



Epidemiological Highlights

Week 6 (03 - 09 Feb 2020)



**World Health
Organization**

Highlights:

- 1 AWD RDT positive case reported from host community Teknaf in week 6
- Measles Outbreak Response Immunization is on going in the camps expected to be completed by February 12, 2020
- 2nd round OCV campaign will take place from 15-20 February, 2020 for camps
- Acute Respiratory Infection (23%), Diarrheal Diseases (6.4%) & Unexplained Fever(1.9%) are the diseases with highest proportional morbidity in last week. Injury/wounds shows increasing trend over last couple of months

EWARS Reporting Updates

- Total 145/166 (67%) health facilities registered in EWARS
- Only 87/ 145 weekly reports received last week
- Completeness and Timeliness for this week is 58%
- Total 51 alerts were triggered this week which less than as previous week (79 reported last week).
- All alerts were reviewed and verified by EWARS team.

Diphtheria

2 probable and 5 Suspected case-patients reported in week 6

A total of 9 017 case-patients were reported in EWARS form 2017 to till date

- Confirmed = 323
- Probable = 2 783
- Suspected = 5 911

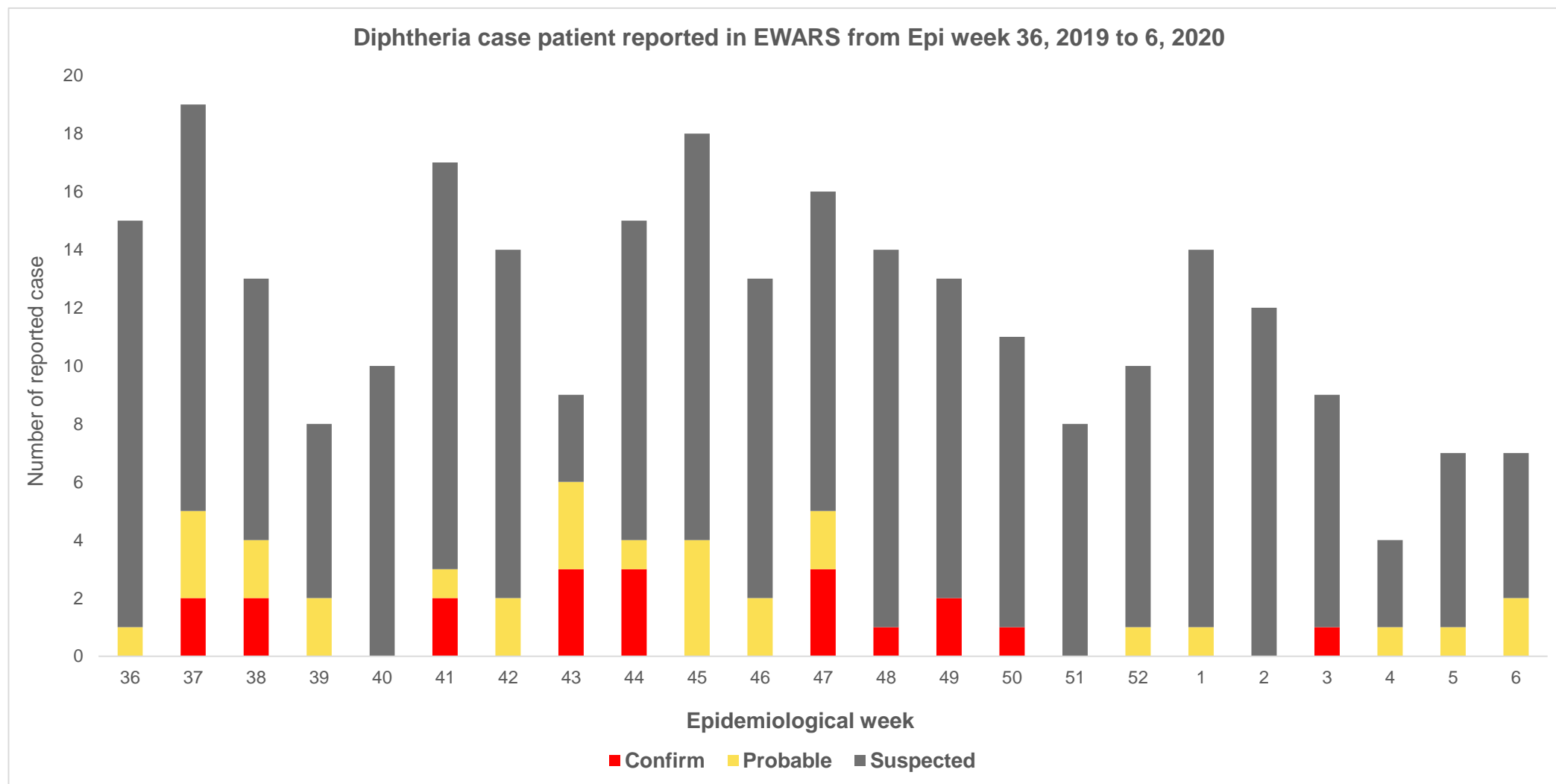
Total Case reported in 2020 = 53

- Confirmed = 1
- Probable = 6
- Suspected = 47

Last confirmed case was reported in Week 3 (13 January 2020)

Total deaths reported in EWARS 46. Last death was reported 25 October 2019

Diphtheria

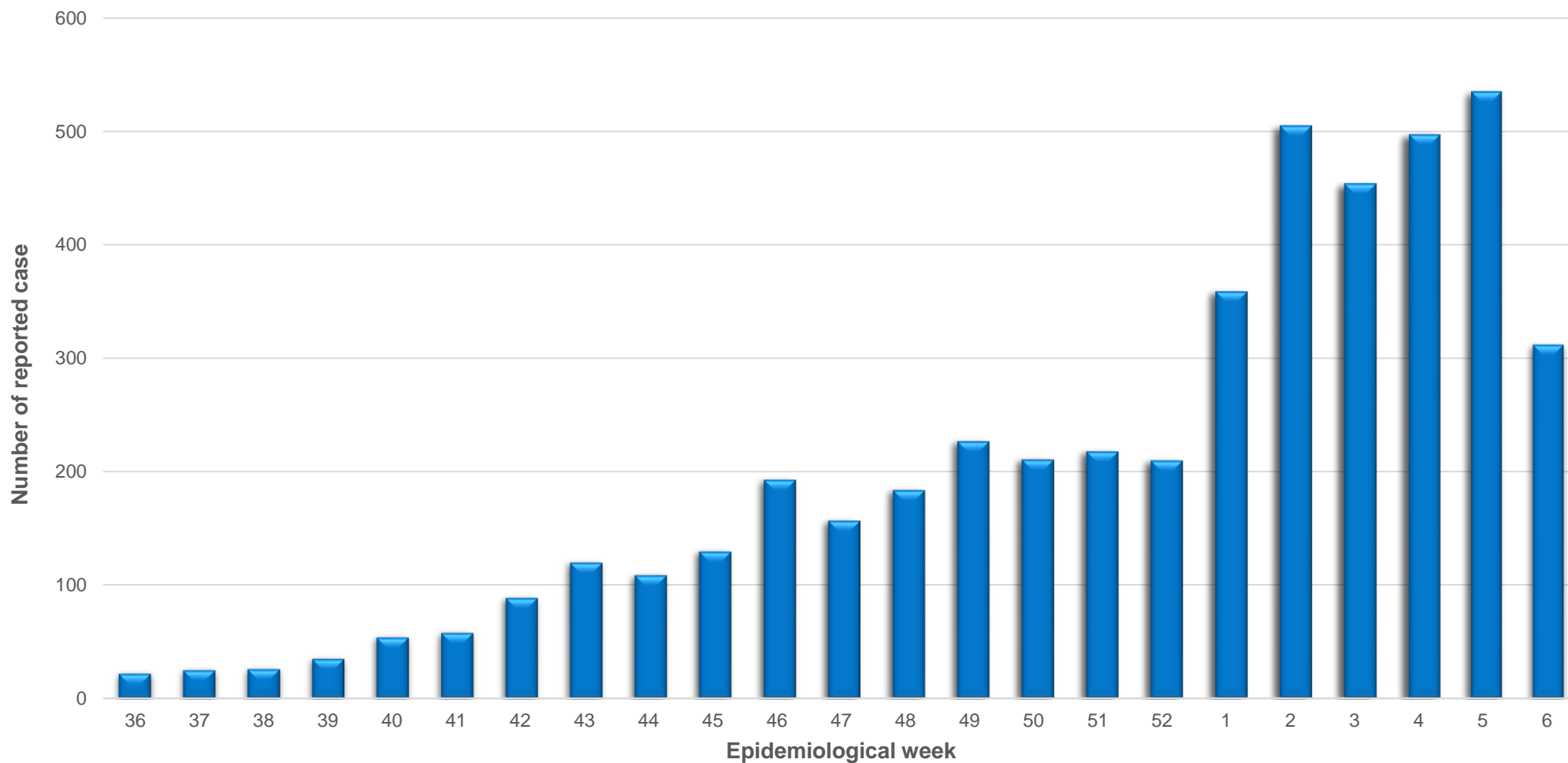


Measles

- 312 suspected measles cases were reported through weekly report form in EWARS in week 6
- Out of total 2 662 in 2020, 1 724 (65%) cases were reported via measles case report form.
- Outbreak response immunization is being conducted now in camps.

Measles

Total number of Measles case reported in EWARS from week 36, 2019 to 6, 2020



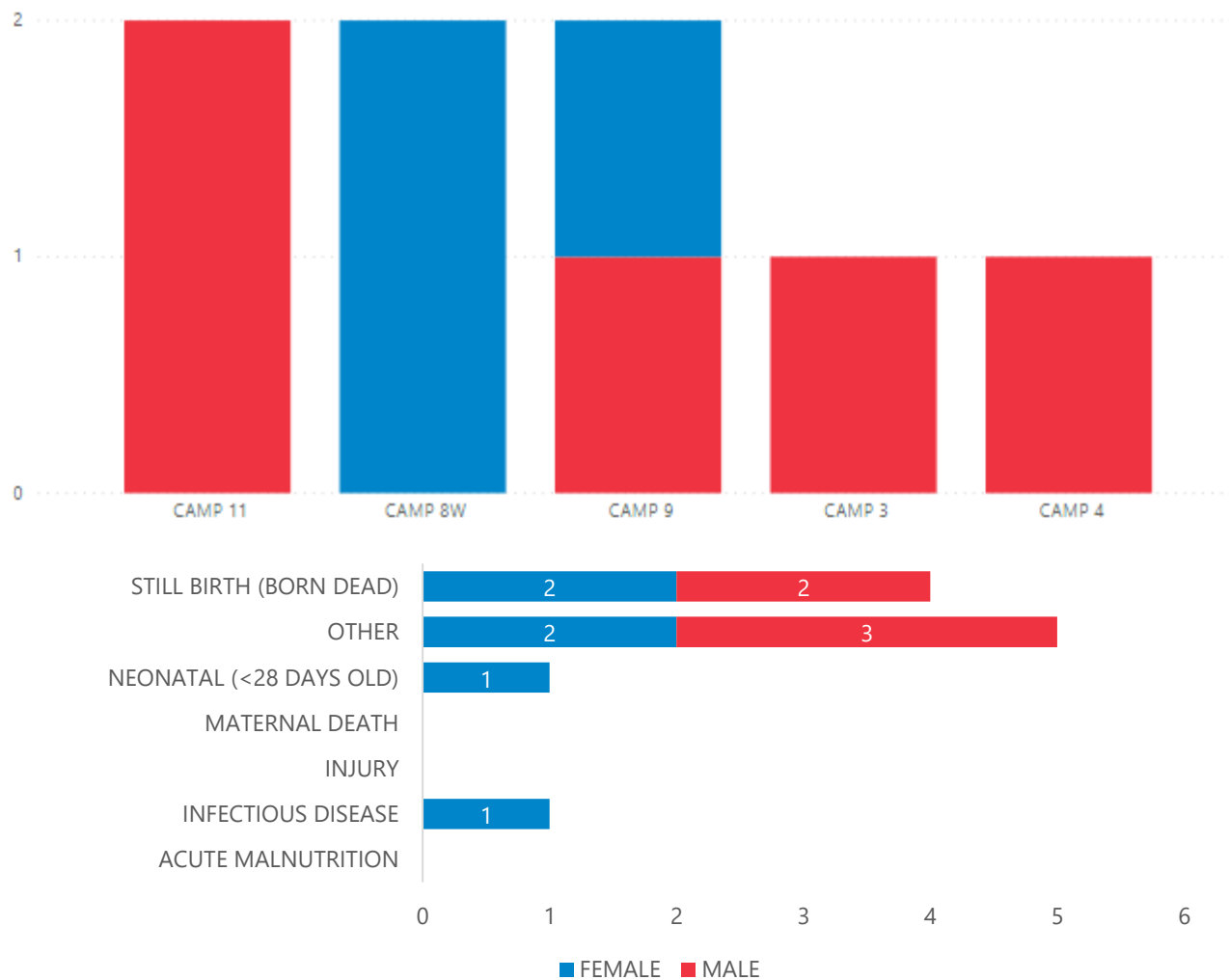
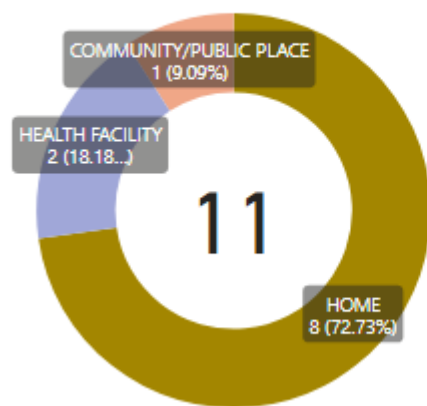
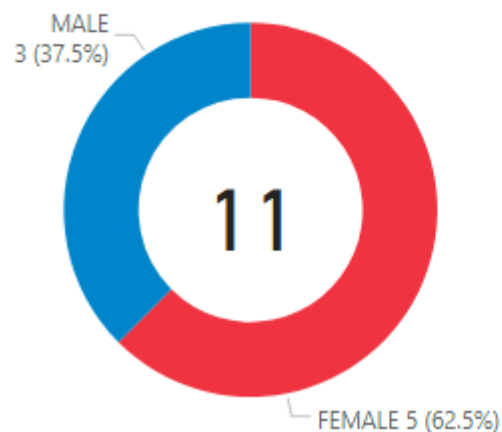
Diarrhoeal Disease

- A total 3 320 diarrhoeal diseases cases reported in EWARS in week 6
- Among which 2,013 cases (3.9%) reported with acute watery diarrhoea (AWD), 368 cases (0.7%) reported with bloody diarrhoea and 939 cases (1.8%) reported with other diarrhoea.
- Diarrhoeal diseases are the second highest contributor of proportional morbidity after acute respiratory infection (ARI).

Community-based surveillance

- In week 6, total of 11 deaths were recorded. 45% (n=5) were due to causes classified as “Others”, 36% (n=4) as still birth and 9% (n=1) as neonatal death and 9% (n=1) infectious disease death
- There were a total of 1 mortality alert raised for women of reproductive age (12-49 years).
- 18% of deaths reported from health facility, 73% from homes and 9% from community/public place.
- 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 W6 2020



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



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Sources of data

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

Highlights W6 2020

Table 1 | Coverage

#	%	
932,930	-	Estimated total Rohingya population ¹
919,946	99%	Total population under surveillance
166	-	Total number of health facilities
145	87%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W6	Cumulative (2020)	
87	723	Number of weekly reports received
58%	80%	Completeness
58%	74%	Timeliness

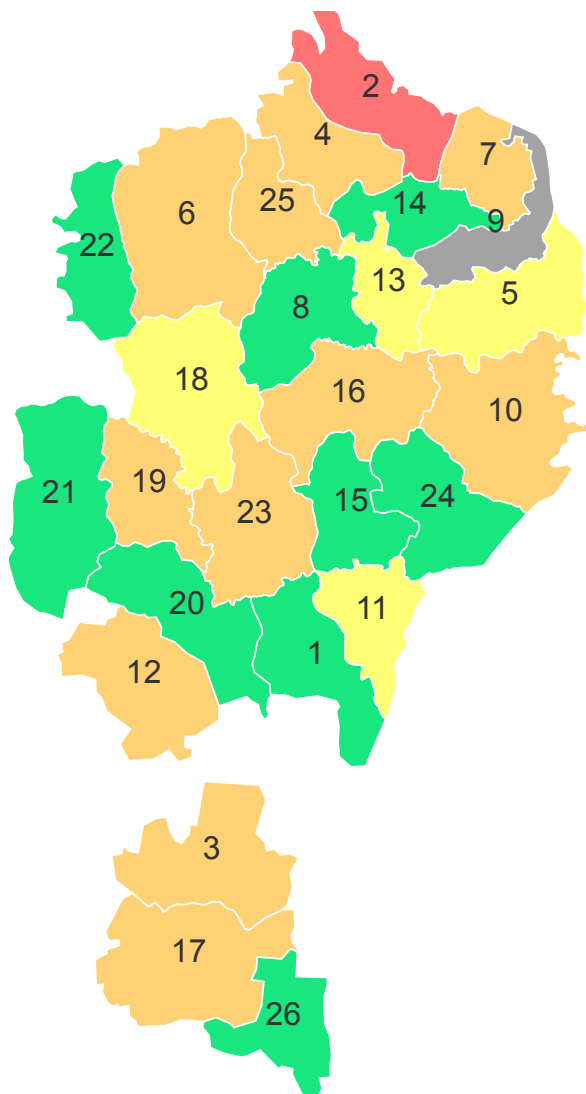
Table 3 Alert performance indicators

W6	Cumulative (2020)	
51	437	Total alerts raised
100%	100%	% verified
0%	0%	% auto-discarded
0%	0%	% undergoing risk assessment
0%	0%	% completed risk assessment

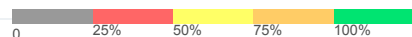
¹ Source: IOM. Bangladesh: Needs and Population Monitoring - NPM R11 Report. 14 June 2018.

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

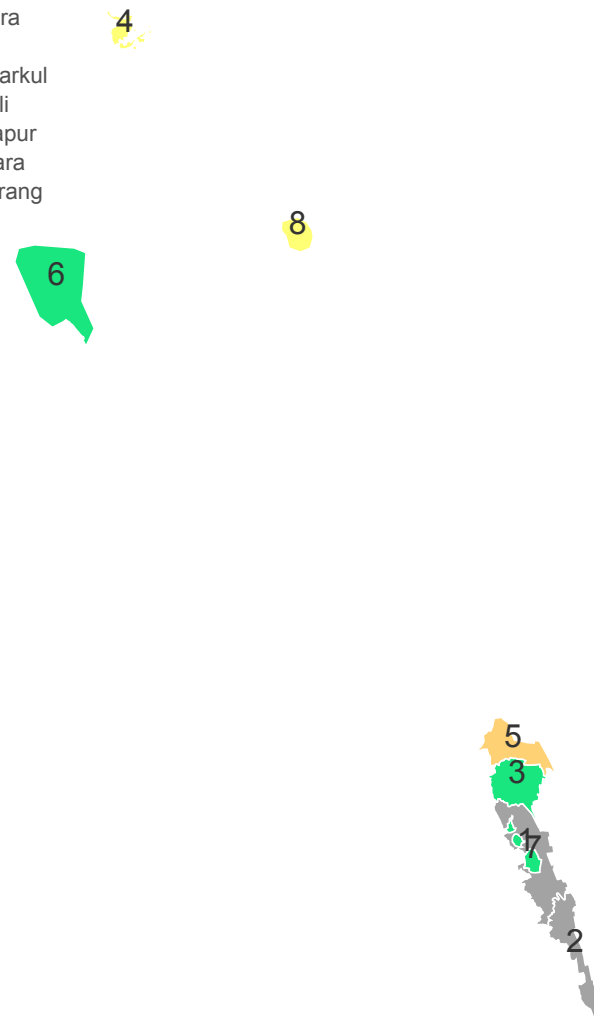


Completeness



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



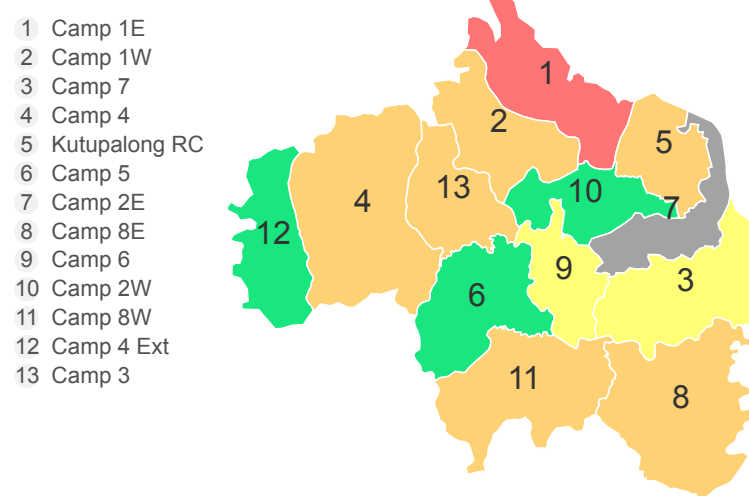
Completeness



Table 4 | Performance by camp (W6 2020)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 1E	5	1	20%	20%
Camp 1W	3	2	67%	67%
Camp 2E	1	0	0%	0%
Camp 2W	2	2	100%	100%
Camp 3	6	4	67%	67%
Camp 4	8	4	50%	50%
Camp 4 Ext	1	1	100%	100%
Camp 5	5	4	80%	80%
Camp 6	3	1	33%	33%
Camp 7	5	1	25%	25%
Camp 8E	6	3	60%	60%
Camp 8W	8	5	71%	71%
Kutupalong RC	2	1	50%	50%

Map 2 | Completeness by camp



Completeness



Table 5 | Performance by camp (W6 2020)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 10	4	4	100%	100%
Camp 11	10	3	33%	33%
Camp 12	7	6	100%	100%
Camp 13	11	6	67%	67%
Camp 14	8	4	50%	50%
Camp 15	9	5	63%	63%
Camp 16	4	3	75%	75%
Camp 17	5	2	40%	40%
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	6	4	75%	75%

Map 3 | Completeness by camp

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

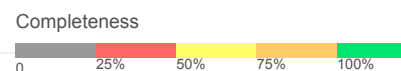
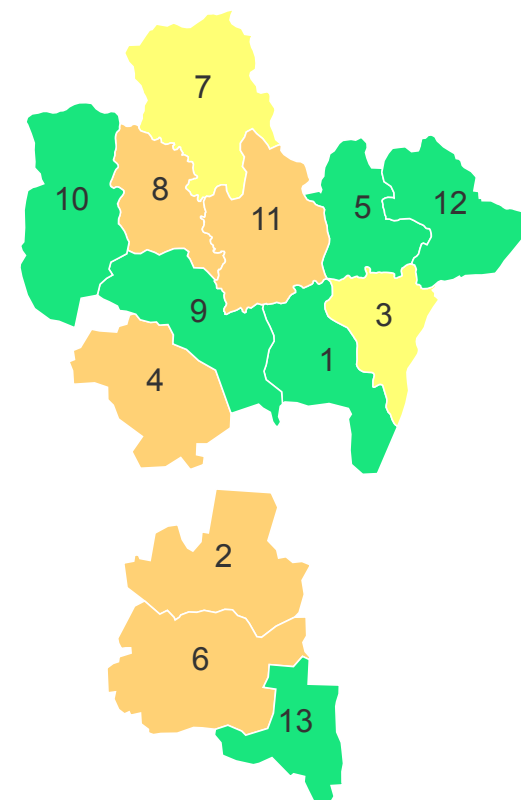
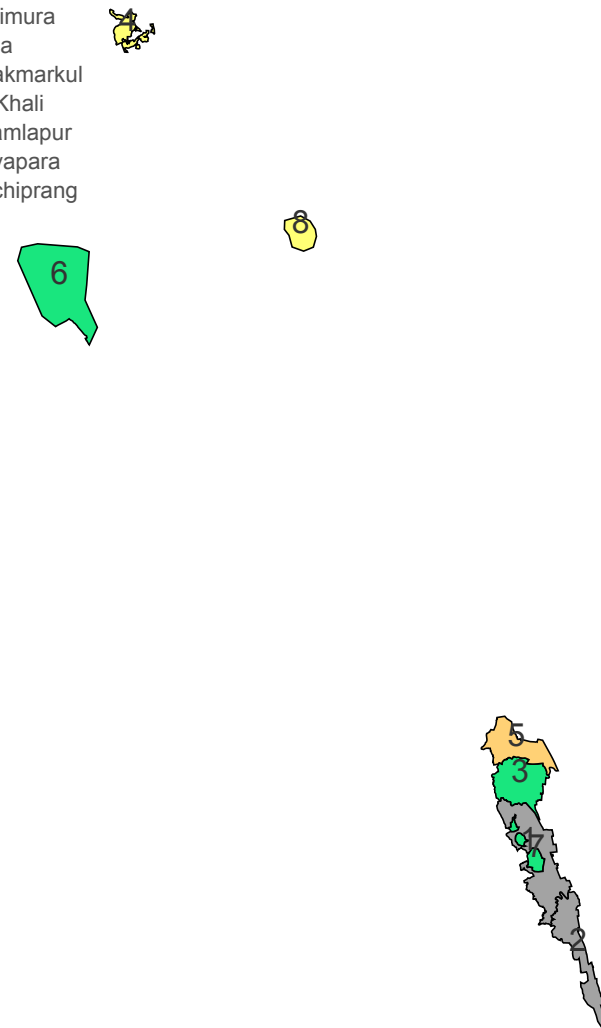


Table 6 | Performance by camp (W6 2020)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 21 Chakmarkul	5	2	25%	25%
Camp 22 Unchiprang	5	1	33%	33%
Camp 23 Shamlapur	4	3	100%	100%
Camp 24 Leda	1	1	100%	100%
Camp 25 Ali Khali	2	1	50%	50%
Camp 26 Nayapara	3	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 (W6 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	0	0%	0%
GK	9	6	67%	67%
HMBDF	1	1	100%	100%
IOM	18	14	78%	78%
IRC	1	1	100%	100%
MSF	9	3	33%	33%
MoH	0	1	0%	0%
Hope	2	2	100%	100%
Medair	1	1	100%	100%

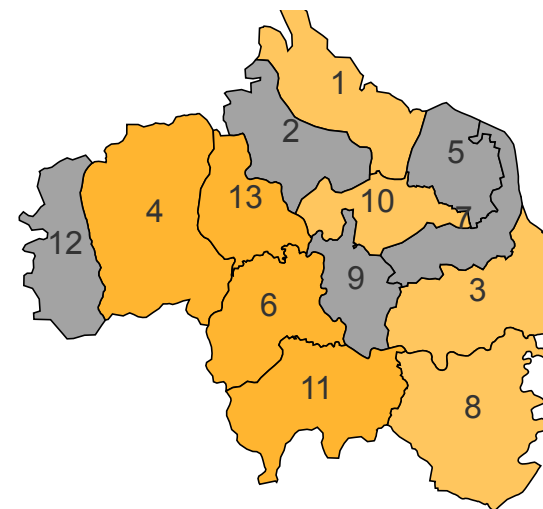
Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
MTI	4	4	100%	100%
PHD	9	9	100%	100%
PWJ	1	1	100%	100%
RHU	3	3	100%	100%
RI	3	3	100%	100%
RTMI	8	6	75%	75%
SCI	9	0	0%	0%
TdH	1	0	0%	0%

Table 8 | Performance by camp

Northern group	W6		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 1E	1	100%	16	100%
Camp 1W	0	0%	3	100%
Camp 2E	0	0%	11	100%
Camp 2W	1	100%	7	100%
Camp 3	3	100%	28	100%
Camp 4	5	100%	37	100%
Camp 4 Ext	0	0%	6	100%
Camp 5	3	100%	27	100%
Camp 6	0	0%	2	100%
Camp 7	1	100%	4	100%
Camp 8E	2	100%	10	100%
Camp 8W	4	100%	26	100%
Kutupalong RC	0	0%	2	100%

Map 5 | Number of alerts by camp

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



of alerts

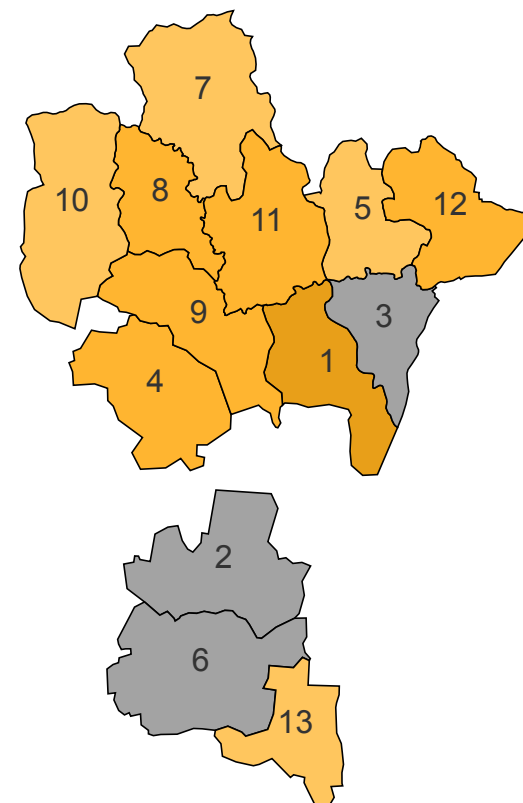


Table 9 | Performance by camp

Southern group	W6		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 10	2	100%	15	100%
Camp 11	0	0%	20	100%
Camp 12	6	100%	30	100%
Camp 13	3	100%	20	100%
Camp 14	0	0%	12	100%
Camp 15	0	0%	15	100%
Camp 16	1	100%	19	100%
Camp 17	1	100%	5	100%
Camp 18	3	100%	13	100%
Camp 19	4	100%	21	100%
Camp 20	3	100%	14	100%
Camp 20 Ext	1	100%	3	100%
Camp 9	3	100%	19	100%

Map 6 | Number of alerts by camp

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



of alerts

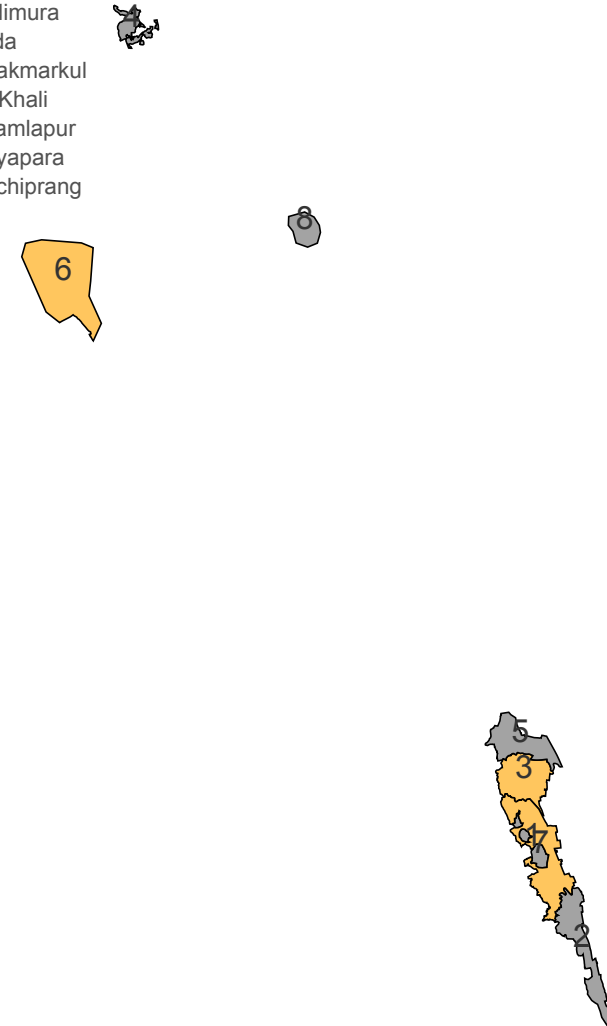


Table 10 | Performance by camp

Teknaf	W6		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 21 Chakmarkul	0	0%	15	100%
Camp 22 Unchiprang	0	0%	1	100%
Camp 23 Shamlapur	1	100%	2	100%
Camp 24 Leda	1	100%	8	100%
Camp 25 Ali Khali	0	0%	0	0%
Camp 26 Nayapara	2	100%	21	100%
Camp 27 Jadimura	0	0%	3	100%
Nayapara RC	0	0%	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



of alerts



Table 11 | Performance by type of alert

Event	W6		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	41	100%	302	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	3	100%
Meningitis	0	0%	5	100%
Haem. fever (susp.)	0	0%	2	100%
NNT	0	0%	0	0%
Unexp. fever	2	100%	25	100%
AWD	1	100%	23	100%
ARI	1	100%	28	100%
AJS	1	100%	14	100%
Varicella (Susp.)	0	0%	1	100%
Event-based surveillance				
EBS total	5	100%	33	100%

Table 12 | Risk assessment

W6	Cumulative (2020)	
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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World Health Organization
Cox's Bazar, Bangladesh
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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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Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W6 2020



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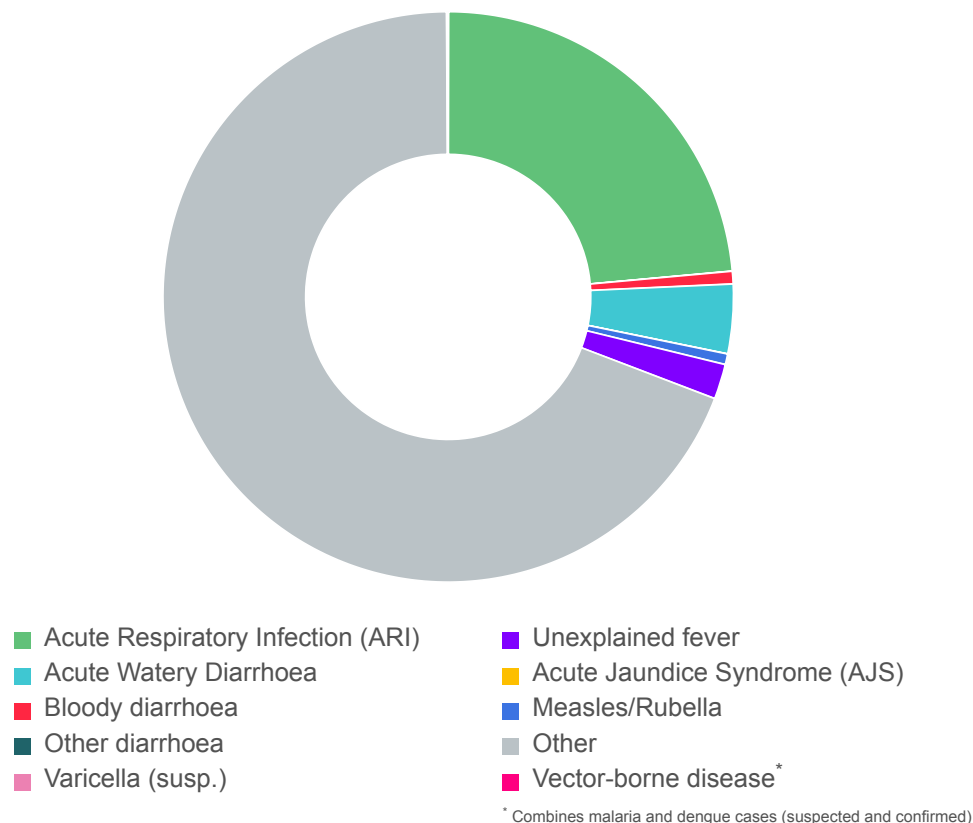
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Proportional morbidity

Figure 1 | Proportional morbidity (W6 2020)



Disease	W6		2020	
	# cases	% morbidity	# cases	% morbidity
AWD	2,013	3.9%	16,592	4.3%
Bloody diarr.	368	0.7%	2,767	0.7%
Other diarr.	939	1.8%	7,475	1.9%
Susp. Varicella	42	0.1%	193	0.1%
ARI	12,084	23.1%	88,308	23.0%
Measles/Rub.	312	0.6%	2,662	0.7%
AFP	0	0.0%	3	0.0%
Susp. menin.	0	0.0%	11	0.0%
AJS	15	0.0%	113	0.0%
Susp. HF	0	0.0%	8	0.0%
Neo. tetanus	0	0.0%	0	0.0%
Adult tetanus	0	0.0%	0	0.0%
Malaria (conf.)	0	0.0%	2	0.0%
Malaria (susp.)	1	0.0%	127	0.0%
Dengue (conf.)	0	0.0%	2	0.0%
Dengue (susp.)	0	0.0%	2	0.0%
Unexpl. fever	1,017	1.9%	7,430	1.9%
Sev. Malnut.	15	0.0%	212	0.1%
Inj./Wounds	1,331	2.5%	9,112	2.4%
Other	34,123	65.3%	248,238	64.8%
Total	51,254	100%	383,371	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W6)

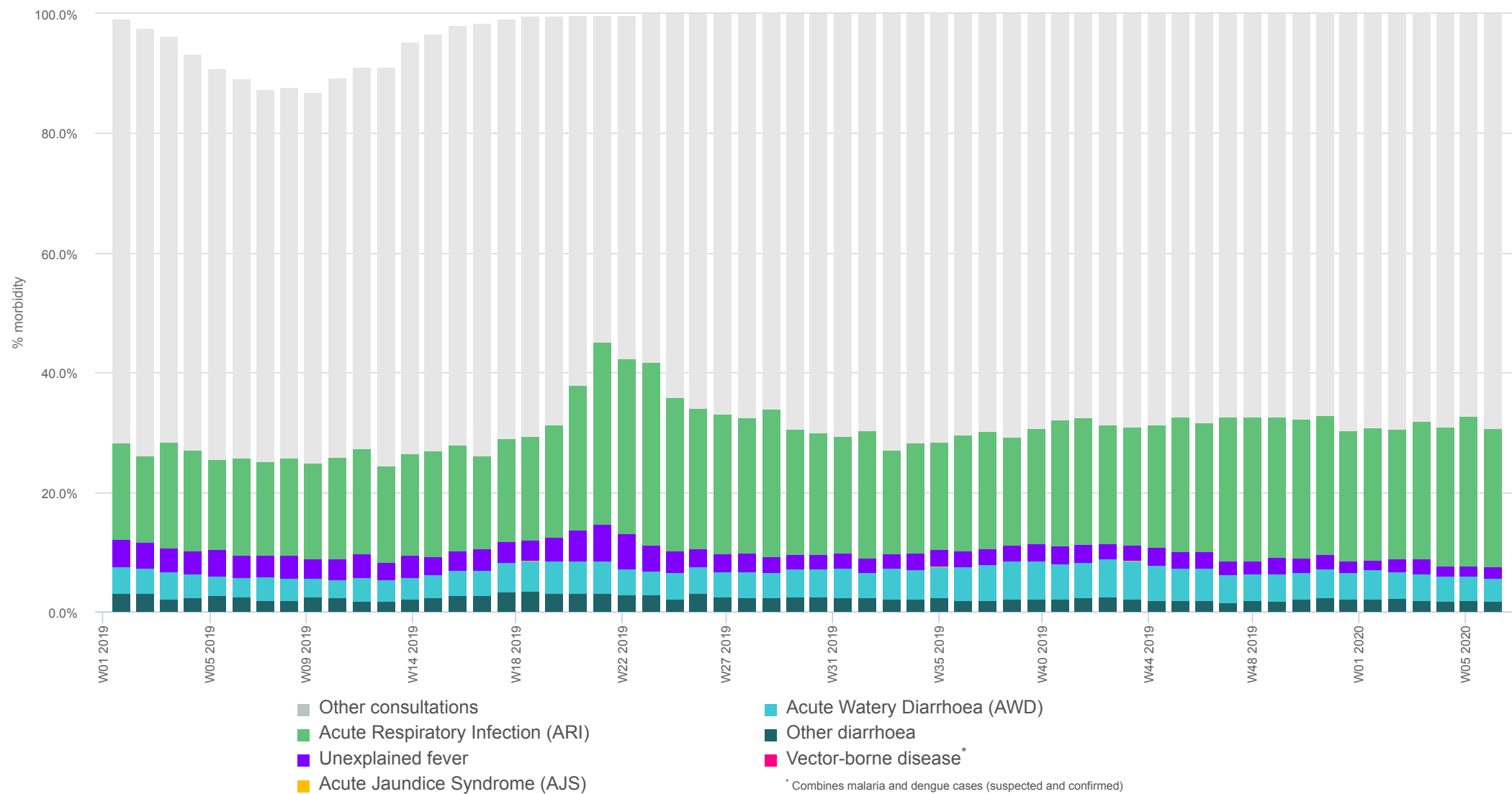
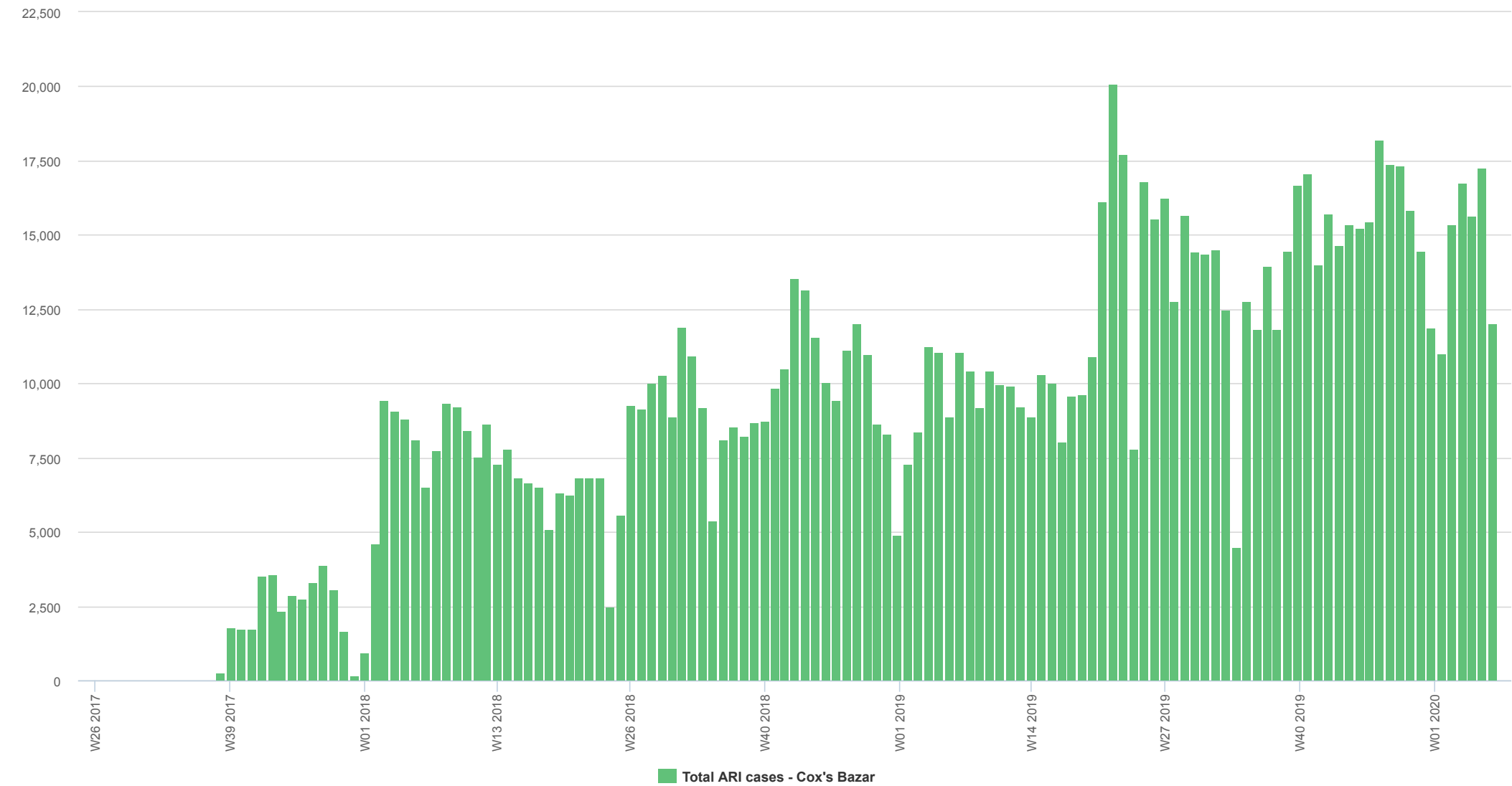
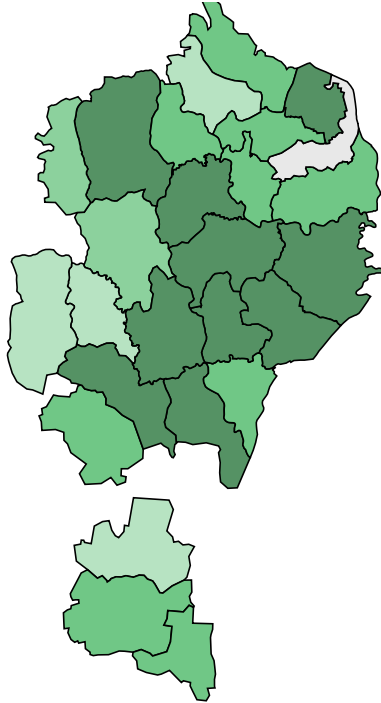


Figure 3 | Trend in number of cases over time (W38 2017 - W6 2020)

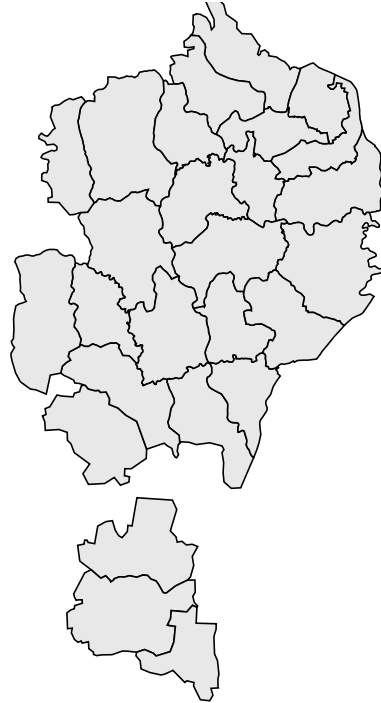


Map 1 | Map of cases by camp (W6 2020)

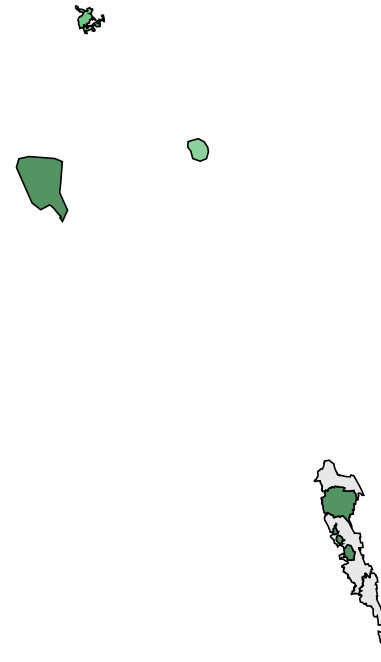
a. Ukhia | Number of cases



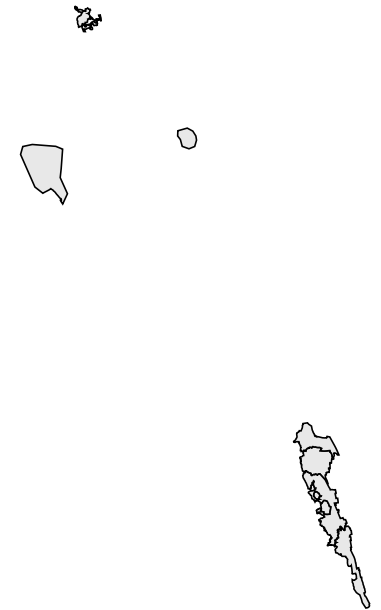
b. Ukhia | Number of alerts



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 (W6 2020)

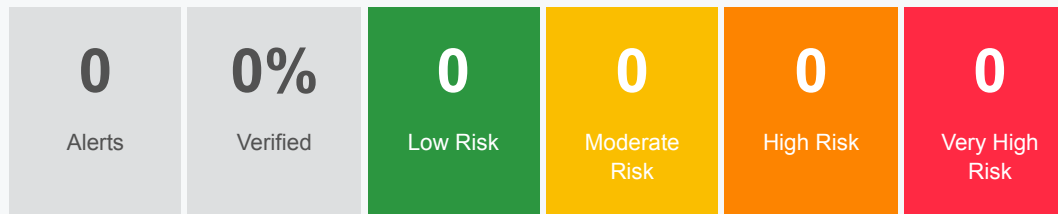


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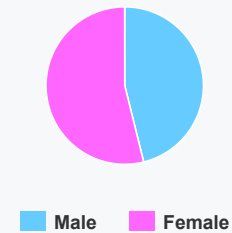


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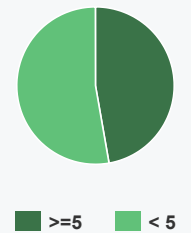
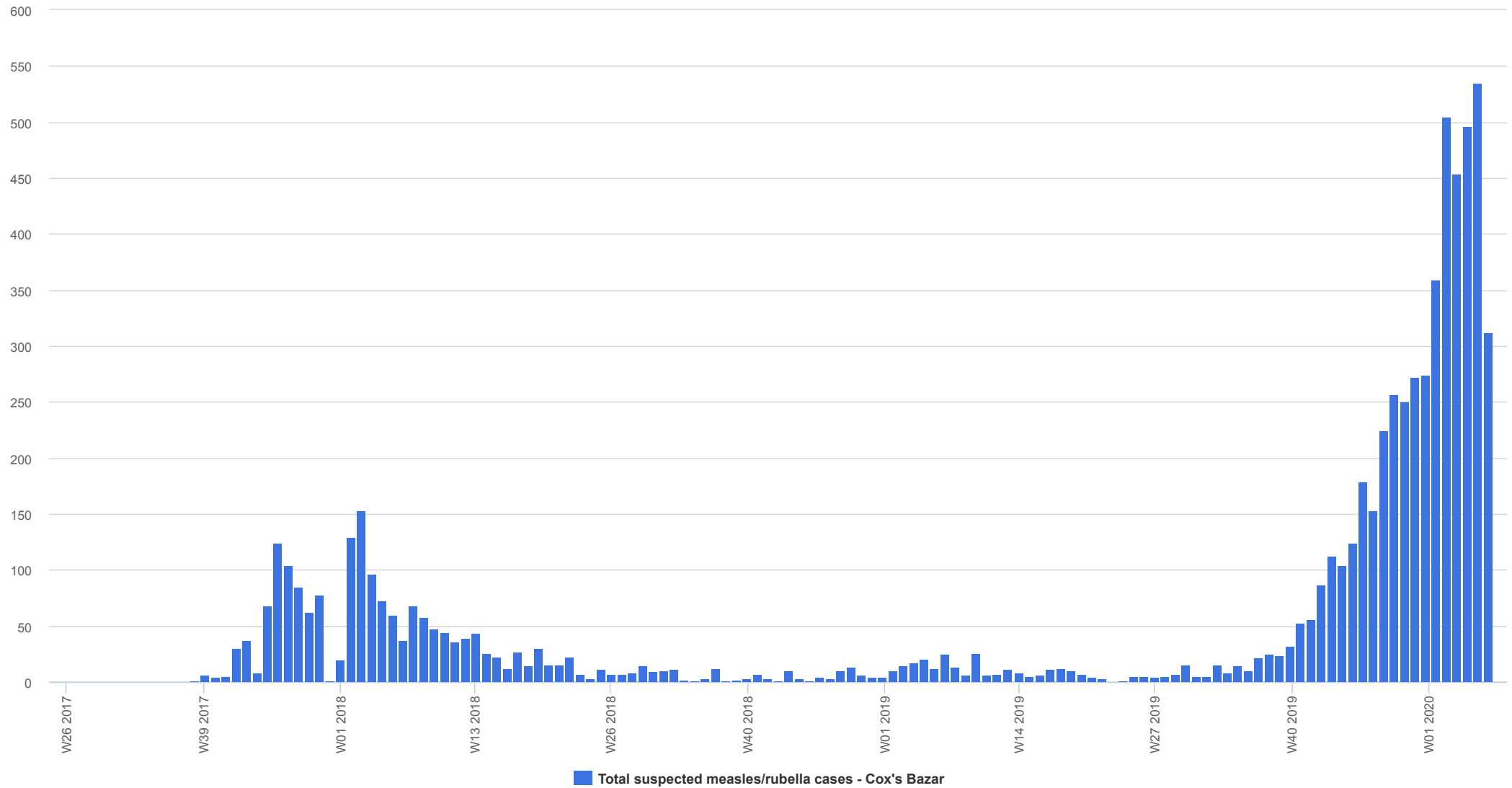
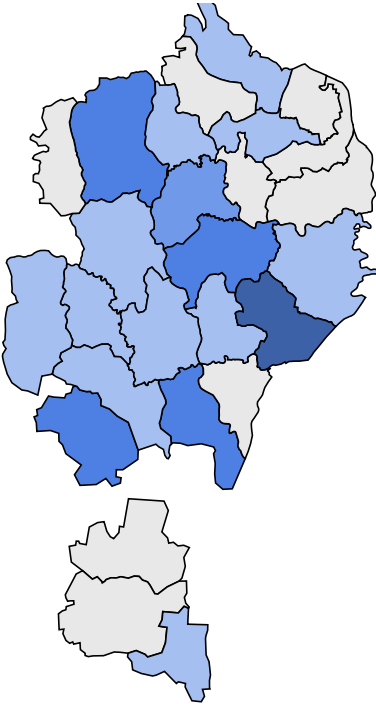


Figure 4 | Trend in number of suspected cases over time (W38 2017 - W6 2020)

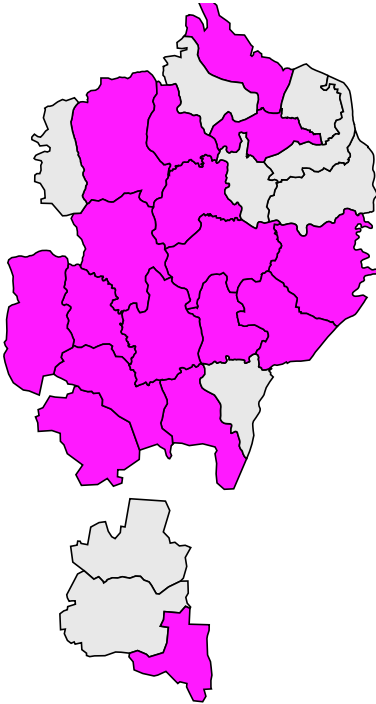


Map 2 | Map of cases by camp (W6 2020)

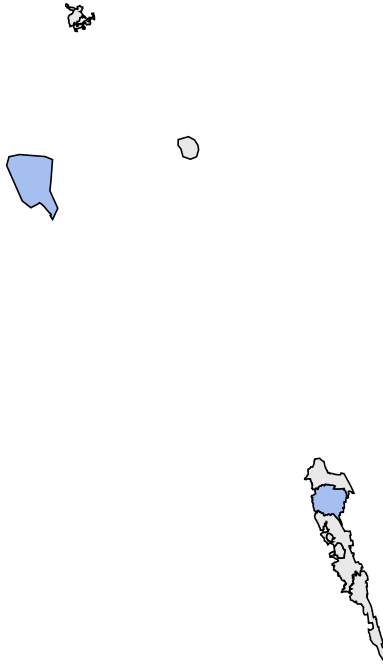
a. Ukhia | Number of cases



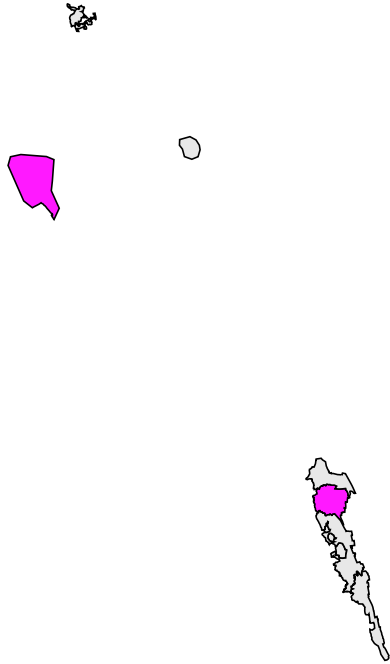
b. Ukhia | Number of alerts



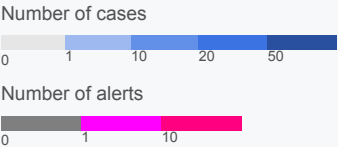
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W6 2020)

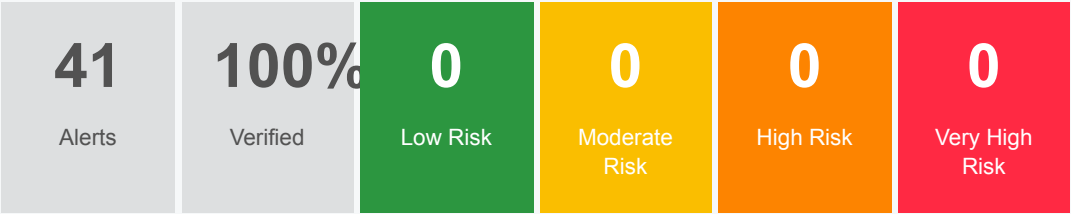


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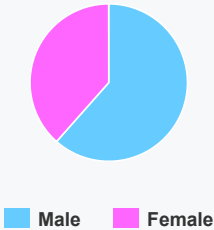
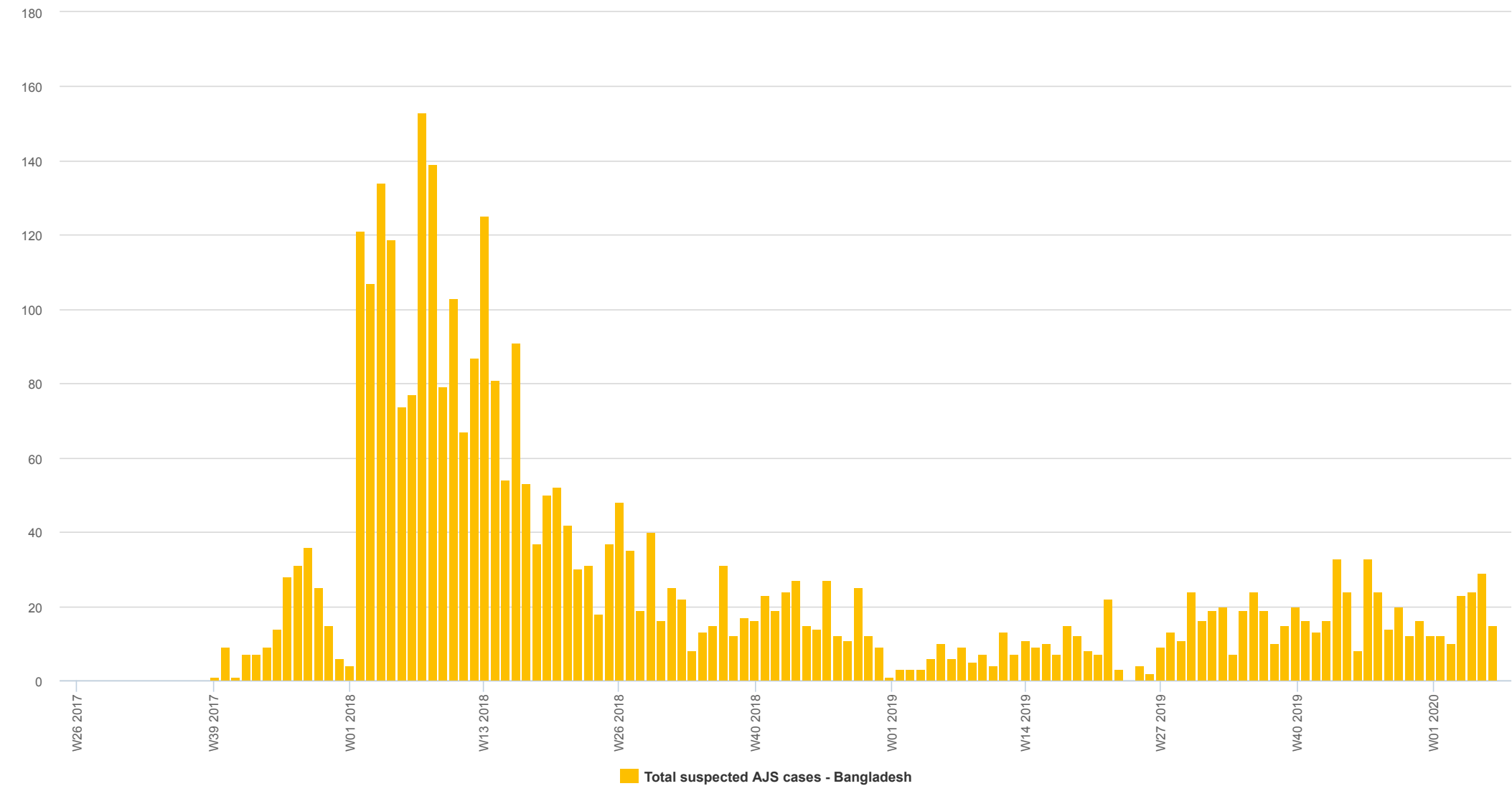


Figure | % age



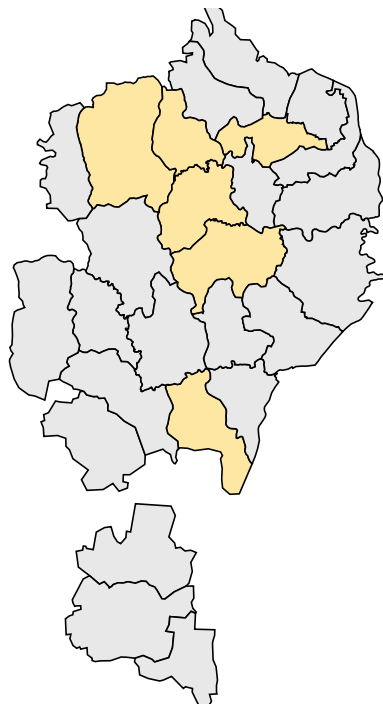
Figure 5 | Trend in number of cases over time (W38 2017 - W6 2020)



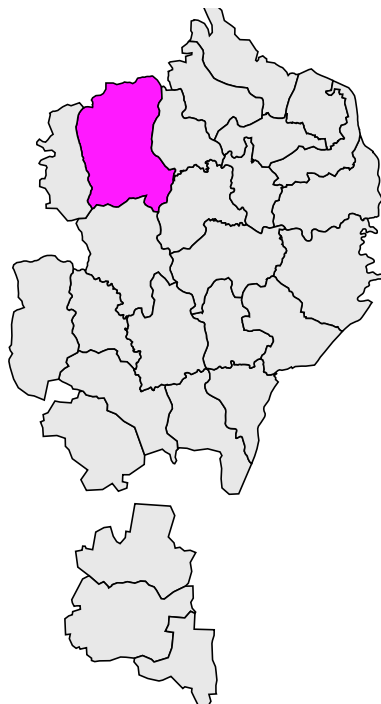
Total suspected AJS cases - Bangladesh

Map 3 | Map of cases by camp (W37 2017 - W6 2020)

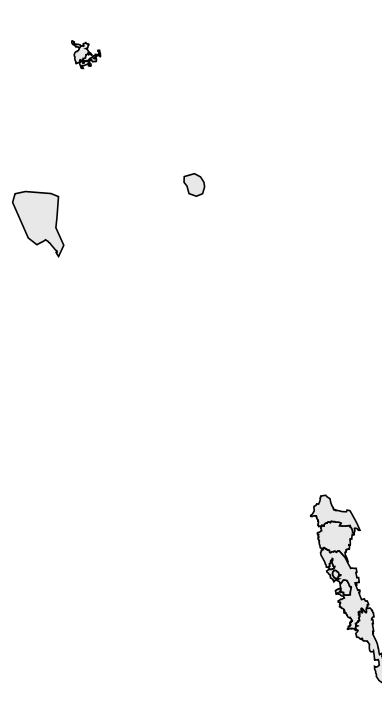
a. Ukhia | Number of cases



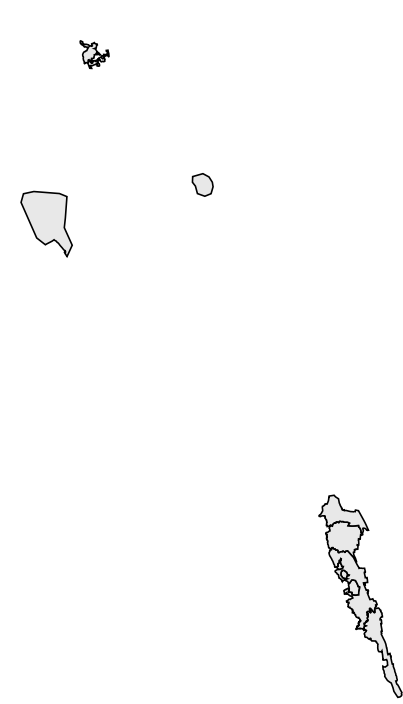
b. Ukhia | Number of alerts



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 (W6 2020)

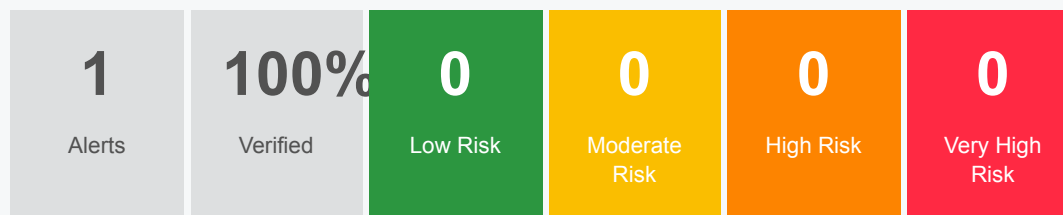
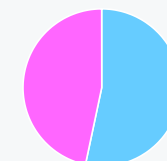
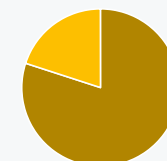


Figure | % sex



Male Female

Figure | % age



>= 5 < 5

Figure 6 | Trend in number of cases over time (W38 2017 - W6 2020)

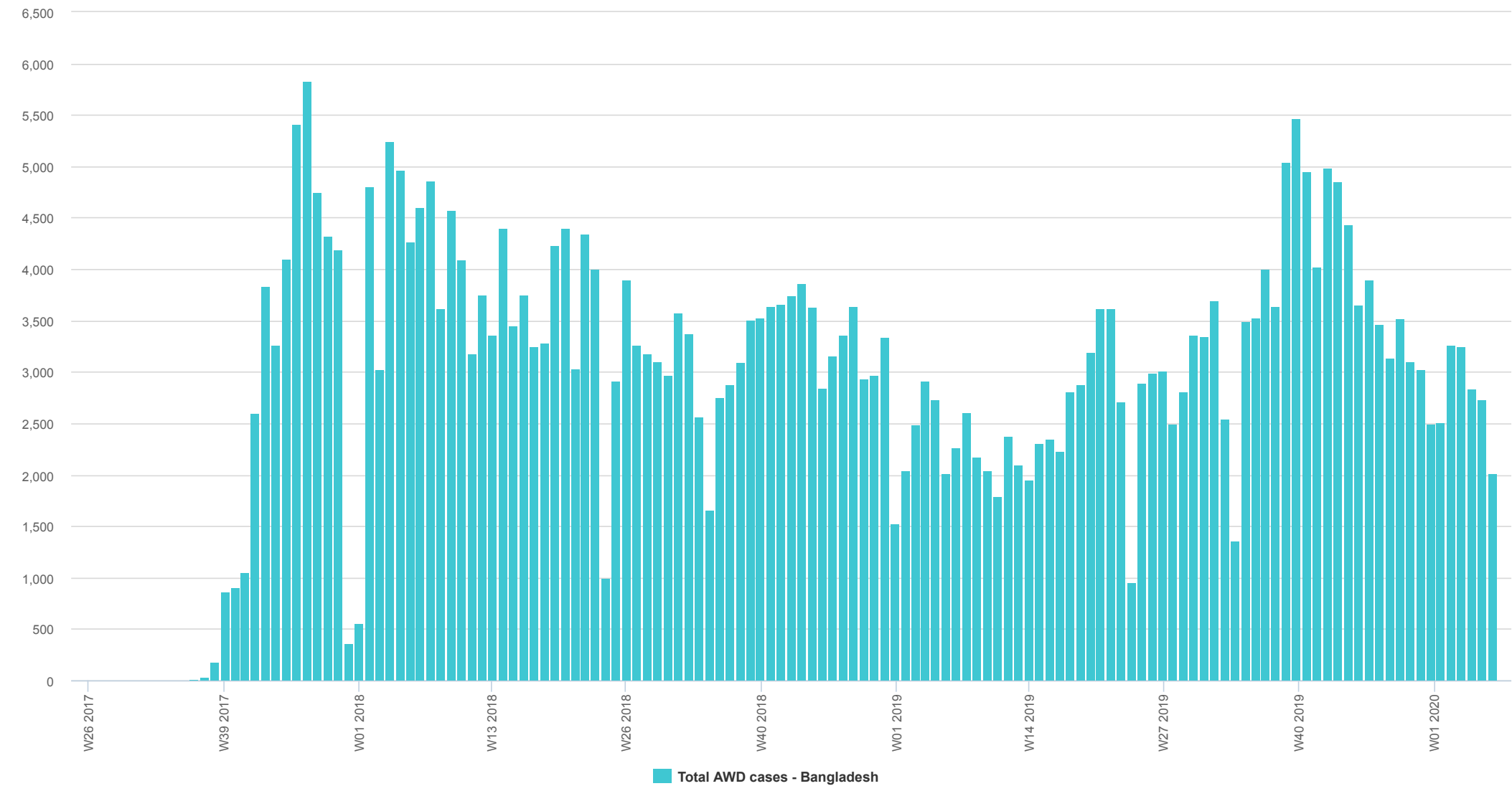
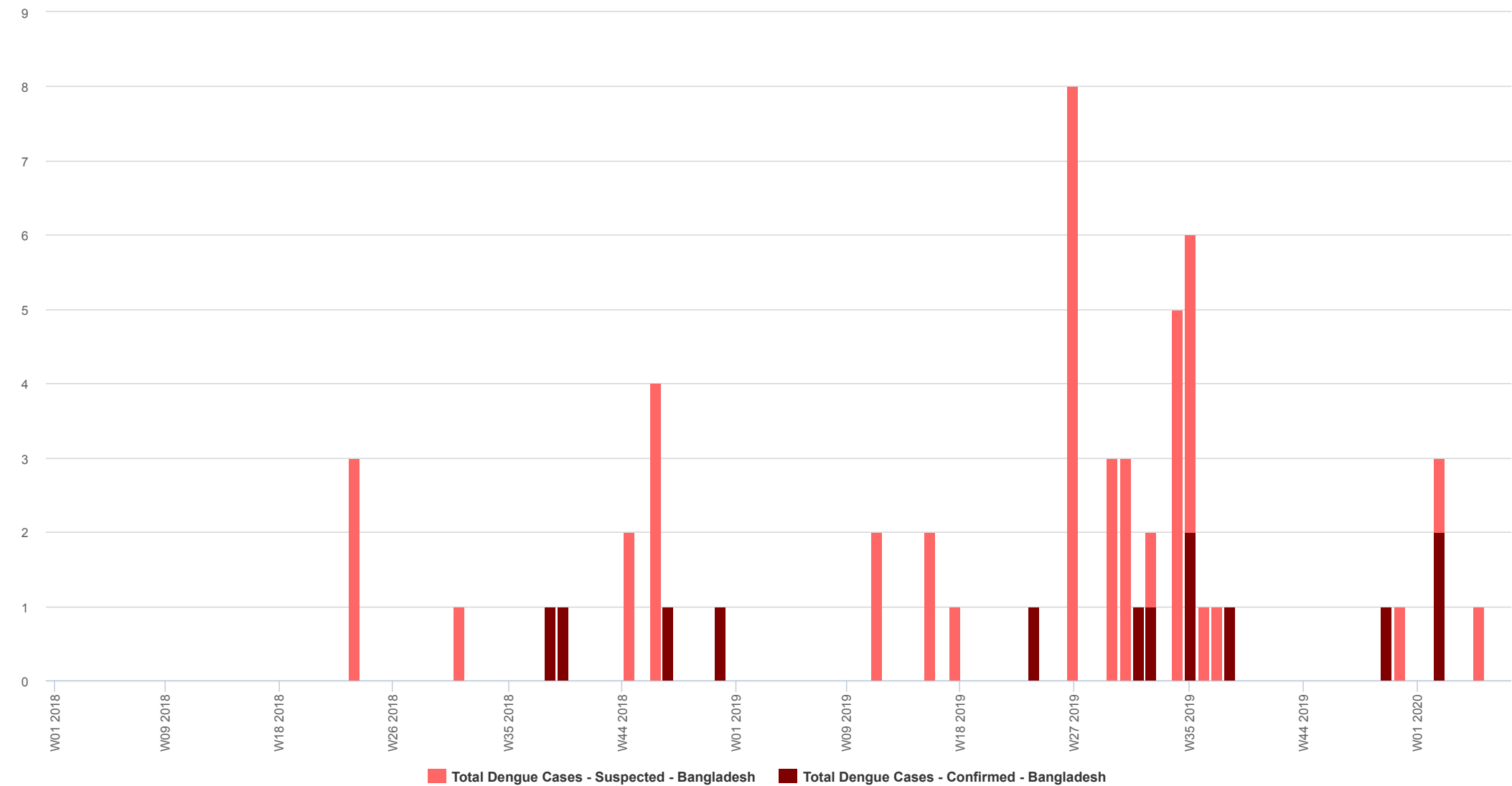
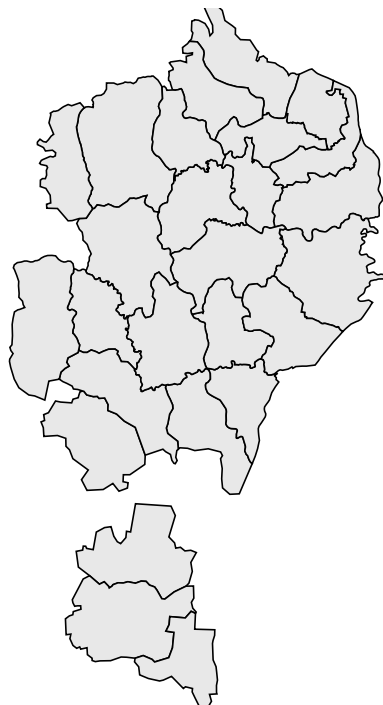


Figure 7 | Trend in number of cases over time (W38 2017 - W6 2020)

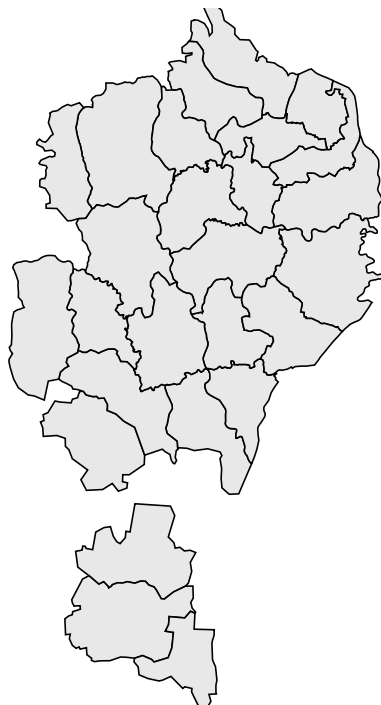


Map 4 | Map of cases by camp (W37 2017 - W6 2020)

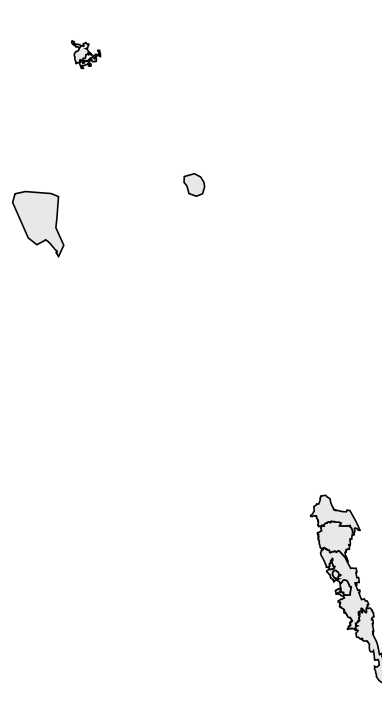
a. Ukhia | Number of cases



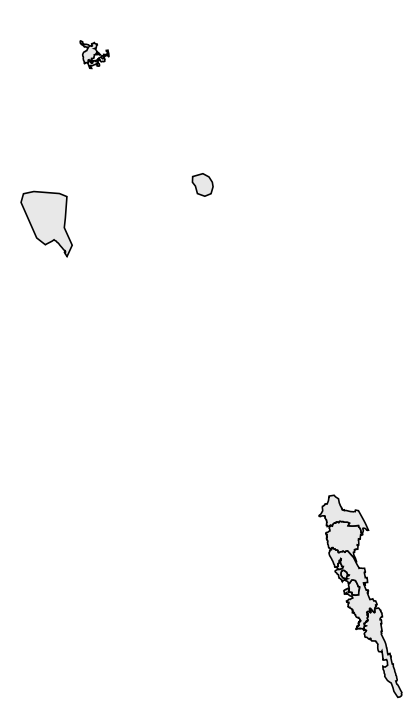
b. Ukhia | Number of alerts



c. Teknaf | Number of cases

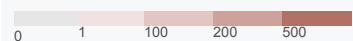


d. Teknaf | Number of alerts



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 (W6 2020)

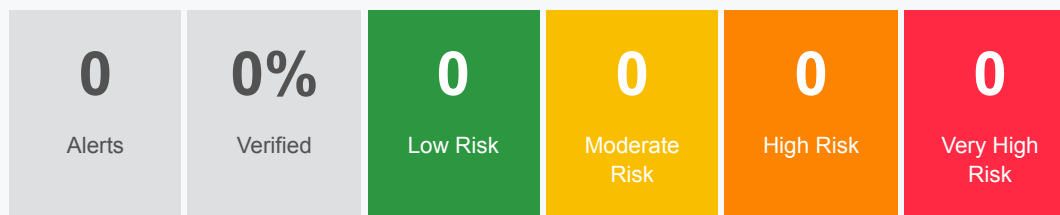


Figure | % sex



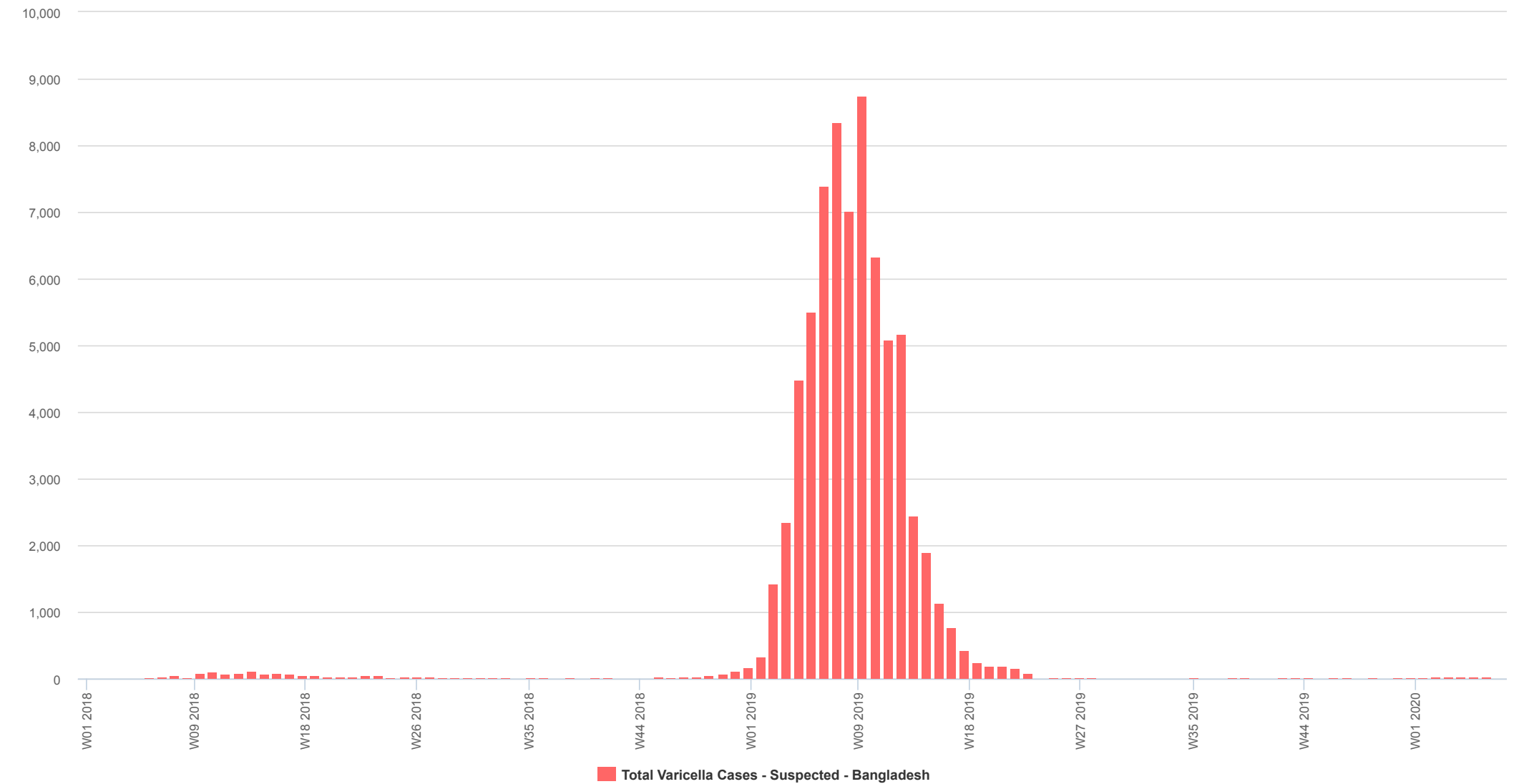
Male Female

Figure | % age



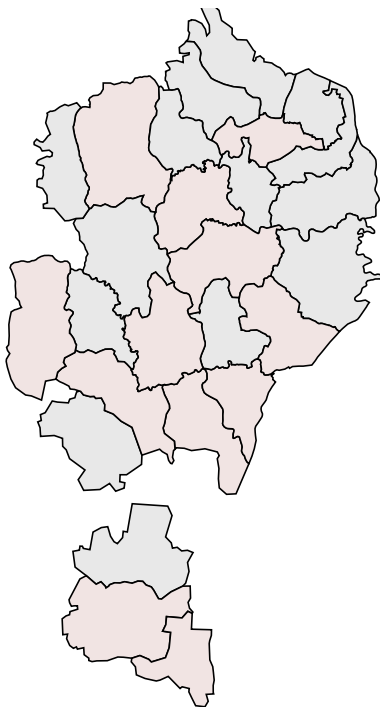
>= 5 < 5

Figure 7 | Trend in number of cases over time (W38 2017 - W6 2020)

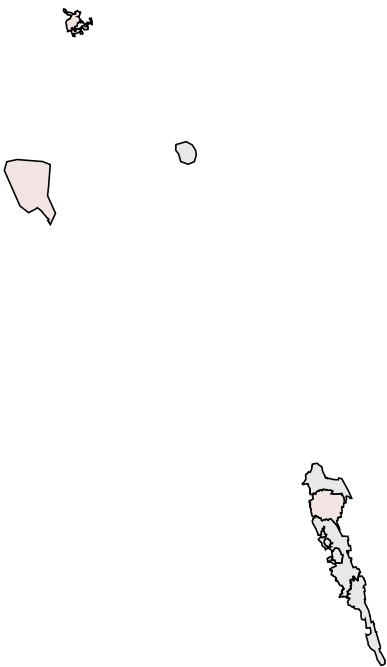


Map 4 | Map of cases by camp (W37 2017 - W6 2020)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

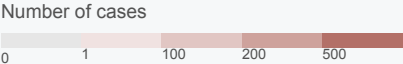


Figure | % sex

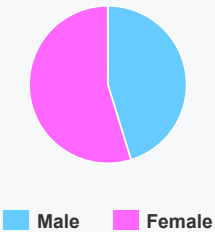
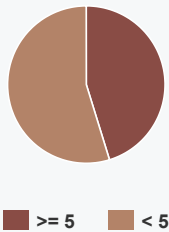


Figure | % age



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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