



Epidemiological Highlights

Week 40 (28 Sep-04 Oct 2020)



**World Health
Organization**

Highlights:

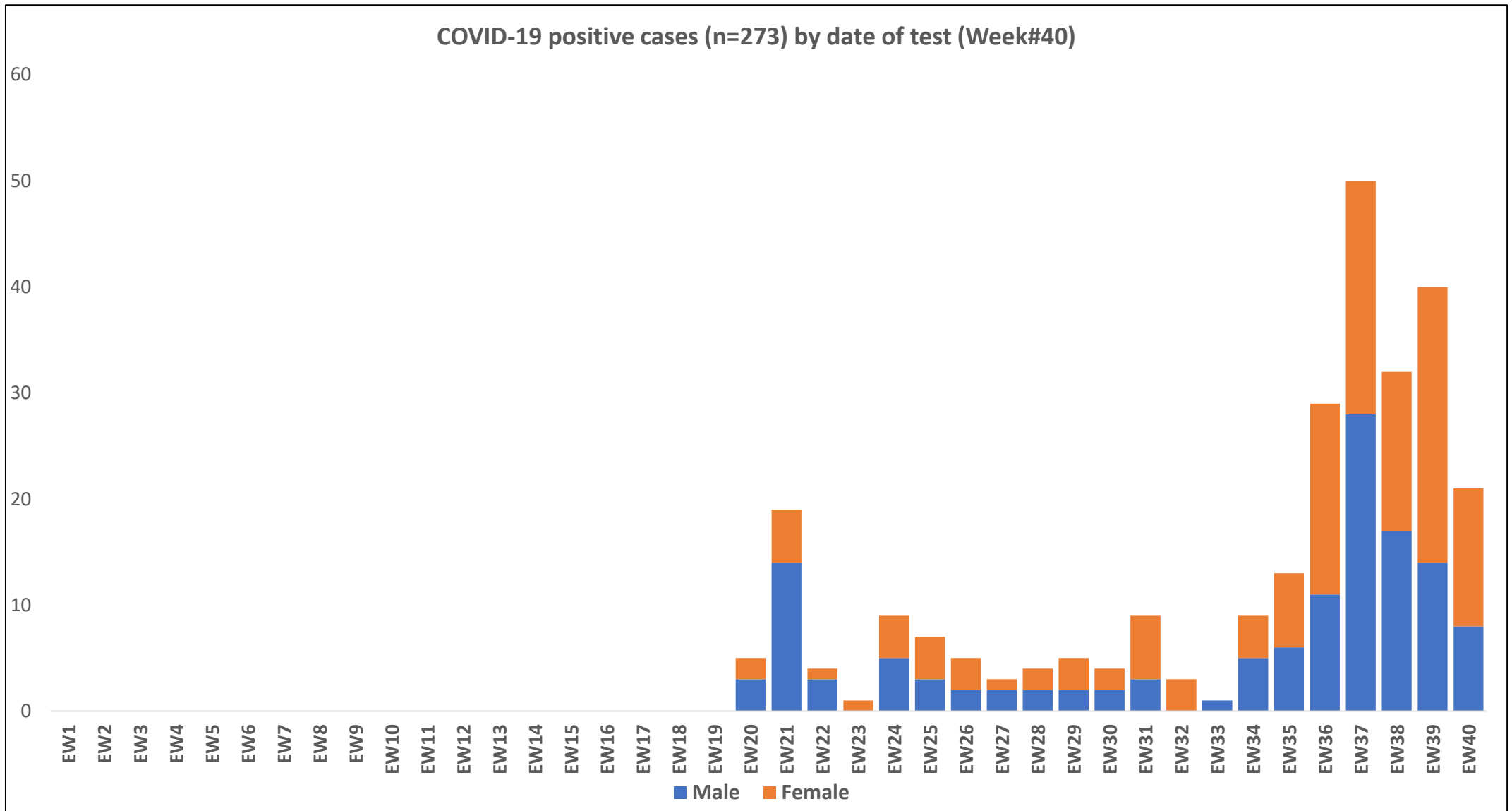
COVID-19 update among Host Population and FDMN/Rohingya Refugee* in Cox's Bazar

Number of test conducted (in last 24 hours)	44,041 (243)	FDMN/Rohingya Refugee	Host Population
Number of confirmed case (in last 24 hours)	4,812 (8)		
Total number of tests conducted (in last 24 hours)		11,482 (84)	32,559^ (159)
Total number of confirmed cases (in last 24 hours)		273 (1)	4,539 (7)
Total number of deaths (in last 24 hours)		8 (0)	68 (0)
Total number of cases in isolation (in last 24 hours)^		146 (1)	329 (7)
Total number of cases recovered (in last 24 hours)		119 (4)	4,142 (17)

*The Government of Bangladesh refers to Rohingya as "Forcibly Displaced Myanmar Nationals". The UN system refers to this population as Rohingya refugees, in line with the applicable international framework. In this document both terms are used, as appropriate, to refer to the same population.

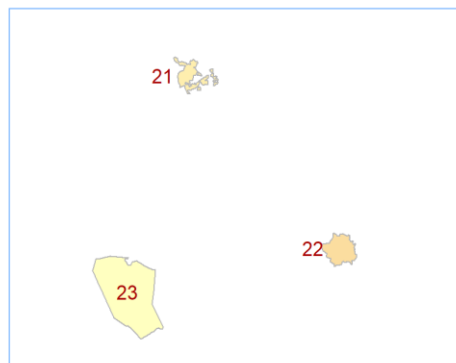
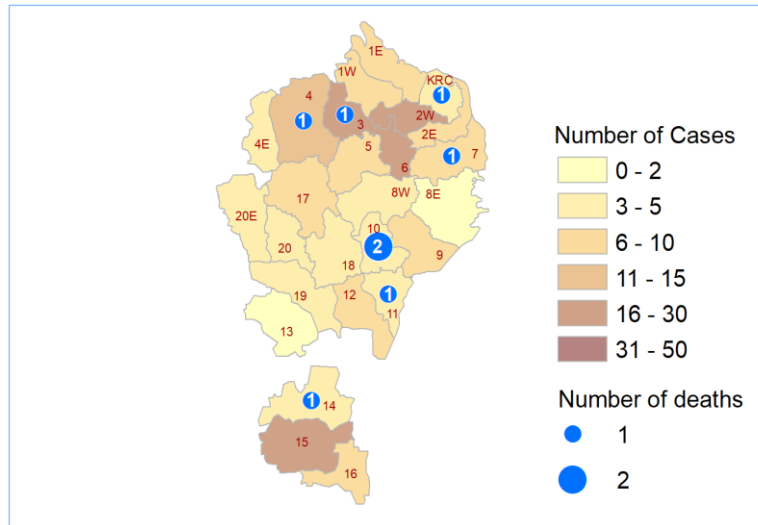
Highlights:

COVID-19 positive cases (n=273) by date of test (Week#40)



Highlights:

COVID-19 Cases in Rohingya Camps (As of 04 October 2020)

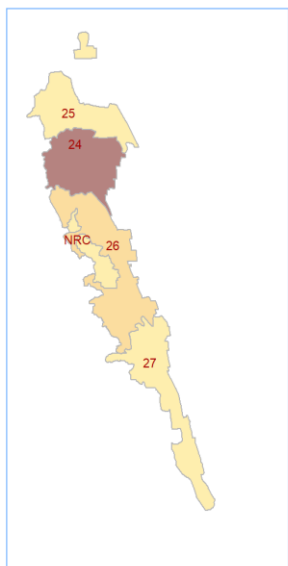


273 Confirmed cases in FDMN/Rohingya Refugee Camps

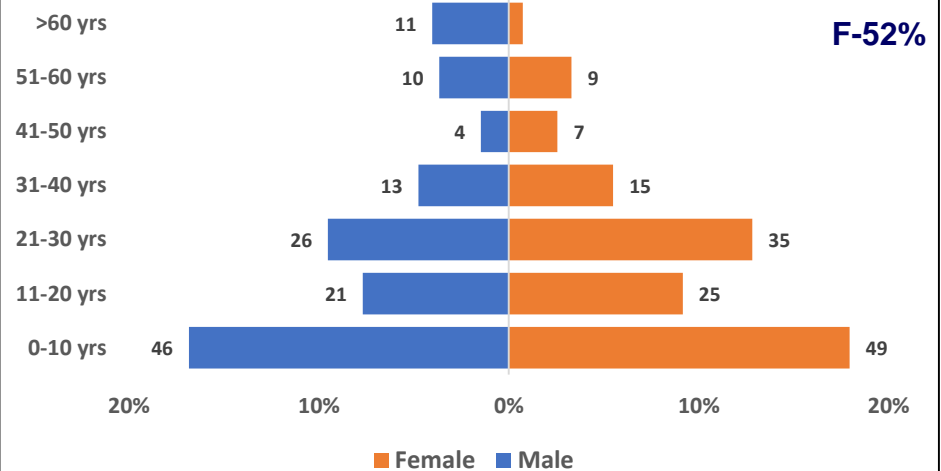
316 Confirmed cases/1 Million

8 Deaths in FDMN/Rohingya Refugee Camps

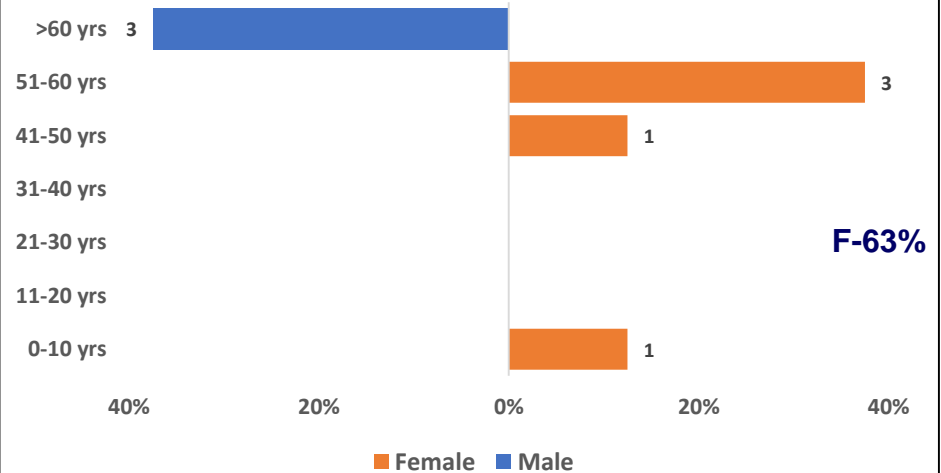
9 Deaths/1,000,000



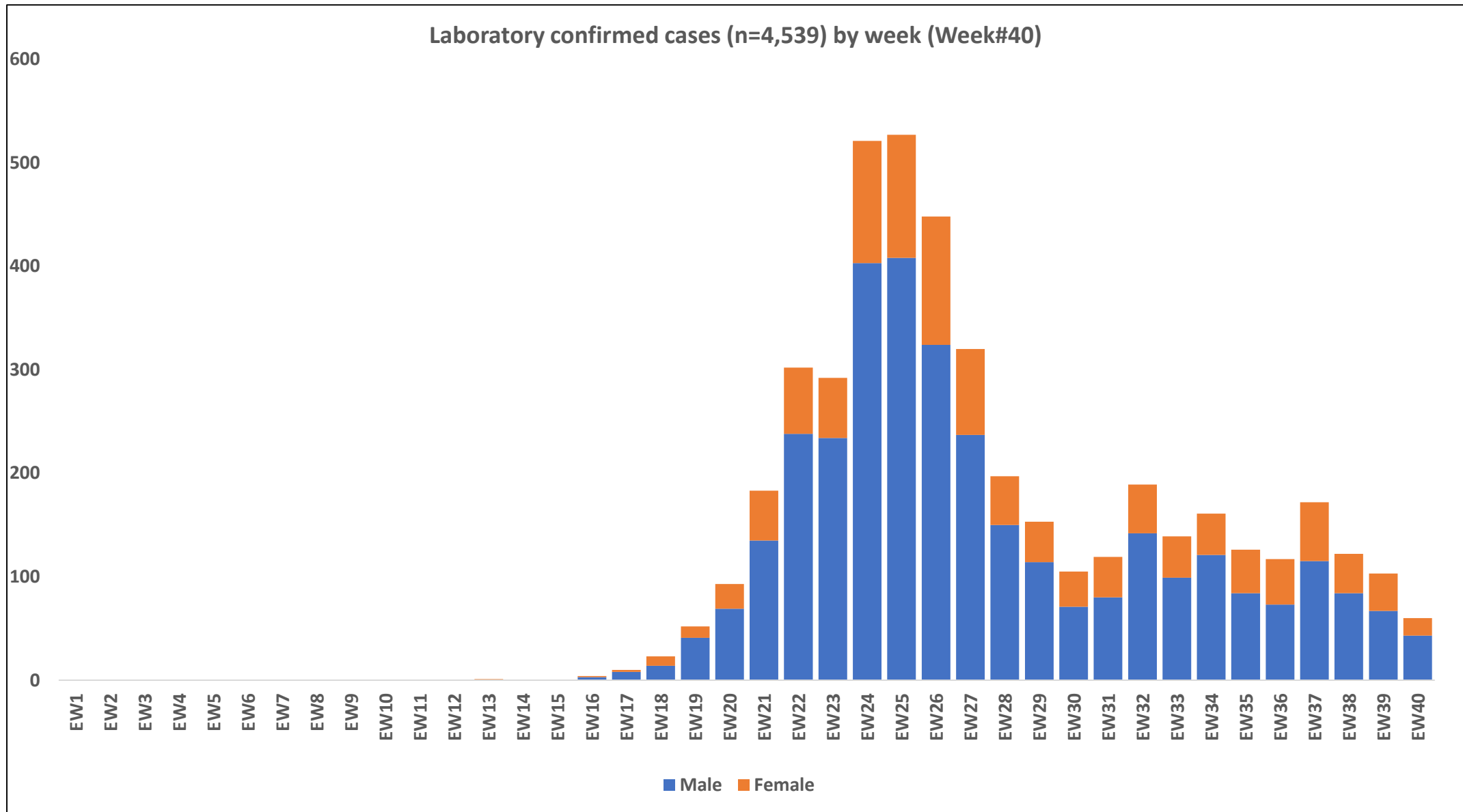
Age and sex distribution (%) (n=273) (f=142, m=131)



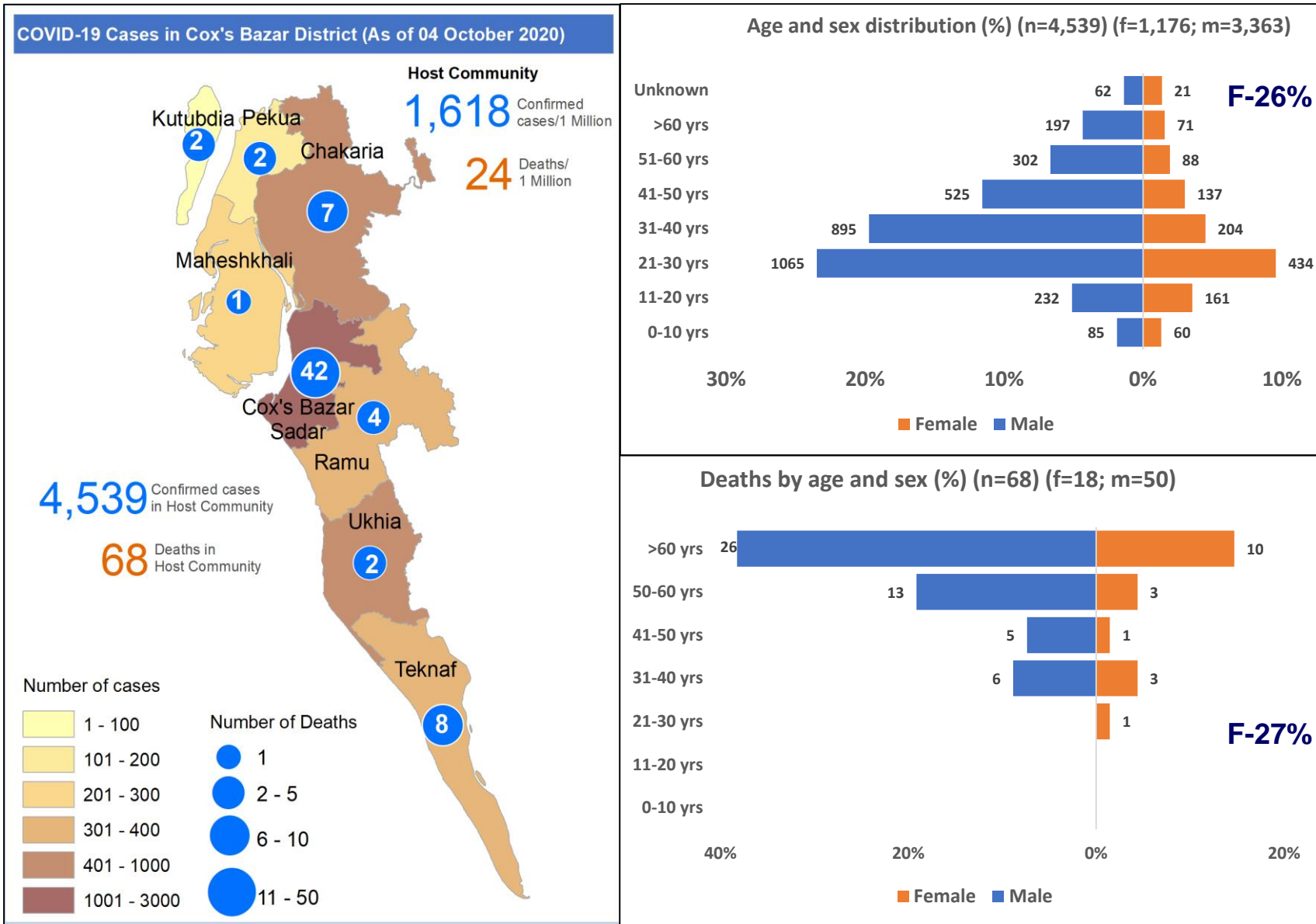
Deaths by age and sex (%) (n=8) (f=5; m=3)



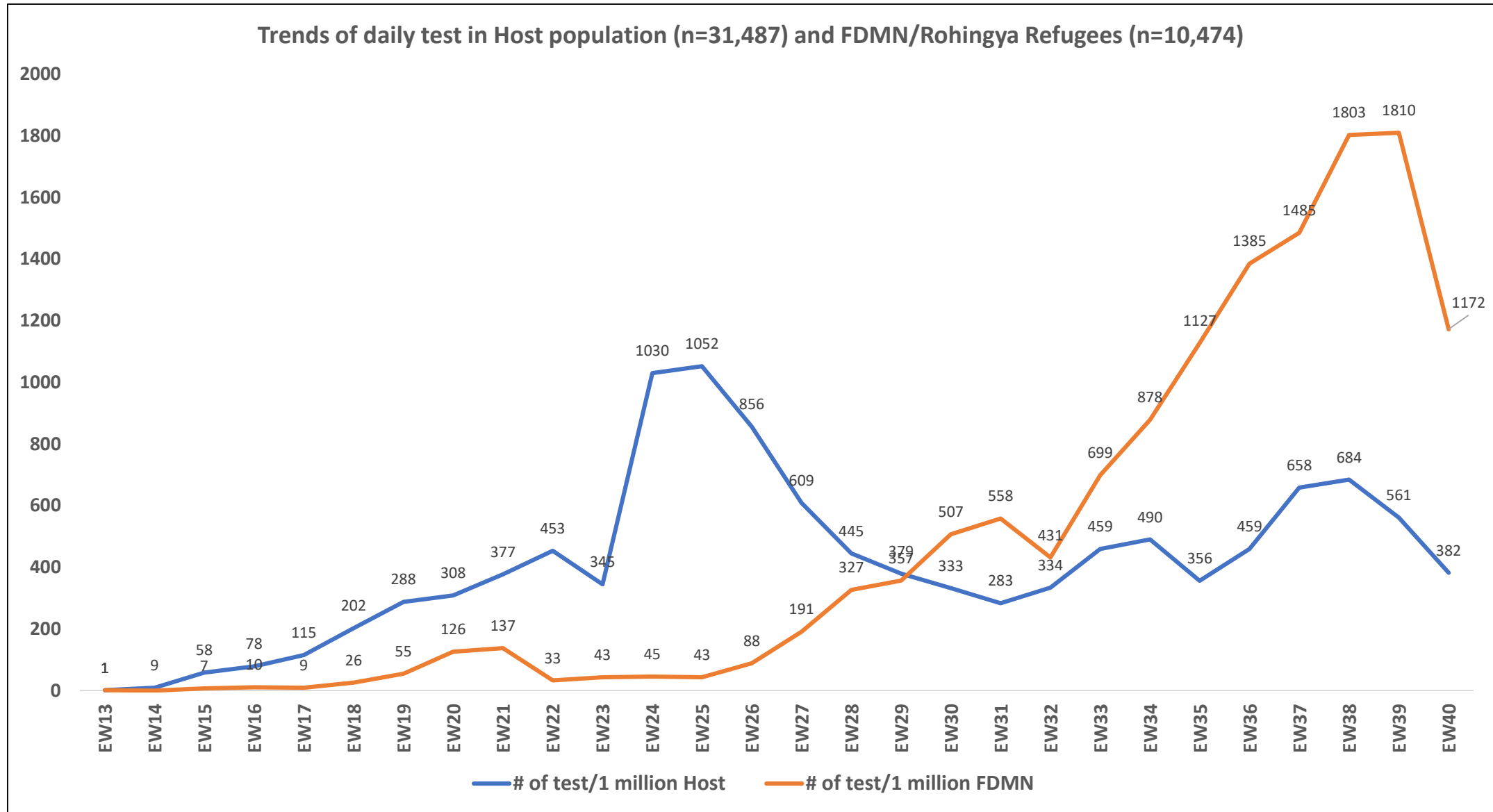
Highlights:



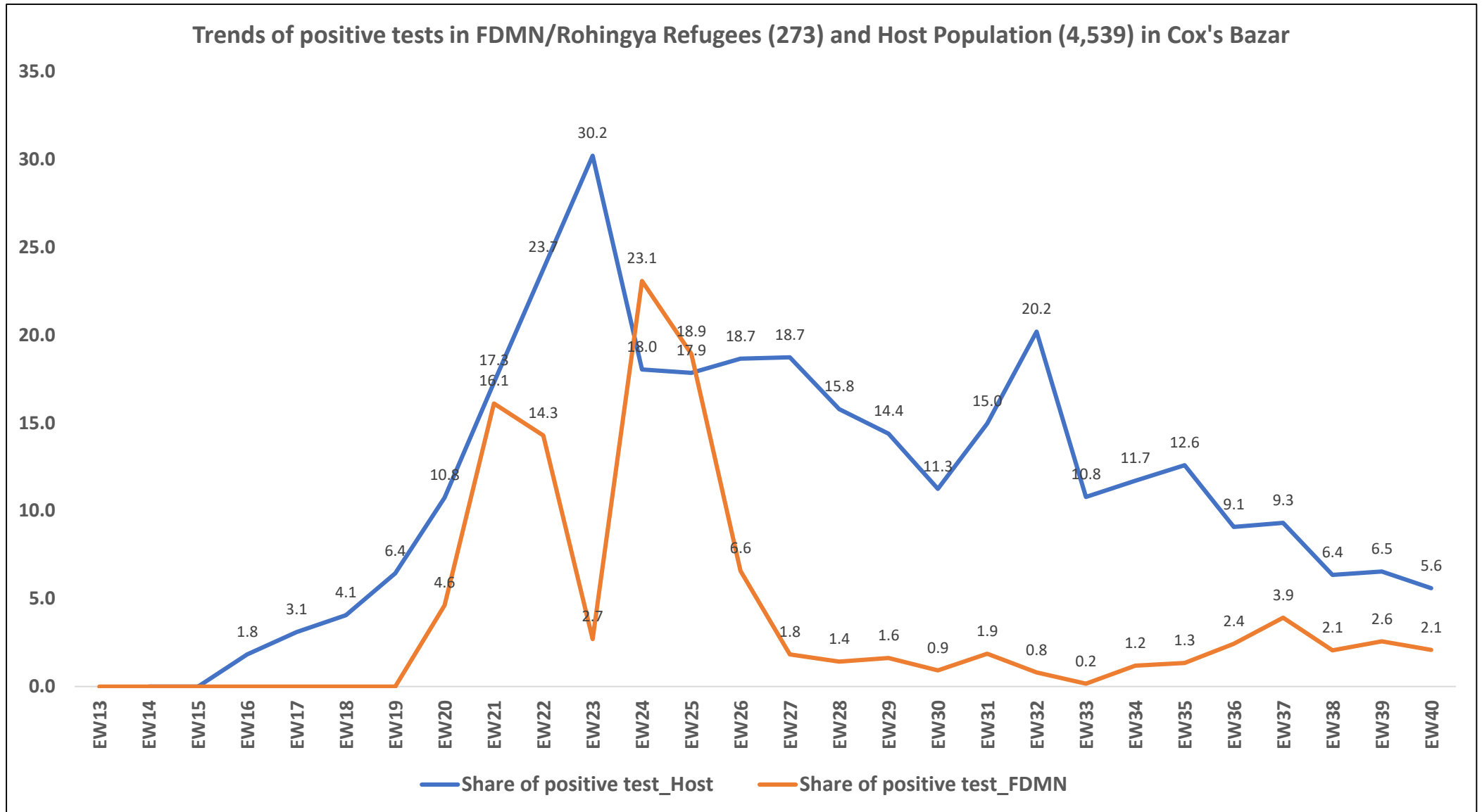
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Highlights:



Highlights:



Highlights:

- Acute Respiratory Infection (17.2%), Diarrheal Diseases (5.8%) & Unexplained Fever (1.7%) are the diseases with highest proportional morbidity in week 40.
- Number of consultations has been shown an increasing trend since last 2 month.
- Community-based mortality surveillance included SARI death in weekly reporting since week 27 and the reporting frequency changed since then from bi-weekly. Nine (09) SARI death has been reported so far.

EWARS Reporting Updates

- Total 145/166 (87%) health facilities registered in EWARS
- Only 135/145 weekly reports received in week 40.
- Completeness and Timeliness for this week is 90%.
- Total 33 alerts were triggered in week 40.
- All alerts were reviewed and verified by WHO EWARS team which is less than as of previous week (51 in week 39).

Diphtheria

Two suspected diphtheria case reported in go.data in week 40

A total of 9 162 case-patients were reported since 2017 to till date

- Confirmed = 329
- Probable = 2785
- Suspected = 6048

Total Case reported in 2020 = 199

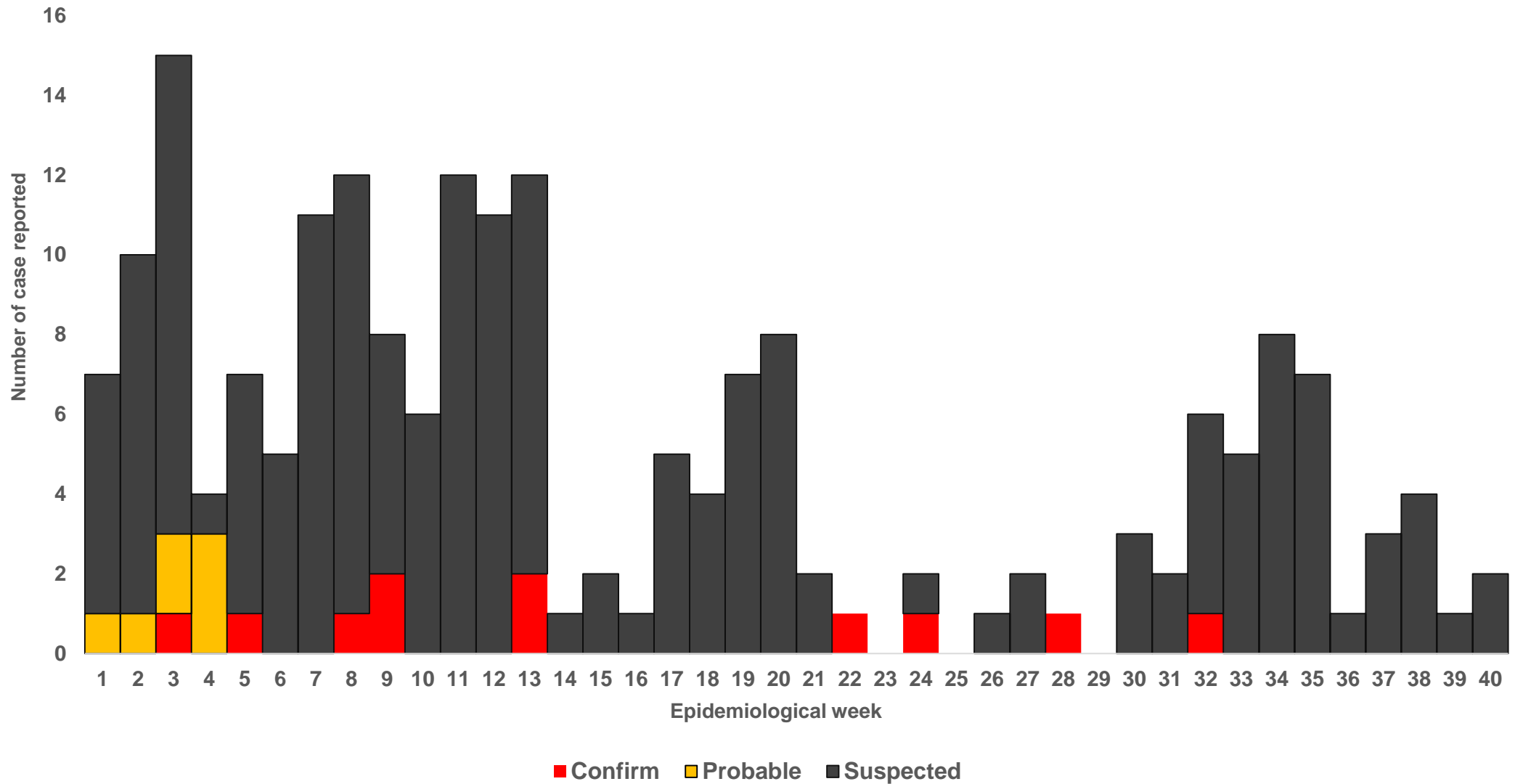
- Confirmed = 11
- Probable = 7
- Suspected = 181

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

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

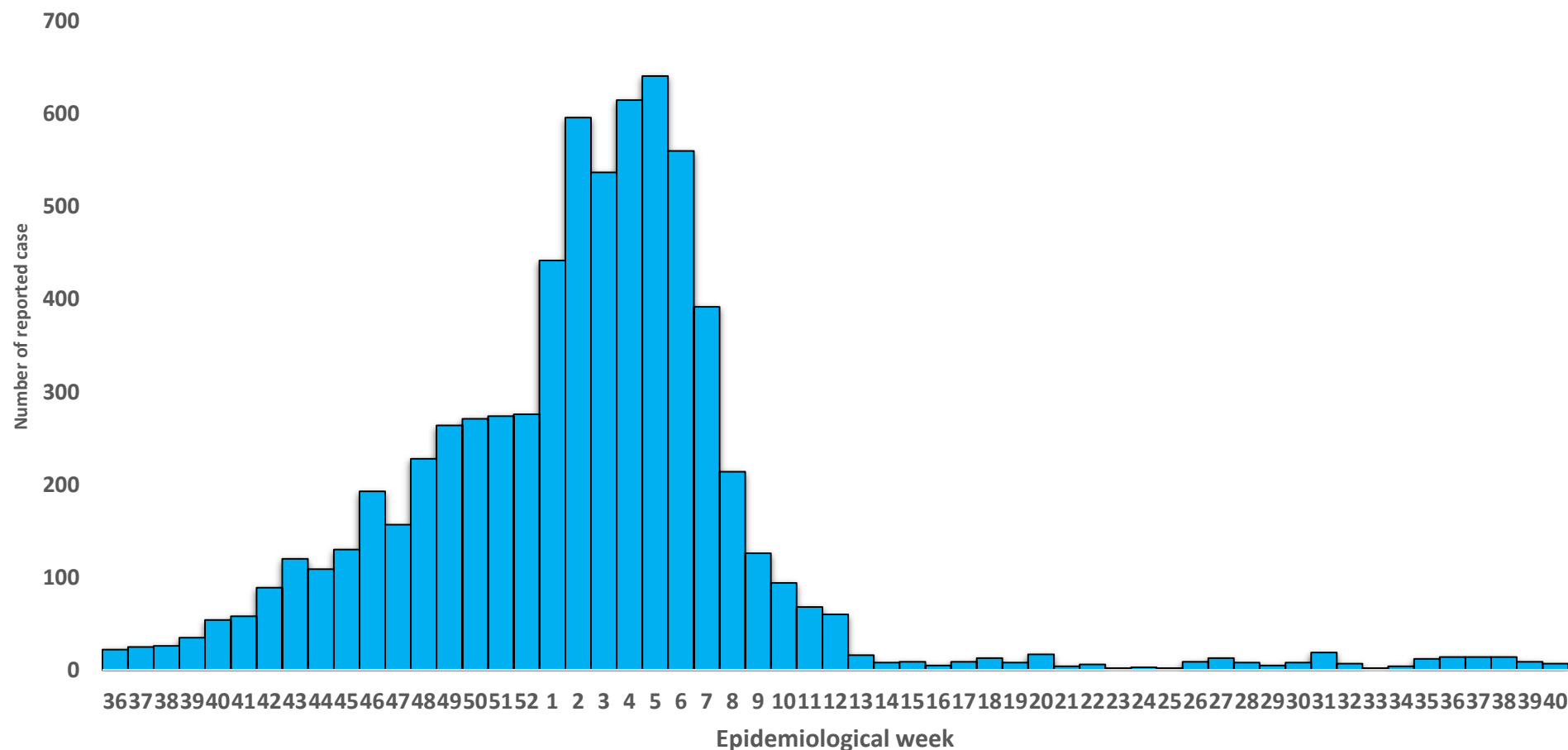
Diphtheria

Total number of diphtheria case reported in EWARS from week 1-40, 2020



Measles

Total number of Measles case reported in EWARS from week 36, 2019 to week 40, 2020



Total 07 suspected measles cases were reported through aggregated weekly reporting in EWARS in week 40. Aggregated weekly report showed 4,528 and individual case report (CRF) found 2,514 (56%) in 2020.

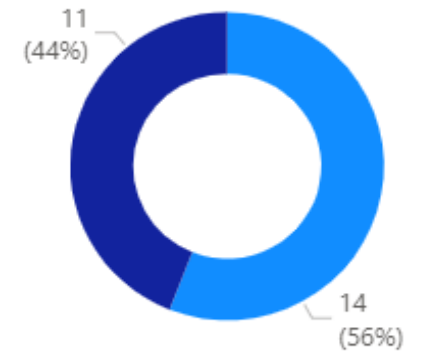
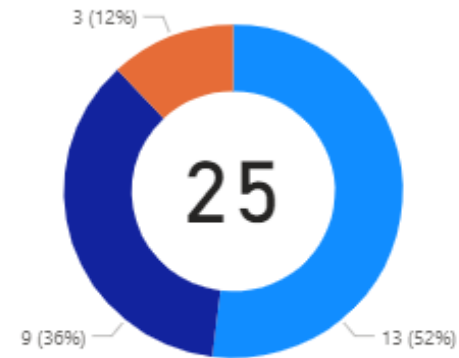
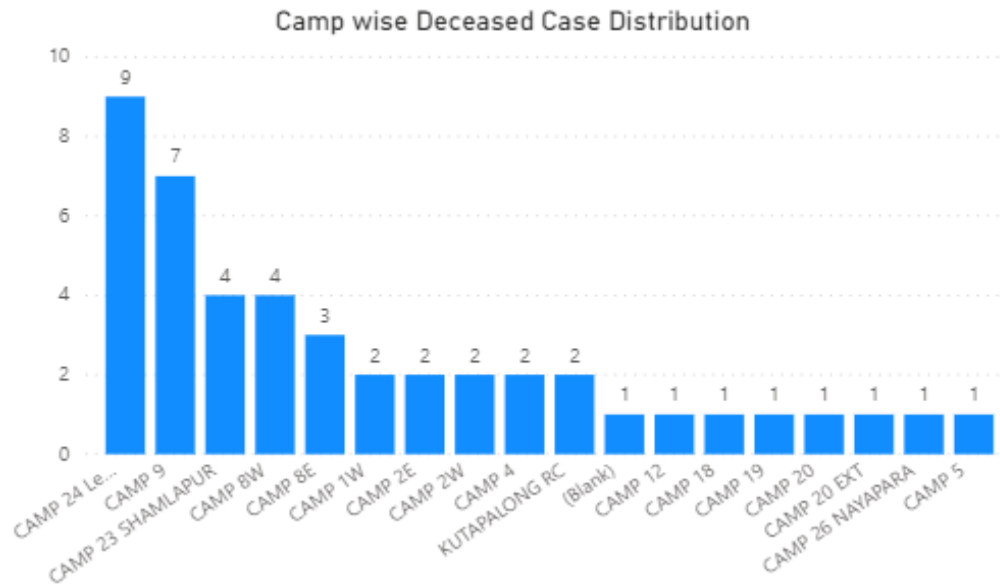
Diarrhoeal Disease

- A total of 4 215 cases of diarrhoeal diseases reported in EWARS in week 40.
- Among which 2858 cases (3.6%) reported as acute watery diarrhoea (AWD), 1014 (1.4%) and 343 (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).

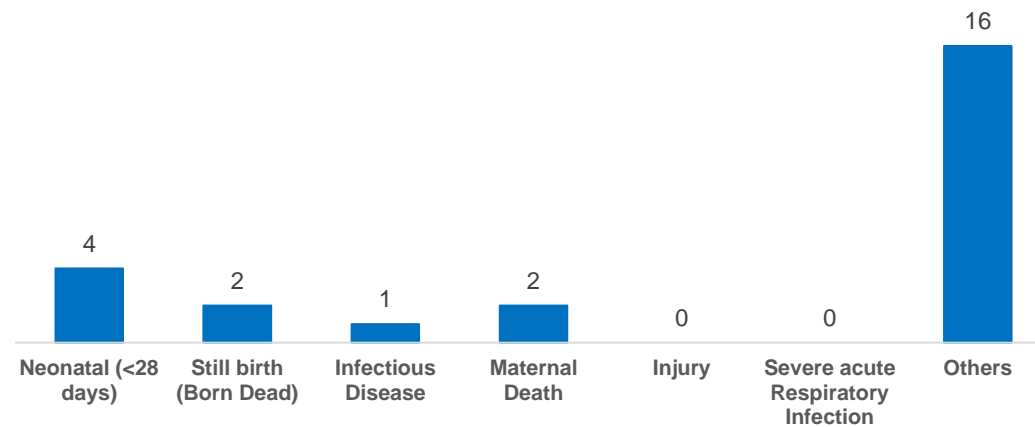
Community-based Mortality surveillance

- In week 40, total of 25 deaths were recorded, 64% (n=16) were due to causes classified as “Others”, 16% (n=4) as Neonatal (<28 days old), 8% (n=2) as Still birth (Born Dead), and 4% (n=1) as Infectious Disease.
- There was 2 mortality alert raised for women of reproductive age (12-49 years).
- 36% of deaths reported in the health facility 52% of deaths reported in homes and 12% deaths reported from Community/ Public place.
- Partners to report **all mortalities** into EWARS using the “Community-based mortality surveillance” form.

Community-based Mortality Surveillance, Week#40



Probable Cause of Death (n=25)



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W40 2020



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 W40 2020

Table 1 | Coverage

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

Table 2 | Early warning performance indicators

W40	Cumulative (2020)	
135	5529	Number of weekly reports received
90%	88%	Completeness
90%	80%	Timeliness

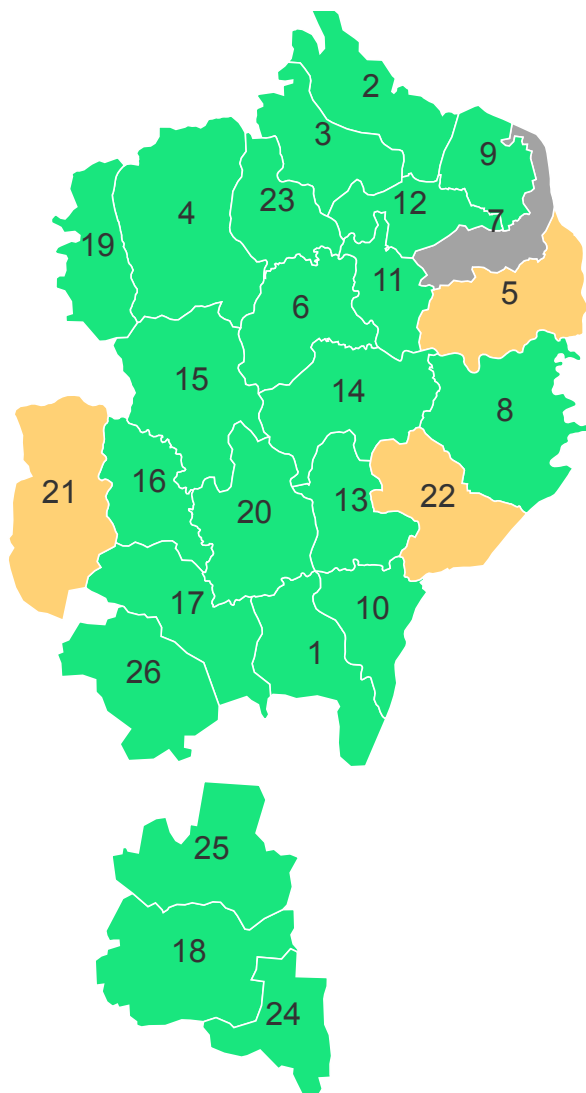
Table 3 Alert performance indicators

W40	Cumulative (2020)	
33	2,486	Total alerts raised
100%	100%	% verified
0%	0%	% auto-discarded
0%	0%	% undergoing risk assessment
0%	0%	% completed risk assessment

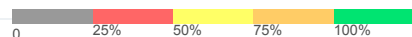
¹ Source: UNHCR. Bangladesh: Joint Government of Bangladesh- UNHCR Population Factsheet. 31 December 2019.

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

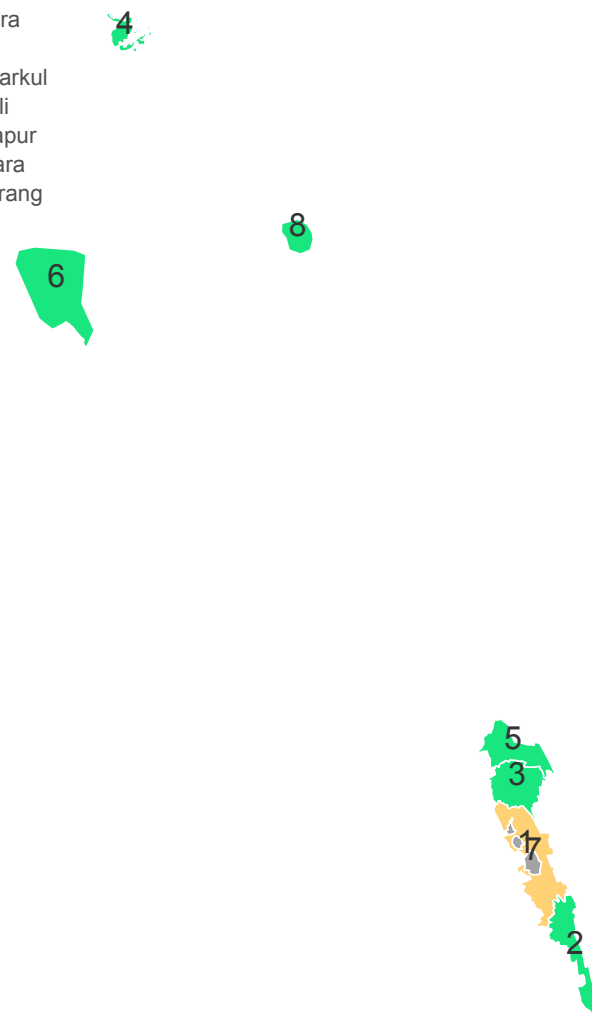


Completeness



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 (W40 2020)

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

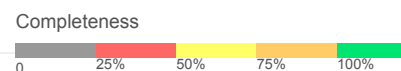
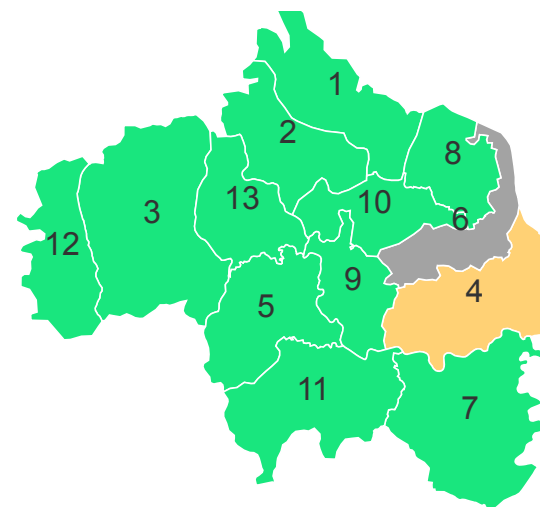


Table 5 | Performance by camp (W40 2020)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 10	4	4	100%	100%
Camp 11	9	9	100%	100%
Camp 12	6	6	100%	100%
Camp 13	9	9	100%	100%
Camp 14	6	6	100%	100%
Camp 15	10	9	100%	100%
Camp 16	5	4	80%	80%
Camp 17	5	6	120%	120%
Camp 18	5	4	80%	80%
Camp 19	5	4	80%	80%
Camp 20	3	3	100%	100%
Camp 20 Ext	2	1	50%	50%
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

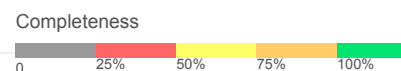
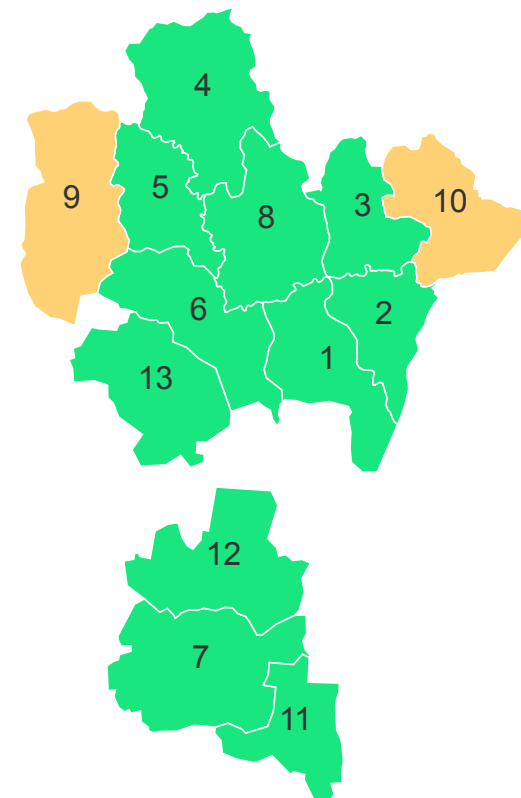
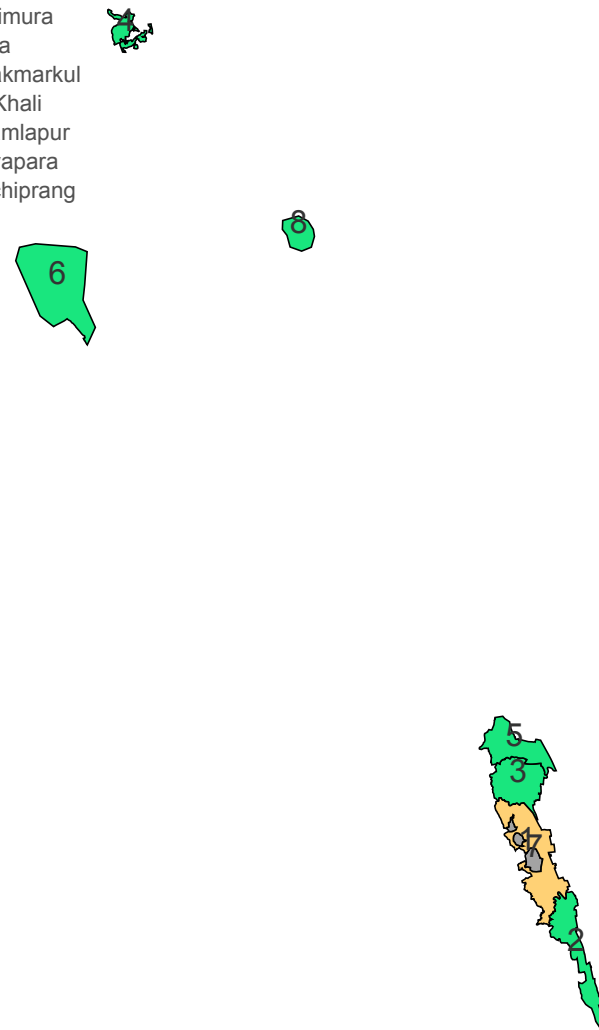


Table 6 | Performance by camp (W40 2020)

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

Map 4 | Completeness by camp

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



Completeness



Table 7 | Performance by partner (W40 2020)

Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
BDRCS	9	8	89%	89%
BRAC	11	11	100%	100%
CARE	4	4	100%	100%
FHM	0	0		
FRNDS	12	10	83%	83%
GK	9	10	111%	111%
HMBDF	1	1	100%	100%
IOM	21	17	81%	81%
IRC	2	2	100%	100%
MSF	9	6	67%	67%
MoH	1	0	0%	0%
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	10	111%	111%
SCI	9	9	100%	100%
TdH	1	0	0%	0%

Table 8 | Performance by camp

Northern group	W40		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 1E	0	0%	59	100%
Camp 1W	1	100%	46	100%
Camp 2E	0	0%	57	100%
Camp 2W	2	100%	55	100%
Camp 3	1	100%	186	100%
Camp 4	3	100%	150	100%
Camp 4 Ext	0	0%	23	100%
Camp 5	0	0%	131	100%
Camp 6	0	0%	27	100%
Camp 7	0	0%	52	100%
Camp 8E	2	100%	34	100%
Camp 8W	5	100%	117	100%
Kutupalong RC	1	100%	17	100%

Map 5 | Number of alerts by camp

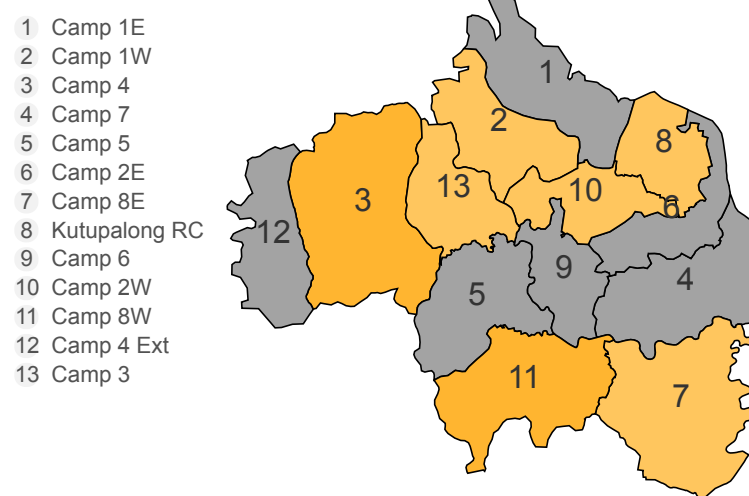
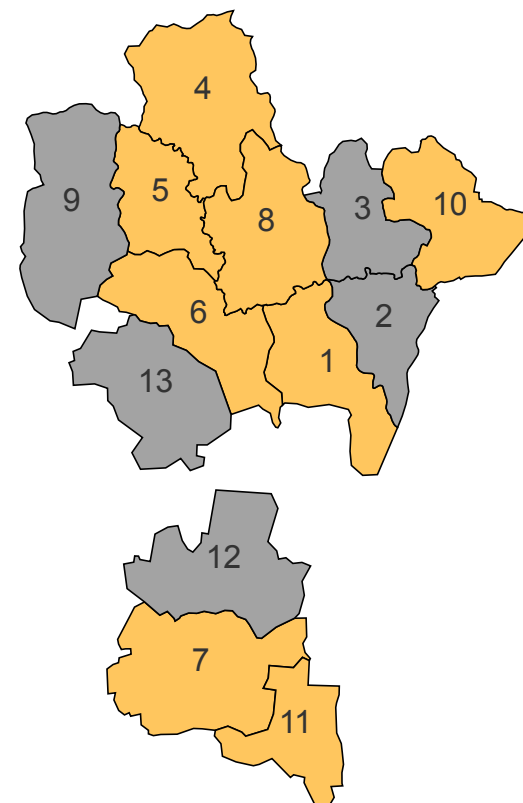


Table 9 | Performance by camp

Southern group	W40		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 10	0	0%	80	100%
Camp 11	0	0%	105	100%
Camp 12	2	100%	125	100%
Camp 13	0	0%	157	100%
Camp 14	0	0%	70	100%
Camp 15	1	100%	115	100%
Camp 16	1	100%	105	100%
Camp 17	1	100%	75	100%
Camp 18	1	100%	80	100%
Camp 19	1	100%	90	100%
Camp 20	2	100%	56	100%
Camp 20 Ext	0	0%	16	100%
Camp 9	2	100%	106	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

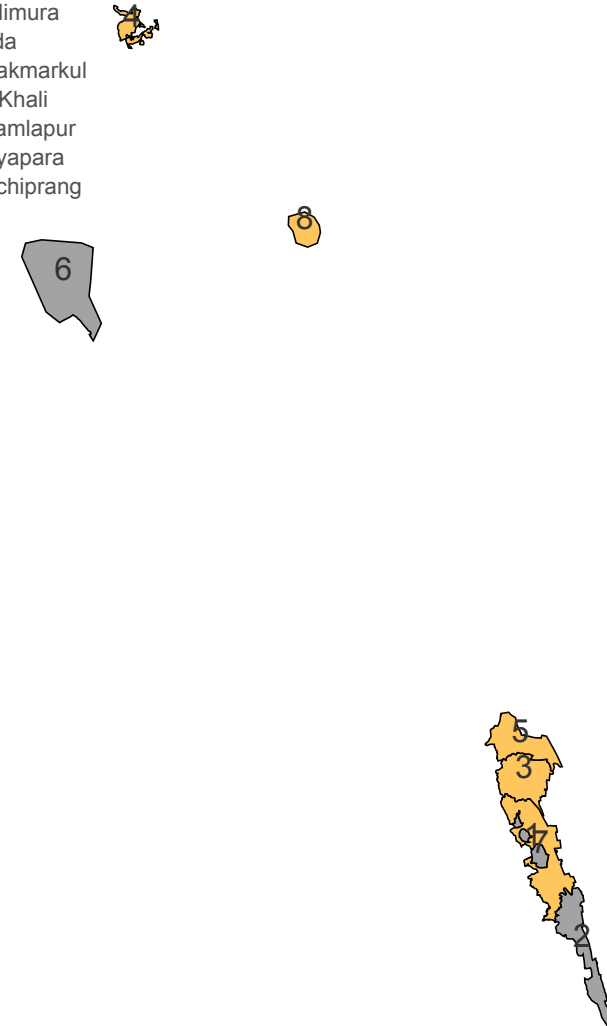


Table 10 | Performance by camp

Teknaf	W40		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 21 Chakmarkul	1	100%	50	100%
Camp 22 Unchiprang	2	100%	31	100%
Camp 23 Shamlapur	0	0%	46	100%
Camp 24 Leda	1	100%	19	100%
Camp 25 Ali Khali	1	100%	24	100%
Camp 26 Nayapara	1	100%	44	100%
Camp 27 Jadimura	0	0%	15	100%
Nayapara RC	0	0%	25	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	W40		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	6	100%	774	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	12	100%
Meningitis	1	100%	15	100%
Haem. fever (susp.)	0	0%	9	100%
NNT	0	0%	2	100%
Unexp. fever	2	100%	205	100%
AWD	4	100%	258	100%
ARI	3	100%	272	100%
AJS	0	0%	104	100%
Varicella (Susp.)	0	0%	12	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	0	0%	169	100%

Table 12 | Risk assessment

W40	Cumulative (2020)	
0	4	Low risk
0	1	Moderate risk
0	0	High risk
0	0	Very high risk

For more help and support, please contact:

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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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HEALTH SECTOR
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Global

EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W40 2020



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Welfare Bangladesh



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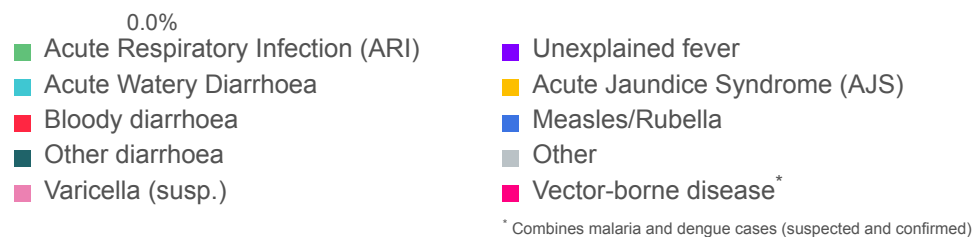
HEALTH SECTOR
COX'S BAZAR



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Proportional morbidity

Figure 1 | Proportional morbidity (W40 2020)



Disease	W40		2020	
	# cases	% morbidity	# cases	% morbidity
AWD	2,858	3.9%	100,227	4.4%
Bloody diarr.	343	0.5%	12,373	0.5%
Other diarr.	1,014	1.4%	36,827	1.6%
Susp. Varicella	17	0.0%	1,694	0.1%
ARI	12,480	17.2%	466,469	20.7%
Measles/Rub.	7	0.0%	4,528	0.2%
AFP	0	0.0%	11	0.0%
Susp. menin.	2	0.0%	55	0.0%
AJS	7	0.0%	877	0.0%
Susp. HF	0	0.0%	21	0.0%
Neo. tetanus	0	0.0%	1	0.0%
Adult tetanus	0	0.0%	10	0.0%
Malaria (conf.)	0	0.0%	7	0.0%
Malaria (susp.)	0	0.0%	3,502	0.2%
Dengue (conf.)	0	0.0%	2	0.0%
Dengue (susp.)	0	0.0%	4	0.0%
Unexpl. fever	1,200	1.7%	45,984	2.0%
Sev. Malnut.	35	0.0%	944	0.0%
Inj./Wounds	1,470	2.0%	58,643	2.6%
Other	53,090	73.2%	1,525,526	67.5%
Total	71,334	100%	2,258,419	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W40)

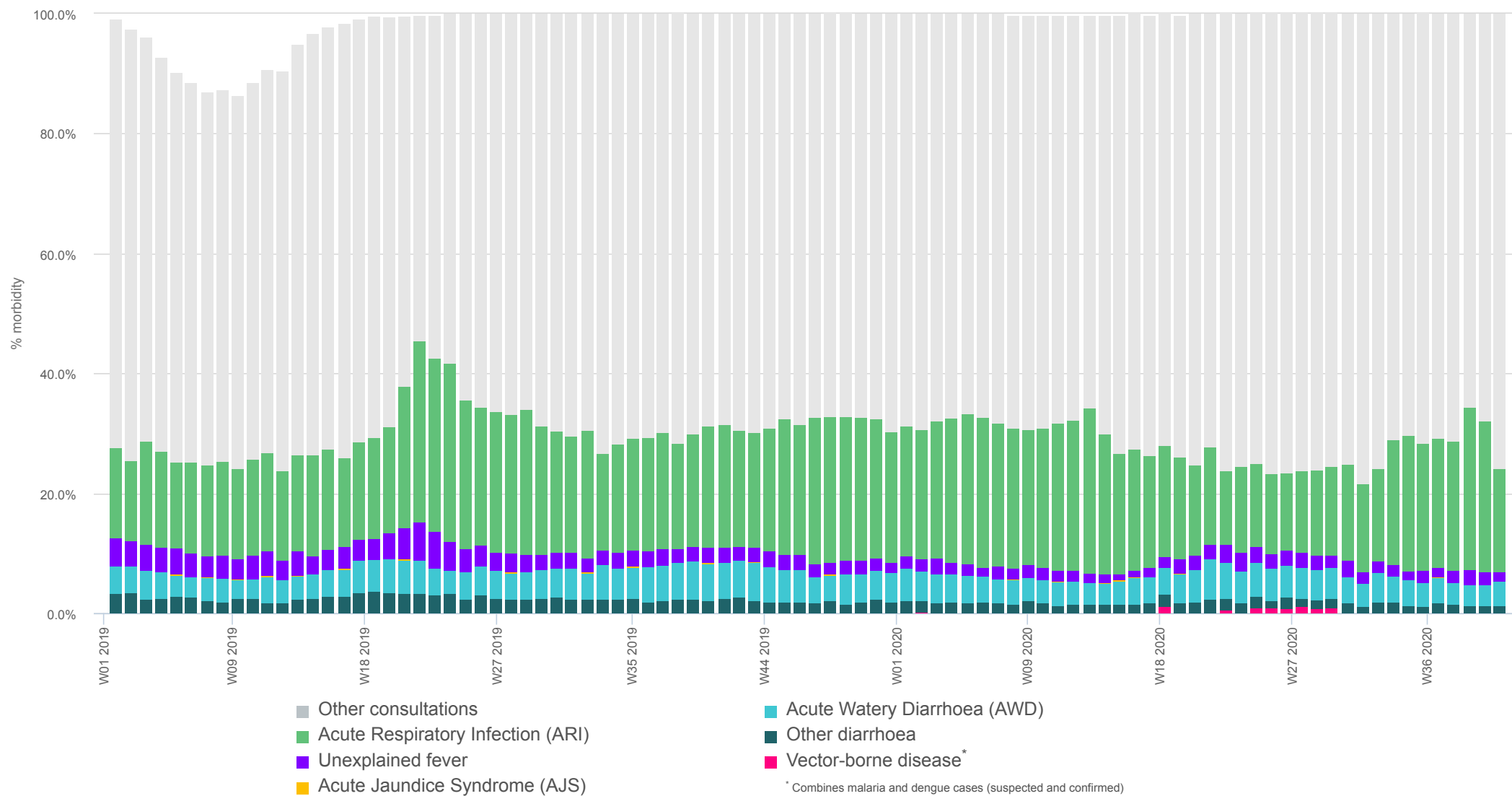
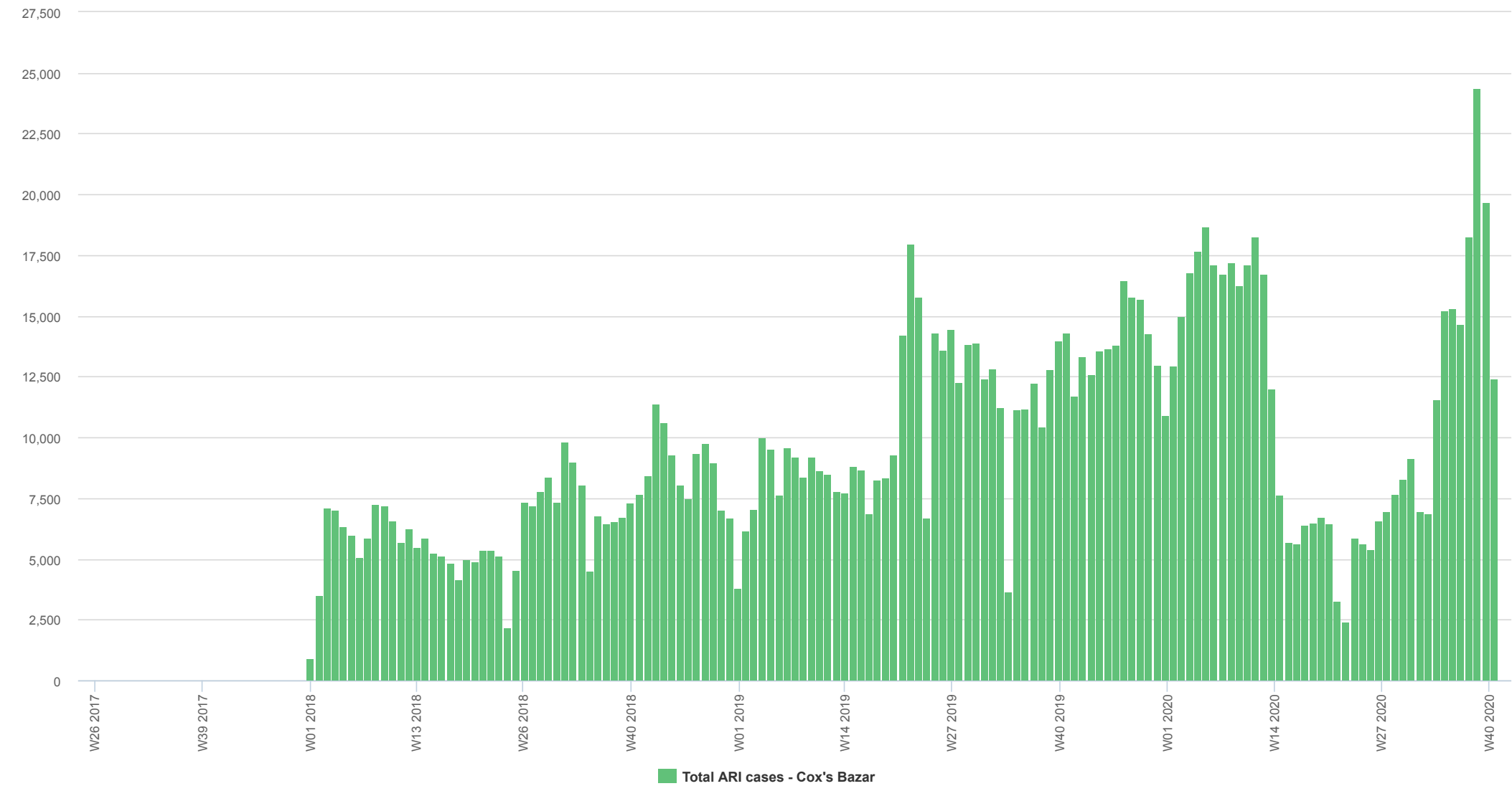
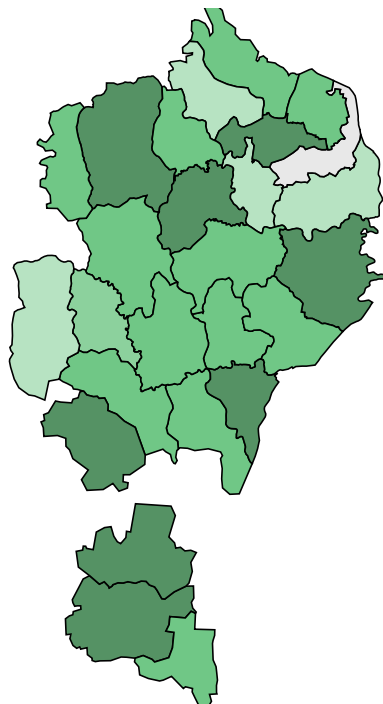


Figure 3 | Trend in number of cases over time (W38 2017 - W40 2020)

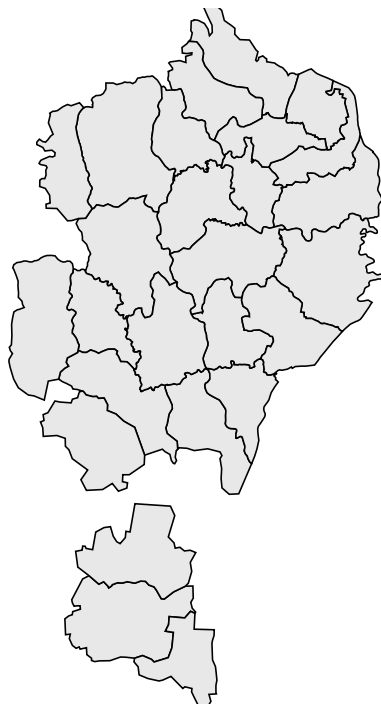


Map 1 | Map of cases by camp (W40 2020)

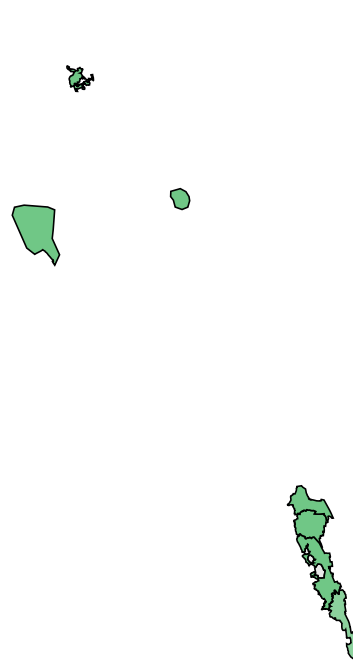
a. Ukhia | Number of cases



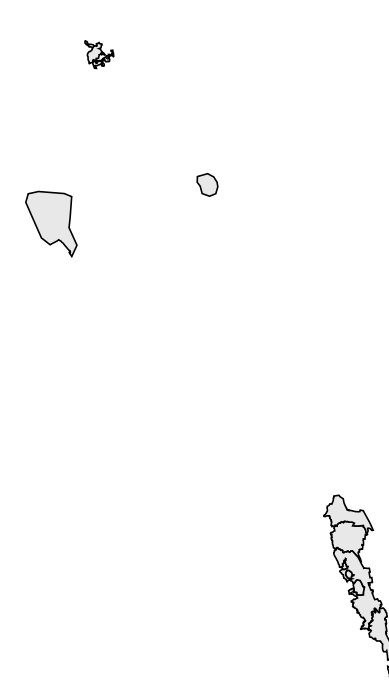
b. Ukhia | Number of alerts



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 (W40 2020)

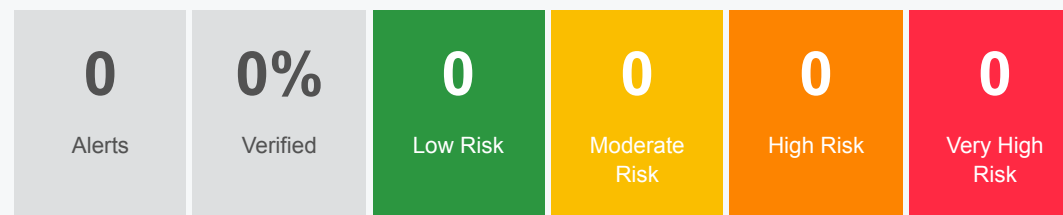
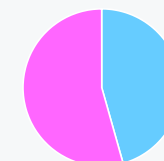
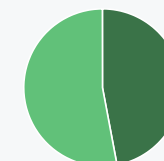


Figure | % sex



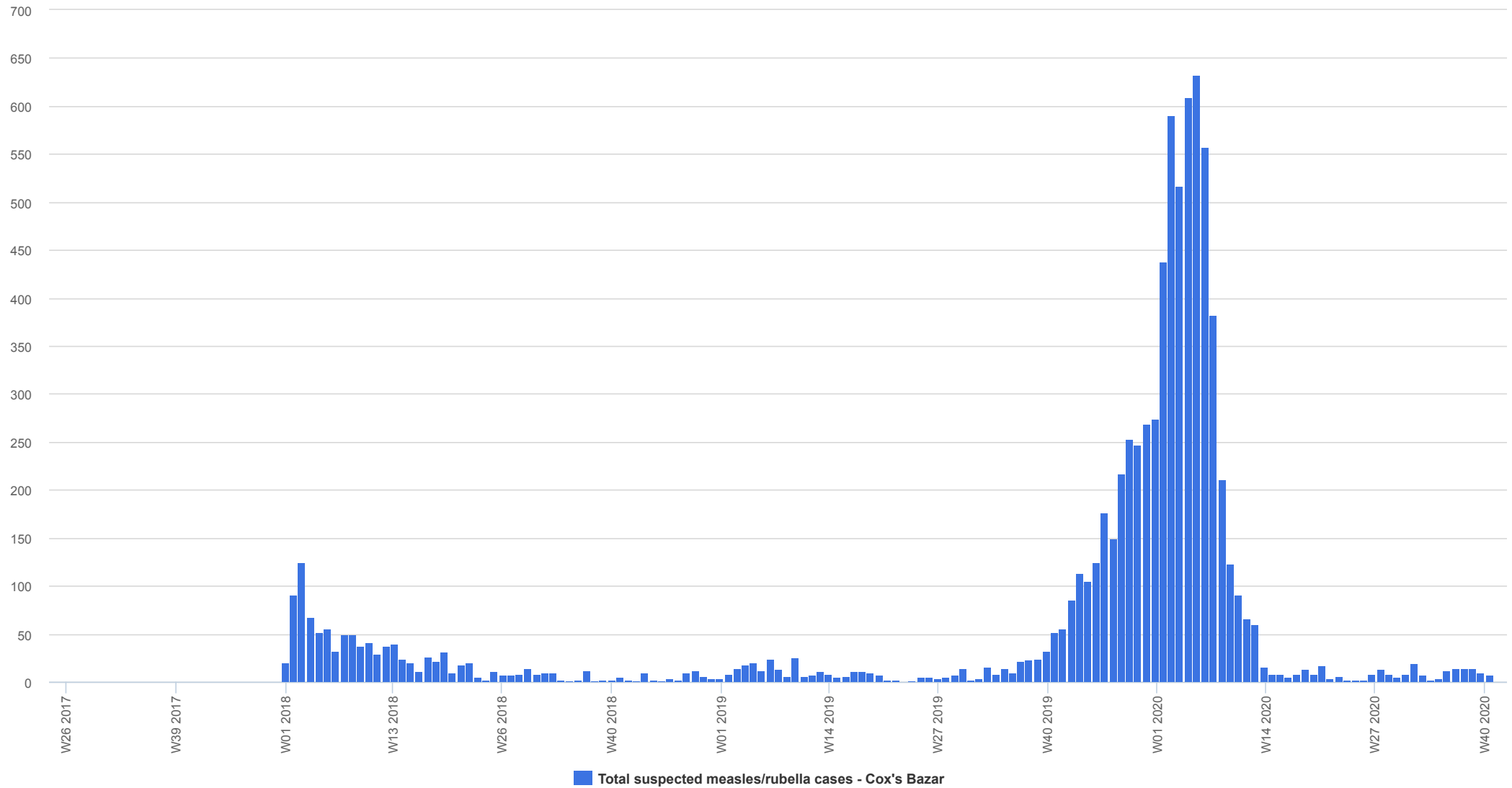
Male Female

Figure | % age



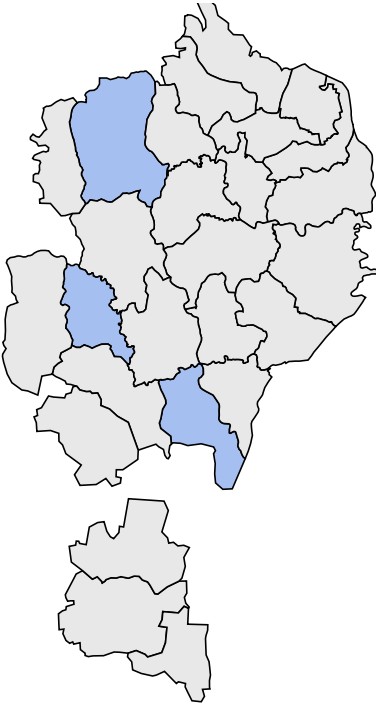
>=5 < 5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W40 2020)

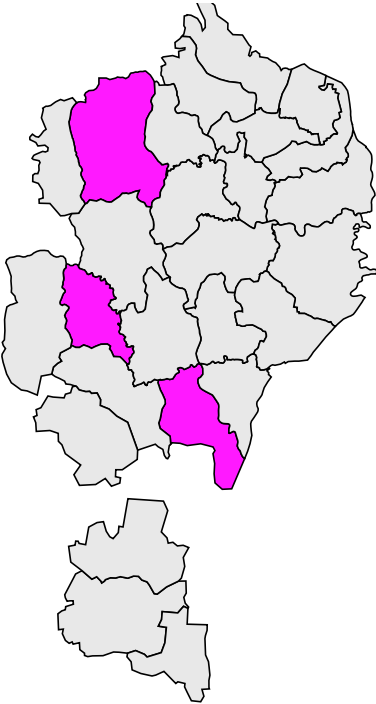


Map 2 | Map of cases by camp (W40 2020)

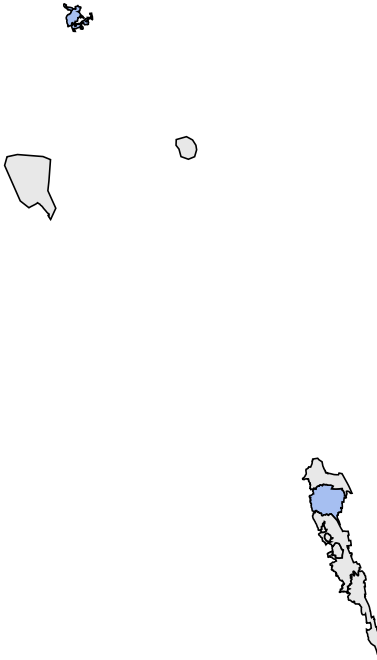
a. Ukhia | Number of cases



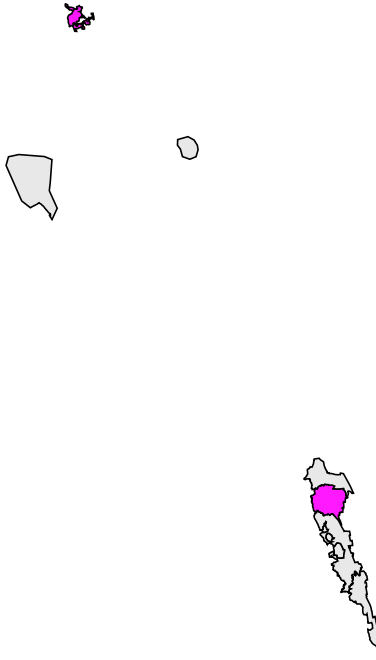
b. Ukhia | Number of alerts



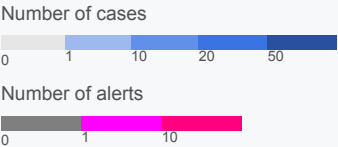
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W40 2020)

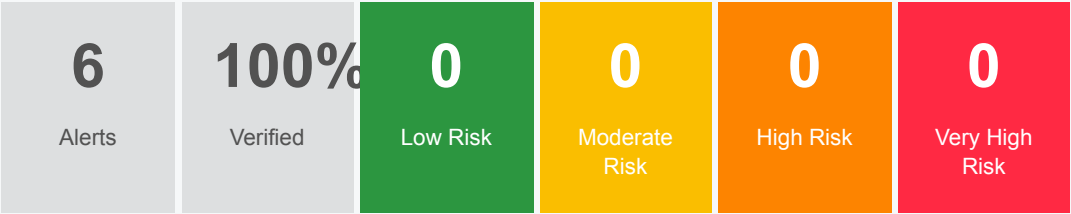


Figure | % sex

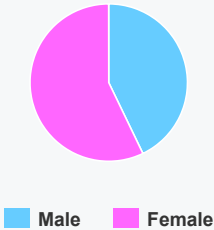


Figure | % age

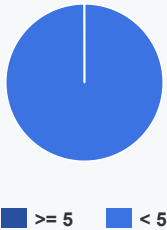
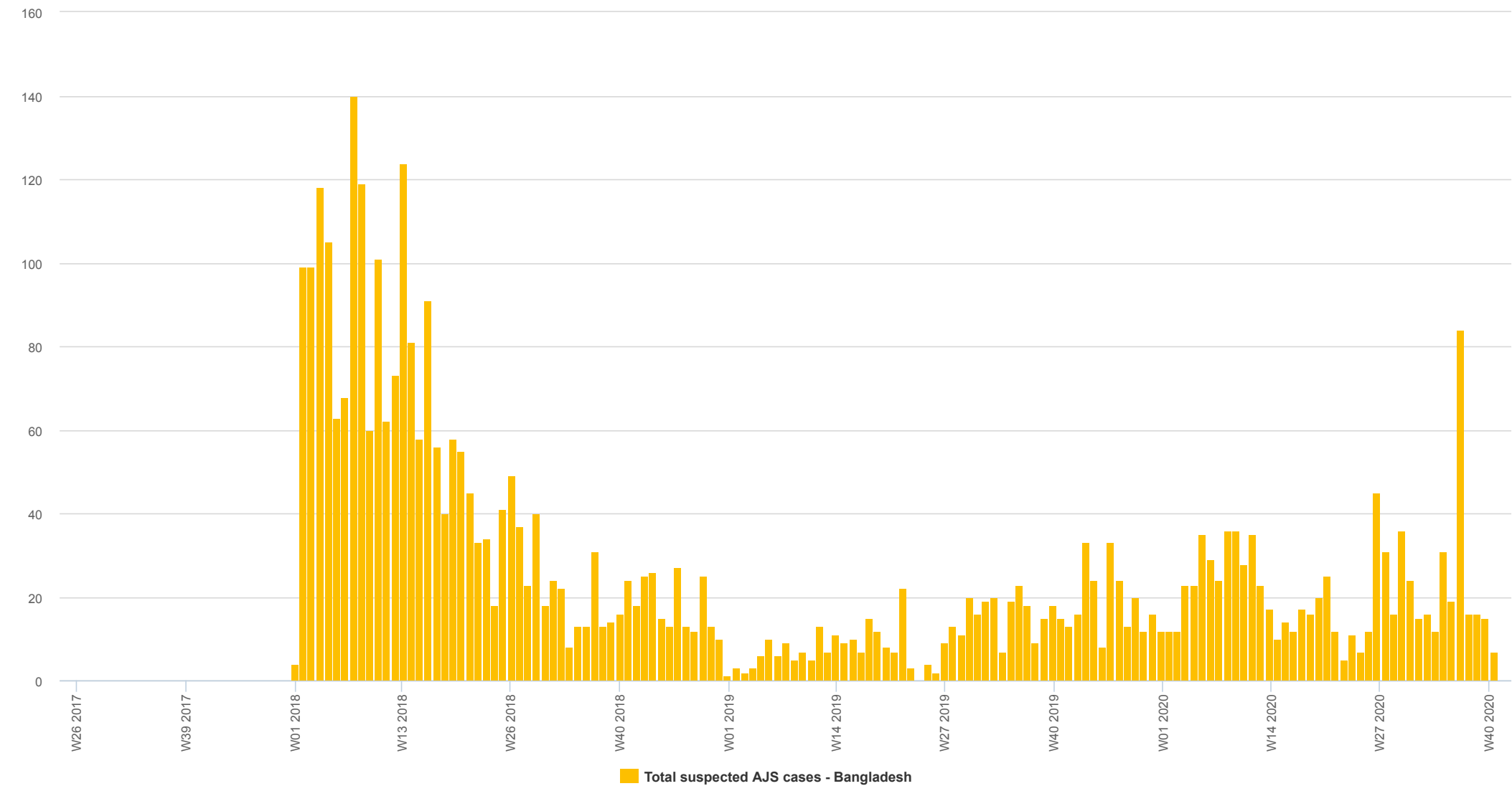


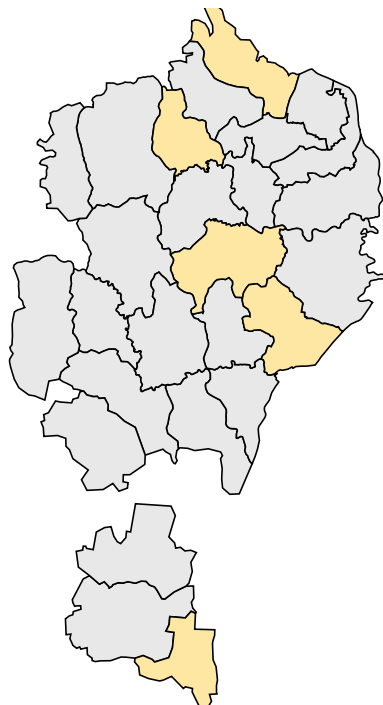
Figure 5 | Trend in number of cases over time (W38 2017 - W40 2020)



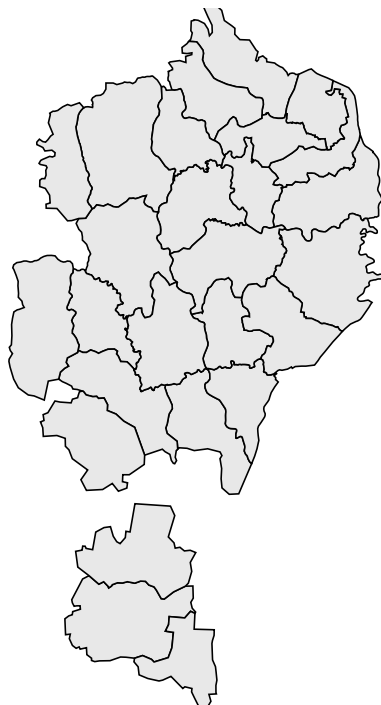
Total suspected AJS cases - Bangladesh

Map 3 | Map of cases by camp (W37 2017 - W40 2020)

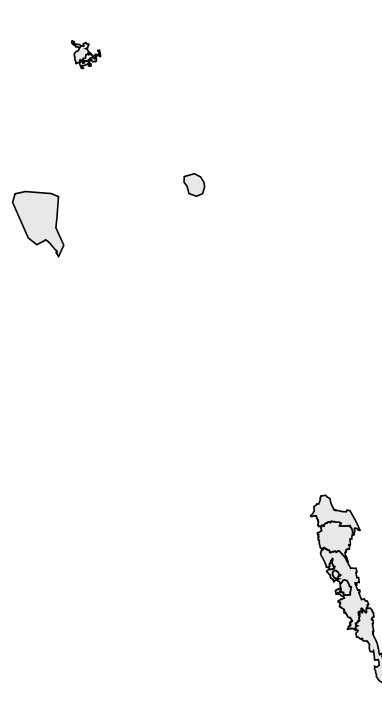
a. Ukhia | Number of cases



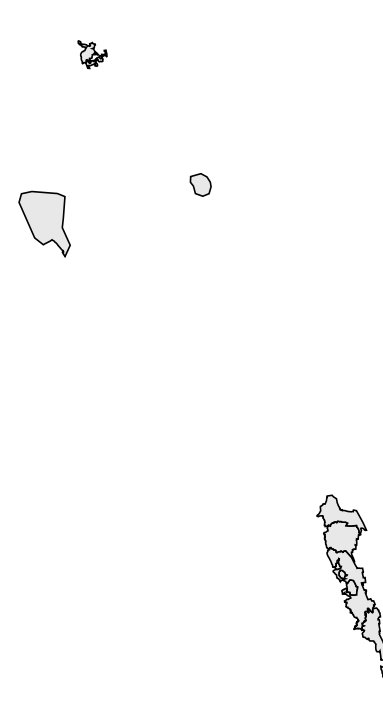
b. Ukhia | Number of alerts



c. Teknaf | Number of cases

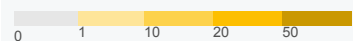


d. Teknaf | Number of alerts



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 (W40 2020)

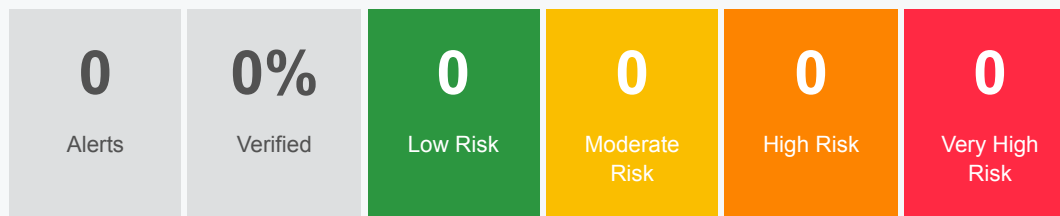
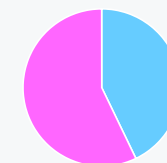
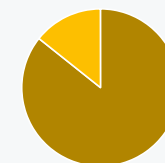


Figure | % sex



Male Female

Figure | % age



>= 5 < 5

Figure 6 | Trend in number of cases over time (W38 2017 - W40 2020)

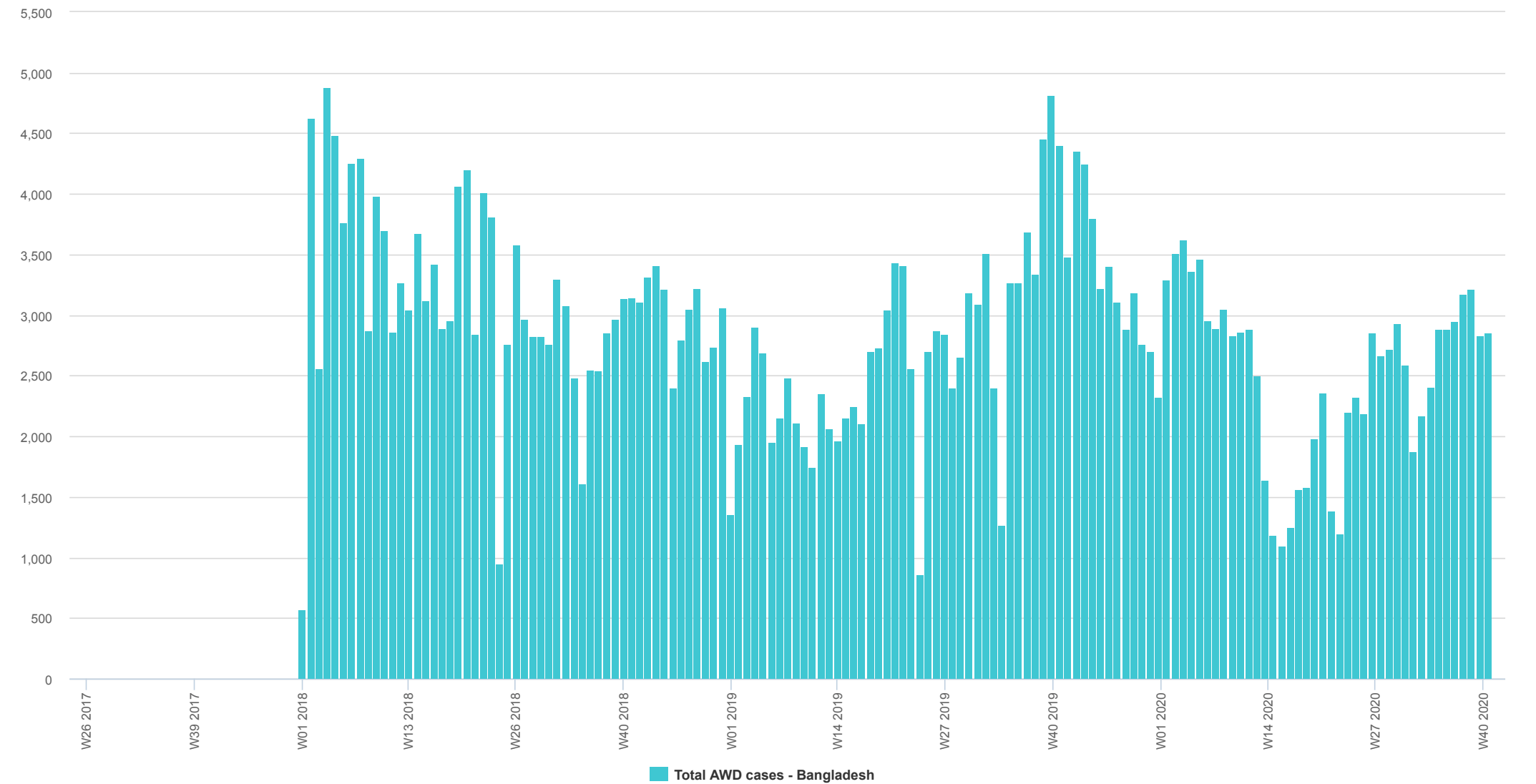
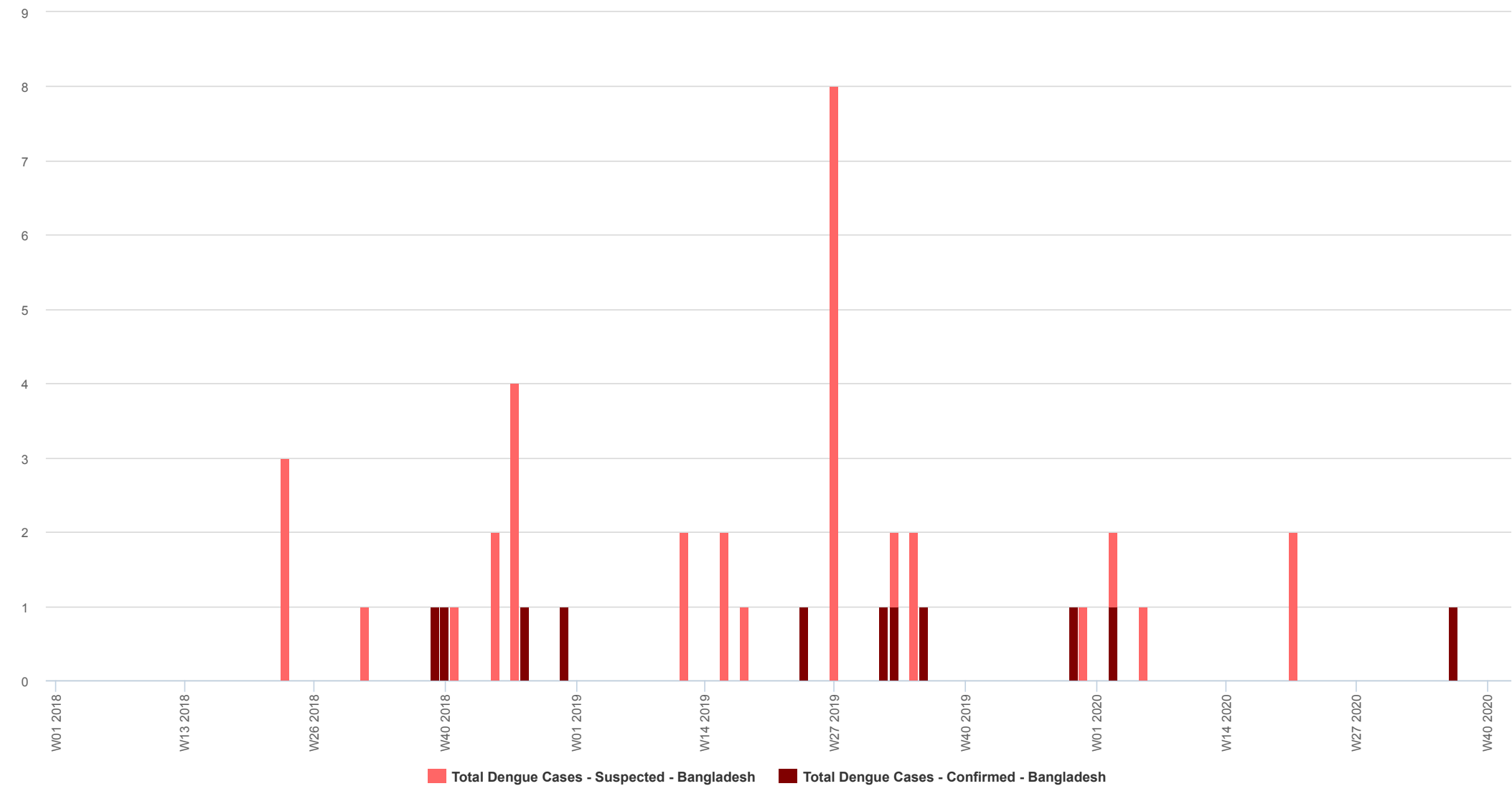


Figure 7 | Trend in number of cases over time (W38 2017 - W40 2020)



Map 4 | Map of cases by camp (W37 2017 - W40 2020)

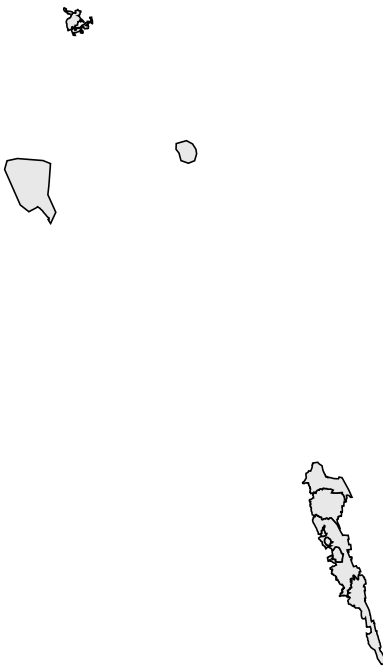
a. Ukhia | Number of cases



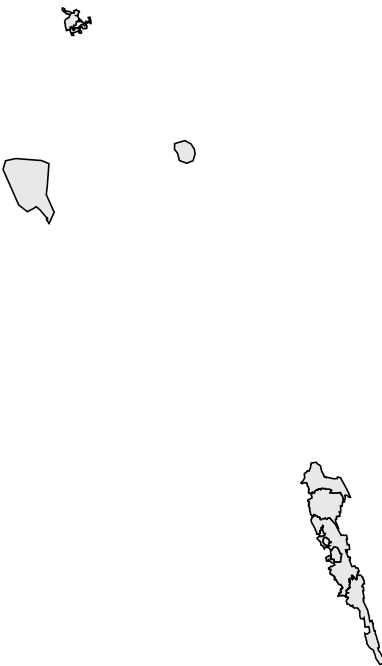
b. Ukhia | Number of alerts



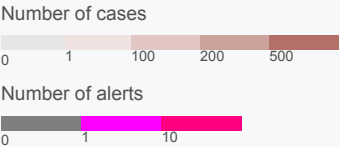
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W40 2020)

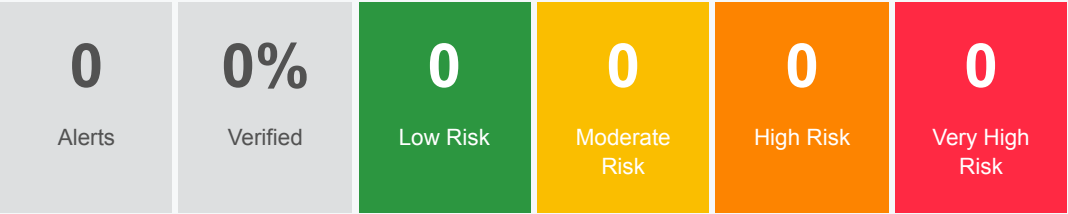


Figure | % sex

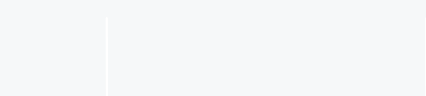
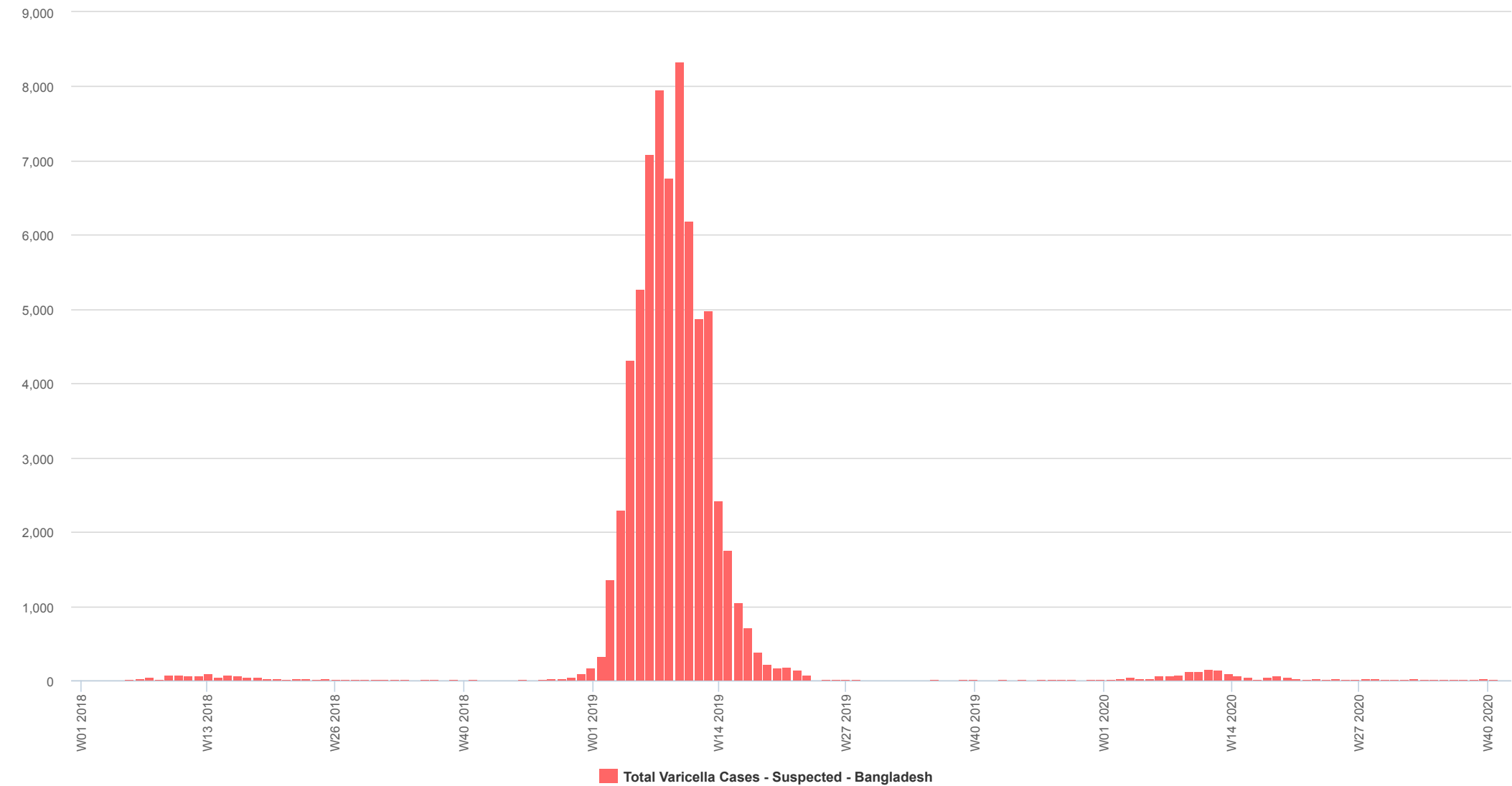


Figure | % age

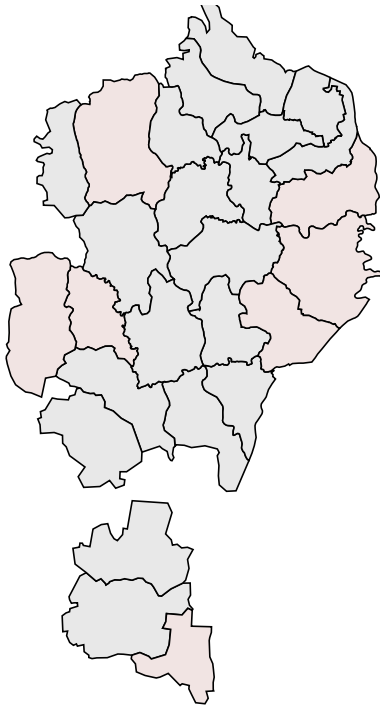


Figure 7 | Trend in number of cases over time (W38 2017 - W40 2020)

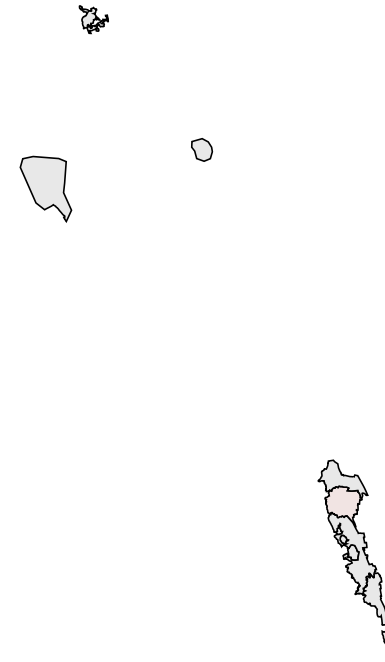


Map 4 | Map of cases by camp (W37 2017 - W40 2020)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

Number of cases

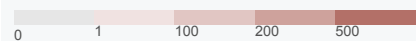


Figure | % sex

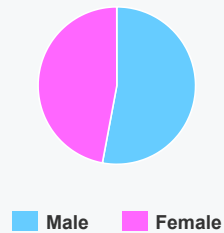
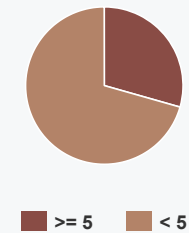


Figure | % age



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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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