



Epidemiological Highlights

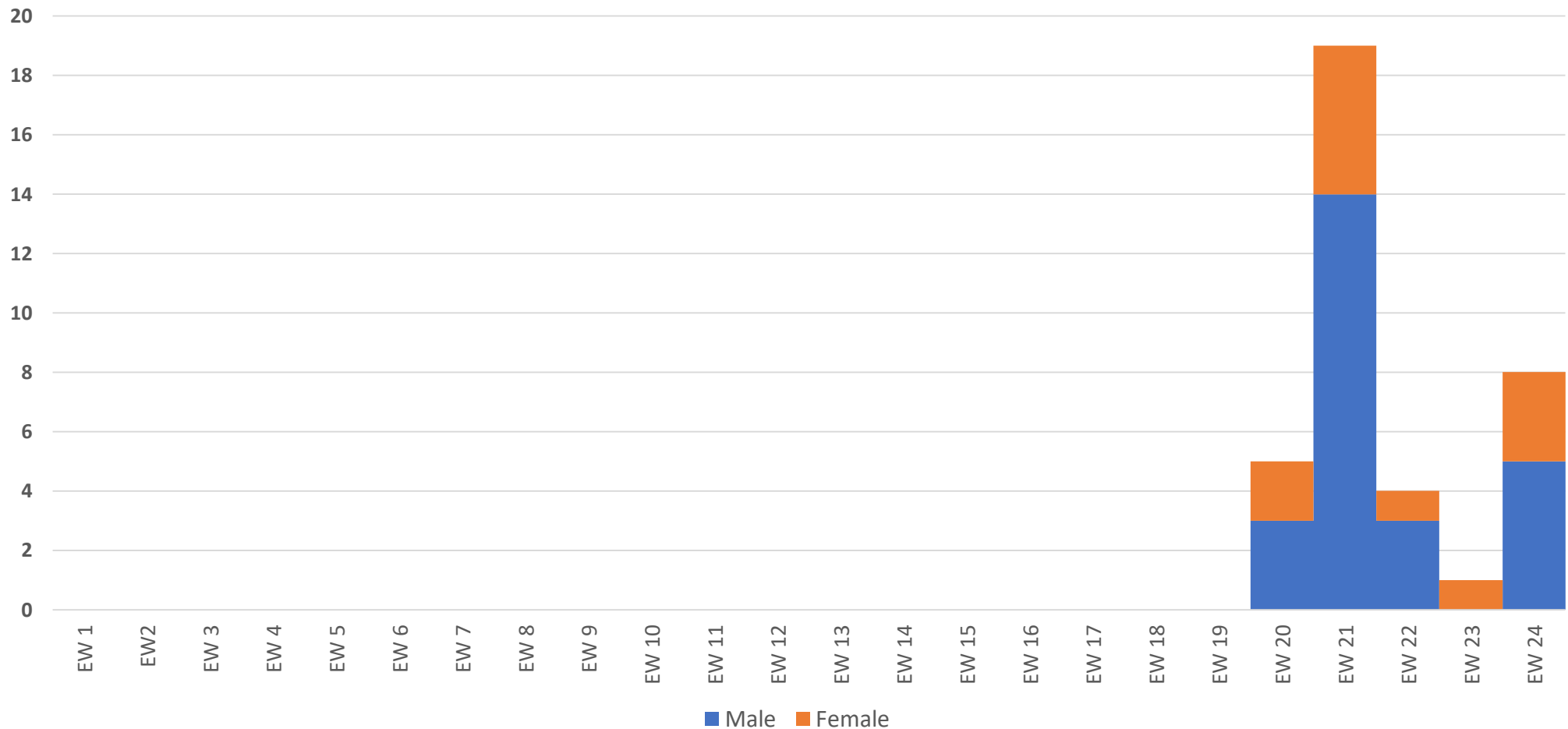
Week 24 (08-14 June 2020)



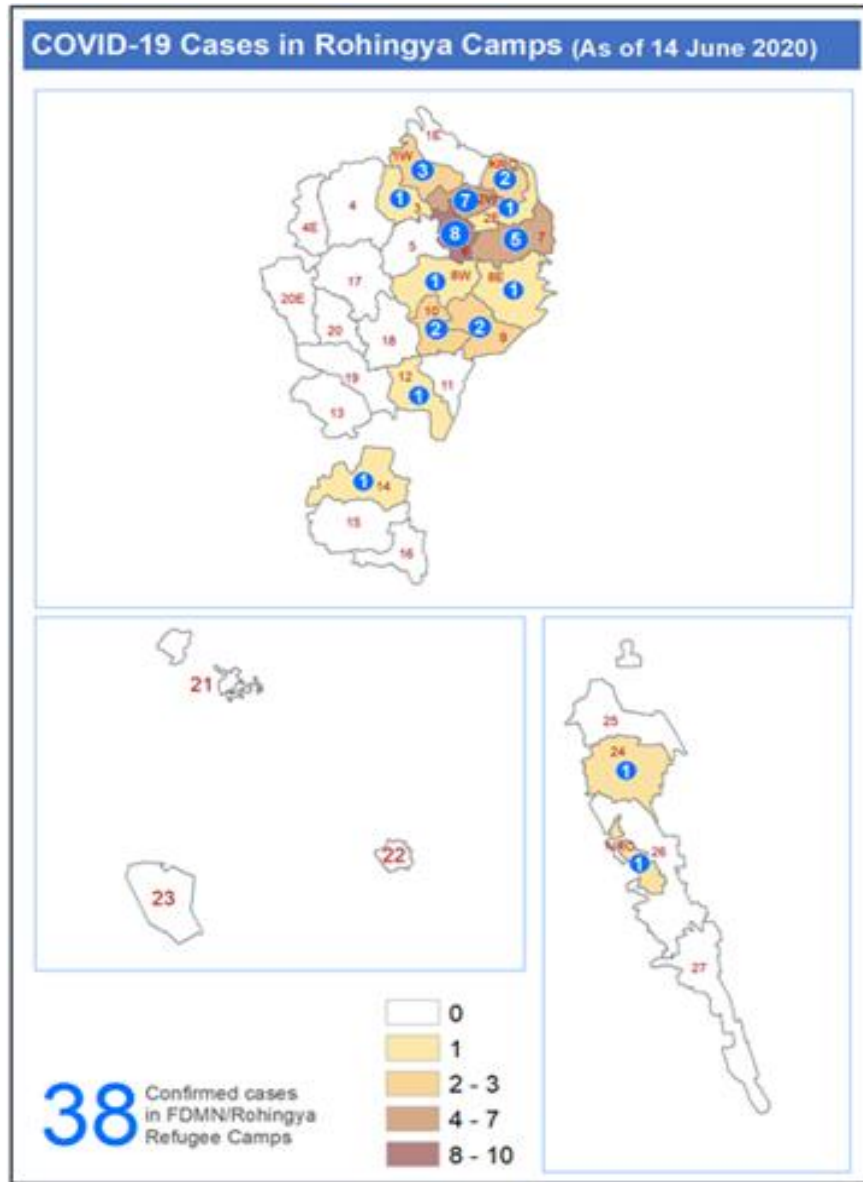
**World Health
Organization**

Highlights:

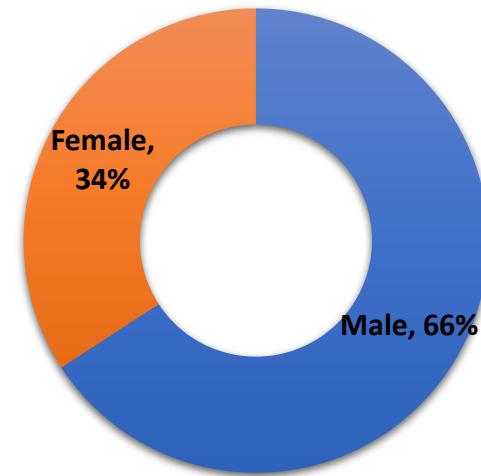
COVID-19 positive cases in camps (n=38)



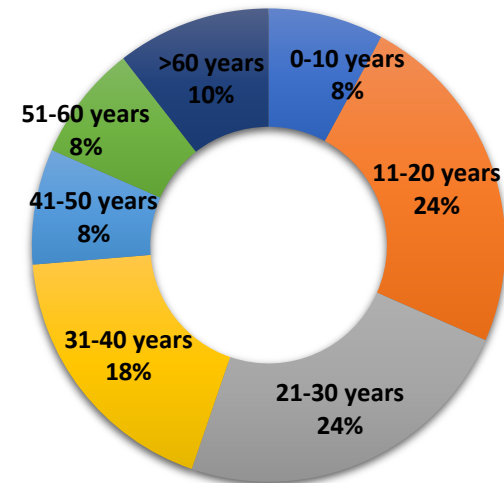
Highlights:



Sex Distribution (n=38)

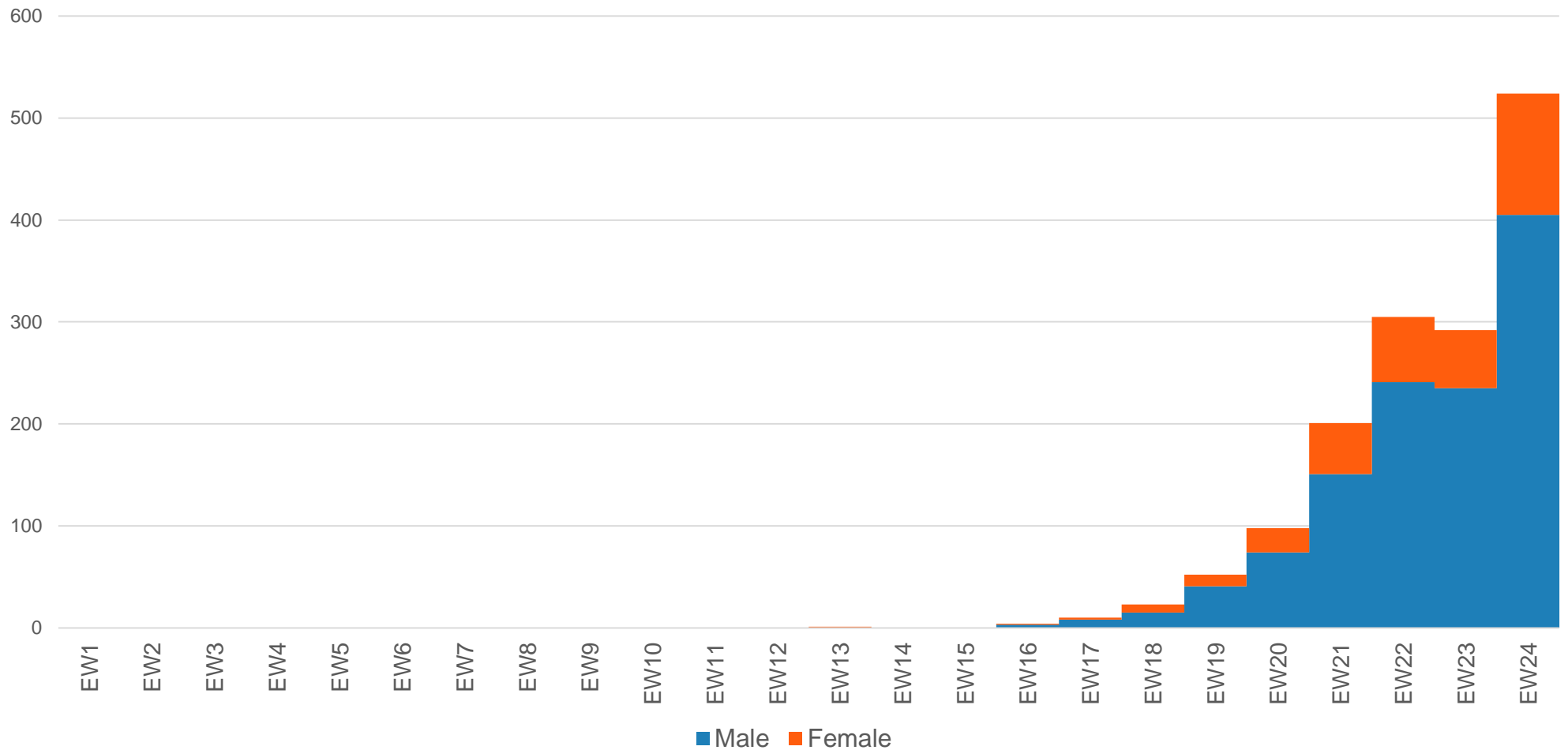


Age Distribution (n=38)

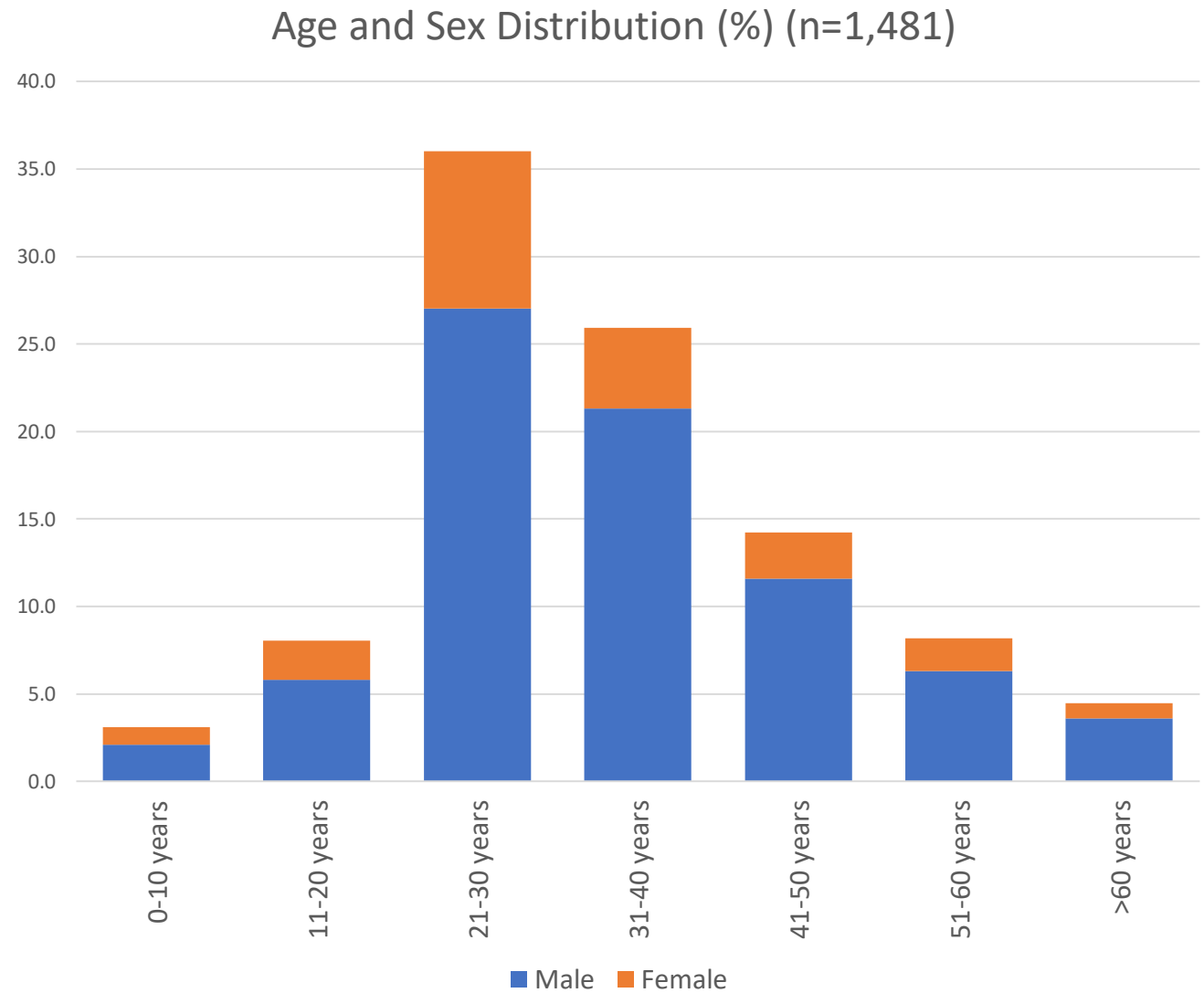
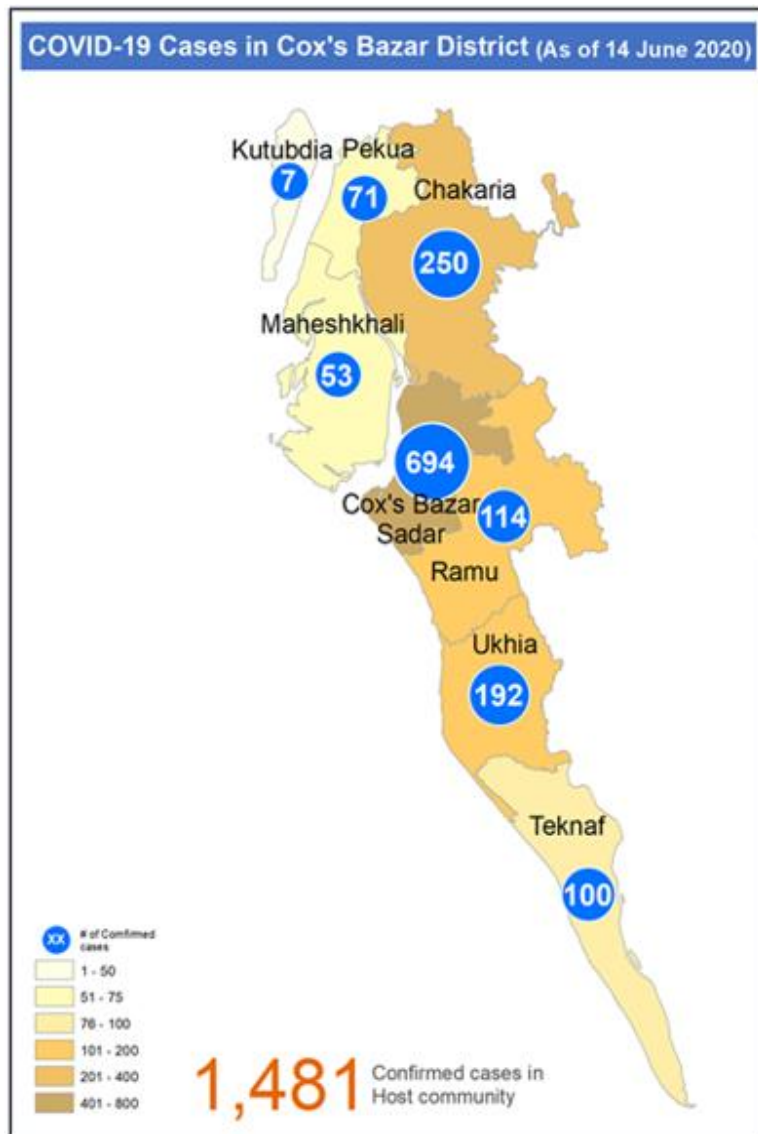


Highlights:

COVID-19 Positive Cases in Cox's Bazar (n=1,481)



Highlights:



Highlights:

- Acute Respiratory Infection (12.7%), Diarrheal Diseases (7.7%) & Unexplained Fever (2.4%) are the diseases with highest proportional morbidity in week 24.
- Total consultation is significantly dropped over 50% in last 3 months. Out of total consultation, ARI contributed 12.7% in week 24 decreased from 26.4% in week 12.
- Two third reduction of total ARI consultation indicates changes in specific health seeking behavior of refugee population.
- Community-based mortality surveillance has included SARI death in weekly reporting. Two (02) SARI death has been reported so far.

EWARS Reporting Updates

- Total 138/166 (83%) health facilities registered in EWARS.
- Only 105/138 weekly reports received in week 24.
- Completeness and Timeliness for this week is 75%.
- Total 69 alerts were triggered in week 24.
- All alerts were reviewed and verified by WHO EWARS team which is less than as of previous week (72).

Diphtheria

Two diphtheria case reported in go.data in week 24

A total of 9 120 case-patients were reported since 2017 to till date

- Confirmed = 329
- Probable = 2785
- Suspected = 6006

Total Case reported in 2020 = 156

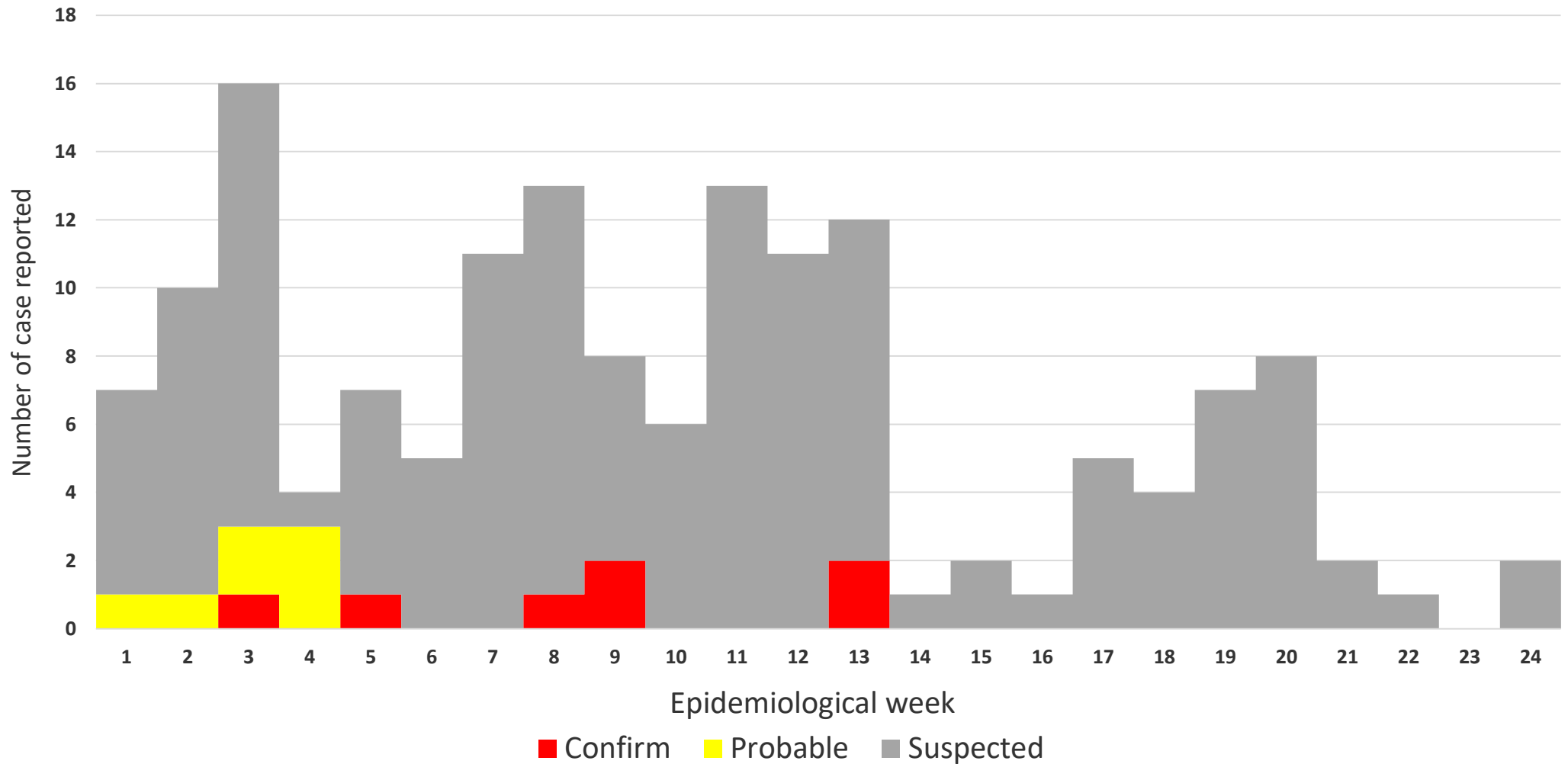
- Confirmed = 7
- Probable = 7
- Suspected = 142

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

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

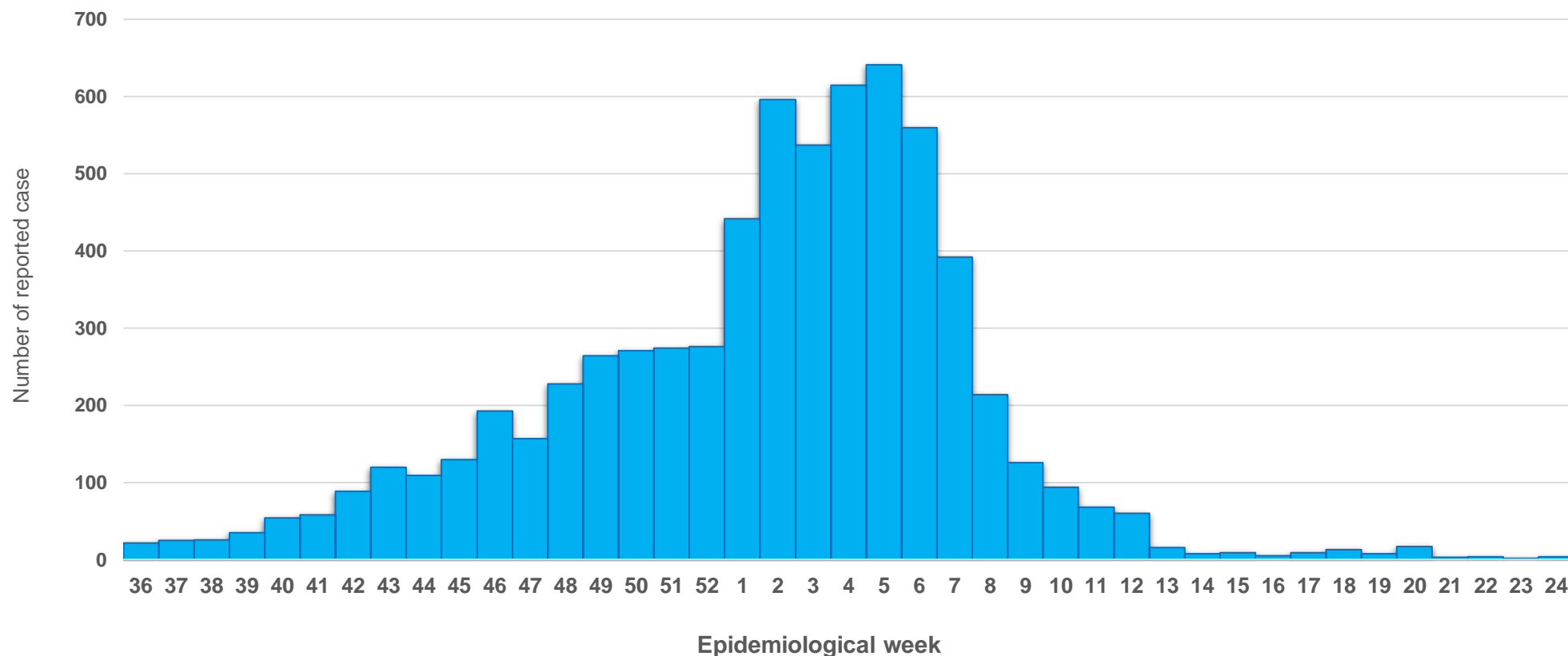
Diphtheria

Total number of diphtheria case reported in EWARS from week 1-24, 2020



Measles

Total number of Measles case reported in EWARS from week 36/19 to 24/20



Total 4 suspected measles case reported through in week 24. Total cases reported in 2020 is 4408 through aggregated weekly reporting, 56% (2,449) out of total captured by case based surveillance.

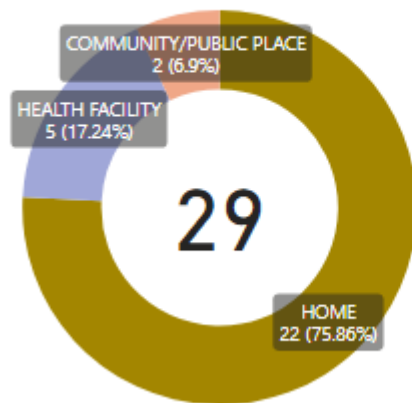
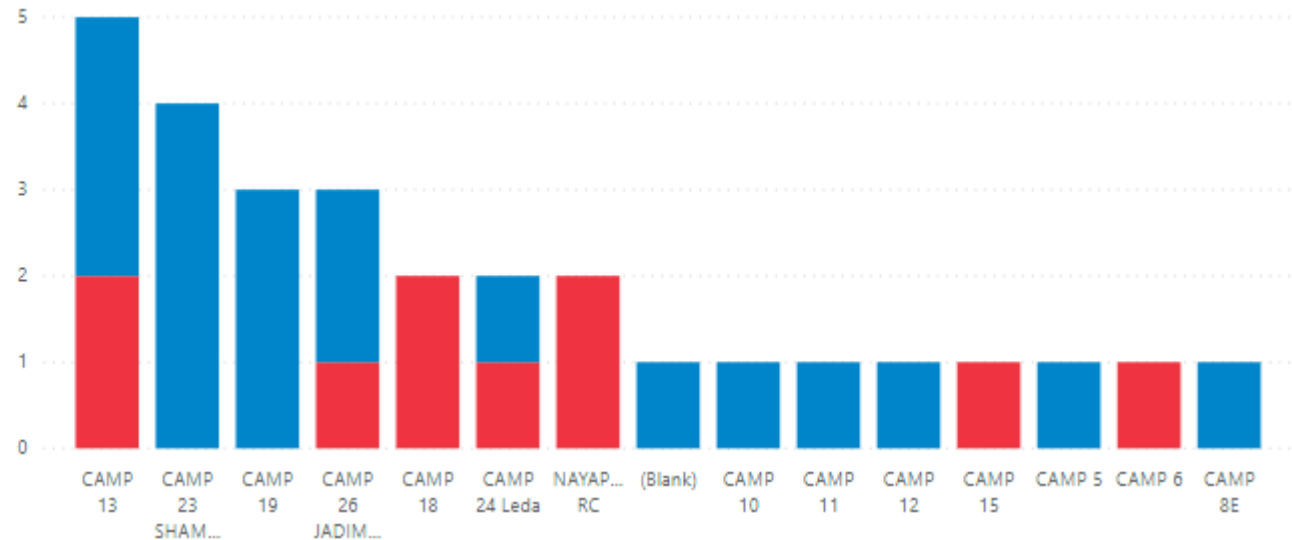
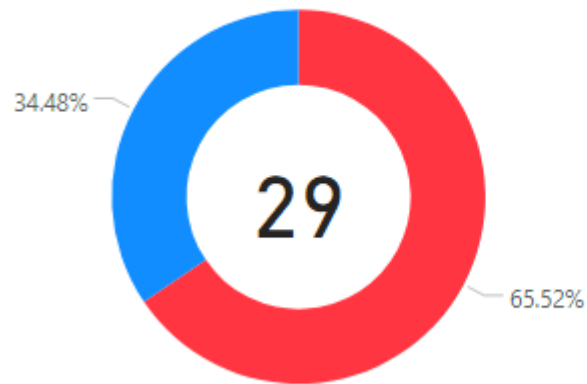
Diarrhoeal Disease

- A total 2 877 cases of diarrhoeal diseases reported in EWARS in week 24
- Among which 1944 cases (5.2%) reported as acute watery diarrhoea (AWD), 666 (1.8%) and 267 (0.7%) 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 Mortality surveillance

- In week 24 total of 29 deaths were recorded due to 21 causes classified as “Others” , 4 neonatal death, 1 maternal death, 3 still birth
- One mortality alert raised for women of reproductive age (12-49 years).
- Five of deaths reported from health facility and 2 from community and 22 from homes.
- 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 Mortality Surveillance



SEVERE ACUTE RESPIRATORY INFECTION

STILL BIRTH (BORN DEAD)

3

OTHER

7

14

NEONATAL (<28 DAYS OLD)

2

2

MATERNAL DEATH

1

INJURY

INFECTIOUS DISEASE

ACUTE MALNUTRITION

■ FEMALE ■ MALE

Community-based Disease Surveillance

- Total of 6 alerts received during this week from CBS network and all alerts verified by WHO Epi Team.
- Community based surveillance started 2 weeks back in support of CHWG (Community Health Working Group) in response to a reduction in service uptake by community in last 2 months and to strengthen COVID-19 surveillance in camps.
- In total 13 alerts have been received till to date since the surveillance started.

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W24 2020



Ministry of Health and Family
Welfare Bangladesh



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HEALTH SECTOR
COX'S BAZAR



Printed: 04:28 Wednesday, 17 June 2020 UTC

Contents

Highlights

Slide 1	Table 1 Coverage
	Table 2 Early warning performance
	Table 3 Alert performance

Early Warning

Slide 2	Map 1a Ukhia completeness by site/zone
	Map 1b Teknaf completeness by site/zone
Slide 3	Table 4 Ukhia (Northern group) performance by site/zone
	Map 2 Ukhia (Northern group) completeness by site/zone
Slide 4	Table 5 Ukhia (Southern group) performance by site/zone
	Map 3 Ukhia (Southern group) completeness by site/zone
Slide 5	Table 6 Teknaf performance by site/zone
	Map 4 Teknaf completeness by site/zone
Slide 6	Table 7 Performance by partner

Alert

Slide 7	Table 8 Ukhia (Northern group) alerts by site/zone
	Map 5 Ukhia (Northern group) alerts site/zone
Slide 8	Table 9 Ukhia (Southern group) alerts by site/zone
	Map 6 Ukhia (Southern group) alerts site/zone
Slide 9	Table 10 Teknaf alerts by site/zone
	Map 7 Teknaf alerts site/zone
Slide 10	Table 11 Performance by type of alert
	Table 12 Risk Assessment

Sources of data

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

Highlights W24 2020

Table 1 | Coverage

#	%	
854,704	-	Estimated total Rohingya population ¹
854,704	100%	Total population under surveillance
166	-	Total number of health facilities
138	83%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W24	Cumulative (2020)	
105	3285	Number of weekly reports received
75%	91%	Completeness
75%	82%	Timeliness

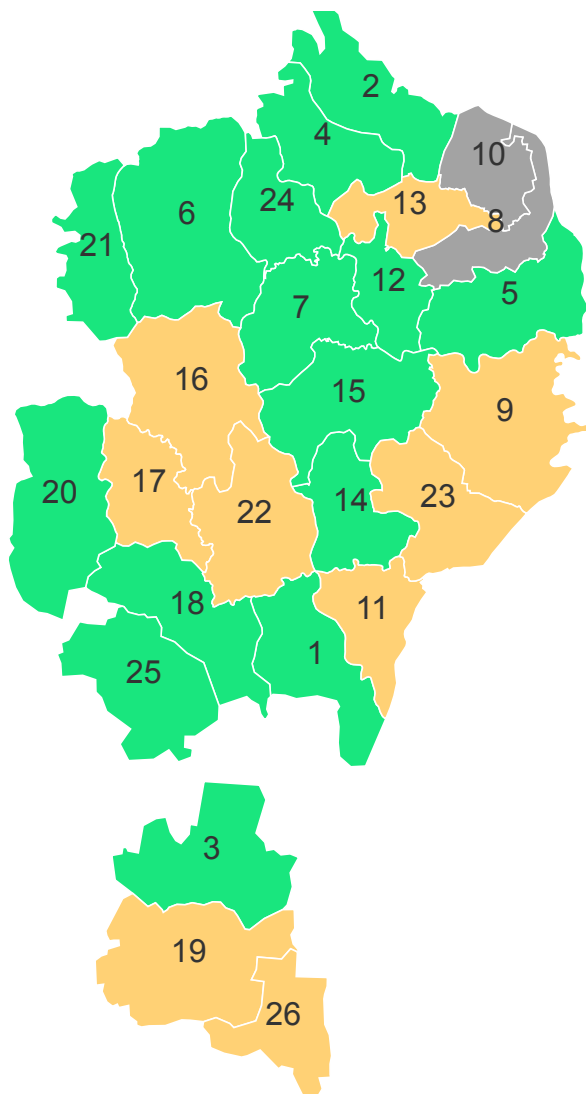
Table 3 Alert performance indicators

W24	Cumulative (2020)	
69	1,522	Total alerts raised
100%	100%	% verified
0%	0%	% auto-discarded
0%	0%	% undergoing risk assessment
0%	1%	% completed risk assessment

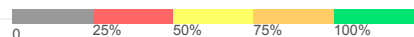
¹ Source: UNHCR. Bangladesh: Joint Government of Bangladesh- UNHCR Population Factsheet. 31 December 2019.

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

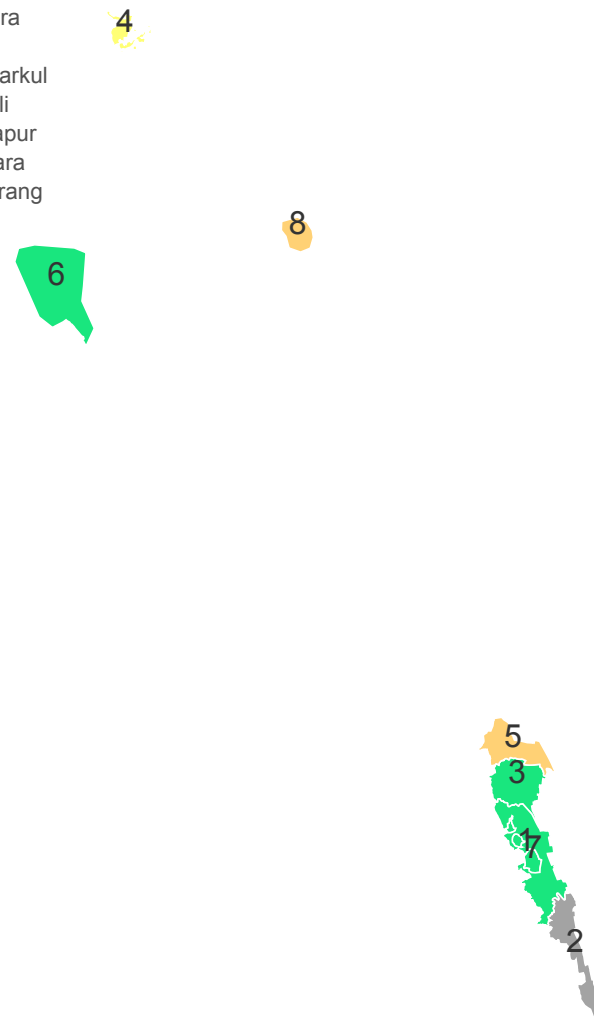


Completeness



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

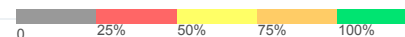


Table 4 | Performance by camp (W24 2020)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 1E	4	4	100%	100%
Camp 1W	3	3	100%	100%
Camp 2E	1	0	0%	0%
Camp 2W	2	1	50%	50%
Camp 3	6	6	100%	100%
Camp 4	6	4	80%	80%
Camp 4 Ext	1	1	100%	100%
Camp 5	4	4	100%	100%
Camp 6	2	2	100%	100%
Camp 7	5	5	100%	100%
Camp 8E	7	3	50%	50%
Camp 8W	7	6	86%	86%
Kutupalong RC	1	0	0%	0%

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

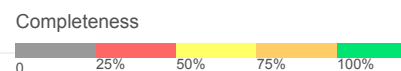
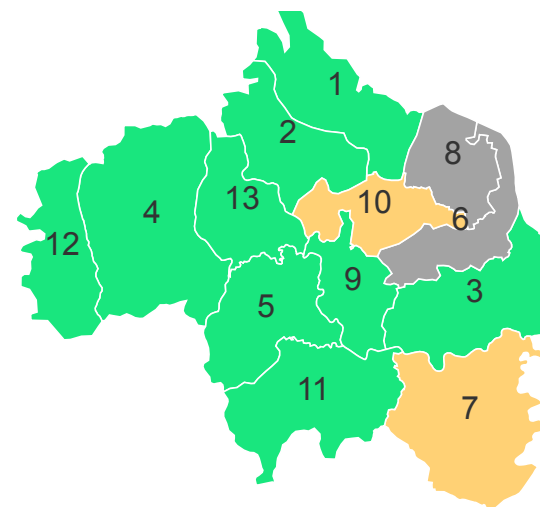
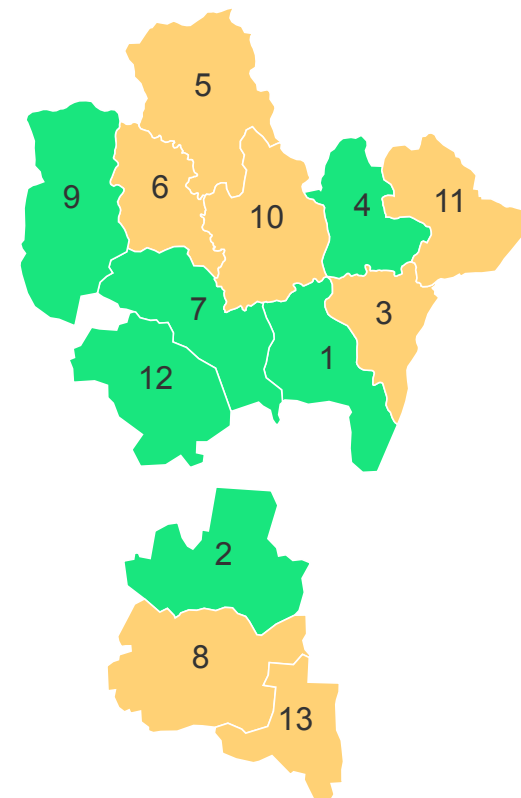


Table 5 | Performance by camp (W24 2020)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 10	4	4	100%	100%
Camp 11	9	6	67%	67%
Camp 12	7	6	100%	100%
Camp 13	8	7	86%	86%
Camp 14	6	5	83%	83%
Camp 15	11	5	56%	56%
Camp 16	5	3	60%	60%
Camp 17	5	3	60%	60%
Camp 18	5	3	60%	60%
Camp 19	5	4	80%	80%
Camp 20	3	2	67%	67%
Camp 20 Ext	1	1	100%	100%
Camp 9	7	3	60%	60%

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



Completeness

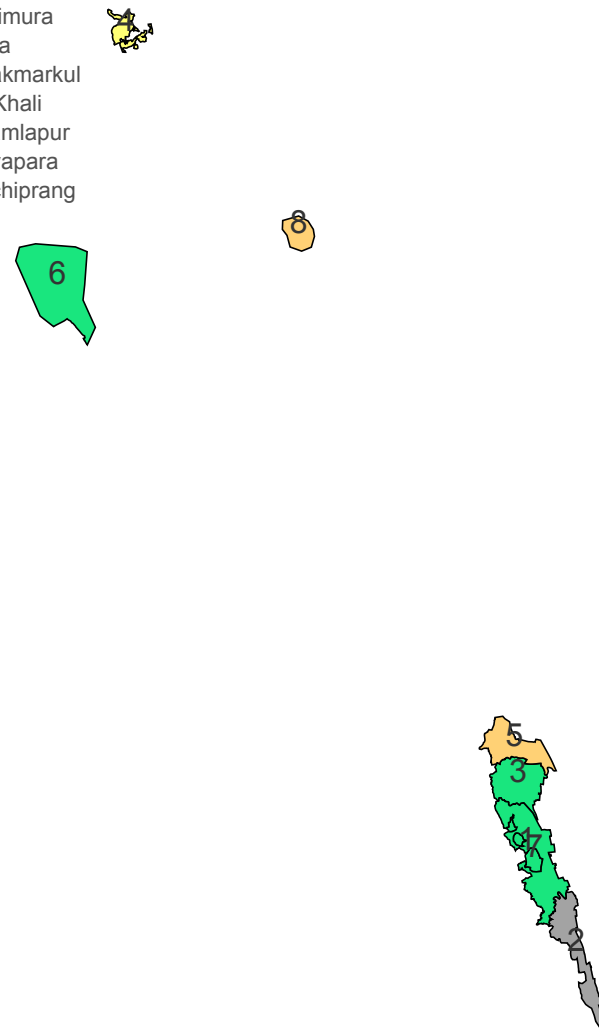


Table 6 | Performance by camp (W24 2020)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 21 Chakmarkul	4	2	33%	33%
Camp 22 Unchiprang	4	2	67%	67%
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	1	1	100%	100%
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 (W24 2020)

Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
BDRCS	4	2	50%	50%
BRAC	11	11	100%	100%
CARE	4	4	100%	100%
FHM	1	0	0%	0%
FRNDS	12	12	100%	100%
GK	9	9	100%	100%
HMBDF	1	1	100%	100%
IOM	15	12	80%	80%
IRC	2	2	100%	100%
MSF	8	3	38%	38%
MoH	0	1	0%	0%
Hope	1	1	100%	100%
Medair	1	1	100%	100%

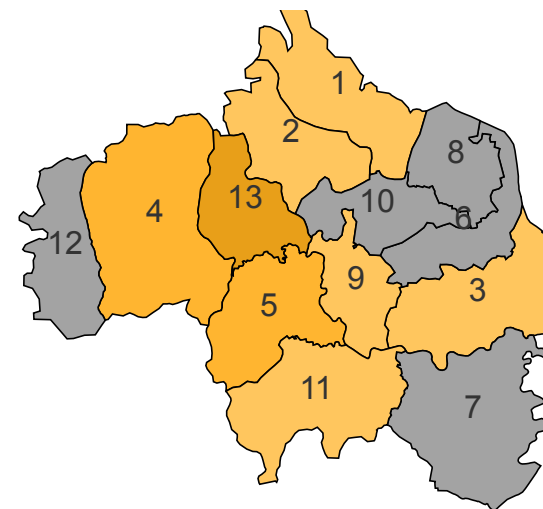
Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
FH/MTI	3	3	100%	100%
PHD	9	9	100%	100%
PWJ	1	1	100%	100%
RHU	3	2	67%	67%
RI	3	3	100%	100%
RTMI	9	9	100%	100%
SCI	9	0	0%	0%
TdH	1	1	100%	100%

Table 8 | Performance by camp

Northern group	W24		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 1E	1	100%	36	100%
Camp 1W	2	100%	18	100%
Camp 2E	0	0%	35	100%
Camp 2W	0	0%	37	100%
Camp 3	7	100%	111	100%
Camp 4	3	100%	104	100%
Camp 4 Ext	0	0%	11	100%
Camp 5	4	100%	84	100%
Camp 6	2	100%	17	100%
Camp 7	2	100%	31	100%
Camp 8E	0	0%	19	100%
Camp 8W	2	100%	65	98%
Kutupalong RC	0	0%	12	100%

Map 5 | Number of alerts 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



of alerts

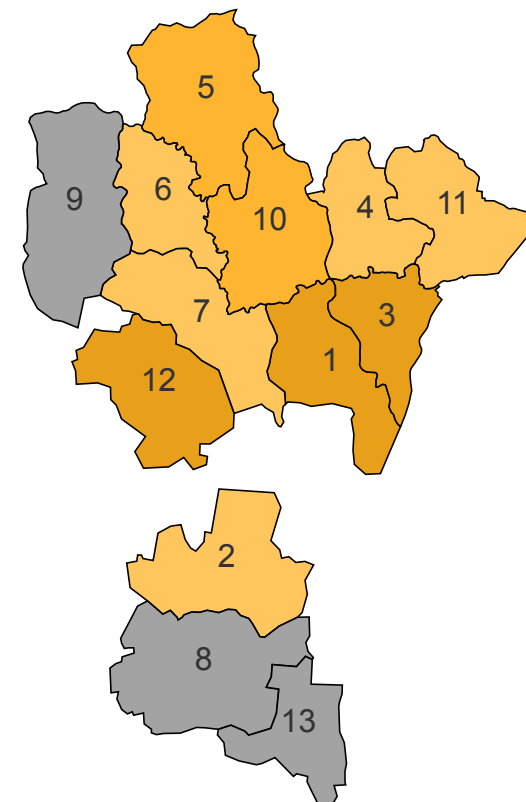


Table 9 | Performance by camp

Southern group	W24		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 10	1	100%	39	100%
Camp 11	7	100%	62	100%
Camp 12	6	100%	90	99%
Camp 13	6	83%	69	99%
Camp 14	2	100%	54	100%
Camp 15	0	0%	80	100%
Camp 16	0	0%	83	96%
Camp 17	3	100%	42	100%
Camp 18	3	100%	42	100%
Camp 19	2	100%	52	100%
Camp 20	1	100%	39	100%
Camp 20 Ext	0	0%	8	100%
Camp 9	2	100%	69	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

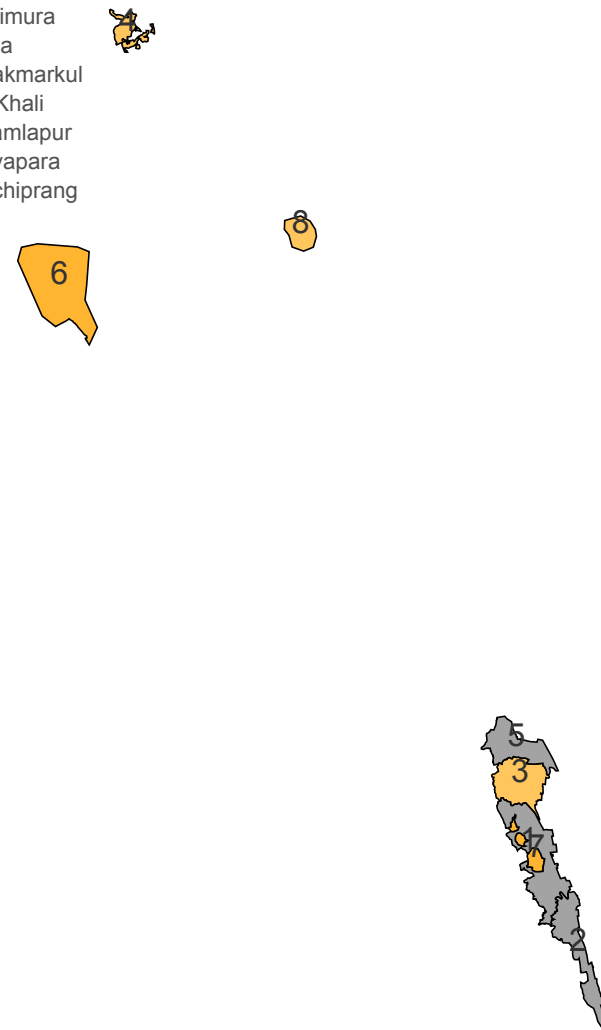


Table 10 | Performance by camp

Teknaf	W24		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 21 Chakmarkul	2	100%	38	100%
Camp 22 Unchiprang	2	100%	16	100%
Camp 23 Shamlapur	3	100%	20	100%
Camp 24 Leda	1	100%	17	100%
Camp 25 Ali Khali	0	0%	13	100%
Camp 26 Nayapara	0	0%	42	100%
Camp 27 Jadimura	0	0%	13	100%
Nayapara RC	3	100%	14	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	W24		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	2	100%	664	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	9	100%	106	100%
AWD	16	100%	124	100%
ARI	18	100%	119	100%
AJS	1	100%	58	100%
Varicella (Susp.)	0	0%	10	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	5	100%	97	100%

Table 12 | Risk assessment

W24	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>



Ministry of
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Welfare
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HEALTH SECTOR
COX'S BAZAR



Global
EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W24 2020



Ministry of Health and Family
Welfare Bangladesh



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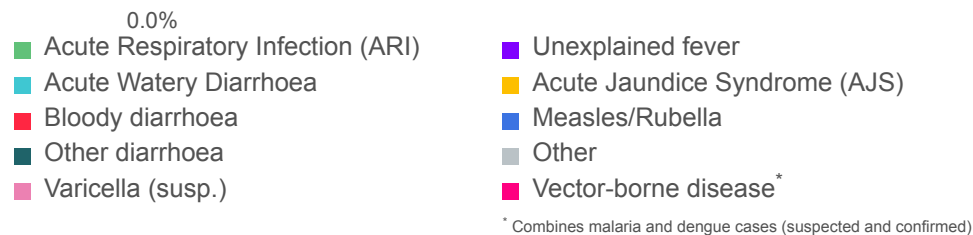
HEALTH SECTOR
COX'S BAZAR



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Proportional morbidity

Figure 1 | Proportional morbidity (W24 2020)



Disease	W24		2020	
	# cases	% morbidity	# cases	% morbidity
AWD	1,944	5.2%	59,076	4.5%
Bloody diarr.	267	0.7%	7,682	0.6%
Other diarr.	666	1.8%	22,966	1.7%
Susp. Varicella	18	0.0%	1,366	0.1%
ARI	4,722	12.7%	295,040	22.3%
Measles/Rub.	4	0.0%	4,408	0.3%
AFP	0	0.0%	5	0.0%
Susp. menin.	0	0.0%	33	0.0%
AJS	3	0.0%	475	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.)	415	1.1%	1,123	0.1%
Dengue (conf.)	0	0.0%	1	0.0%
Dengue (susp.)	0	0.0%	4	0.0%
Unexpl. fever	906	2.4%	28,061	2.1%
Sev. Malnut.	9	0.0%	576	0.0%
Inj./Wounds	849	2.3%	35,174	2.7%
Other	27,344	73.6%	868,615	65.6%
Total	36,247	100%	1,325,105	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W24)

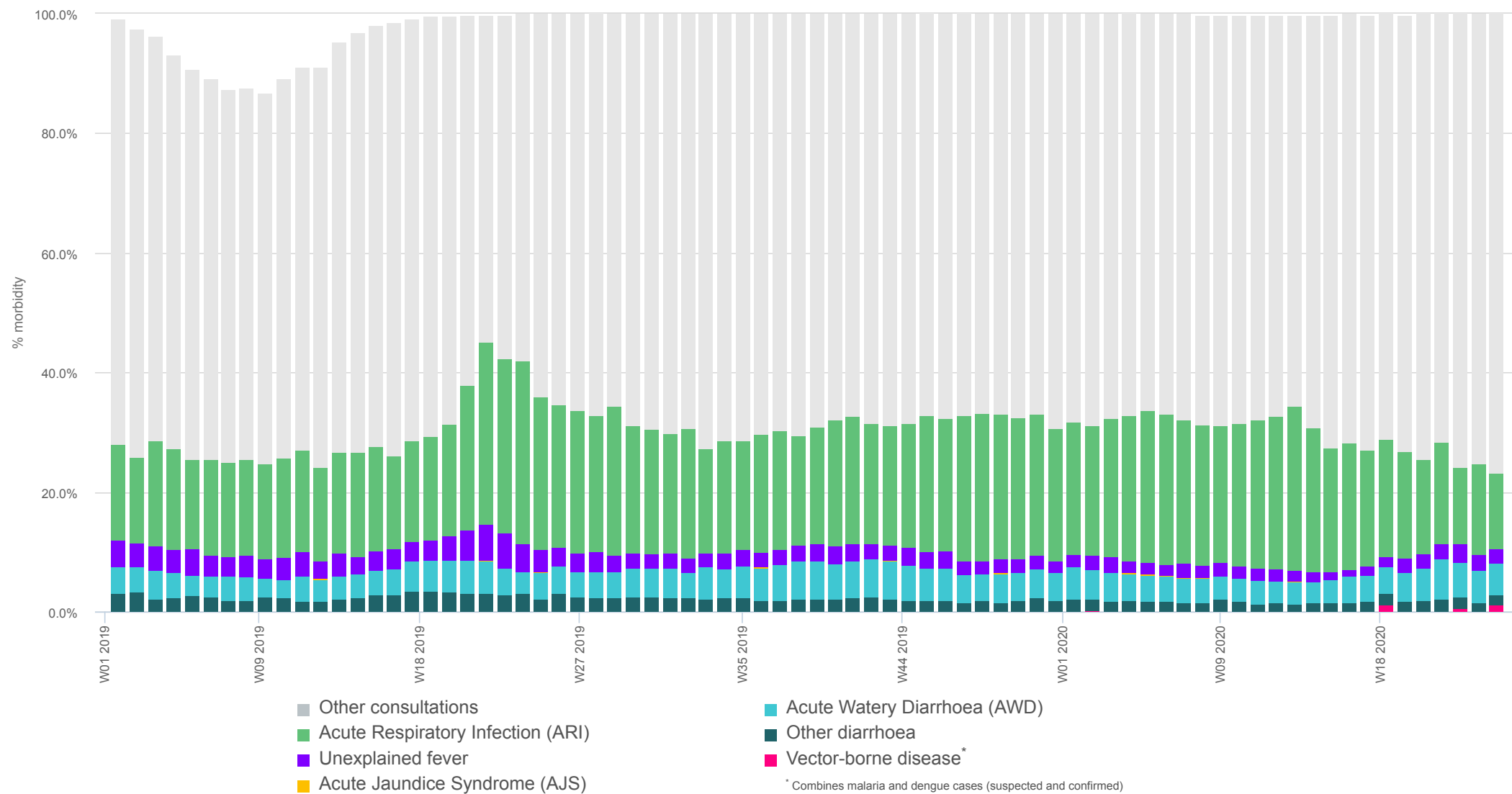
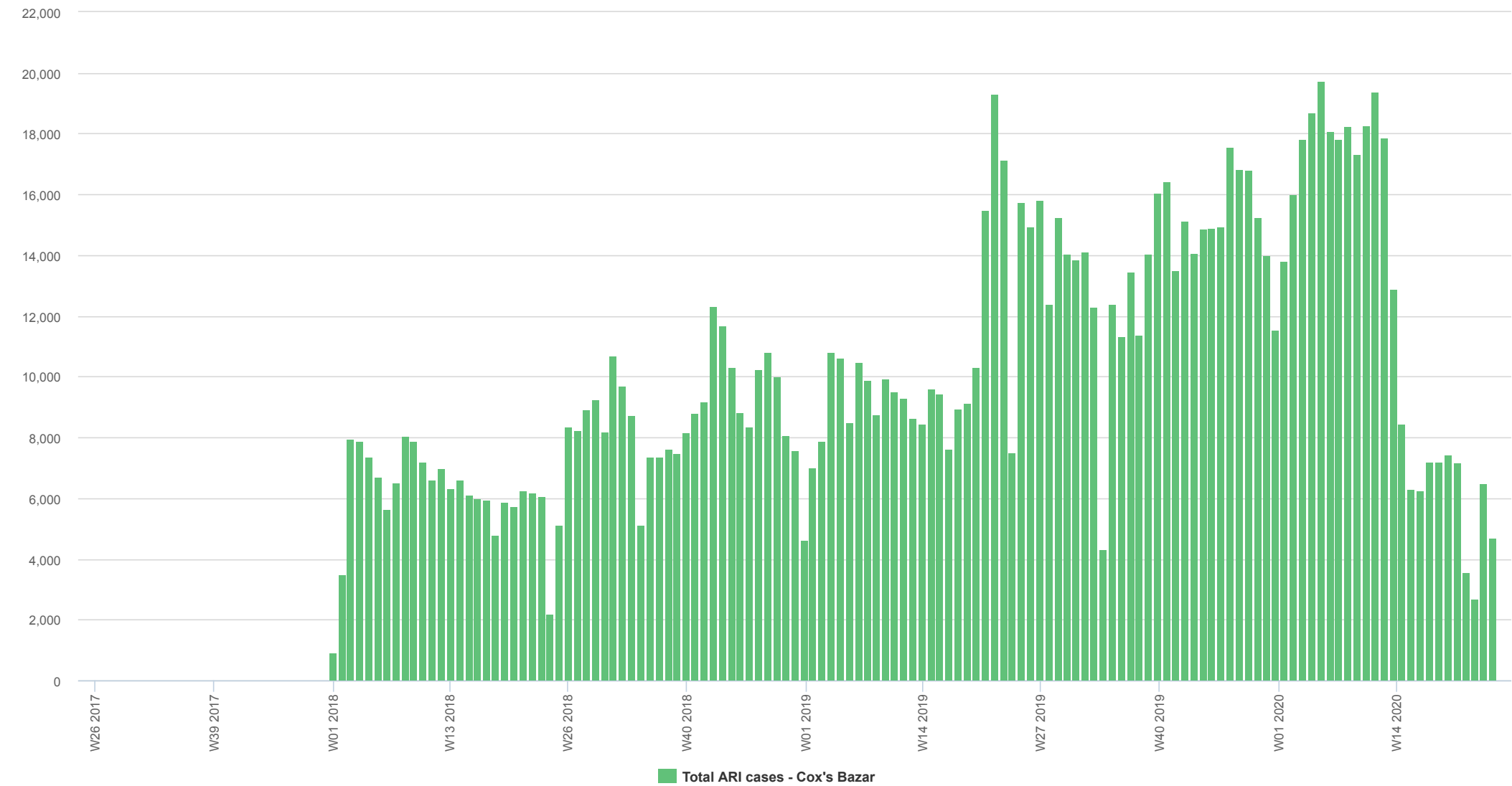
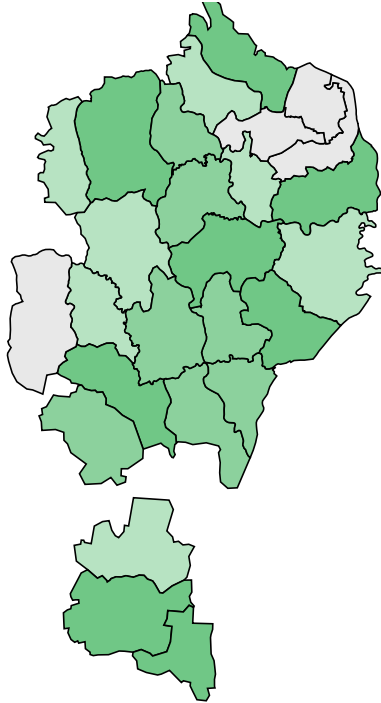


Figure 3 | Trend in number of cases over time (W38 2017 - W24 2020)

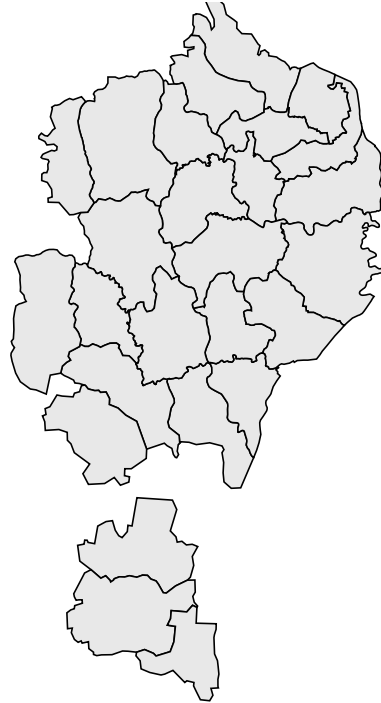


Map 1 | Map of cases by camp (W24 2020)

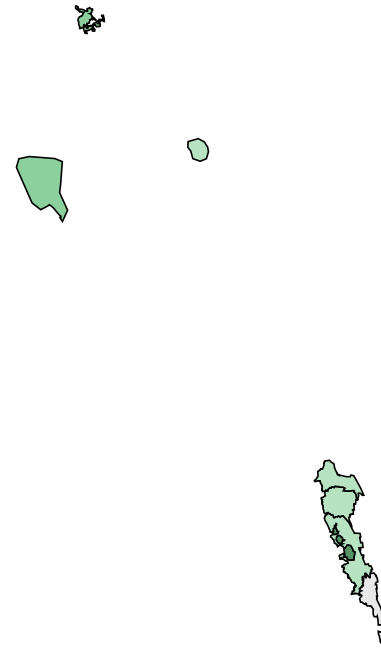
a. Ukhia | Number of cases



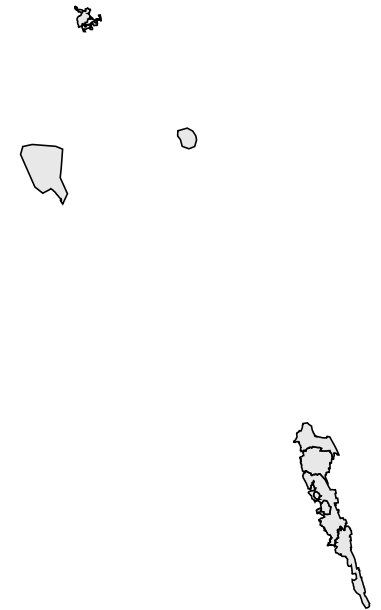
b. Ukhia | Number of alerts



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 (W24 2020)

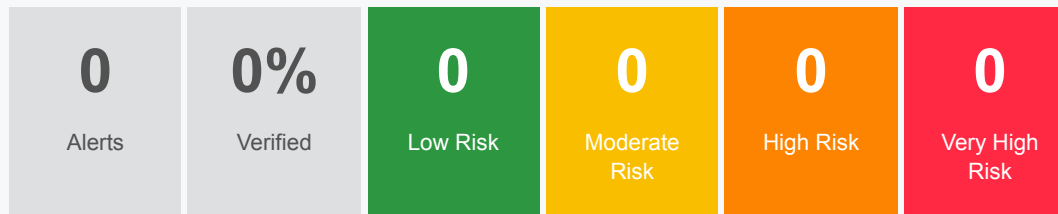


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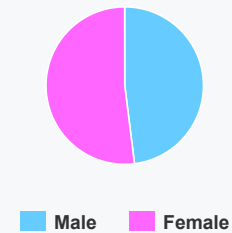


Figure | % age

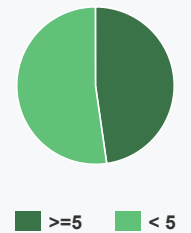
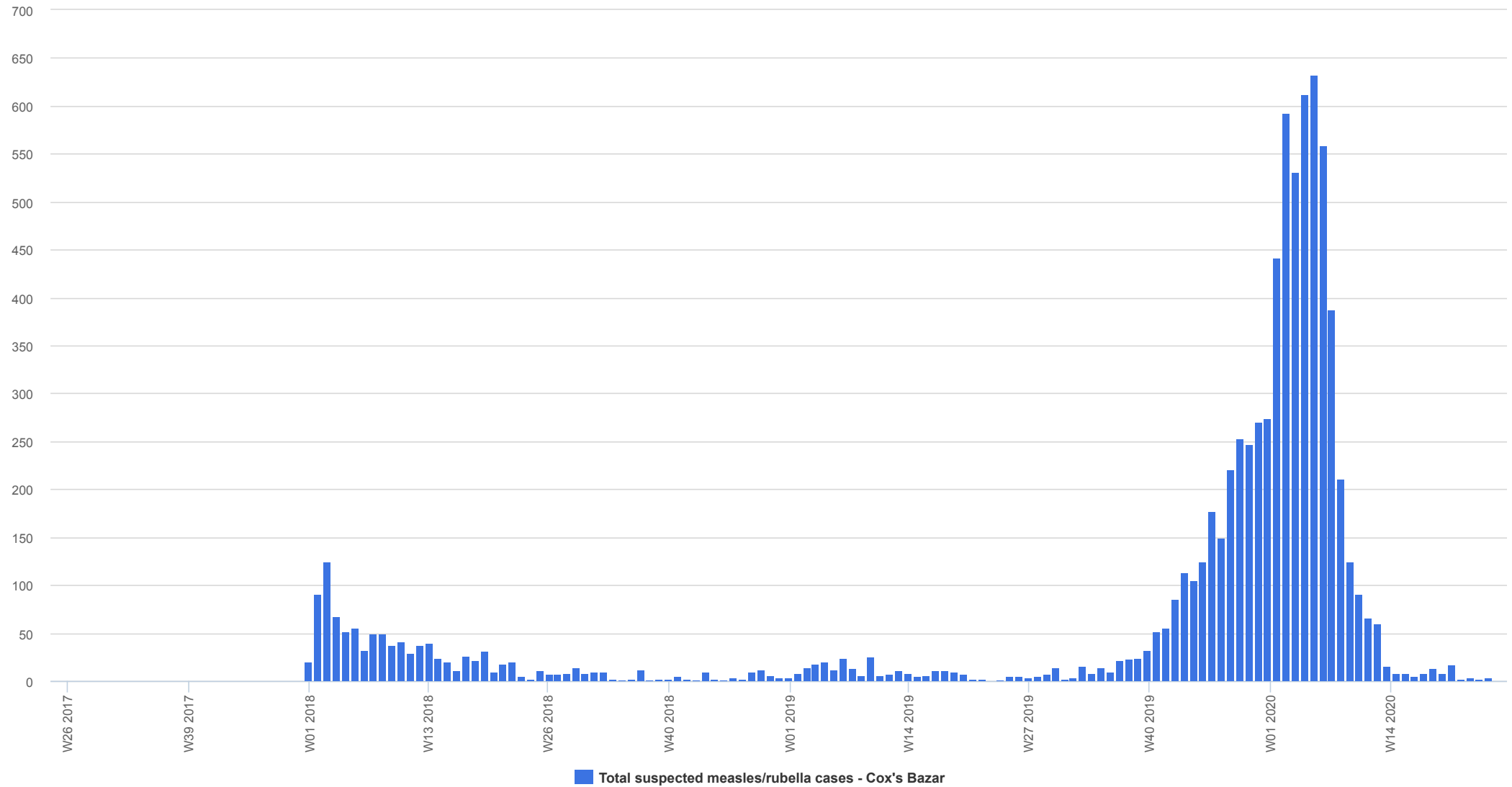
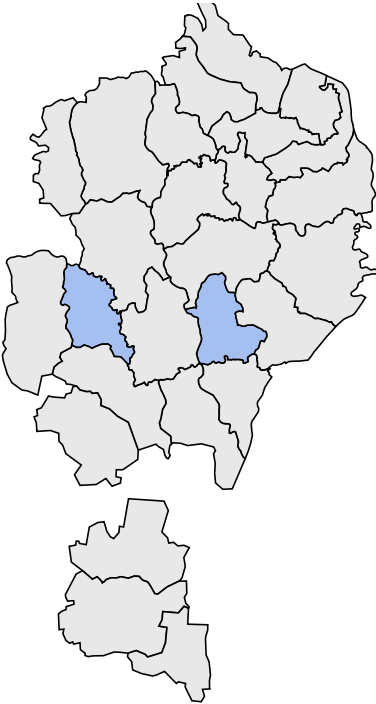


Figure 4 | Trend in number of suspected cases over time (W38 2017 - W24 2020)

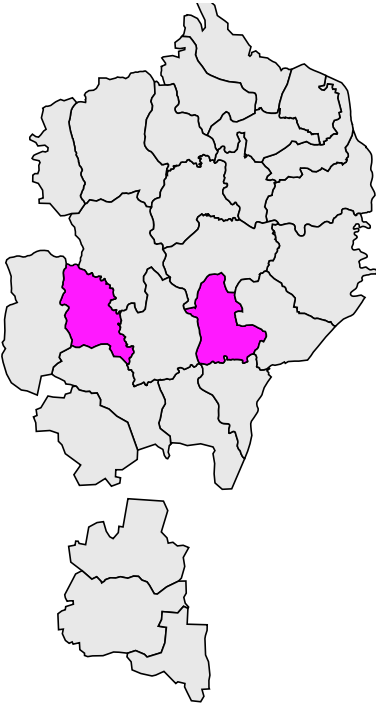


Map 2 | Map of cases by camp (W24 2020)

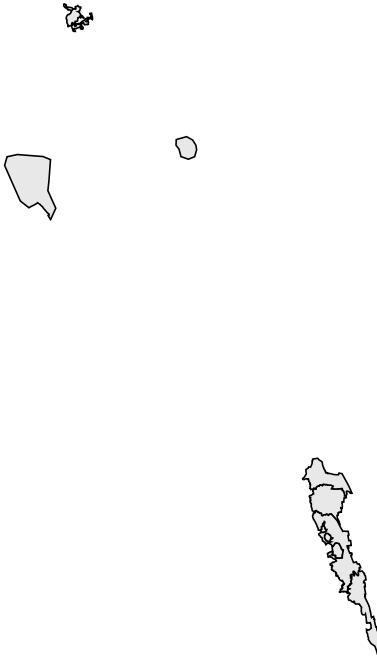
a. Ukhia | Number of cases



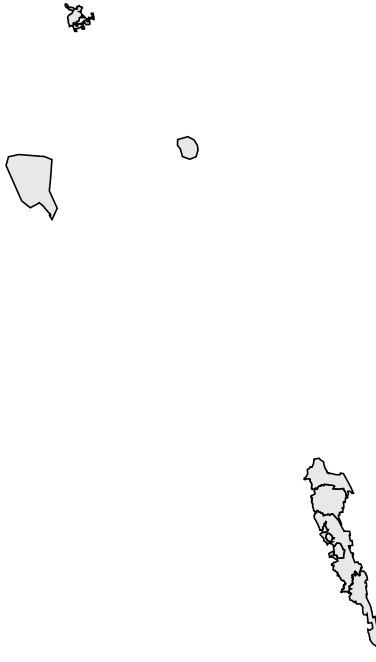
b. Ukhia | Number of alerts



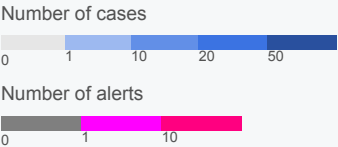
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W24 2020)

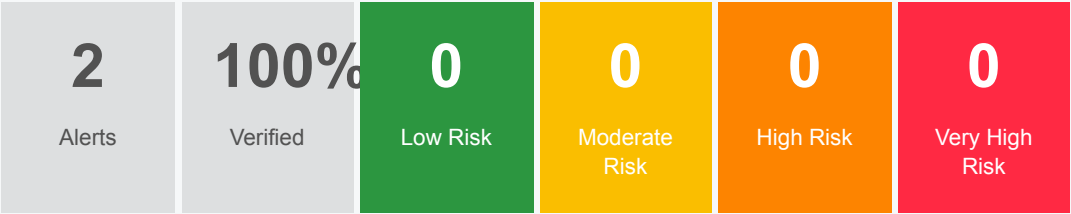


Figure | % sex

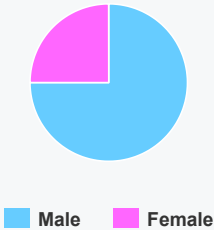
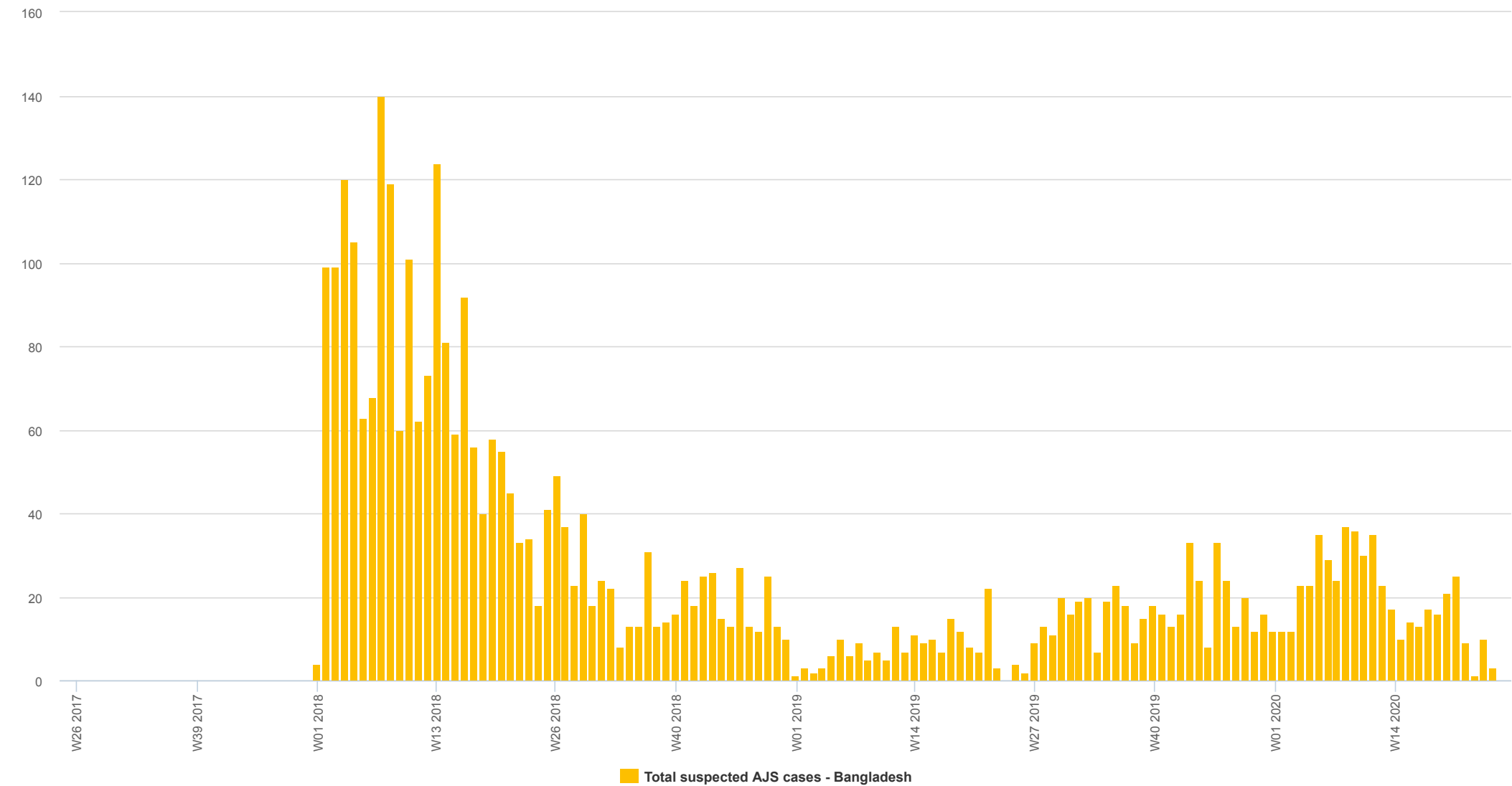


Figure | % age

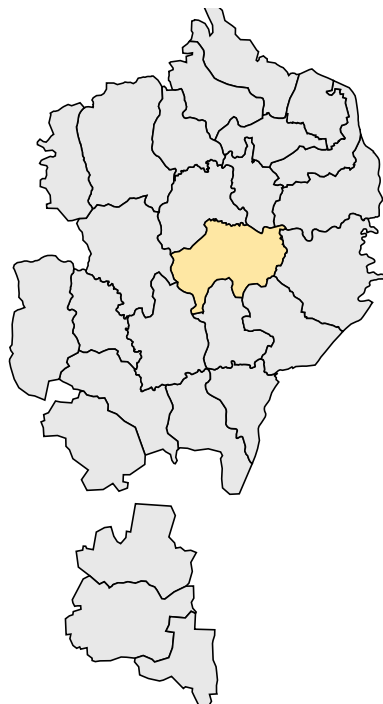


Figure 5 | Trend in number of cases over time (W38 2017 - W24 2020)

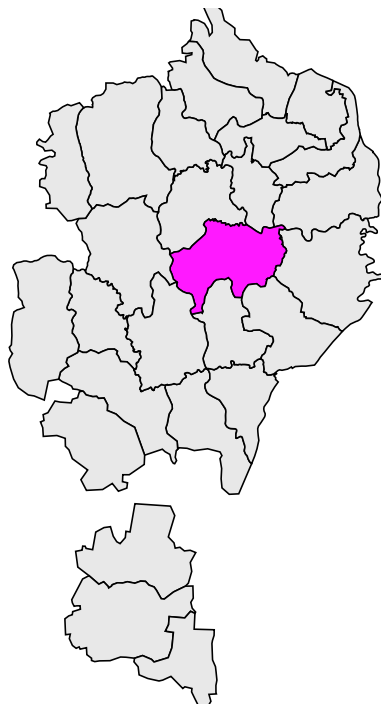


Map 3 | Map of cases by camp (W37 2017 - W24 2020)

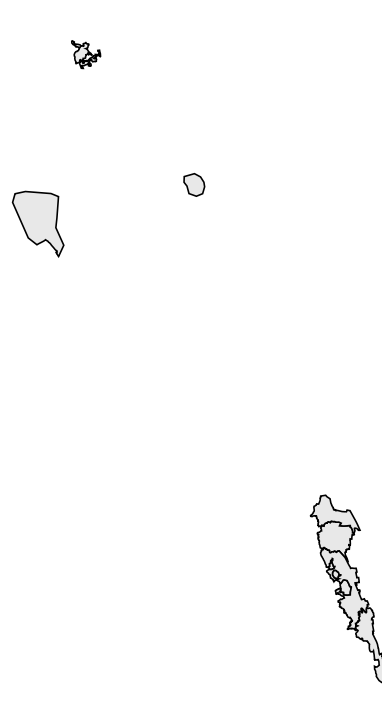
a. Ukhia | Number of cases



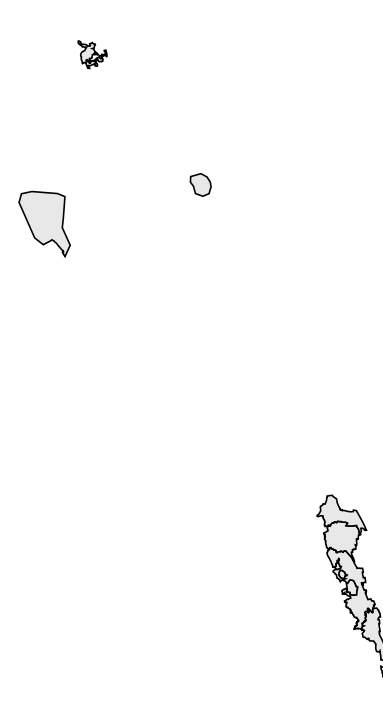
b. Ukhia | Number of alerts



c. Teknaf | Number of cases

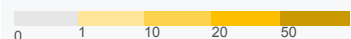


d. Teknaf | Number of alerts



Map legend

Number of cases



Number of alerts



Alert threshold

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

Alert management (W24 2020)

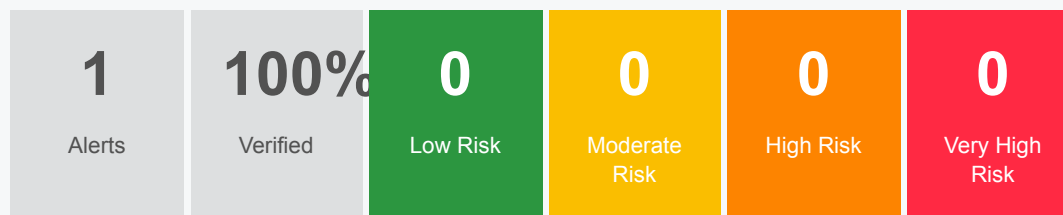
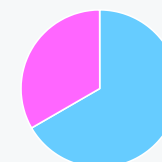
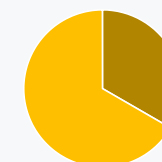


Figure | % sex



Male Female

Figure | % age



>= 5 < 5

Figure 6 | Trend in number of cases over time (W38 2017 - W24 2020)

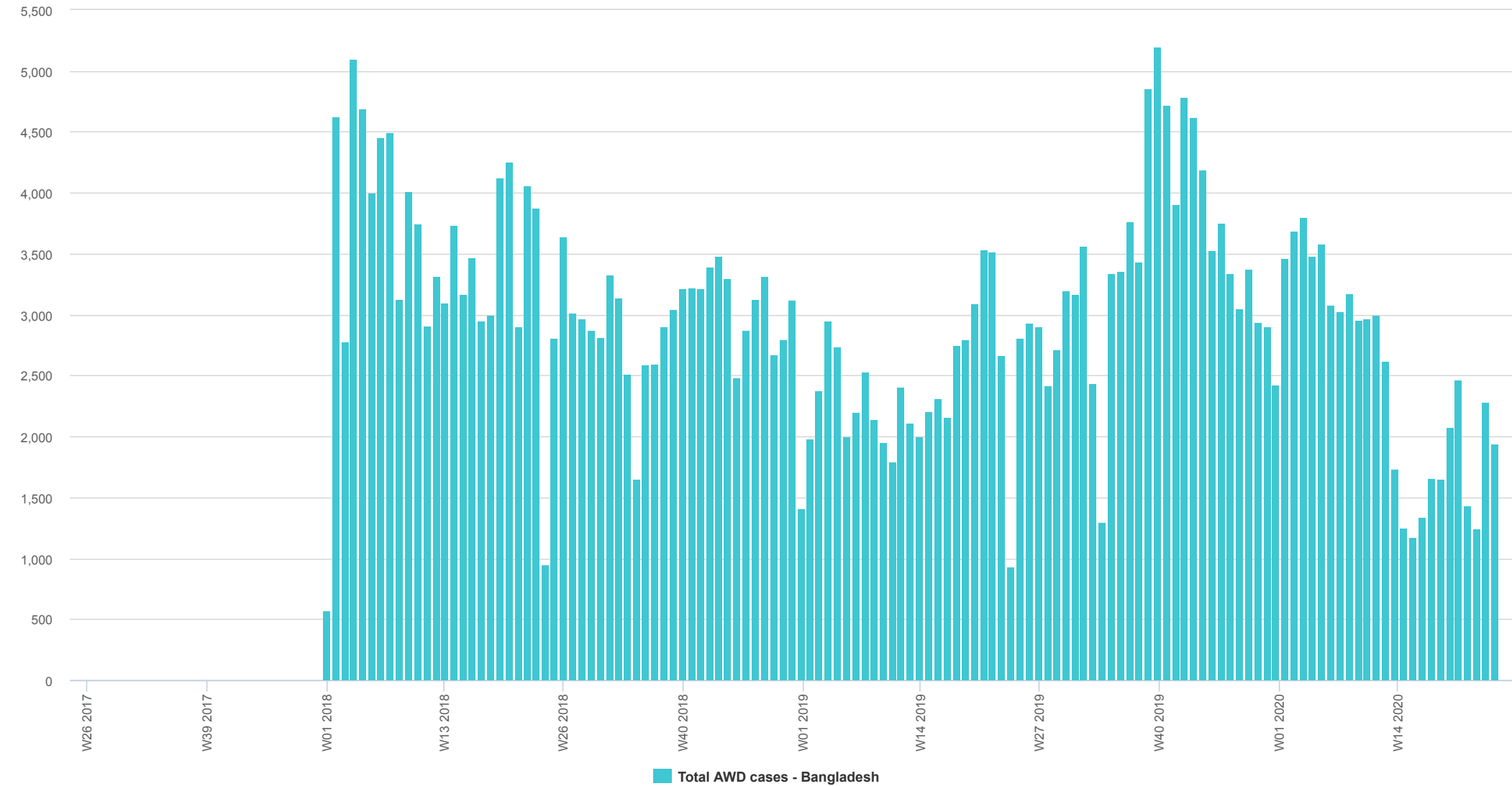
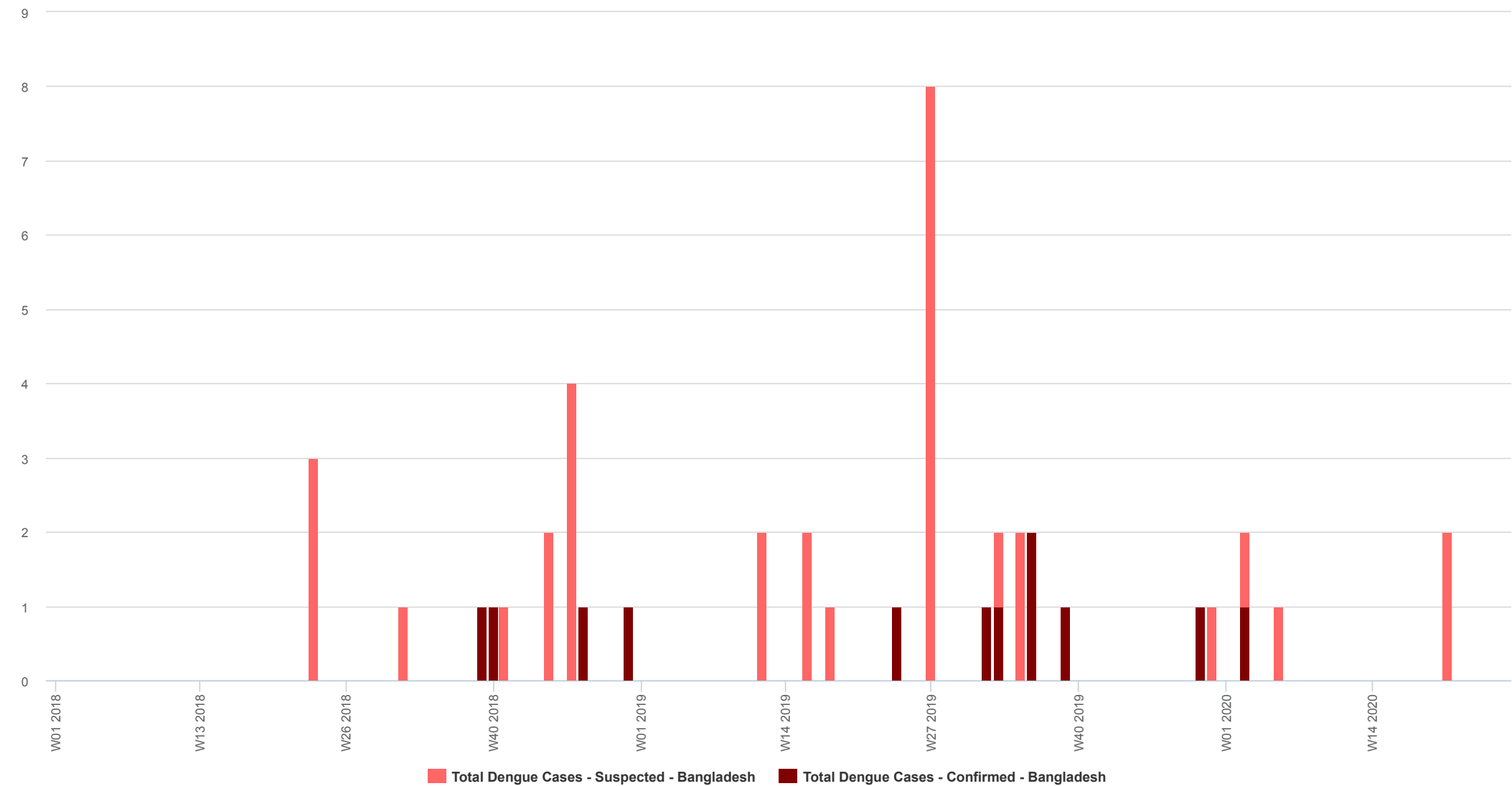


Figure 7 | Trend in number of cases over time (W38 2017 - W24 2020)



Map 4 | Map of cases by camp (W37 2017 - W24 2020)

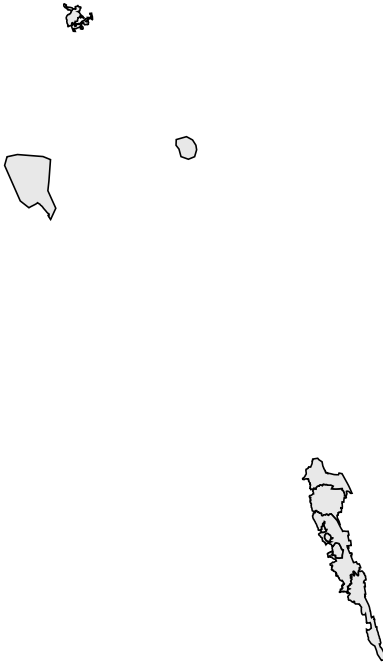
a. Ukhia | Number of cases



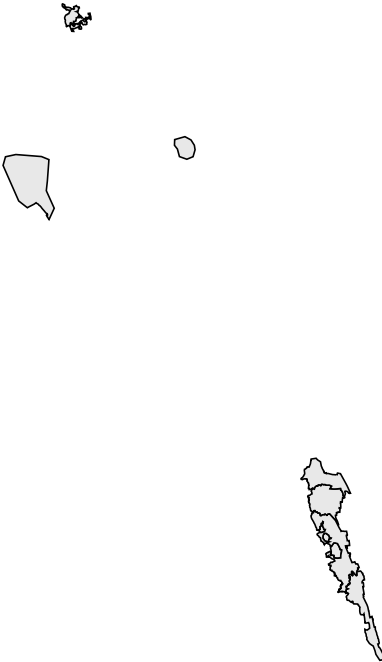
b. Ukhia | Number of alerts



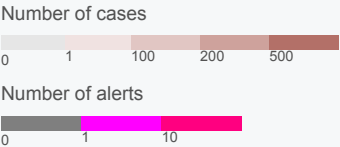
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W24 2020)

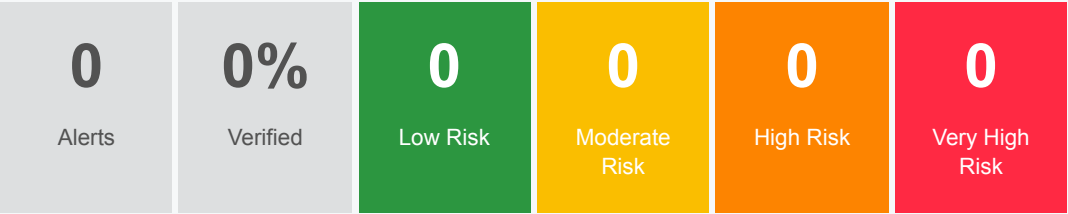


Figure | % sex



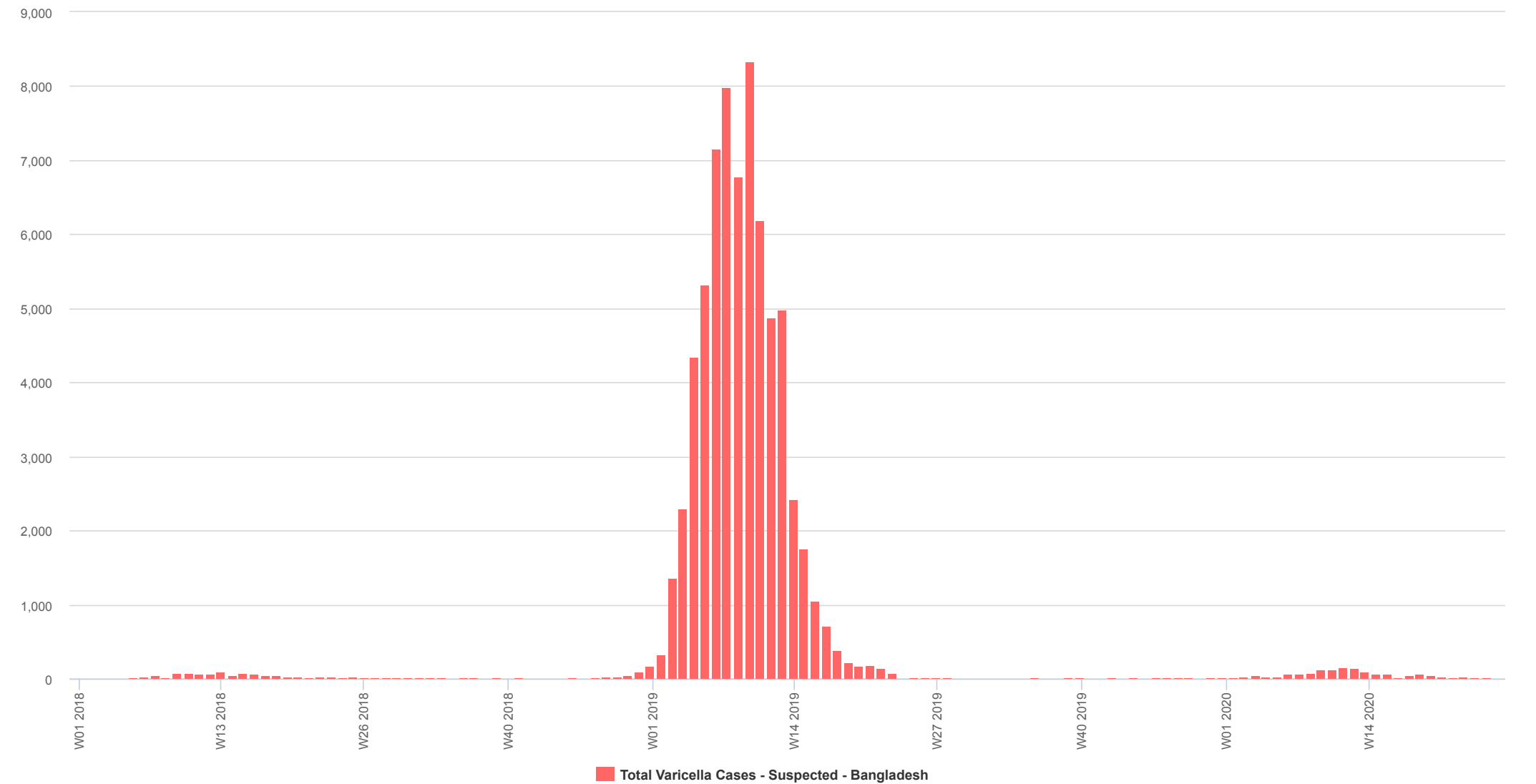
Male Female

Figure | % age



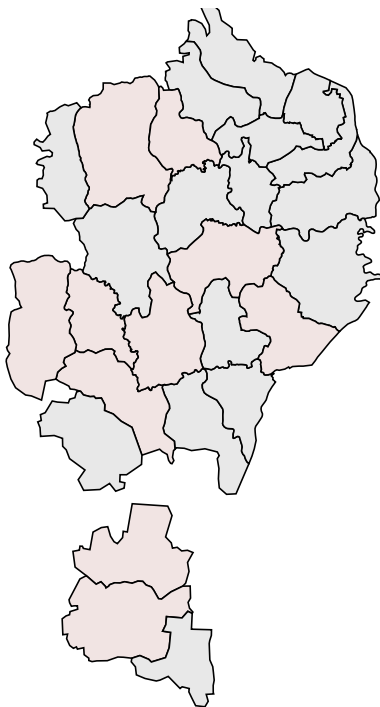
>= 5 < 5

Figure 7 | Trend in number of cases over time (W38 2017 - W24 2020)

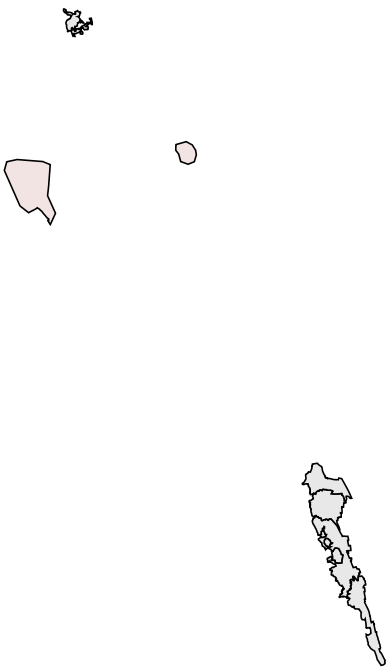


Map 4 | Map of cases by camp (W37 2017 - W24 2020)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

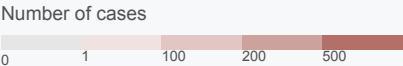


Figure | % sex

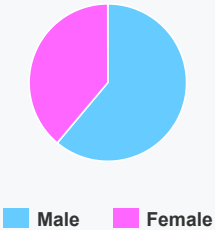
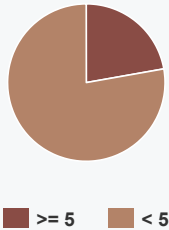


Figure | % age



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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>

Sign up for an account with EWARS Bangladesh at <http://bd.ewars.ws>



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