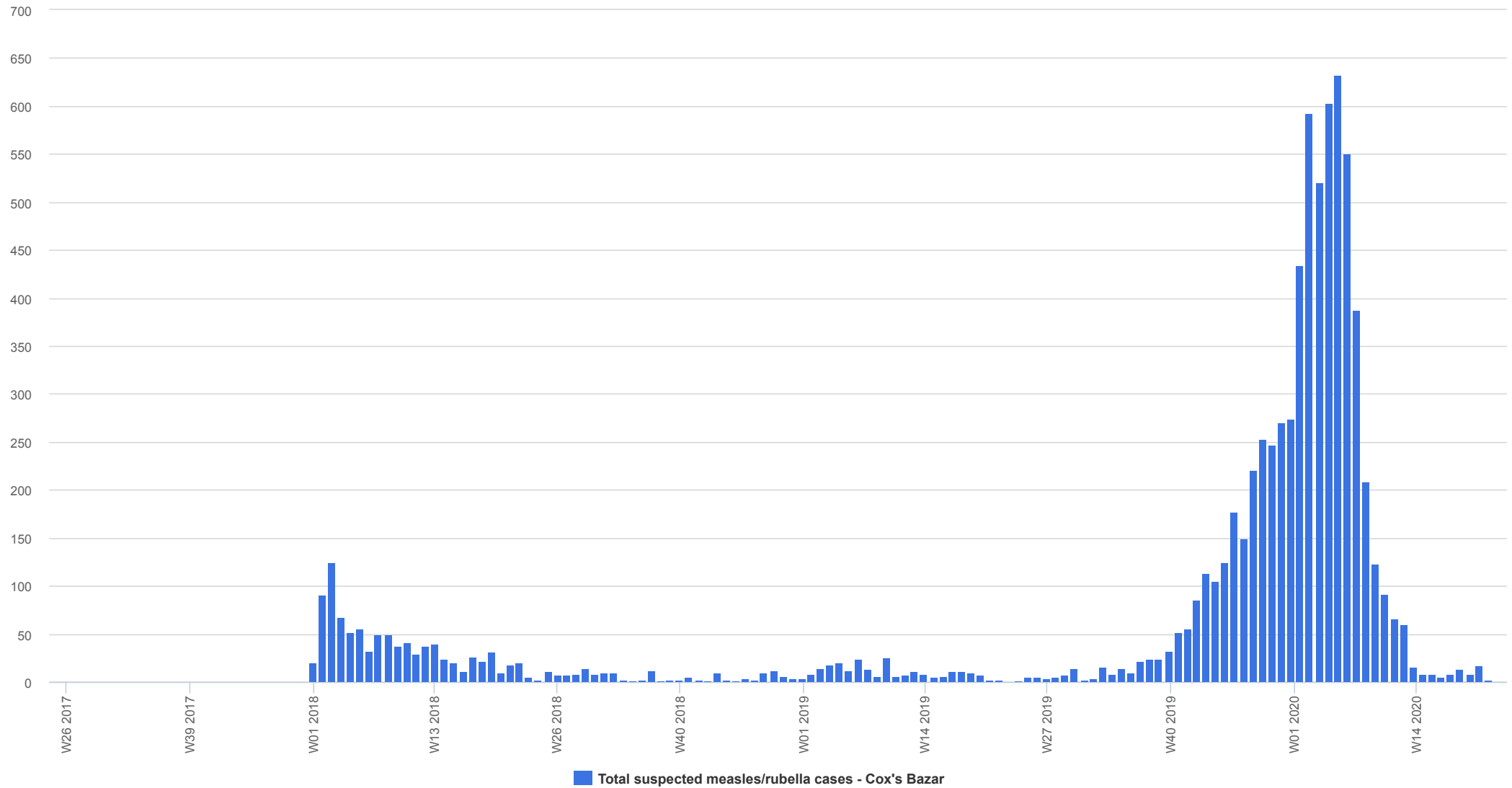
Female Male

Figure | % age



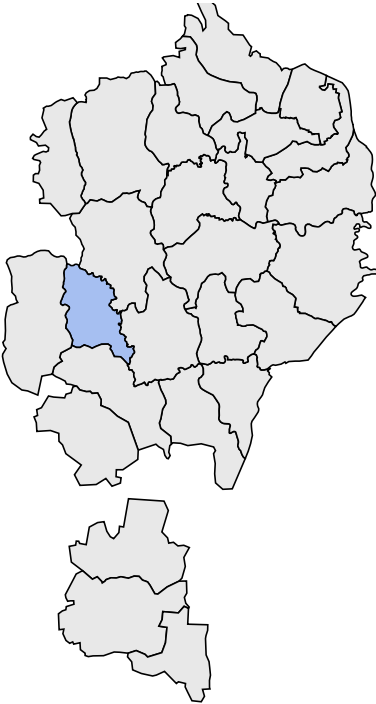
< 5 >= 5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W21 2020)

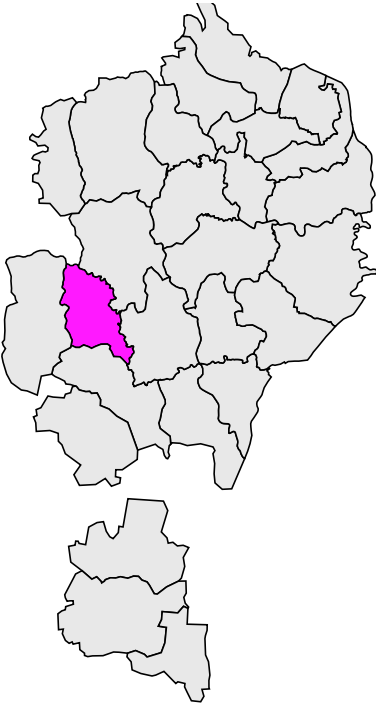


Map 2 | Map of cases by camp (W21 2020)

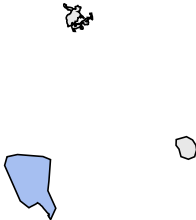
a. Ukhia | Number of cases



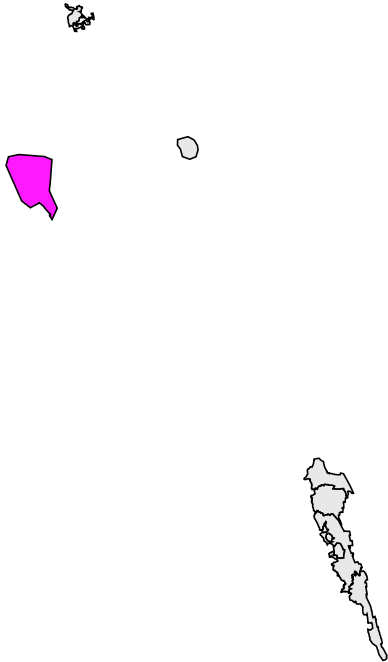
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W21 2020)

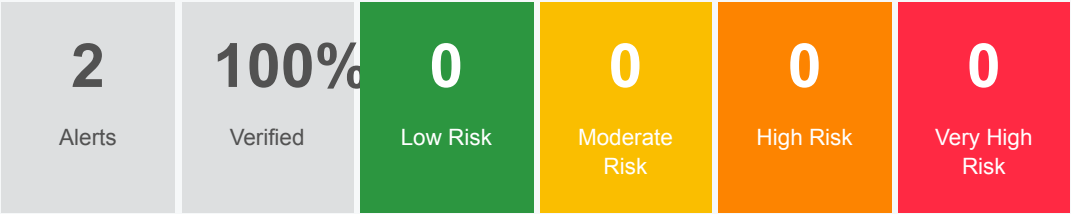


Figure | % sex

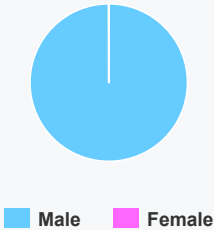
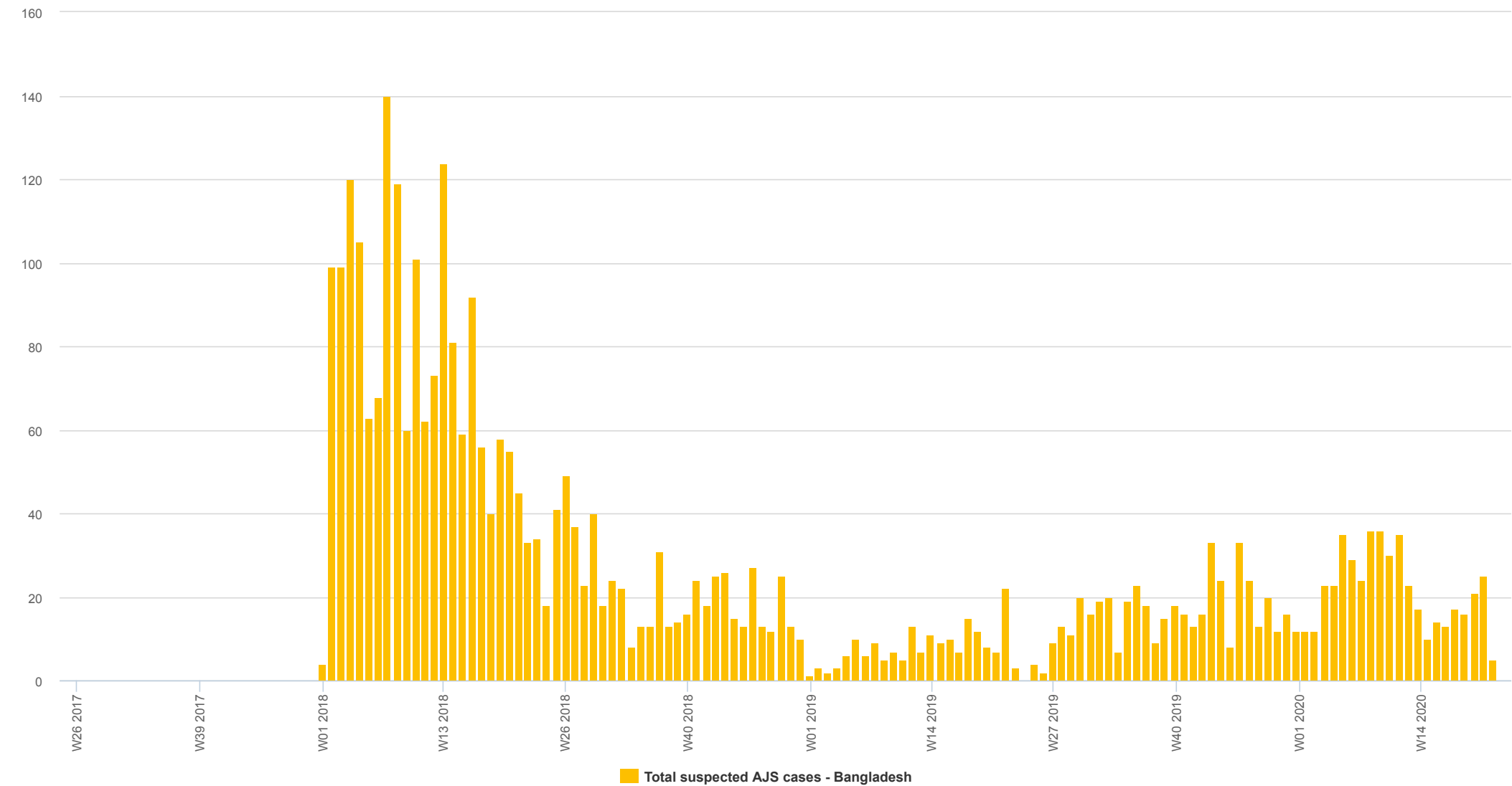


Figure | % age

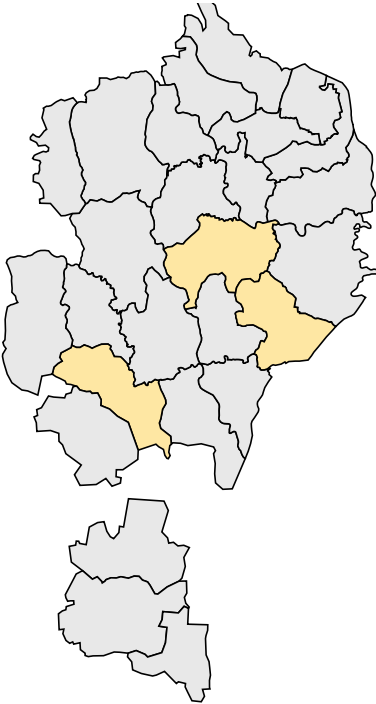


Figure 5 | Trend in number of cases over time (W38 2017 - W21 2020)



Map 3 | Map of cases by camp (W37 2017 - W21 2020)

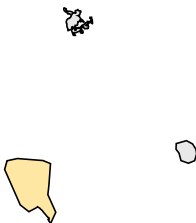
a. Ukhia | Number of cases



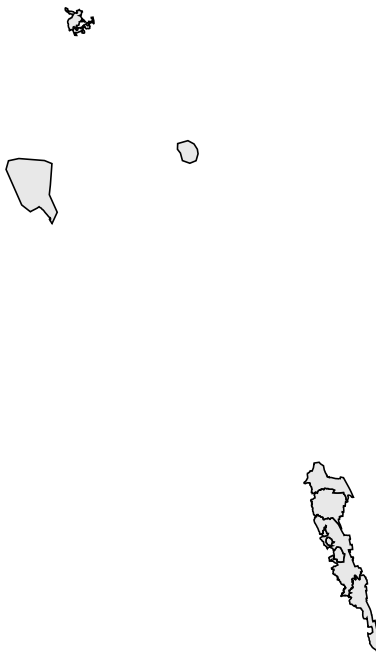
b. Ukhia | Number of alerts



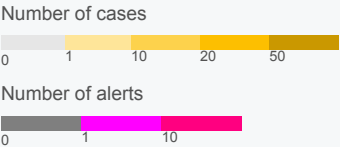
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W21 2020)

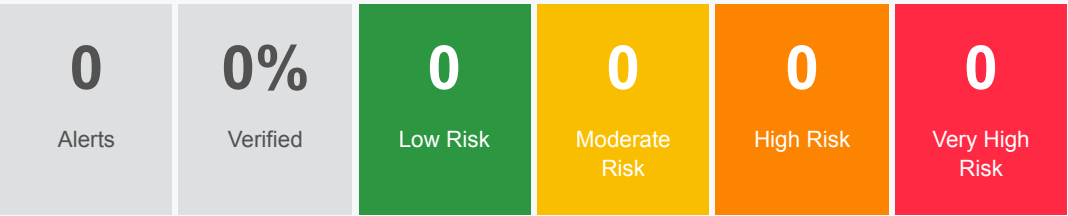


Figure | % sex

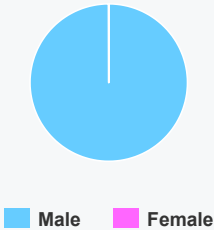


Figure | % age

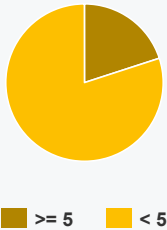


Figure 6 | Trend in number of cases over time (W38 2017 - W21 2020)

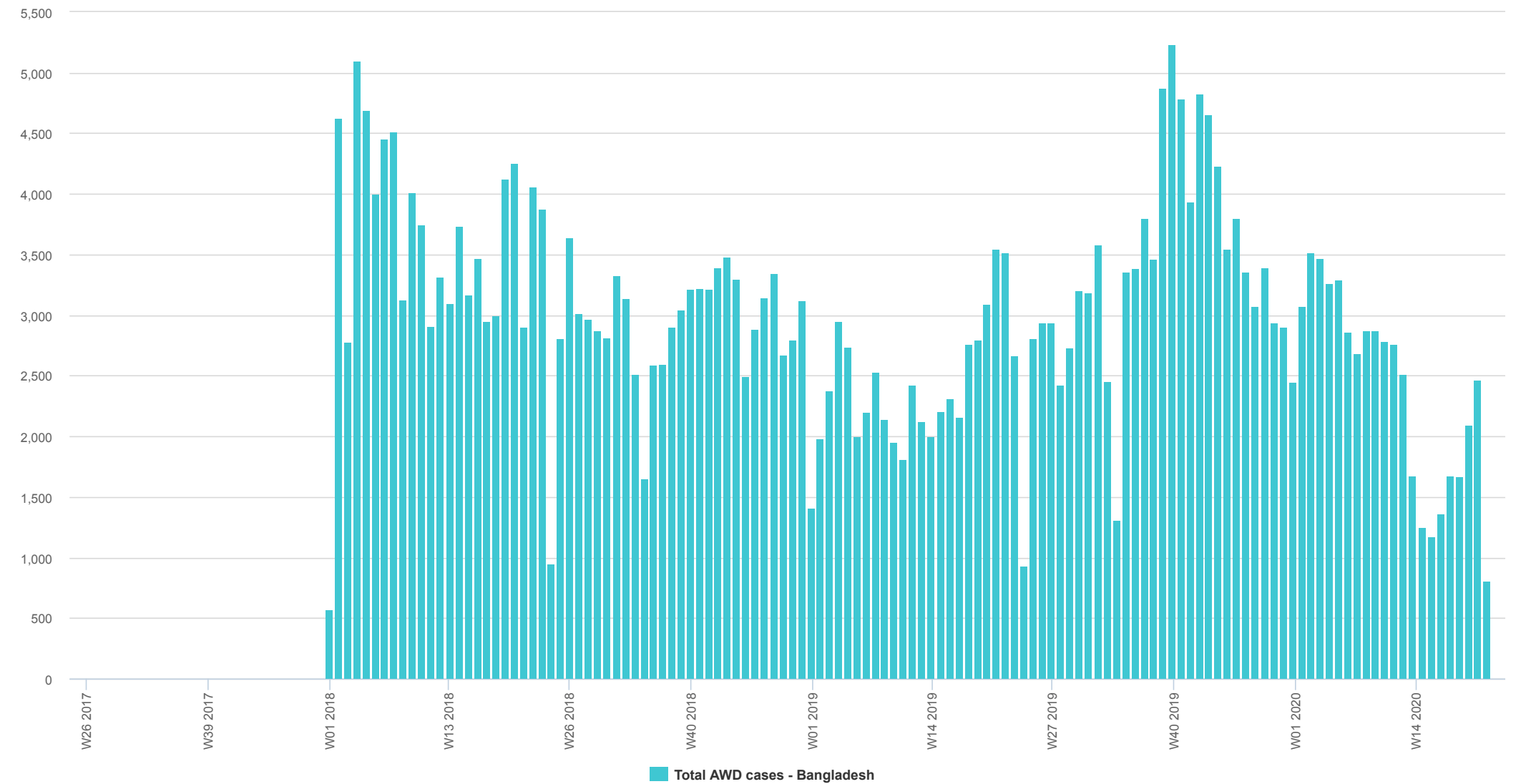
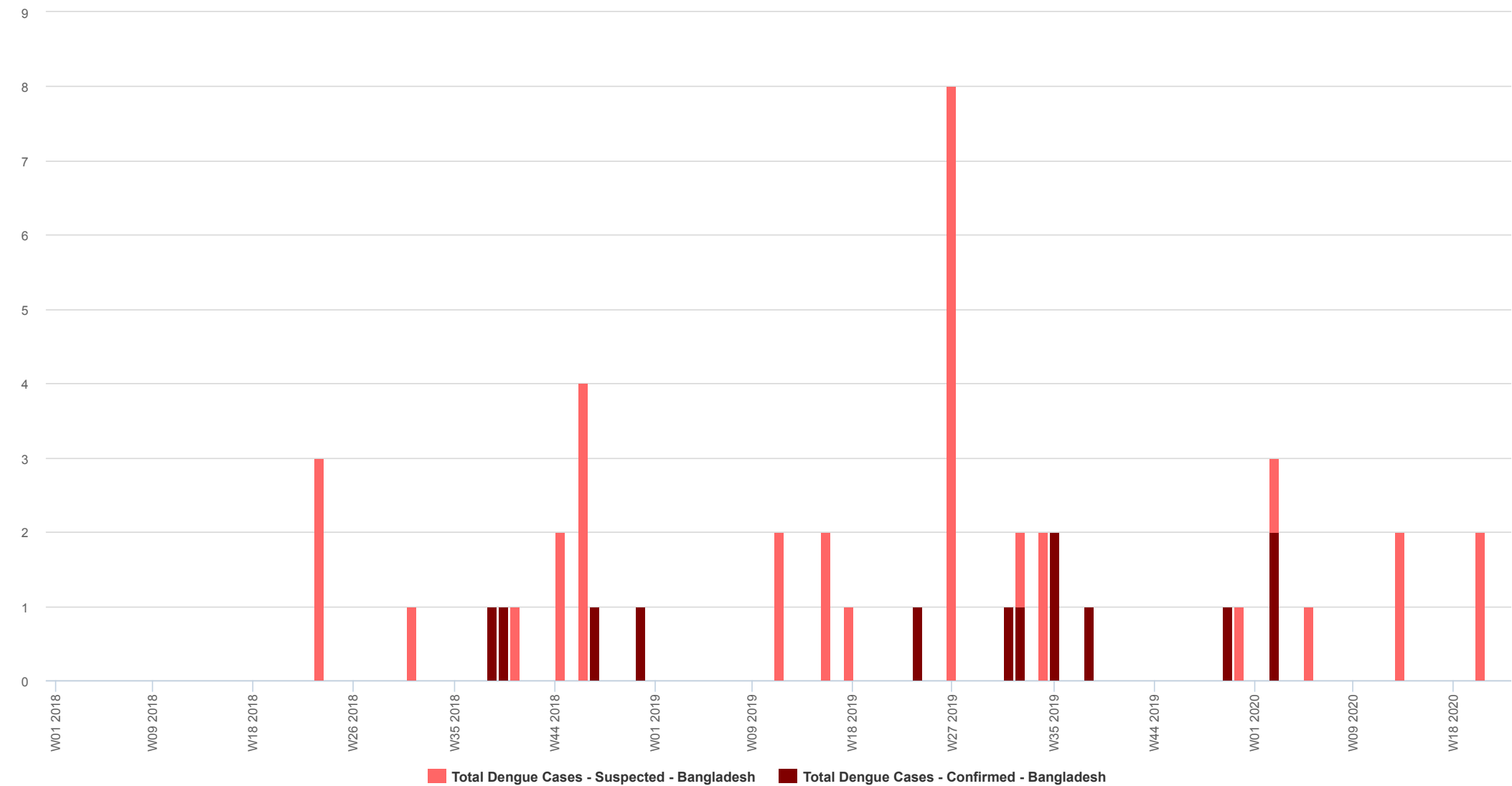
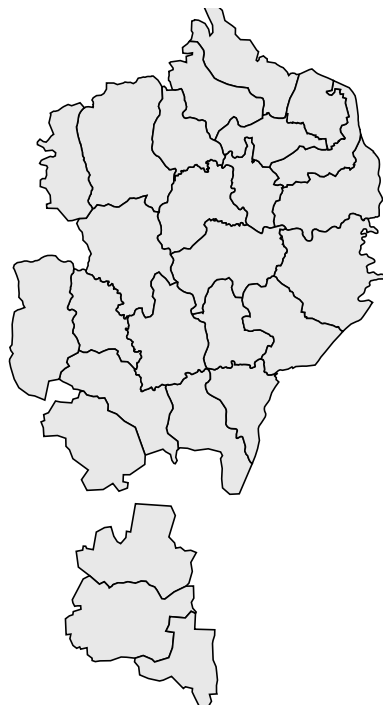


Figure 7 | Trend in number of cases over time (W38 2017 - W21 2020)

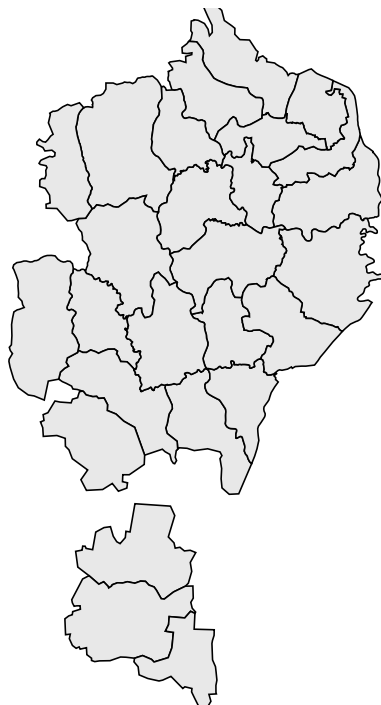


Map 4 | Map of cases by camp (W37 2017 - W21 2020)

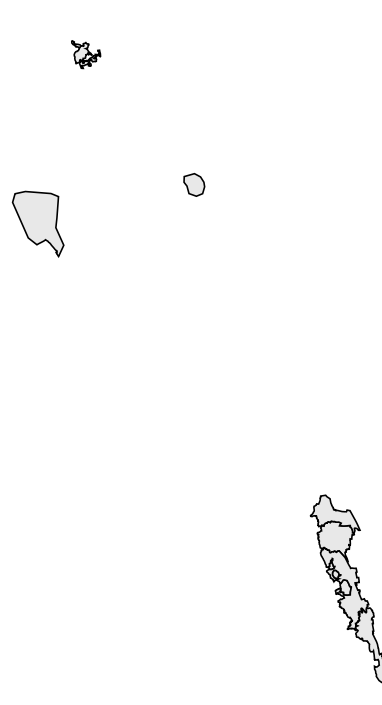
a. Ukhia | Number of cases



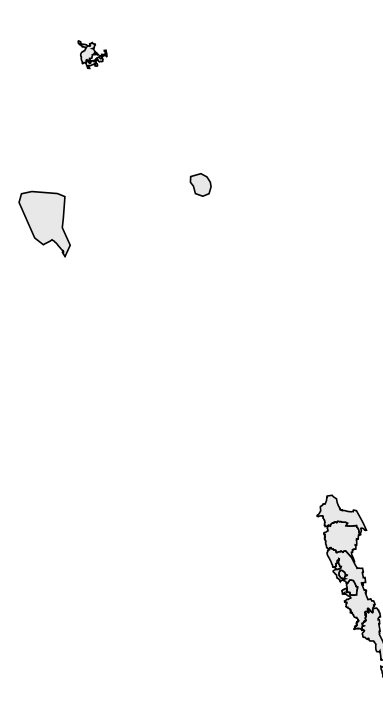
b. Ukhia | Number of alerts



c. Teknaf | Number of cases

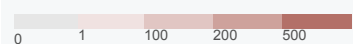


d. Teknaf | Number of alerts



Map legend

Number of cases



Number of alerts



Alert threshold

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

Alert management (W21 2020)

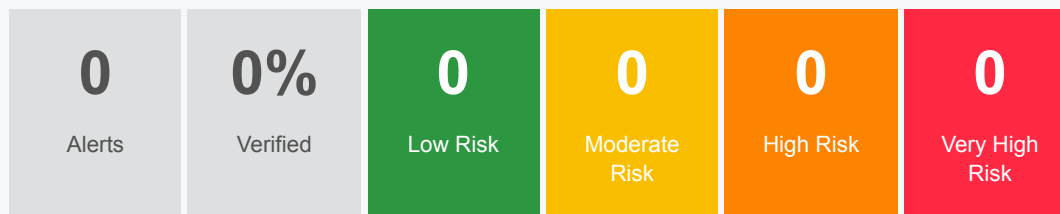
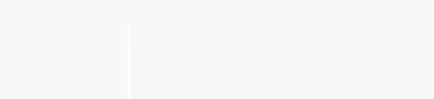


Figure | % sex



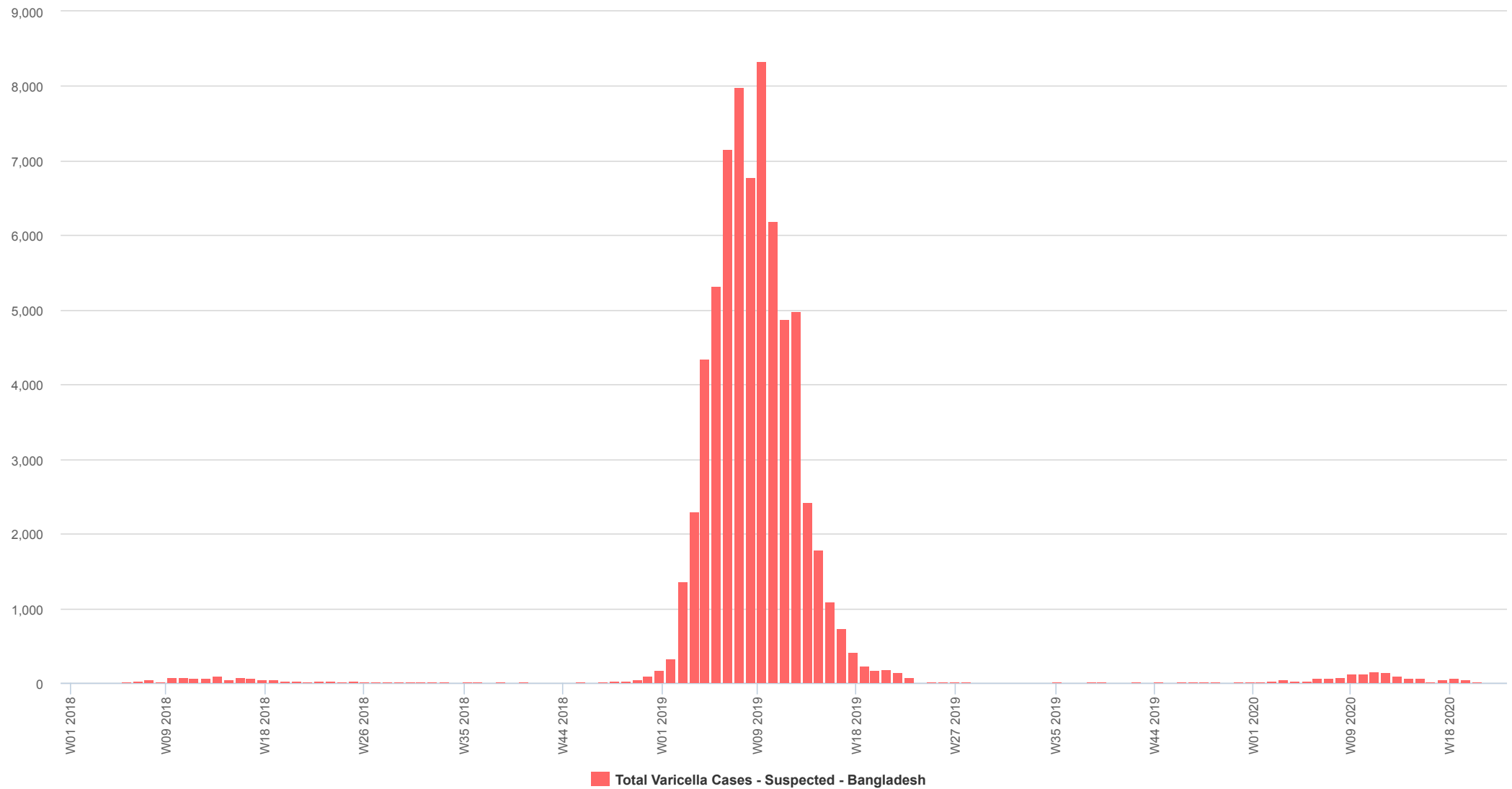
Male Female

Figure | % age



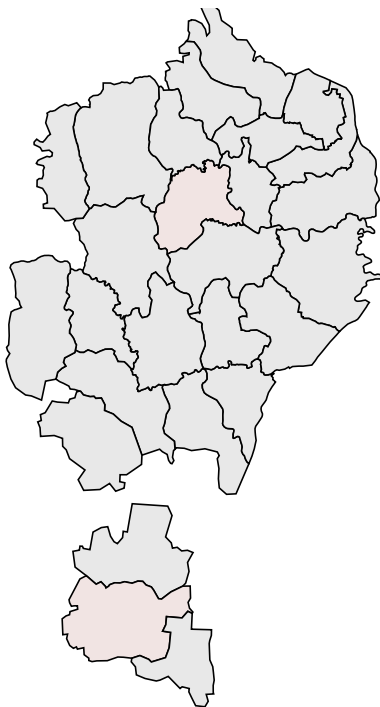
>= 5 < 5

Figure 7 | Trend in number of cases over time (W38 2017 - W21 2020)

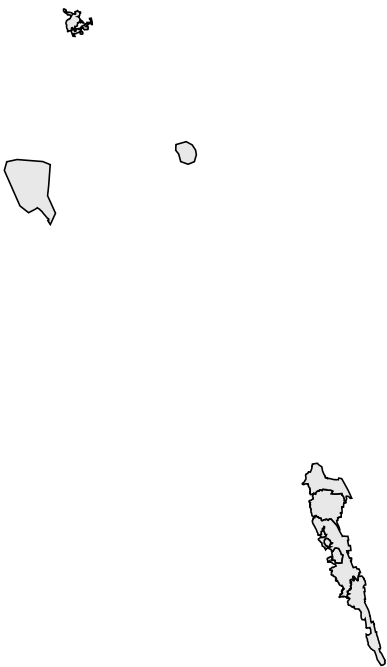


Map 4 | Map of cases by camp (W37 2017 - W21 2020)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

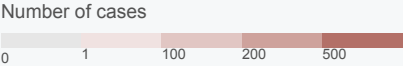


Figure | % sex

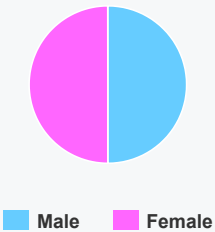
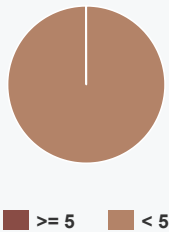


Figure | % age



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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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