



Epidemiological Highlights

Week 50 (7-13 Dec 2020)



**World Health
Organization**

Highlights: COVID-19

As of week 50 (07–13 Dec) there are 363 confirmed cases of COVID-19 (SARS-CoV-2), 20 462 samples were tested.

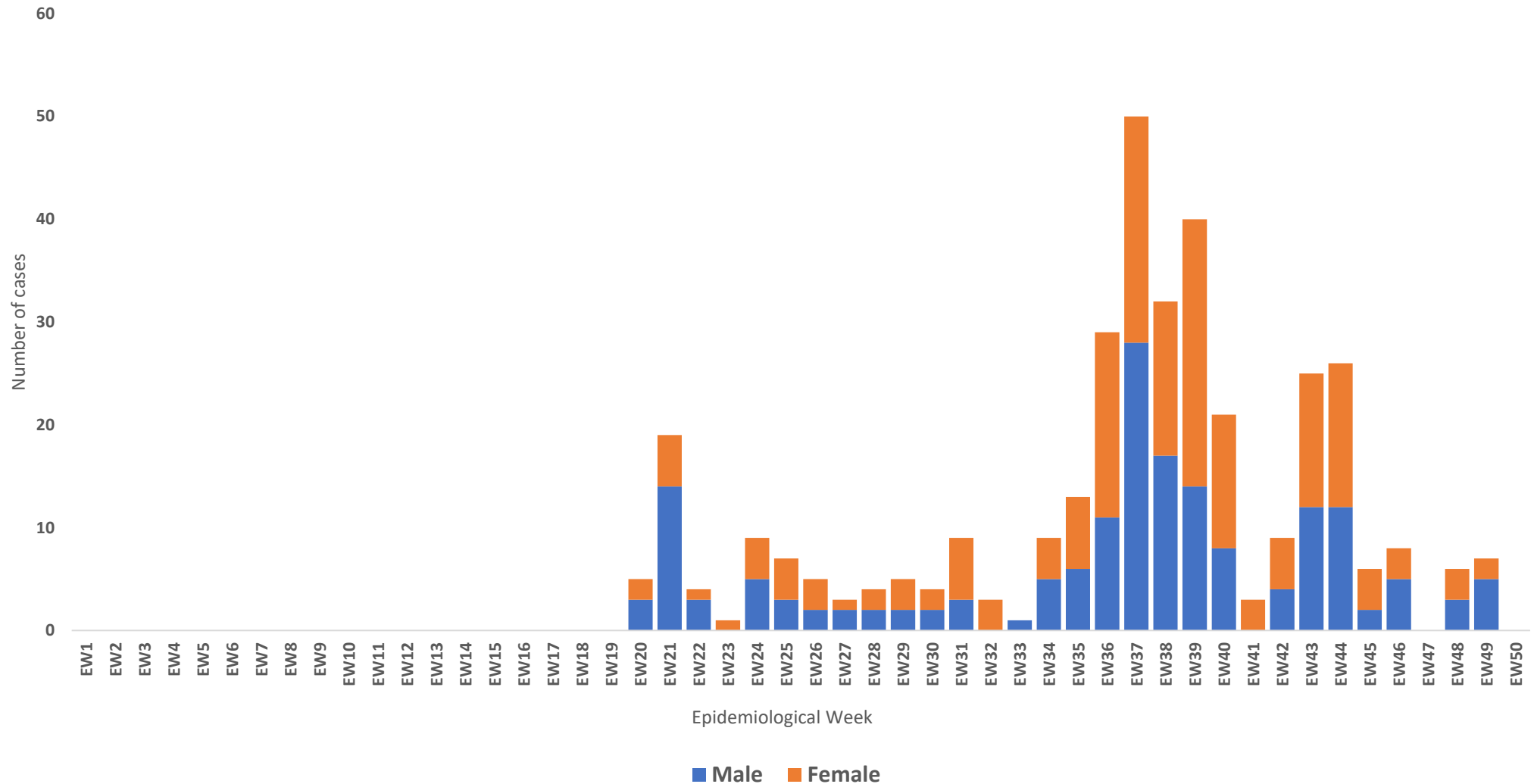
This week (week 50), no new confirmed cases detected, 811 samples were tested, test positivity was 0.0%.

As of this week (week 50)

- all 34/34 camps have confirmed cases
- a total of 10 deaths from COVID-19
- the case fatality rate is 2.8%
- the incidence is 42.2 per 100,000 people
- the overall positivity of all samples tested was 1.8%

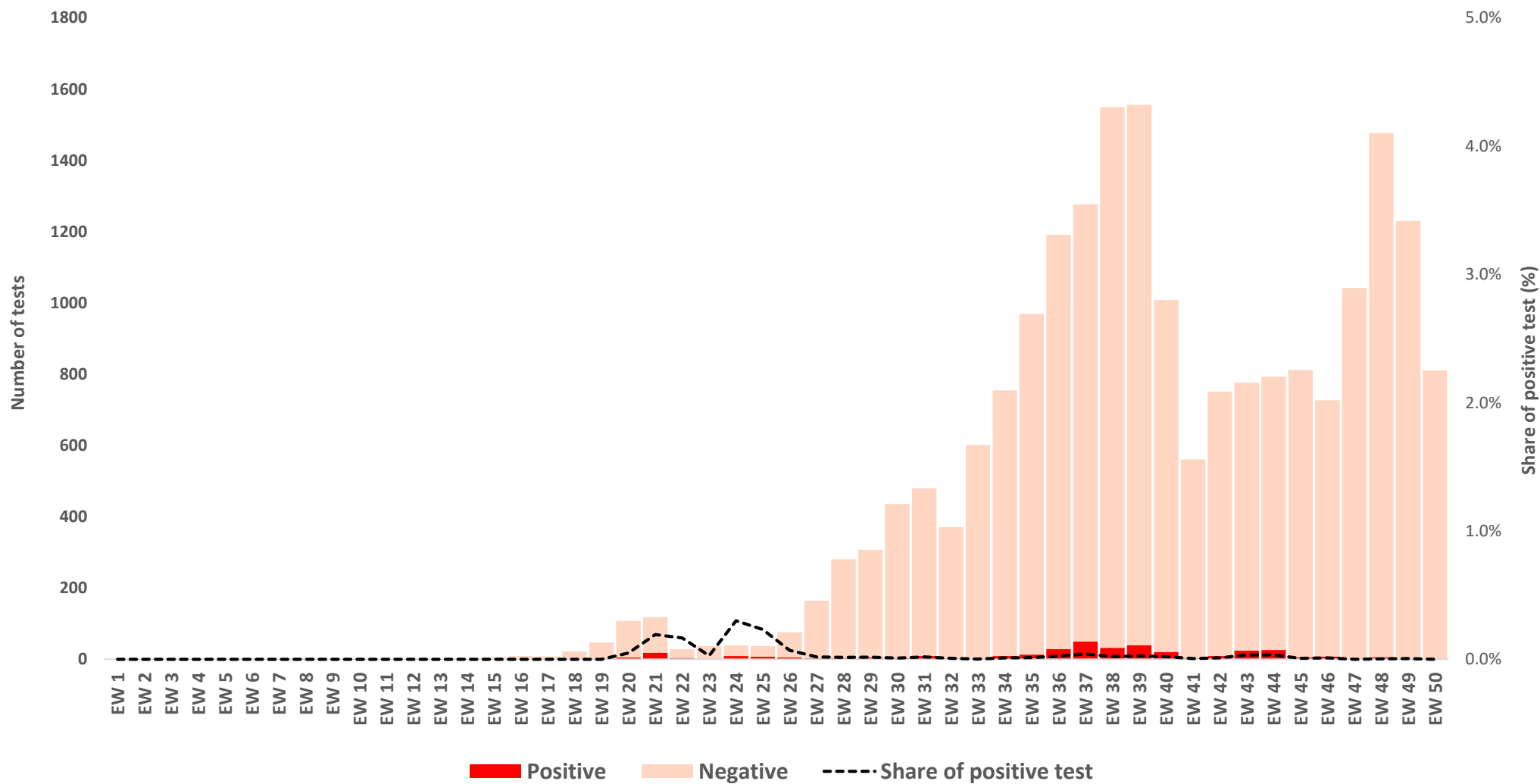
Highlights: COVID-19

COVID-19 positive cases (n=363) by week



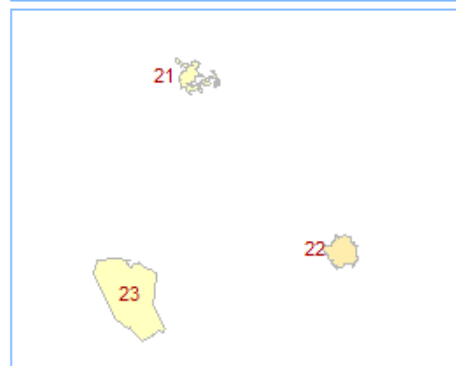
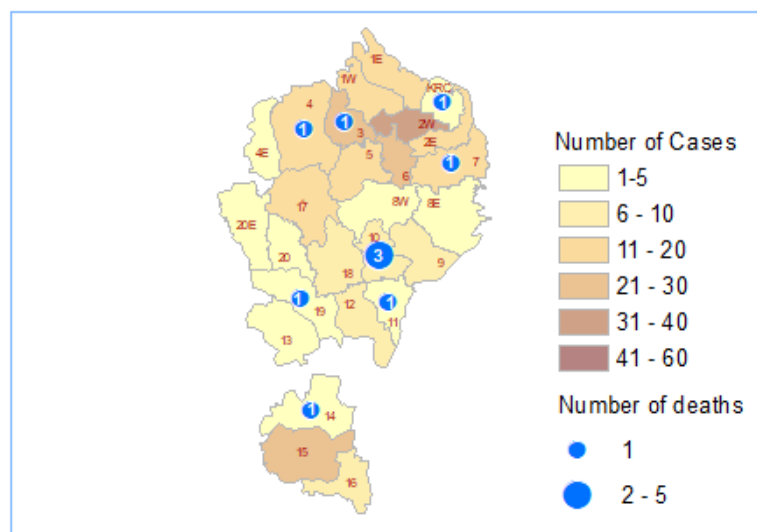
Highlights: COVID-19

Share of positive test (n=363)



Highlights: COVID-19

COVID-19 Cases in Rohingya Camps (As of 13 December 2020)

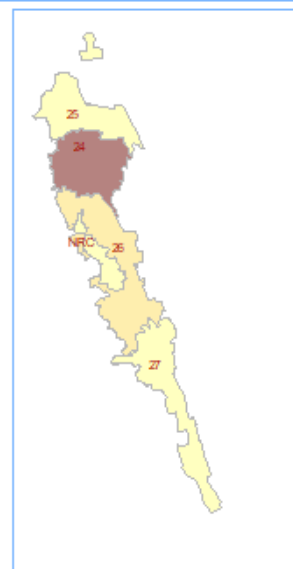


363 Confirmed cases in FDMN/Rohingya Refugee Camps

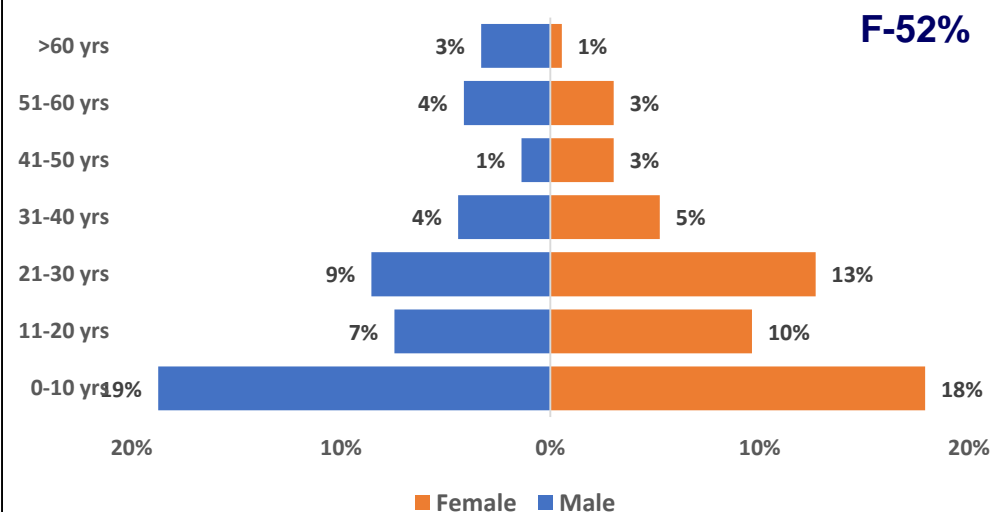
422 Confirmed cases/ 1 Million

10 Deaths in FDMN/Rohingya Refugee Camps

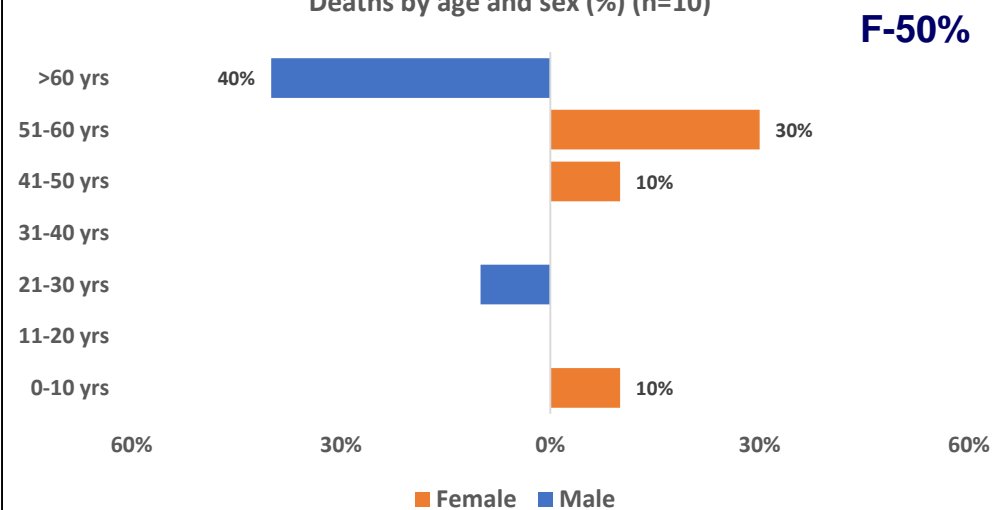
12 Deaths/ 1 Million



Age and sex distribution (%) (n=363)

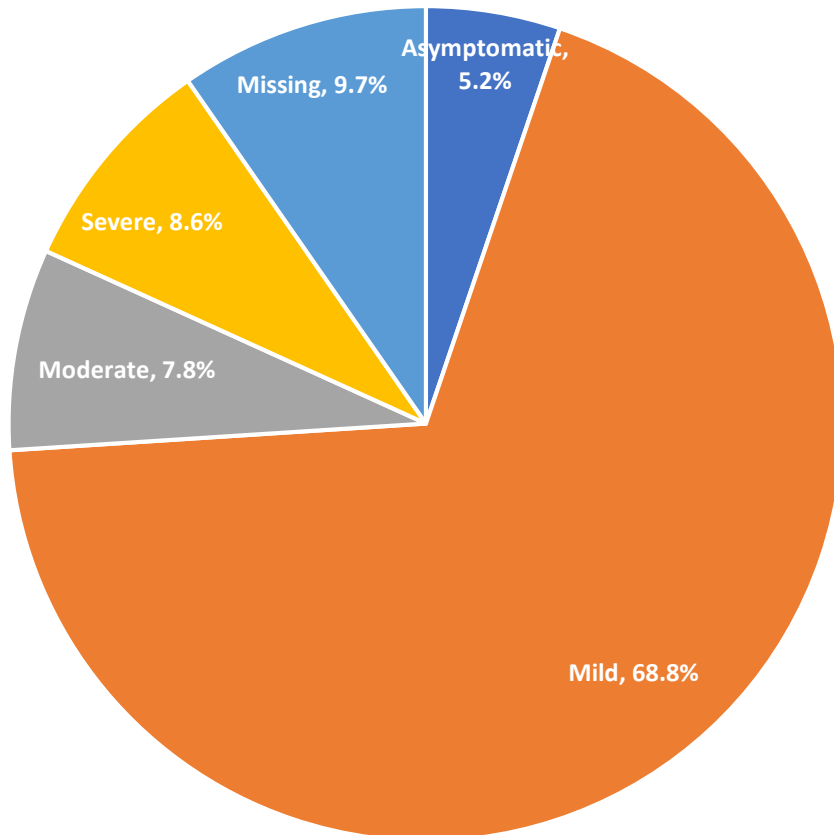


Deaths by age and sex (%) (n=10)

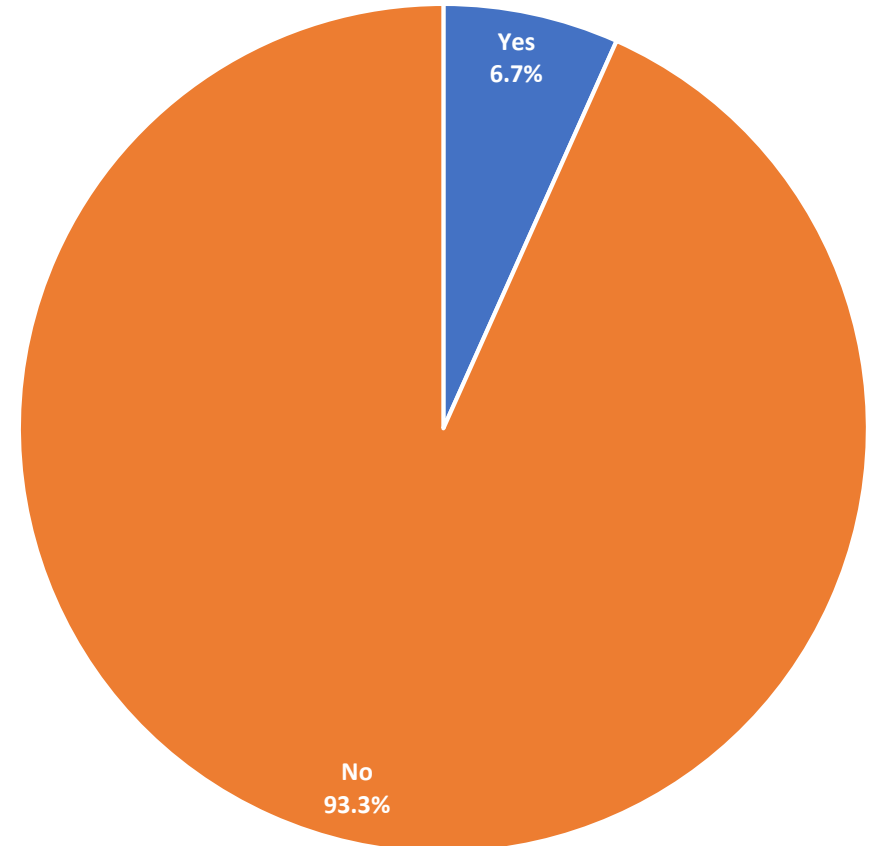


Highlights: COVID-19

Severity of reported cases at presentation (n=269)



Did the case report at least 1 co-morbidity (n=269)



Source: Go.Data

EWARS Reporting Updates

- Total 146/166 (88%) health facilities registered in EWARS
- Only 132/146 weekly reports received in week 50.
- Completeness and timeliness respectively for this week is 85% and 79%.
- Total 78 alerts were triggered in week 50.
- All alerts were reviewed and verified by WHO EWARS team which is more than that of previous week (60 in week 49).

Highlights:

- Acute Respiratory Infection (20.2%), Diarrheal Diseases (5.5%) & Unexplained Fever (1.2%) are the diseases with highest proportional morbidity in week 50.
- Community-based mortality surveillance included SARI death in weekly reporting since week 28 and the reporting frequency changed since then from bi-weekly. Seventeen (17) SARI death has been reported so far.

Diphtheria

1 suspected diphtheria case reported in go.data in week 50

A total of 9 180 case-patients were reported since 2017 to till date

- Confirmed = 339
- Probable = 2776
- Suspected = 6065

Total Case reported in 2020 = 220

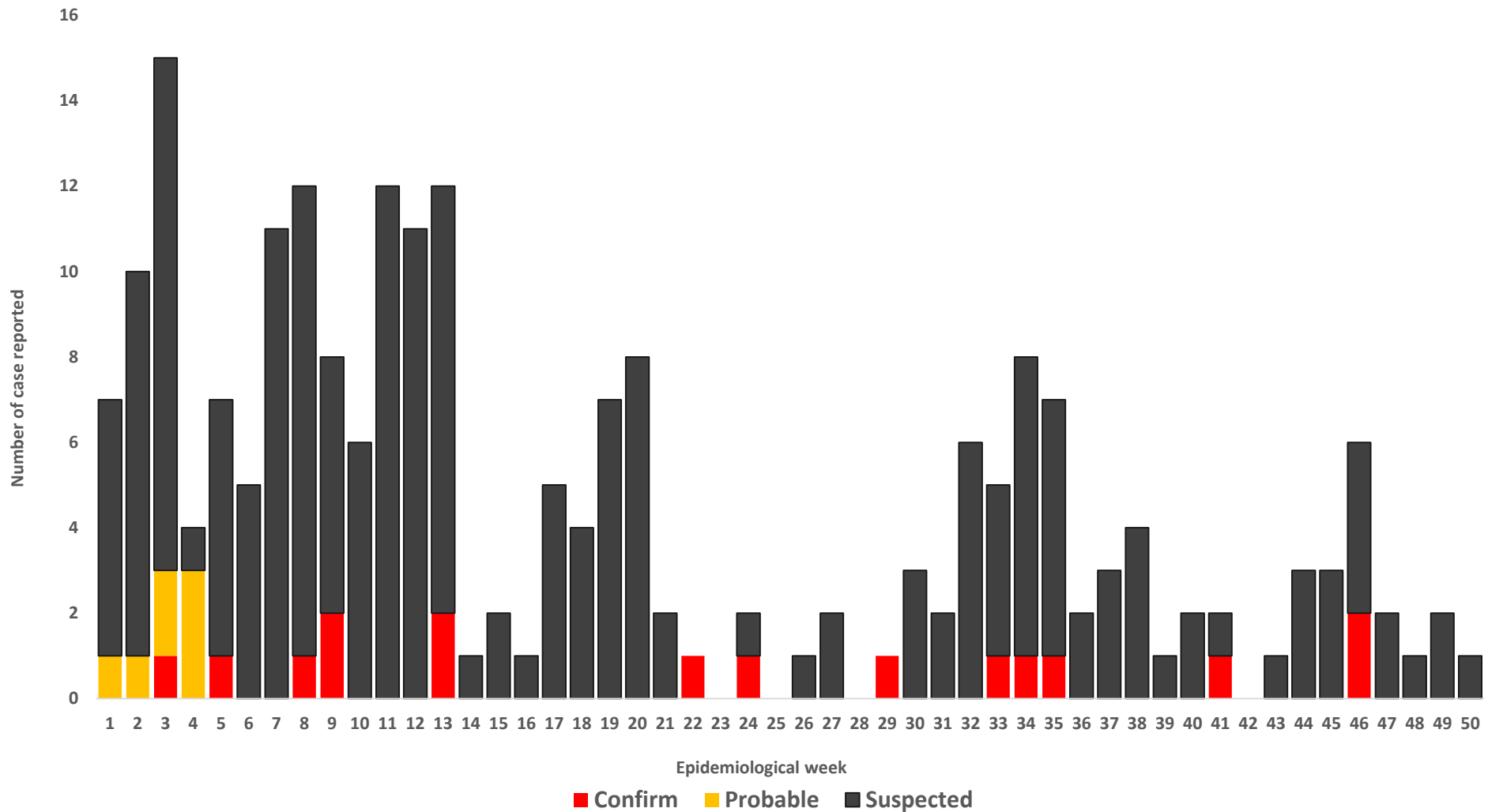
- Confirmed = 16
- Probable = 7
- Suspected = 197

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

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

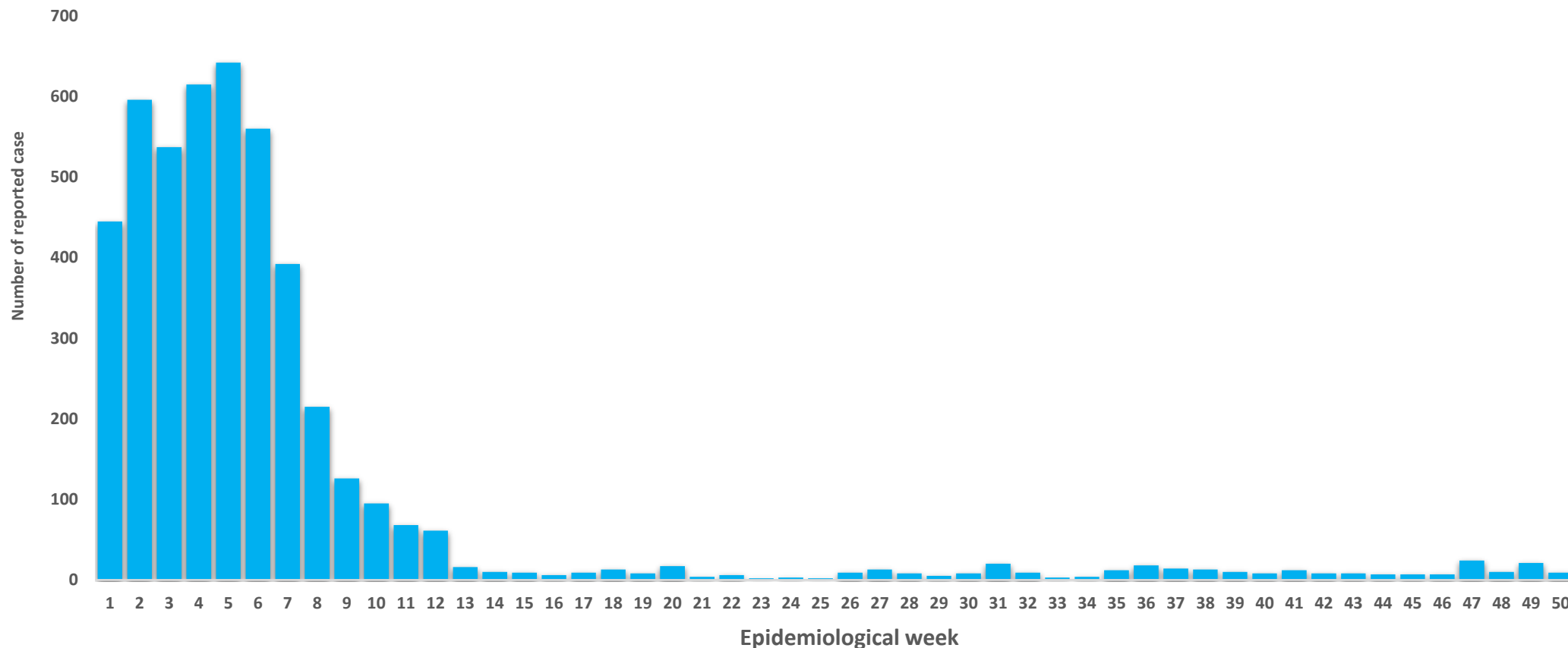
Diphtheria

Total number of diphtheria case reported in EWARS from week 1-50 2020



Measles

Total number of Measles case reported in EWARS from week 1-50, 2020



Total 9 suspected measles cases were reported through aggregated weekly reporting in EWARS in week 50. Aggregated weekly report showed 4,678 and individual case report (CRF) found 2,634 (56.3%) in 2020.

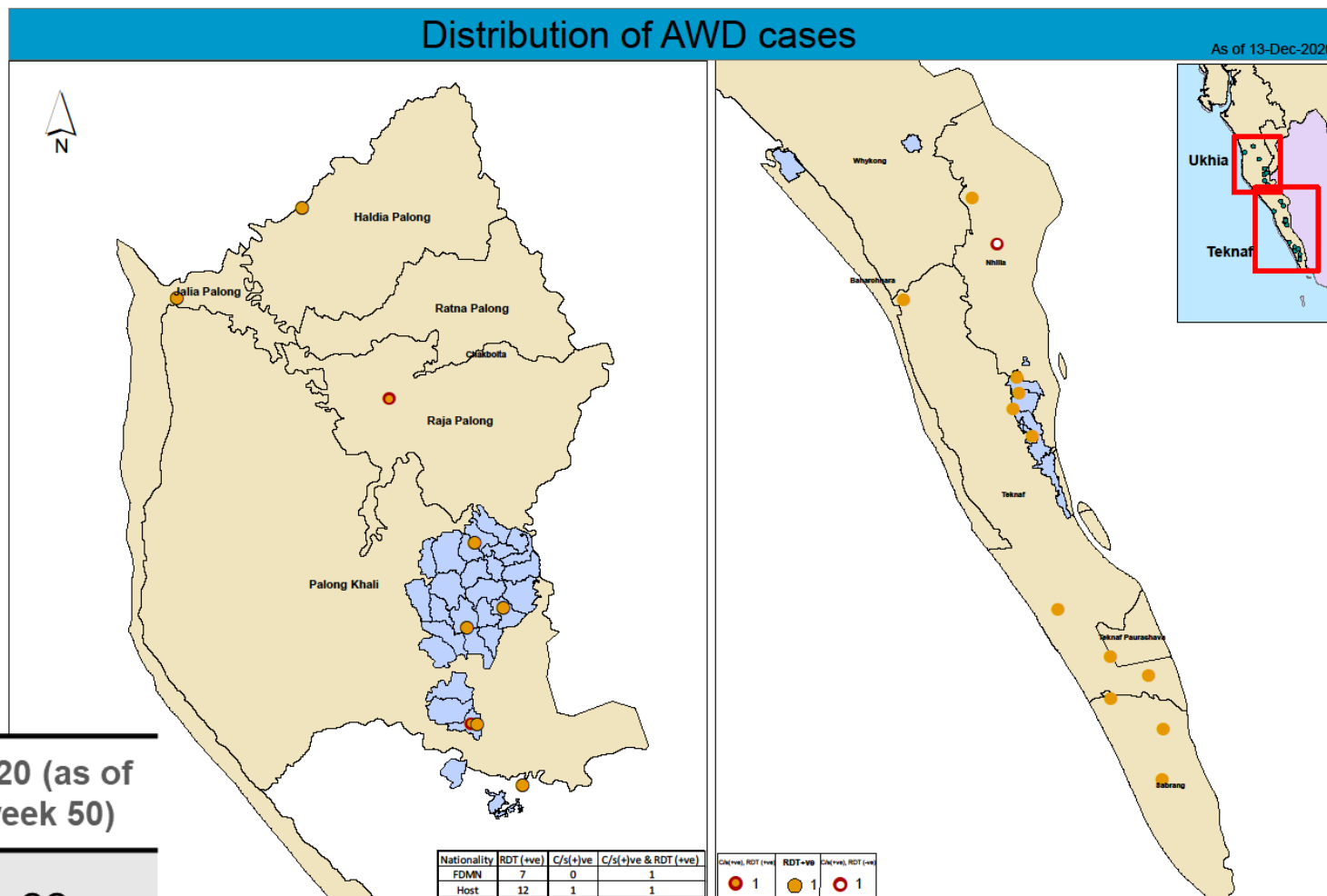
Diarrhoeal Disease

- A total of 4,433 cases of diarrhoeal diseases reported in EWARS in week 50.
- Among which 2,918 cases (3.6%) reported as acute watery diarrhoea (AWD), 1,186 (1.5%) and 329 (0.4%) cases as other diarrhea and bloody diarrhea respectively.
- Diarrhoeal diseases are the second highest contributor of proportional morbidity after acute respiratory infection (ARI).

Cholera Surveillance

Distribution of AWD cases

As of 13-Dec-2020



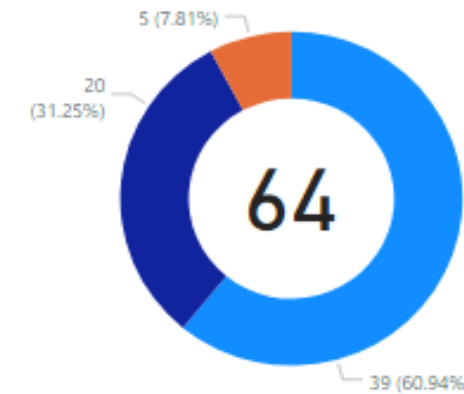
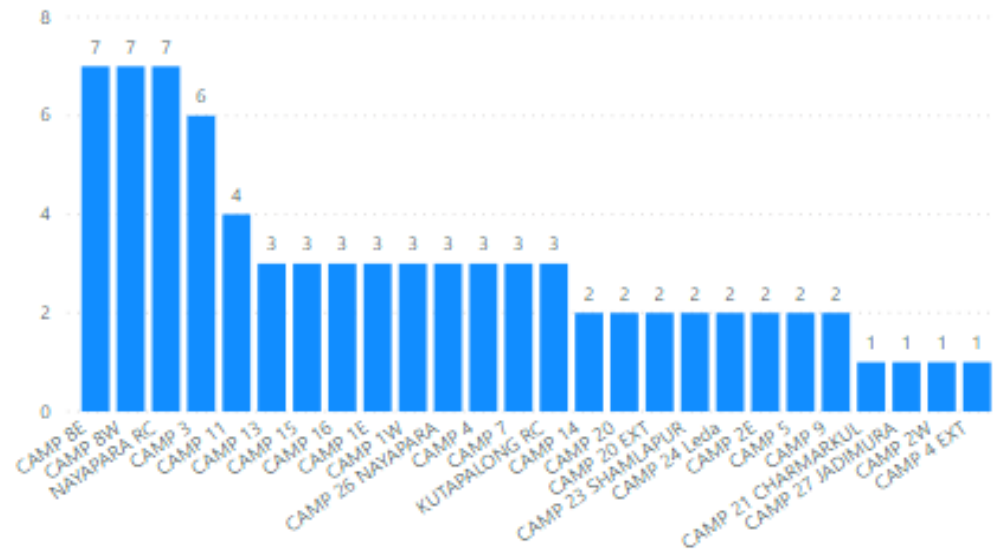
Year	2018	2019	2020 (as of week 50)
RDT + (ve) for Cholera	49	258	22
Culture Confirmed for Cholera	7	184	3

Community-based Mortality surveillance

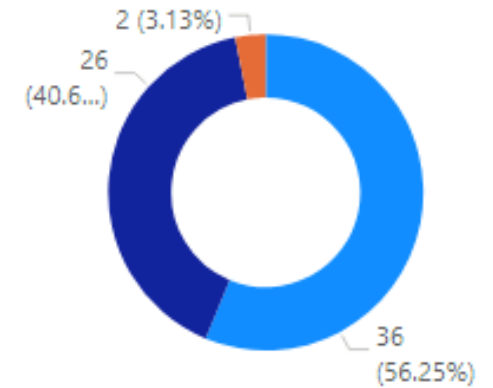
- In week 50 total of 64 deaths were recorded, 73% (n=47) were due to causes classified as “Others”, 9% (n=6) as Still birth (Born Dead), 9% (n=6) as Neonatal (<28 days old), 3% (n=2) as Infectious disease and 5% (n=3) as Severe acute respiratory infection (SARI)
- 31.3% of deaths reported in the health facility 56.3% of deaths reported in homes and 3.1% deaths reported from Community/ Public place.
- Partners to report **all mortalities** into EWARS using the “Community-based mortality surveillance” form.

Community-based Mortality Surveillance

Camp wise Deceased Case Distribution

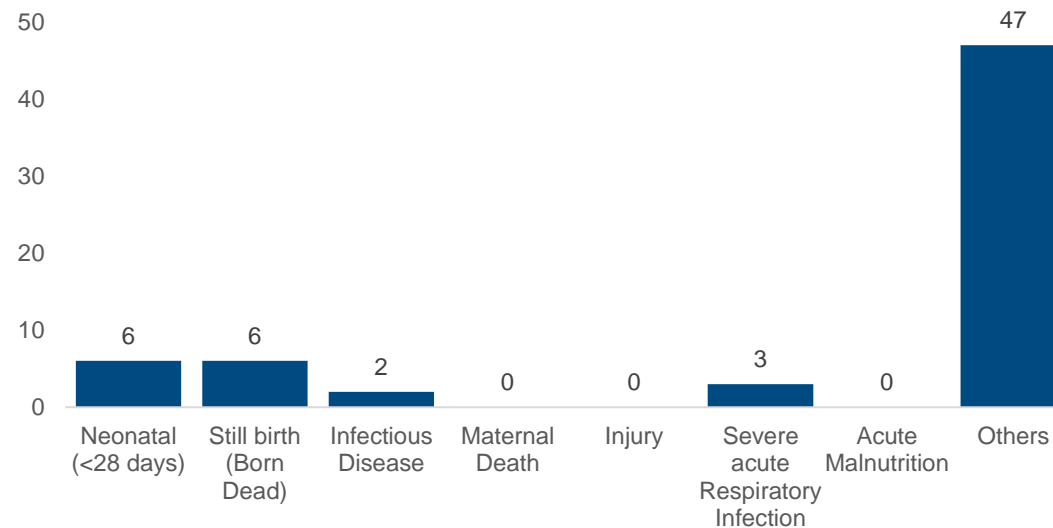


Place of d... ● HOME ● HEALTH FACILI... ● COMMU...



Gender ● MALE ● FEMALE ● Unknown

Probable Cause of Death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W50 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 W50 2020

Table 1 | Coverage

#	%	
854,704	-	Estimated total Rohingya population ¹
854,704	100%	Total population under surveillance
166	-	Total number of health facilities
146	88%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W50	Cumulative (2020)	
132	7354	Number of weekly reports received
85%	90%	Completeness
79%	80%	Timeliness

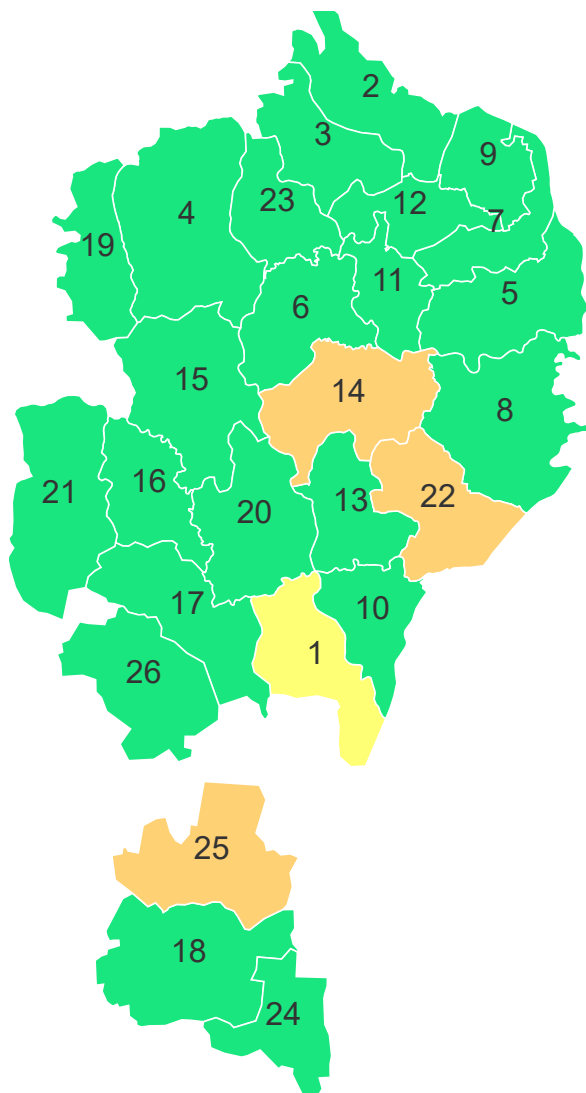
Table 3 Alert performance indicators

W50	Cumulative (2020)	
78	3,337	Total alerts raised
100%	100%	% verified
0%	0%	% auto-discarded
0%	0%	% undergoing risk assessment
2%	0%	% completed risk assessment

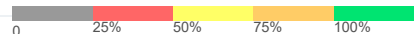
¹ Source: UNHCR. Bangladesh: Joint Government of Bangladesh- UNHCR Population Factsheet. 31 December 2019.

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

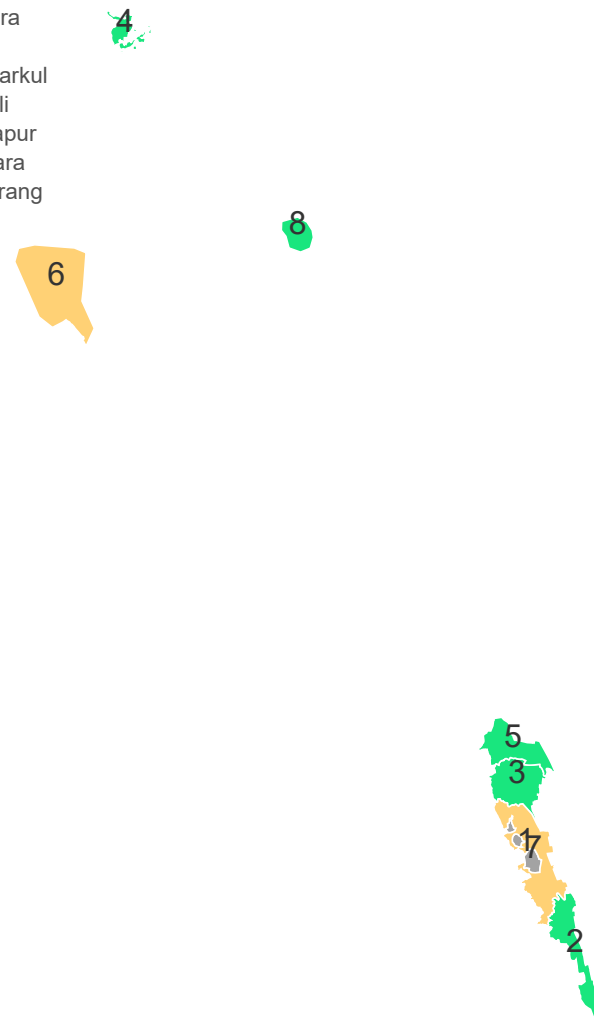


Completeness



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 (W50 2020)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	4	100%	100%
Camp 1W	4	4	100%	75%
Camp 2E	1	1	100%	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	3	100%	100%
Camp 7	6	5	83%	83%
Camp 8E	7	7	86%	86%
Camp 8W	6	4	67%	67%
Kutupalong RC	1	2	100%	100%

Map 2 | Completeness by camp

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

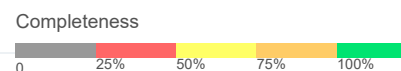
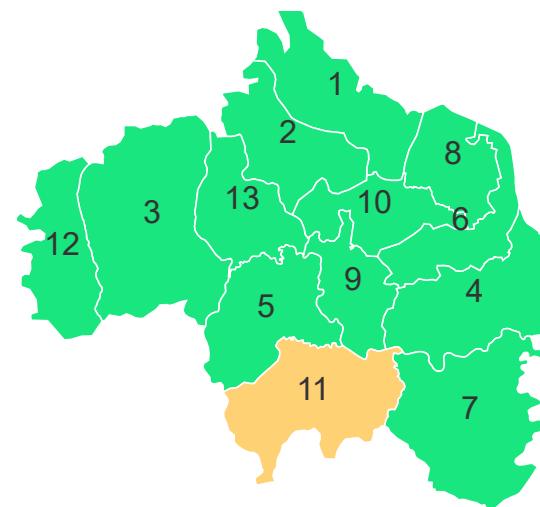
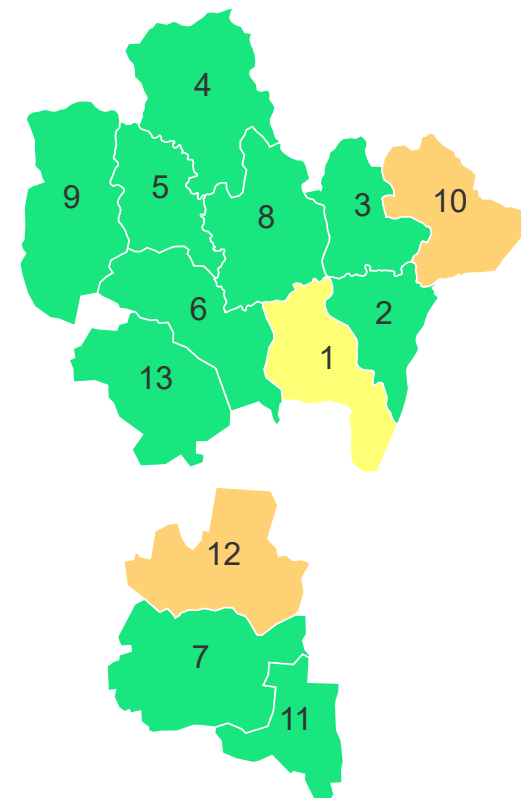


Table 5 | Performance by camp (W50 2020)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	100%
Camp 11	9	9	100%	100%
Camp 12	6	3	40%	40%
Camp 13	9	7	78%	78%
Camp 14	6	4	67%	67%
Camp 15	10	7	78%	78%
Camp 16	5	5	100%	100%
Camp 17	5	4	80%	60%
Camp 18	5	4	80%	80%
Camp 19	5	5	100%	80%
Camp 20	3	3	100%	100%
Camp 20 Ext	2	2	100%	100%
Camp 9	7	4	67%	50%

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



Completeness



Table 6 | Performance by camp (W50 2020)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	4	4	100%	75%
Camp 22 Unchiprang	5	3	75%	75%
Camp 23 Shamlapur	4	2	67%	67%
Camp 24 Leda	1	1	100%	100%
Camp 25 Ali Khali	3	3	100%	67%
Camp 26 Nayapara	3	3	67%	33%
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

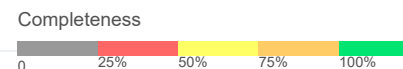
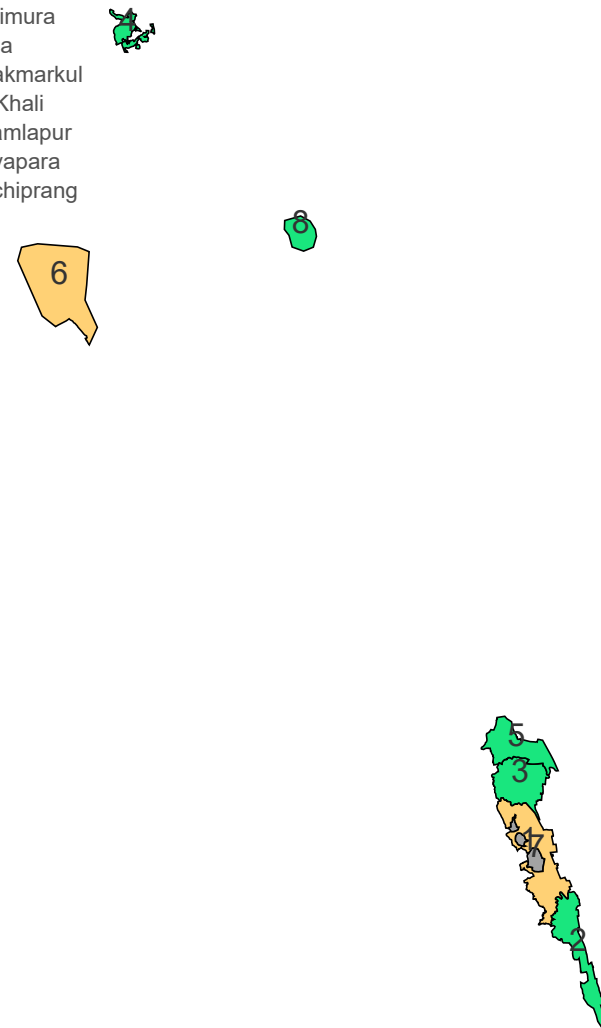


Table 7 | Performance by partner (W50 2020)

Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
BDRCS	9	6	67%	56%
BRAC	11	11	100%	100%
CARE	4	0	0%	0%
FHM	0	0		
FRNDS	12	11	92%	92%
GK	9	9	100%	100%
HMBDF	1	1	100%	100%
IOM	21	14	67%	67%
IRC	2	2	100%	100%
MSF	9	6	67%	44%
MoH	1	1	100%	100%
Hope	1	1	100%	100%
Medair	2	2	100%	100%

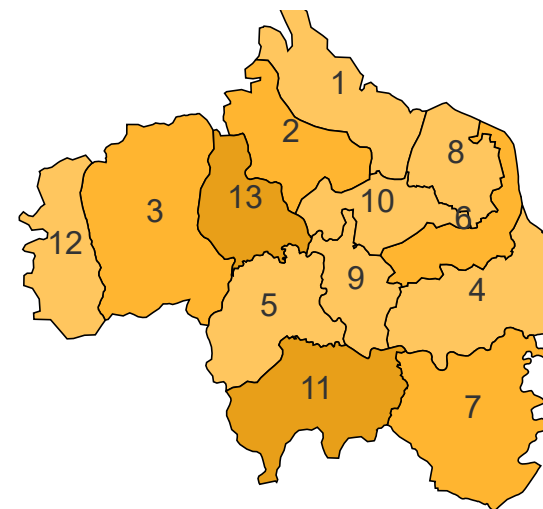
Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
FH/MTI	3	3	100%	100%
PHD	8	8	100%	100%
PWJ	1	1	100%	100%
RHU	1	1	100%	100%
RI	3	3	100%	100%
RTMI	9	9	100%	100%
SCI	9	9	100%	78%
TdH	1	0	0%	0%

Table 8 | Performance by camp

Northern group	W50		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	1	100%	74	100%
Camp 1W	3	100%	68	100%
Camp 2E	4	100%	85	100%
Camp 2W	2	100%	77	100%
Camp 3	6	100%	244	100%
Camp 4	3	100%	188	100%
Camp 4 Ext	1	100%	28	100%
Camp 5	1	100%	162	100%
Camp 6	1	100%	39	100%
Camp 7	1	100%	64	100%
Camp 8E	4	100%	45	100%
Camp 8W	8	100%	173	100%
Kutupalong RC	2	100%	29	100%

Map 5 | Number of alerts by camp

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



of alerts

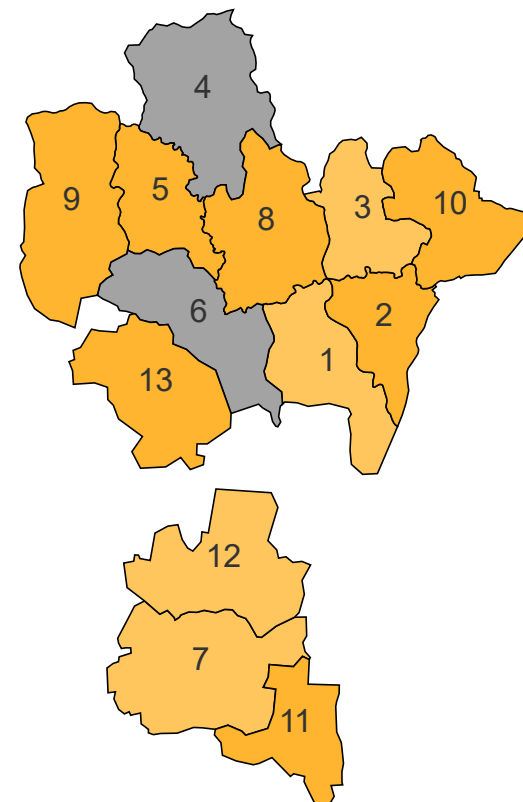


Table 9 | Performance by camp

Southern group	W50		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	1	100%	105	99%
Camp 11	5	100%	129	100%
Camp 12	1	100%	147	100%
Camp 13	4	100%	197	100%
Camp 14	1	100%	85	100%
Camp 15	2	100%	150	100%
Camp 16	3	100%	137	100%
Camp 17	0	0%	112	100%
Camp 18	4	100%	129	99%
Camp 19	0	0%	111	100%
Camp 20	4	100%	76	100%
Camp 20 Ext	3	100%	35	100%
Camp 9	5	100%	148	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	W50		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	1	100%	71	100%
Camp 22 Unchiprang	1	100%	54	100%
Camp 23 Shamlapur	1	100%	61	100%
Camp 24 Leda	1	100%	38	100%
Camp 25 Ali Khali	1	100%	35	100%
Camp 26 Nayapara	0	0%	51	100%
Camp 27 Jadimura	1	100%	25	100%
Nayapara RC	2	100%	41	100%

Map 7 | Number of alerts by camp

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

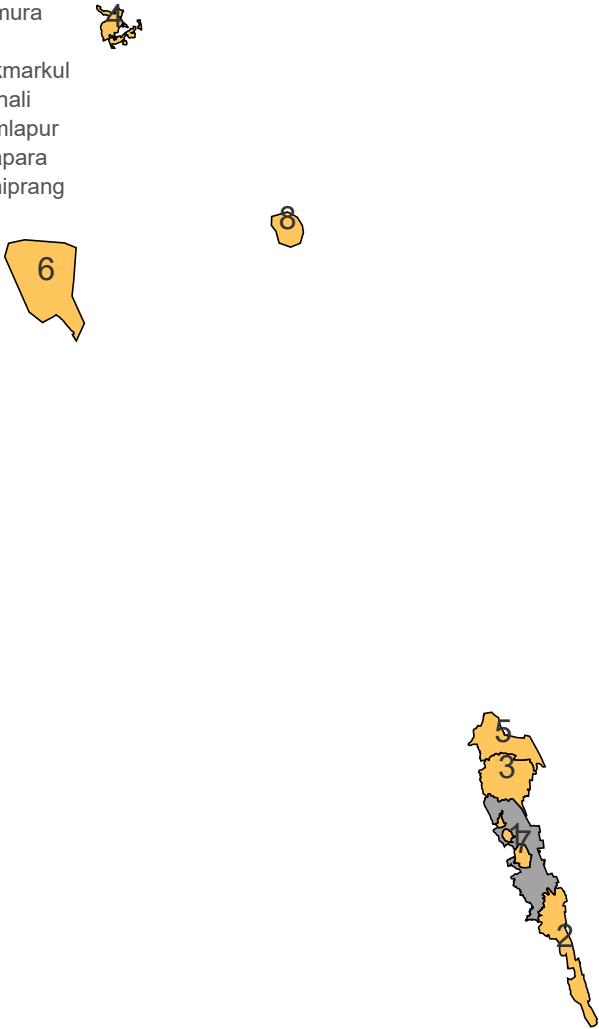


Table 11 | Performance by type of alert

Event	W50		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	8	100%	881	100%
Bloody Diarr.	0	0%	0	0%
AFP	1	100%	18	100%
Meningitis	0	0%	23	100%
Haem. fever (susp.)	0	0%	9	100%
NNT	0	0%	2	100%
Unexp. fever	2	100%	237	100%
AWD	2	100%	334	100%
ARI	14	100%	359	100%
AJS	3	100%	122	100%
Varicella (Susp.)	1	100%	13	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	1	100%	187	100%

Table 12 | Risk assessment

W50	Cumulative (2020)	
1	9	Low risk
0	3	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 W50 2020



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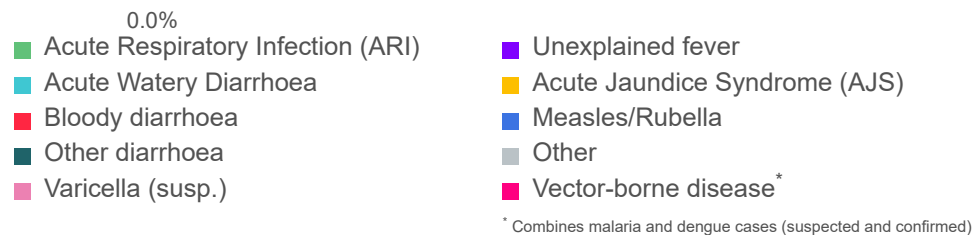
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Proportional morbidity

Figure 1 | Proportional morbidity (W50 2020)



Disease	W50		2020	
	# cases	% morbidity	# cases	% morbidity
AWD	2,568	3.0%	141,133	4.3%
Bloody diarr.	355	0.4%	16,635	0.5%
Other diarr.	1,226	1.4%	53,077	1.6%
Susp. Varicella	33	0.0%	1,971	0.1%
ARI	17,461	20.4%	636,632	19.3%
Measles/Rub.	9	0.0%	4,693	0.1%
AFP	1	0.0%	17	0.0%
Susp. menin.	0	0.0%	81	0.0%
AJS	19	0.0%	970	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%	10	0.0%
Malaria (susp.)	0	0.0%	3,507	0.1%
Dengue (conf.)	0	0.0%	3	0.0%
Dengue (susp.)	0	0.0%	15	0.0%
Unexpl. fever	1,050	1.2%	59,606	1.8%
Sev. Malnut.	39	0.0%	1,393	0.0%
Inj./Wounds	1,741	2.0%	81,879	2.5%
Other	61,264	71.4%	2,294,095	69.6%
Total	84,740	100%	3,296,790	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W50)

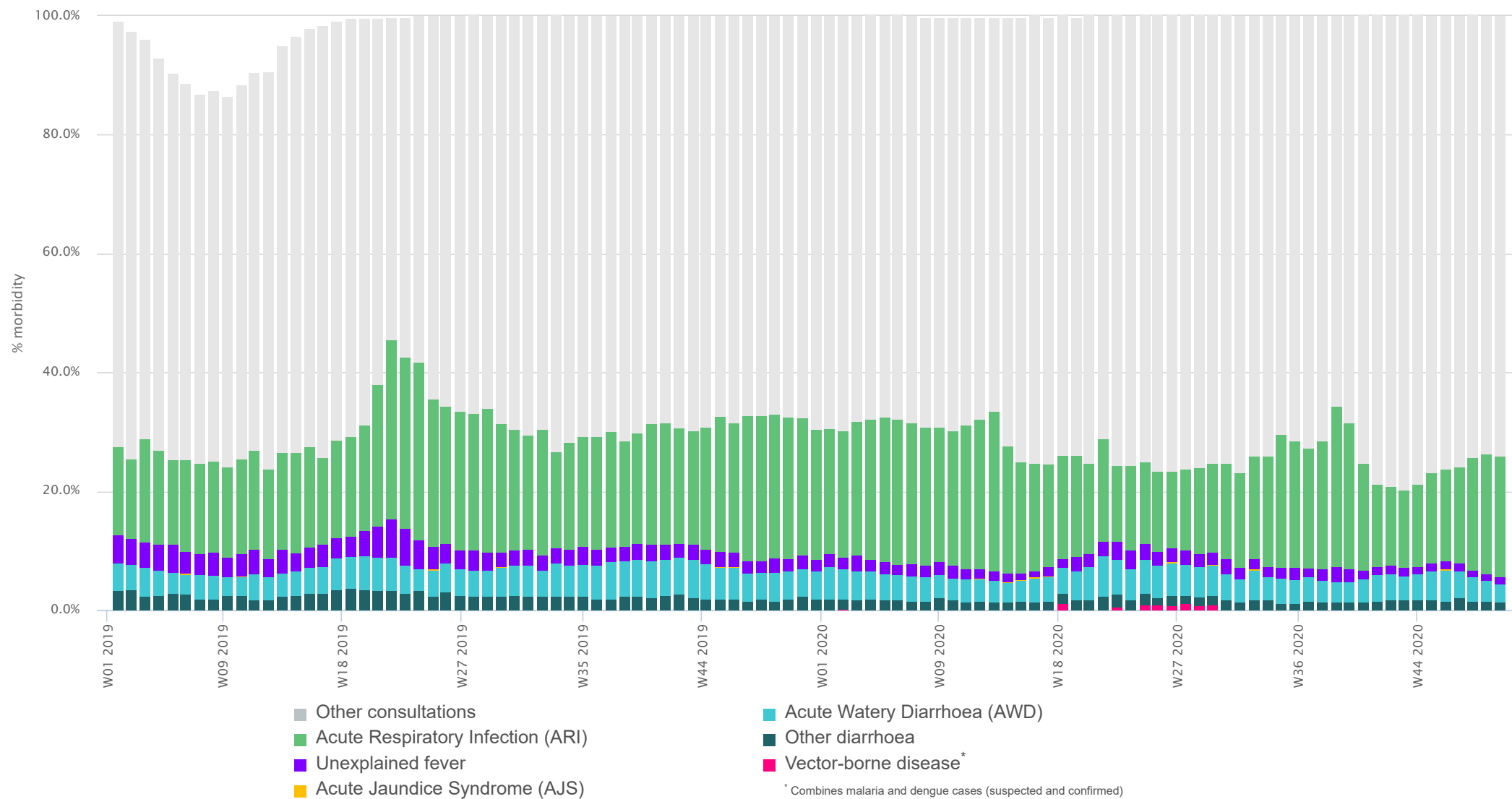
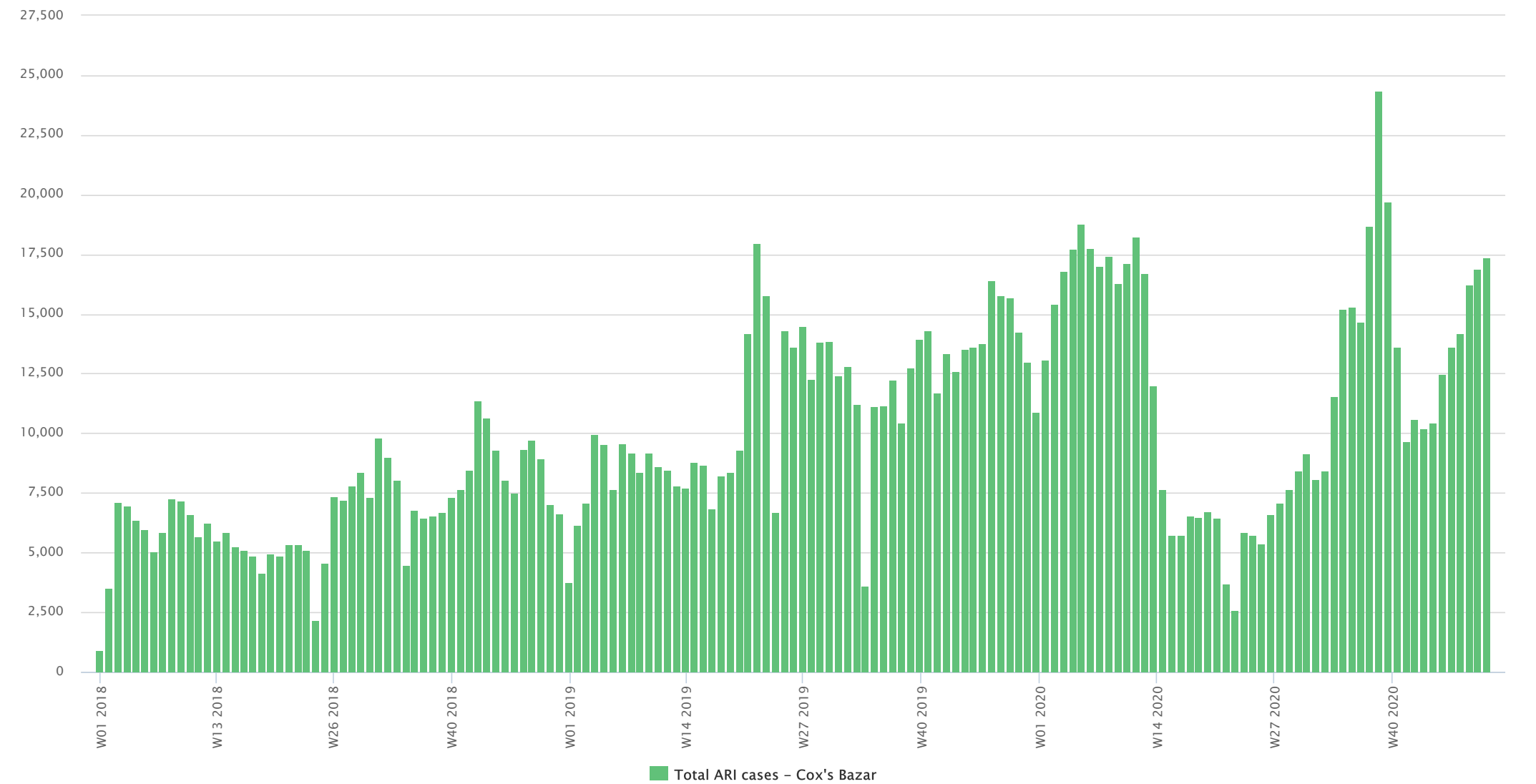
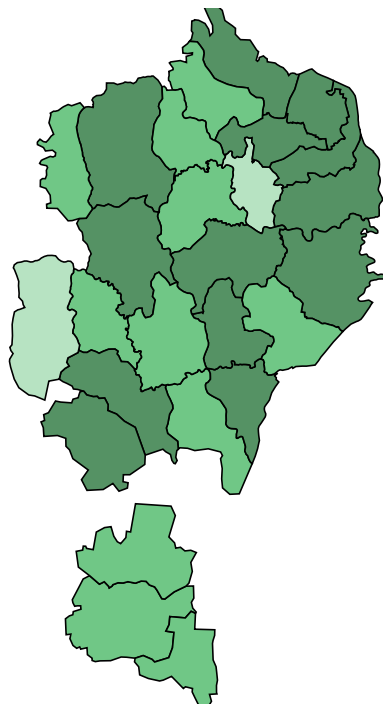


Figure 3 | Trend in number of cases over time (W38 2017 - W50 2020)

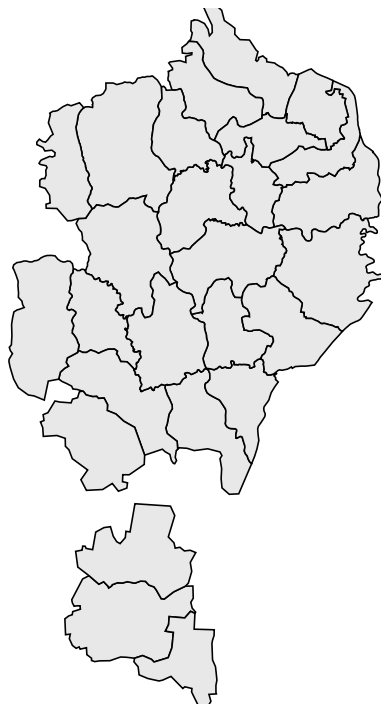


Map 1 | Map of cases by camp (W50 2020)

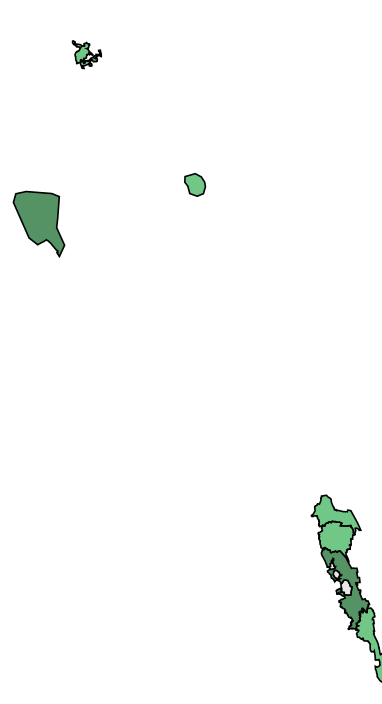
a. Ukhia | Number of cases



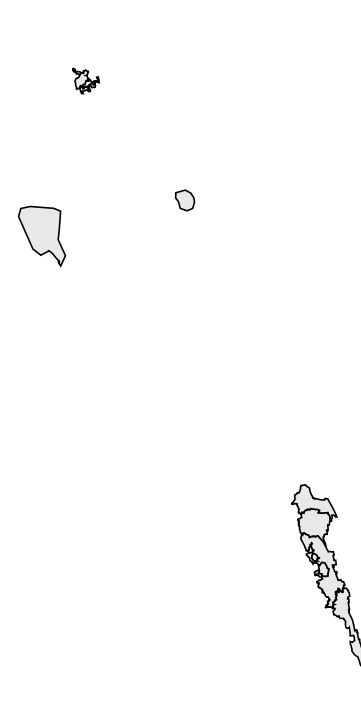
b. Ukhia | Number of alerts



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 (W50 2020)

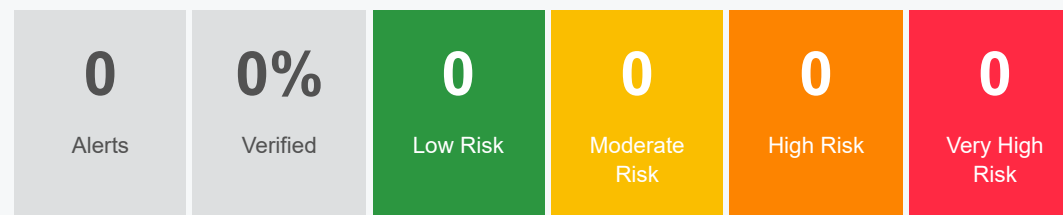


Figure | % sex



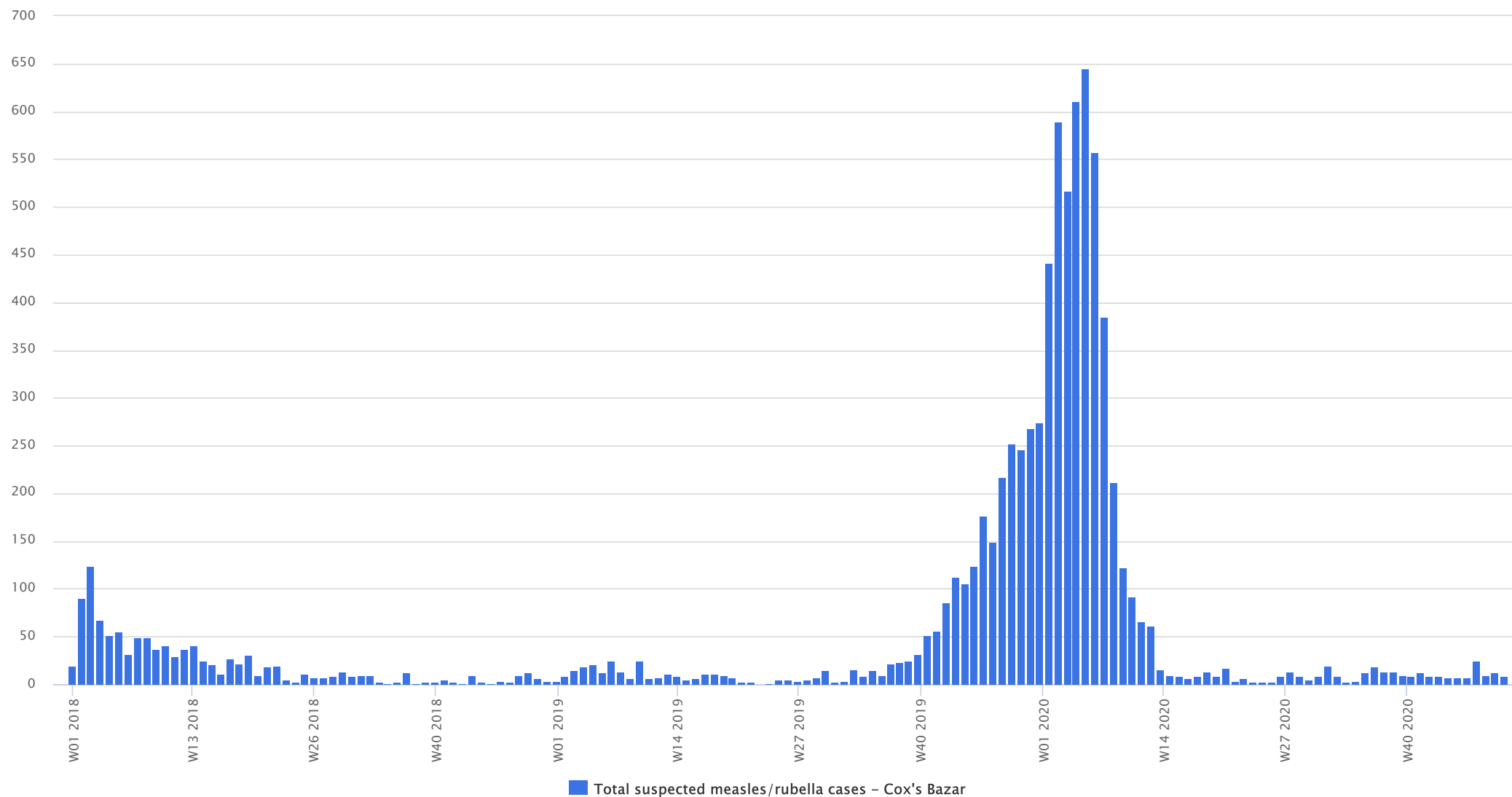
Male Female

Figure | % age



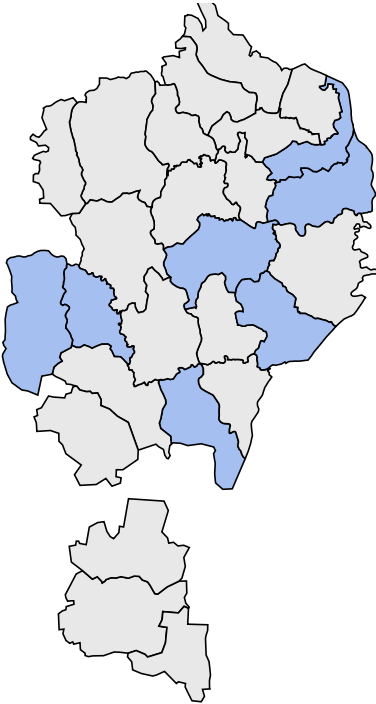
>=5 < 5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W50 2020)

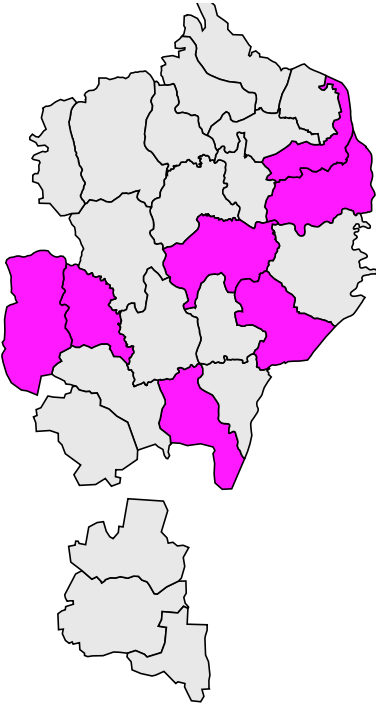


Map 2 | Map of cases by camp (W50 2020)

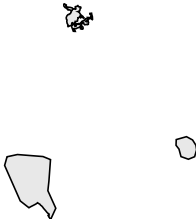
a. Ukhia | Number of cases



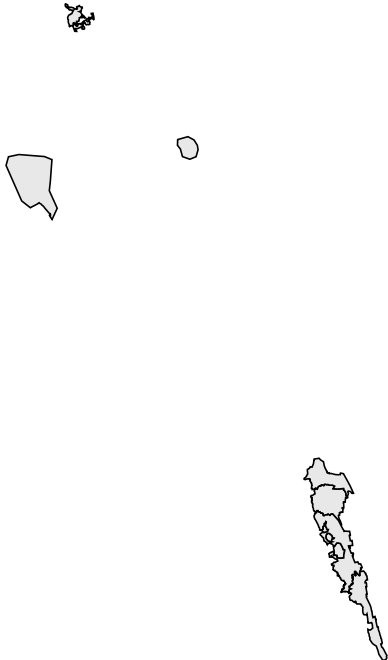
b. Ukhia | Number of alerts



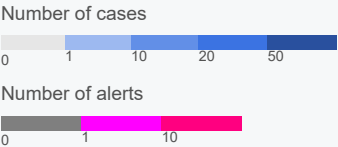
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W50 2020)

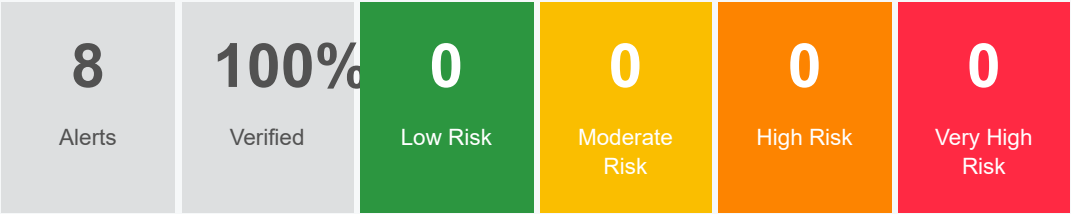


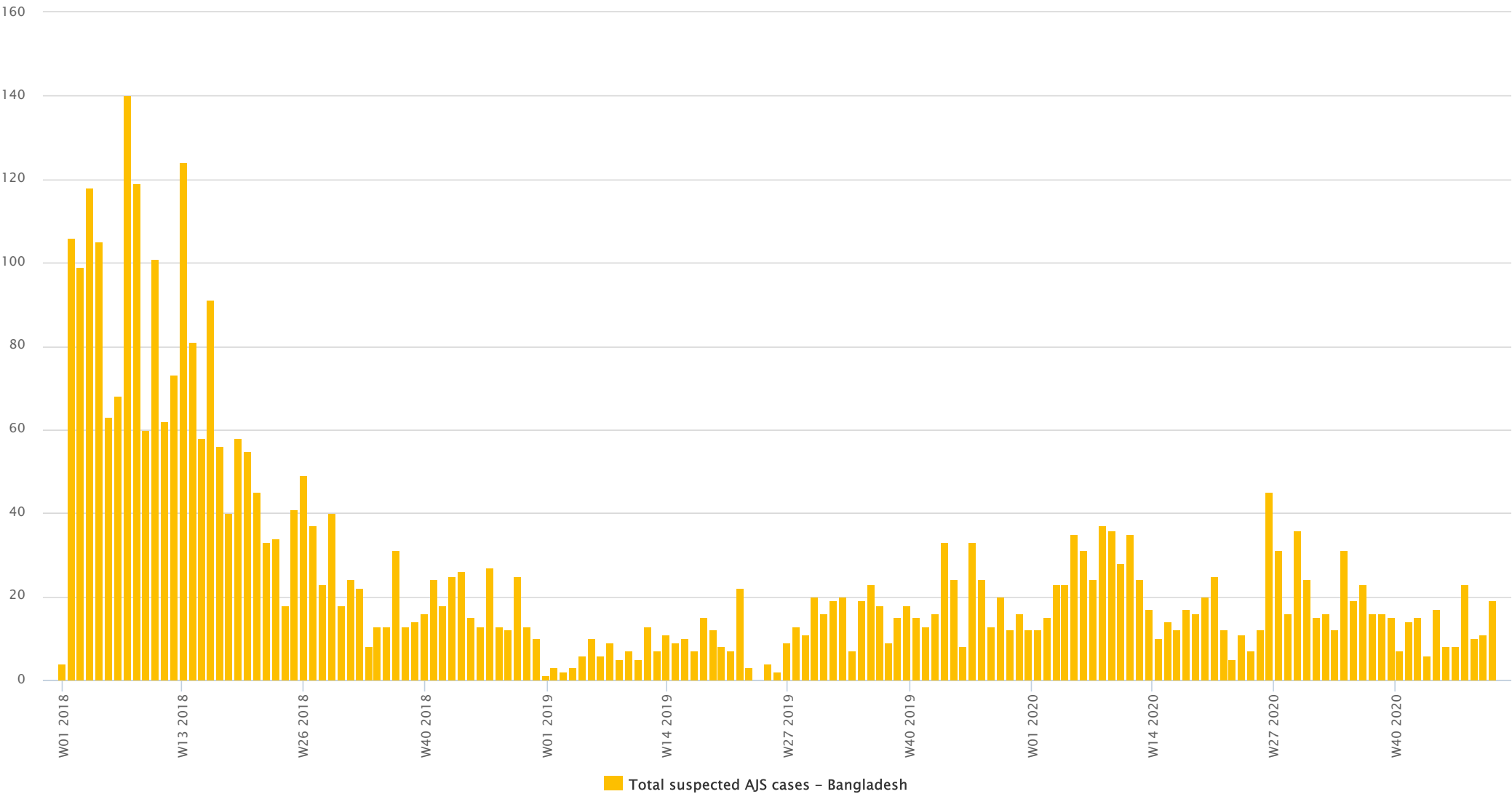
Figure | % sex



Figure | % age

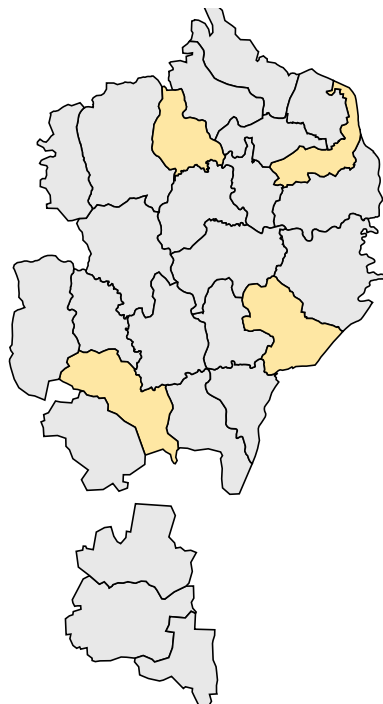


Figure 5 | Trend in number of cases over time (W38 2017 - W50 2020)

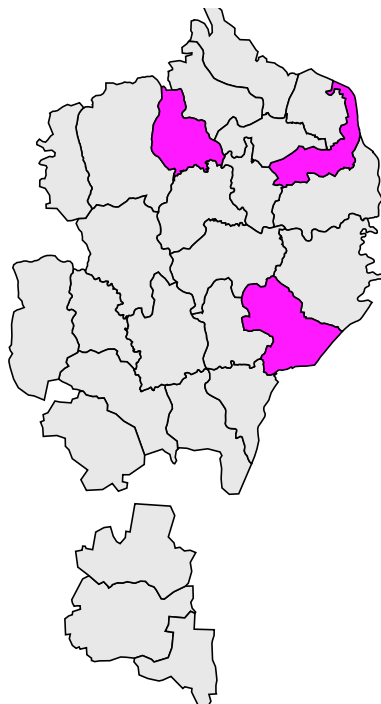


Map 3 | Map of cases by camp (W37 2017 - W50 2020)

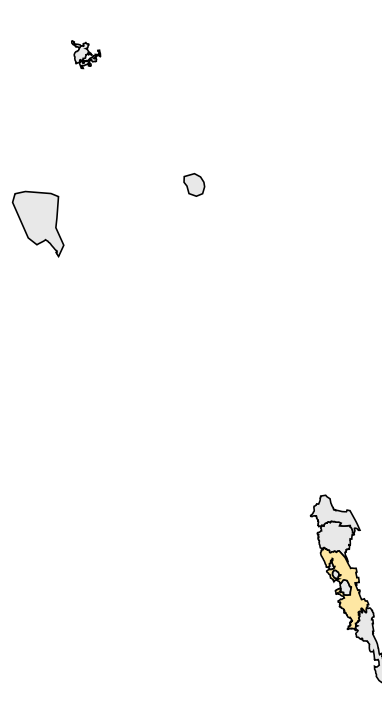
a. Ukhia | Number of cases



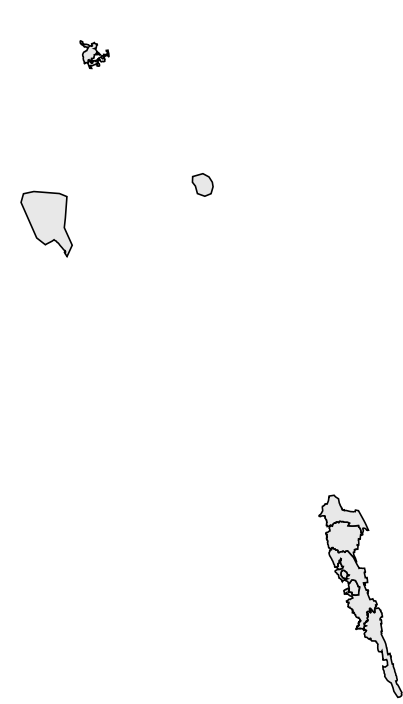
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend

Number of cases



Number of alerts



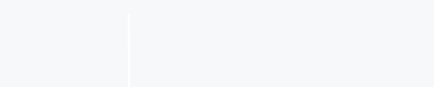
Alert threshold

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

Alert management (W50 2020)



Figure | % sex



Male Female

Figure | % age



>= 5 < 5

Figure 6 | Trend in number of cases over time (W38 2017 - W50 2020)

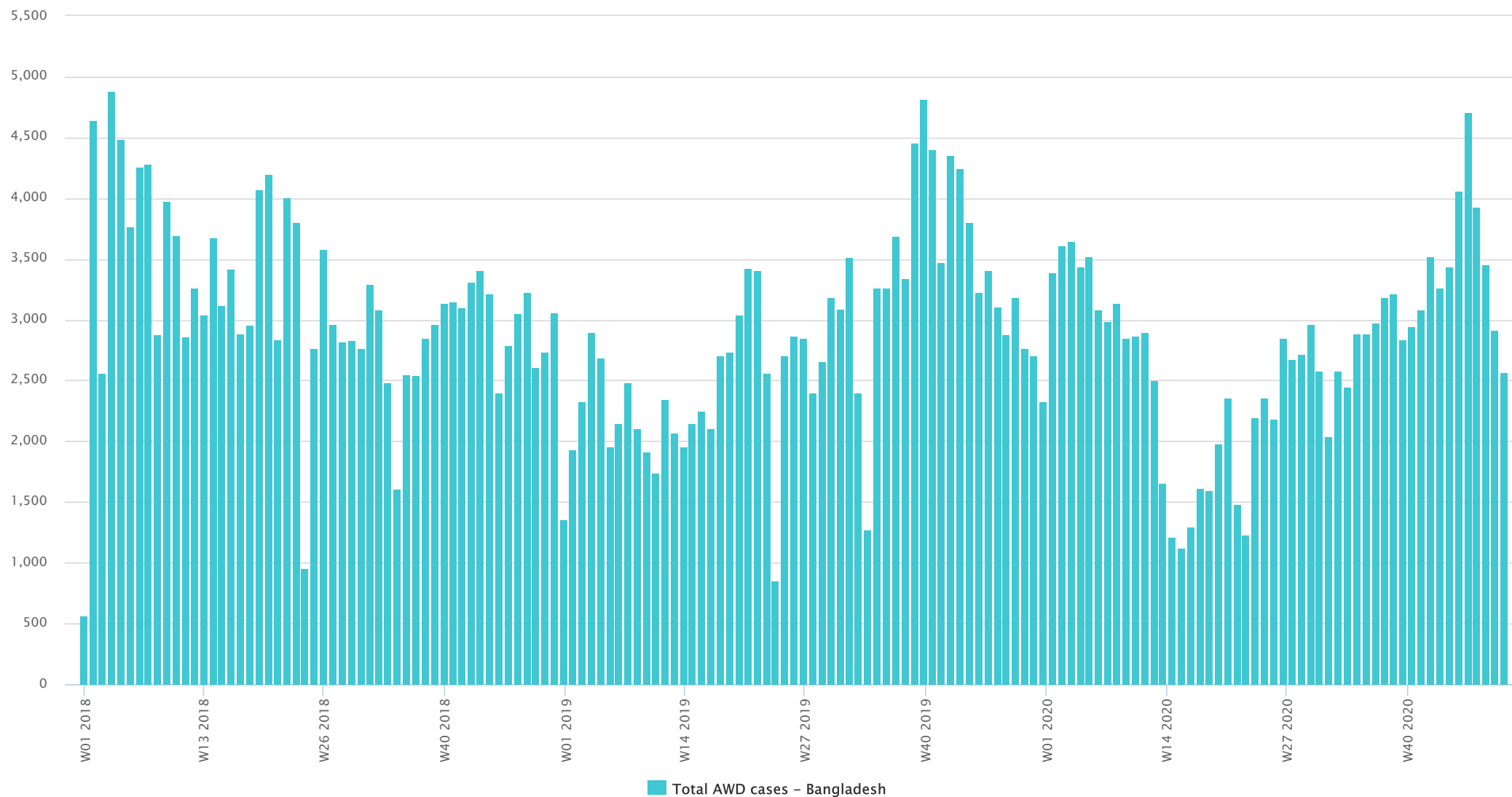
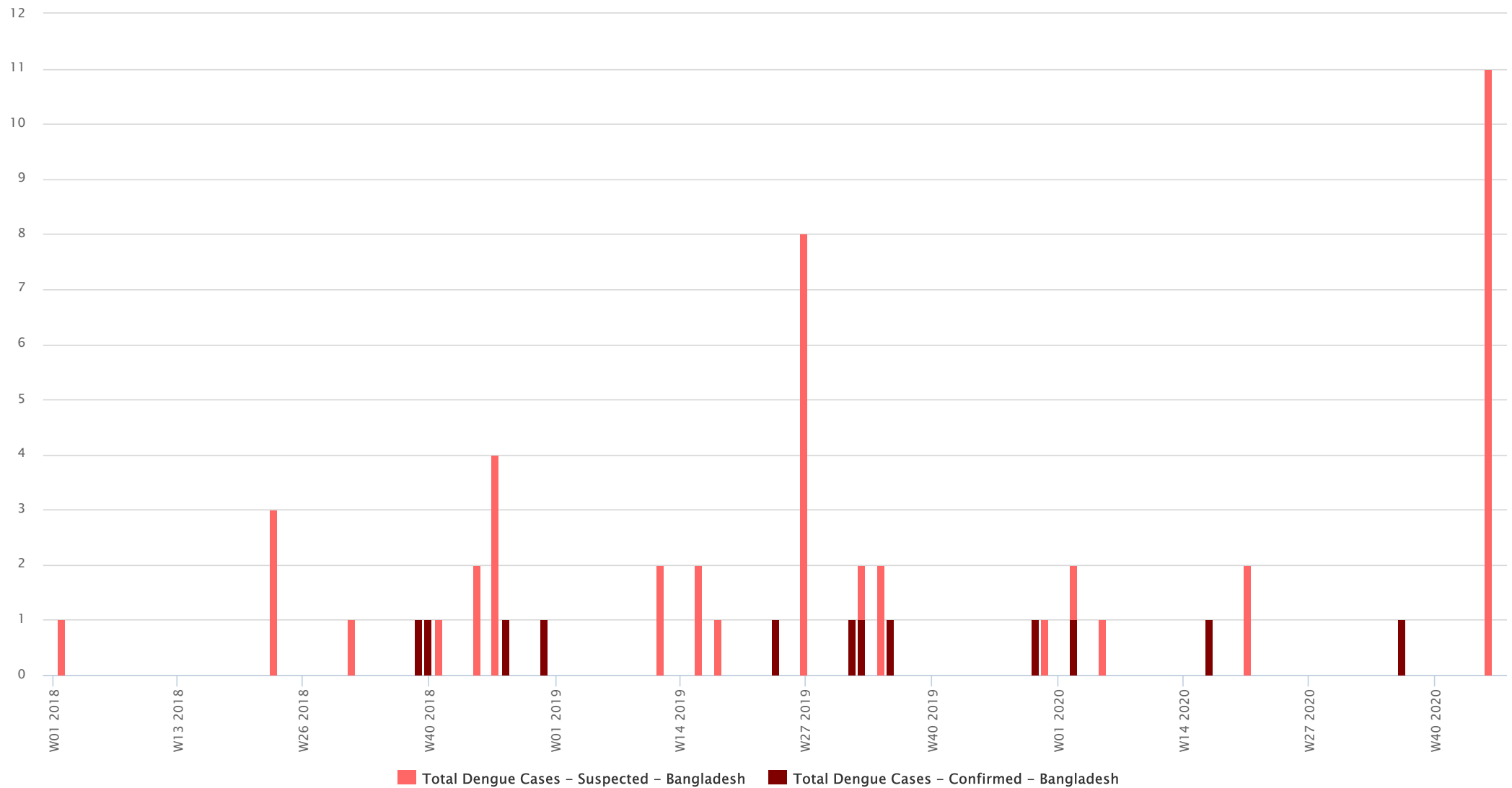


Figure 7 | Trend in number of cases over time (W38 2017 - W50 2020)



Map 4 | Map of cases by camp (W37 2017 - W50 2020)

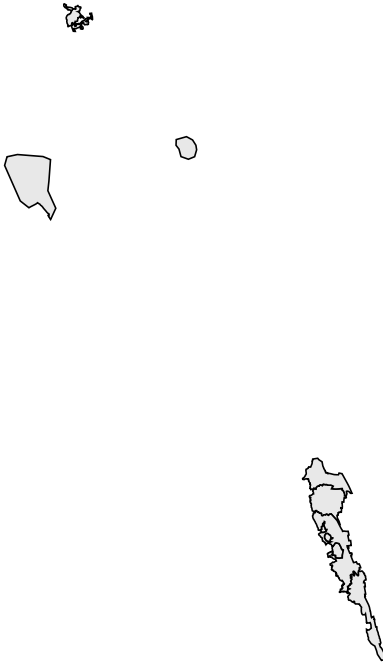
a. Ukhia | Number of cases



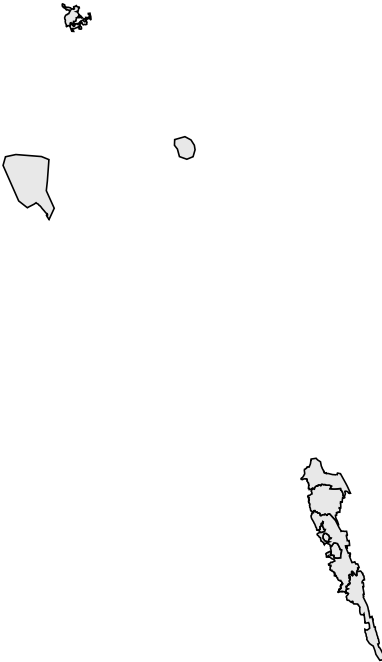
b. Ukhia | Number of alerts



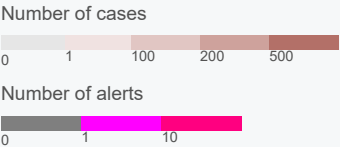
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W50 2020)

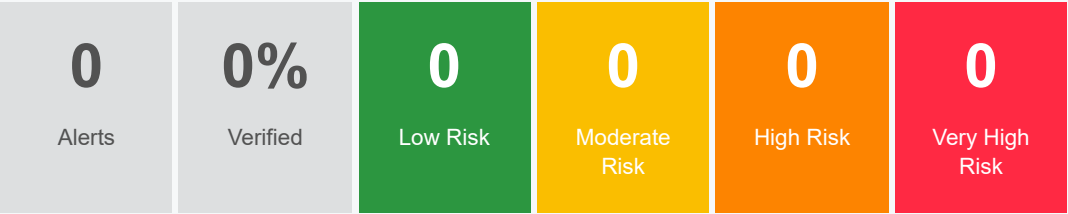
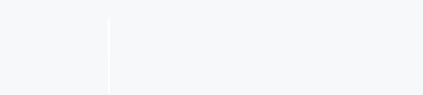


Figure | % sex



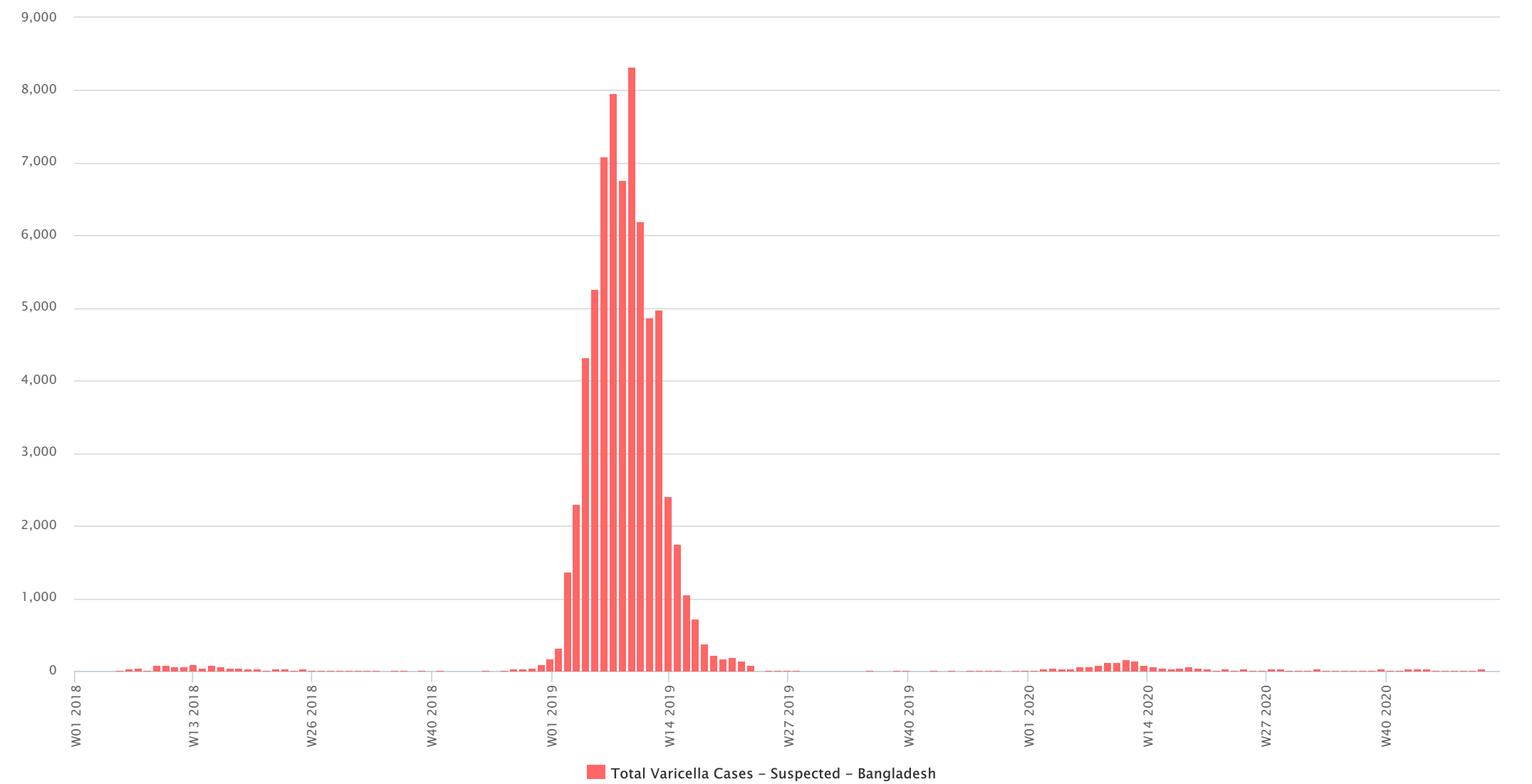
Male Female

Figure | % age



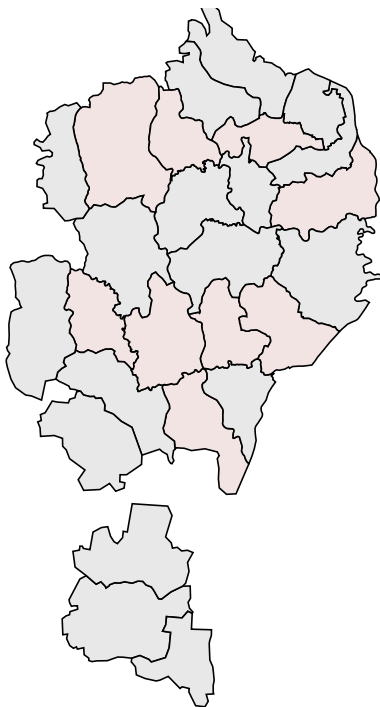
>= 5 < 5

Figure 7 | Trend in number of cases over time (W38 2017 - W50 2020)

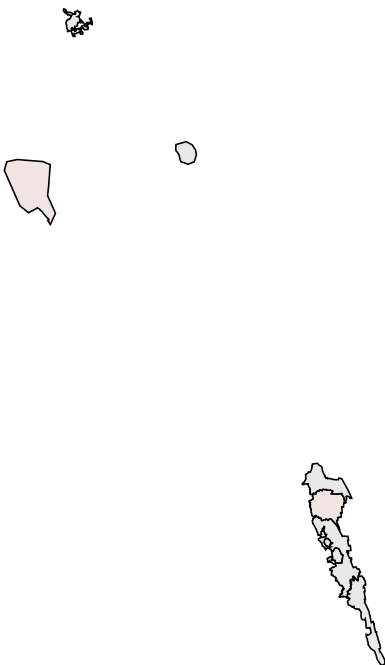


Map 4 | Map of cases by camp (W37 2017 - W50 2020)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

Number of cases

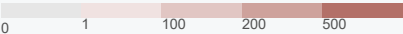


Figure | % sex

Male Female

Figure | % age

>= 5 < 5

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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