



Epidemiological Highlights

Epi Week 20, 2024: 12-18 May 2024

EWARS Surveillance Update Epi Week 20, 2024

Total Rohingya Population	971,904*
Total Population under surveillance	939,344 (97%)
Number of EWARS reporting site	119
Number of weekly report received	114
Completeness	87% (Cumulative 95%)
Timeliness	77% (Cumulative 81%)
Total alert raised	54 (8% decrease compared to the previous week)

*Join Government of Bangladesh-UNHCR Population Factsheet as of December 2023

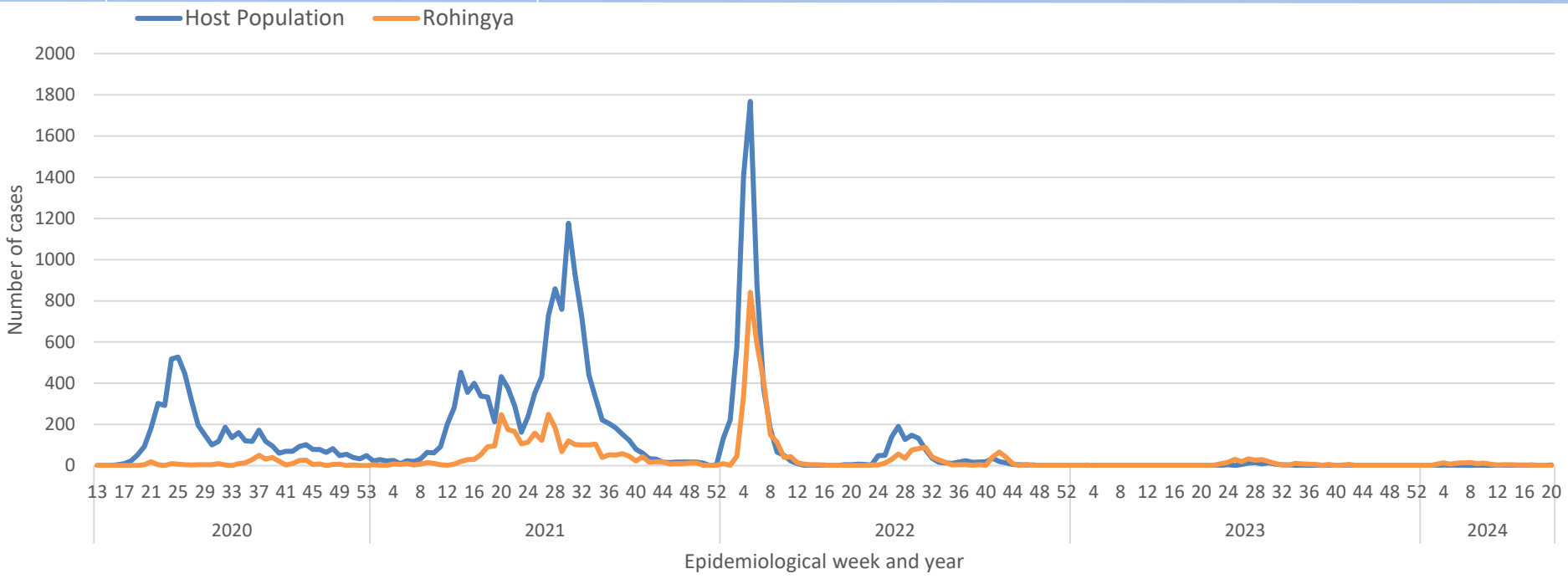
Proportional Morbidity

Acute Respiratory Infections (25.1%), Injury and wounds (3.1%), and Acute Watery Diarrhoea (3.1%), were the diseases and health conditions with the highest proportional morbidity this week.

Upsurges/Outbreak

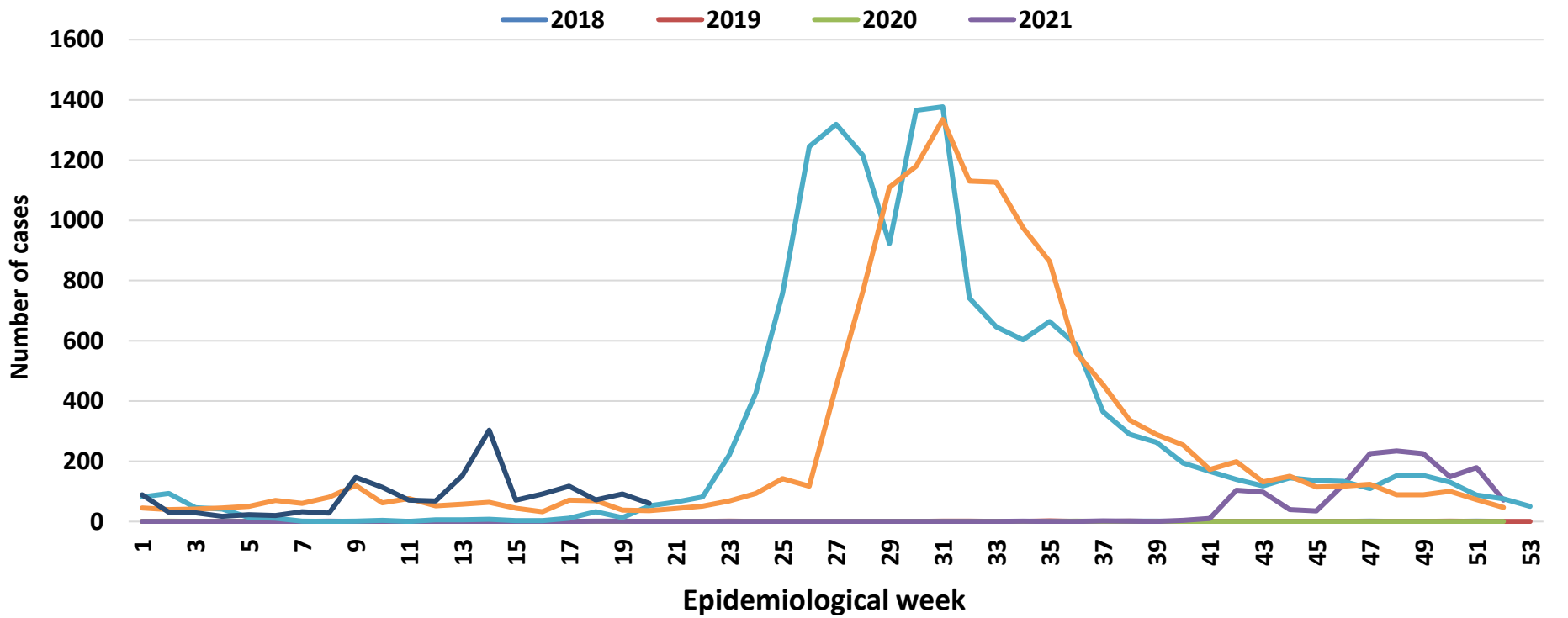
- There have been four (4) lab-confirmed measles cases and 1 lab-confirmed rubella so far recorded in camps 22, 14, 7, 2W
- Additionally, COVID-19, Dengue, and Diphtheria transmission are largely under control.
- Transmission of AWD and suspected Cholera cases has been low partially because there hasn't been Cholera culture detection since 31 August 2023 and the possibility of reduced transmission.
- Culture detection of Cholera was revitalized on 15 May in 2 of the 24 sentinel surveillance sites and plans are ongoing to scale up the same in the coming weeks by WHO and icddr,b

Yearly Trends of COVID-19 Cases from Epi Week 14, 2020 - Epi Week 20, 2024



	Rohingya Refugees	Host Population (Cox's Bazar)
Number of reported cases in the current week	0	3
Cumulative case so far 2024	119	15
Number of reported deaths in week (cumulative deaths)	0 (0)	0 (0)
Cumulative cases as of to date since 2020	6,972	24,747
Cumulative death as of to date since 2020	46	269

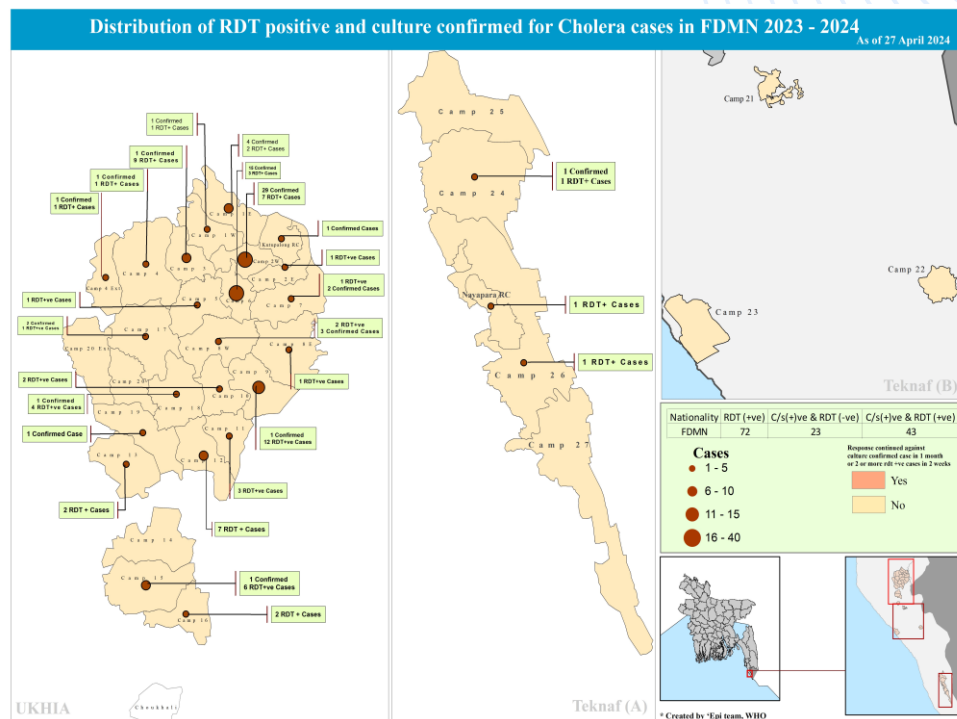
Annual trendlines for weekly Dengue Confirmed Cases from 2018-Epi Week 20, 2024



Number of reported cases in the current week	60 (35% decrease compared to the previous week)
Cumulative cases in 2024	1,626
Number of reported deaths this week (cumulative deaths in 2024)	0 (1)
Case Fatality Rate (%), 2024	0.1
Proportion (%) of Moderate and Severe case (hospital admissions) in 2024	16%

Table and spot map of Cholera suspected and confirmed cases from 2018-Epi Week 20, 2024

- No new cholera cases have been reported in week 20, 2024 in the Ukhaia host population
- Cumulatively there are 1,023 RDT-positive AWD cases/Cholera suspects reported while 487 cases were culture-confirmed since surveillance began in 2018



	2018	2019	2020	2021	2022	2023	2024
RDT-positive AWD cases/Cholera suspects	49	258	28	357	170	158	3
Culture-confirmed for Cholera	7	184	5	136	70	81	4

Table on the epidemiological classification of Diphtheria cases from 2017-Epi Week 11, 2024 and Trendlines as of Epi Week 20, 2024

Classification	2017	2018	2019	2020	2021	2022	2023	2024		
Lab. Confirmed	66	226	31	19	30	56	7	1	Number of reported cases in current week	0
Clinical Compatible	1,154	1,555	60	9	29	3	24	8	Cumulative cases in 2024	59
Negative/sample not collected	1,796	3,549	523	198	118	349	250	50	Number of reported deaths in week (cumulative deaths)	0 (0)
Death	30	14	3	0	5	2	1	0	Date of last confirmed case	4 January 2024
									Date of last death	15 May 2023

■ Laboratory Confirmed
 ■ Clinical Compatible
 ■ Discarded
 ■ Epidemiologically linked

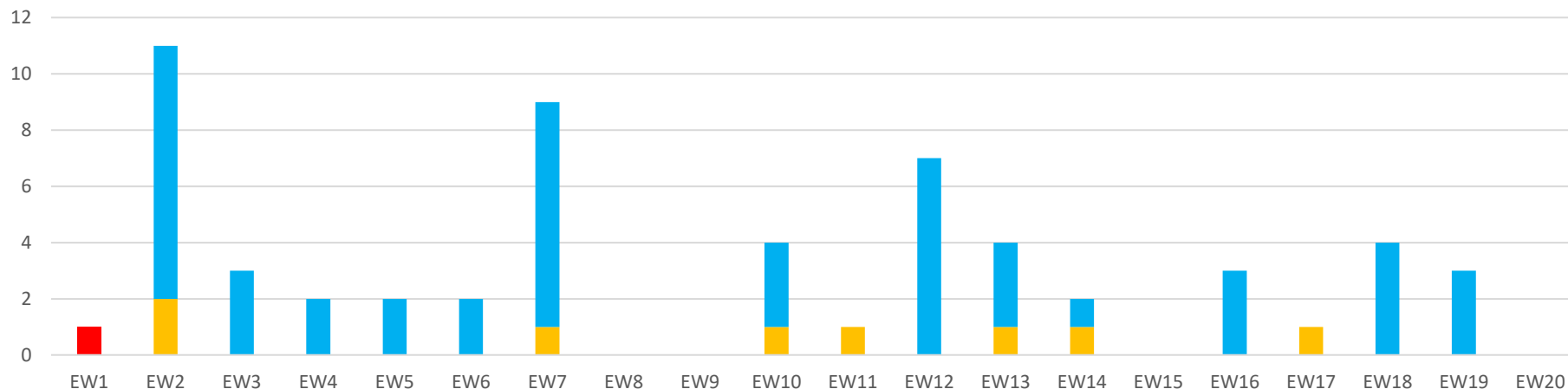


Table and Epi curve for suspected Measles and Rubella Cases in Rohingya Refugee Camps and host population as of Epi Week 20, 2024

Number of reported suspected cases current week	13
Cumulative suspected cases in 2024	206
Number of samples collected and sent to the lab	0
Cumulative samples collected and sent to the lab	106
Lab Confirmed Measles in 2024	4
Lab Confirmed Rubella cases in 2024	1

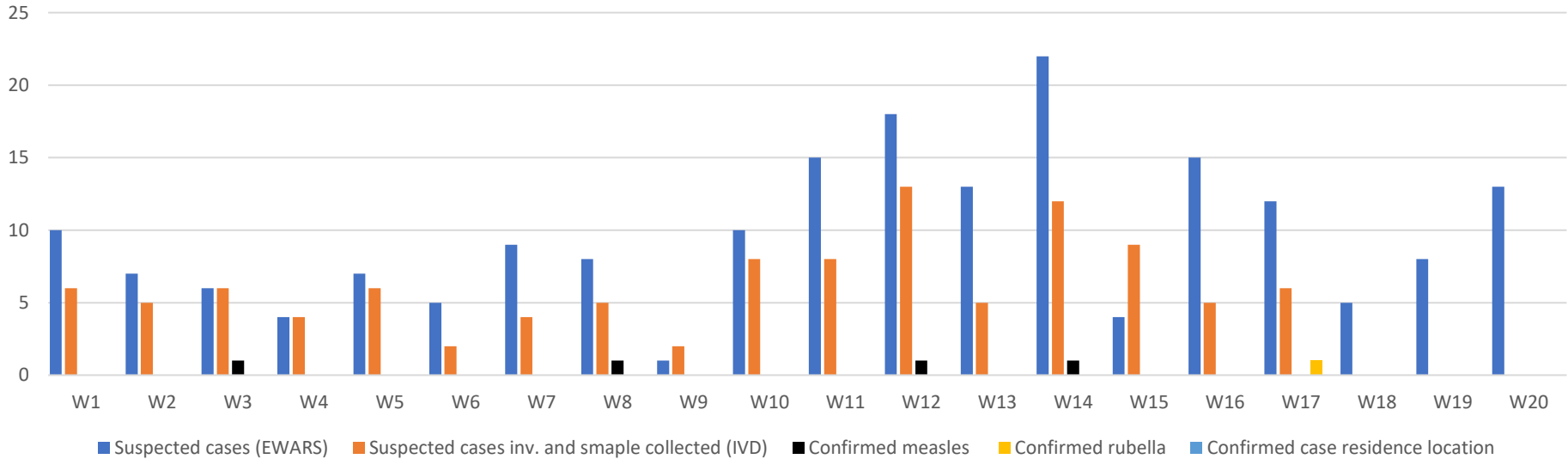
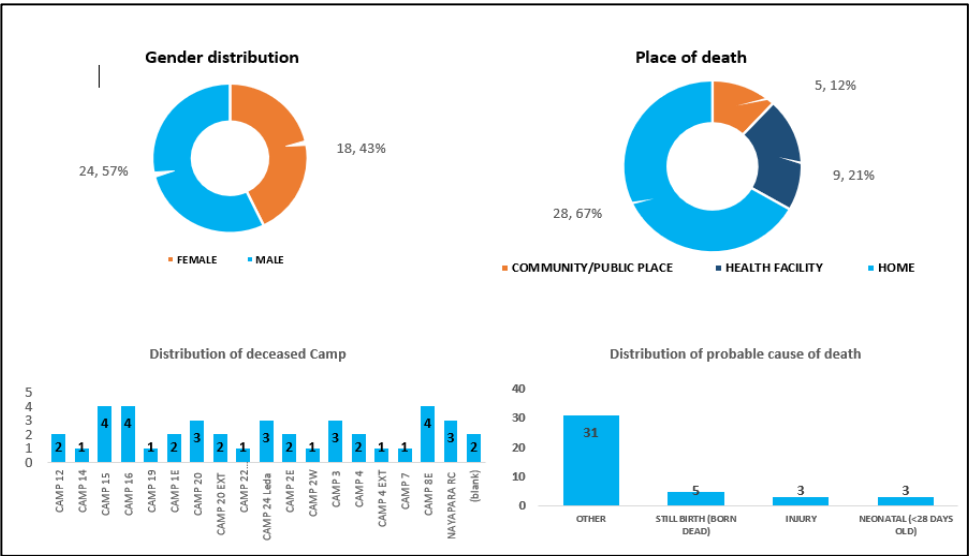


Table on Proportionate Mortality and their distribution by gender, place of deaths and probable causes, week 20, 2024

Probable causes of death	Epi week 20	In 2024
Still Birth	5 (12%)	102 (10%)
Neonatal Death (<28 days old)	3 (7%)	84 (8%)
Infectious Disease	--	16 (2%)
Severe Acute Respiratory Infection (SARI)	--	18 (2%)
Injury	3 (7%)	28 (3%)
Maternal Death	--	23 (2%)
Acute Malnutrition	--	--
Other	31 (74%)	784 (74%)
Total	42 (100%)	1055 (100%)



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W20 2024



Ministry of Health and Family
Welfare Bangladesh



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Sources of data

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

Table 1 | Coverage

#	%	
971,904	-	Estimated total Rohingya population ¹
939,344	97%	Total population under surveillance
125	-	Total number of health facilities
119	95%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W20	Cumulative (2024)	
104	2388	Number of weekly reports received
87%	95%	Completeness
77%	81%	Timeliness

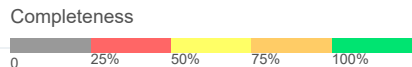
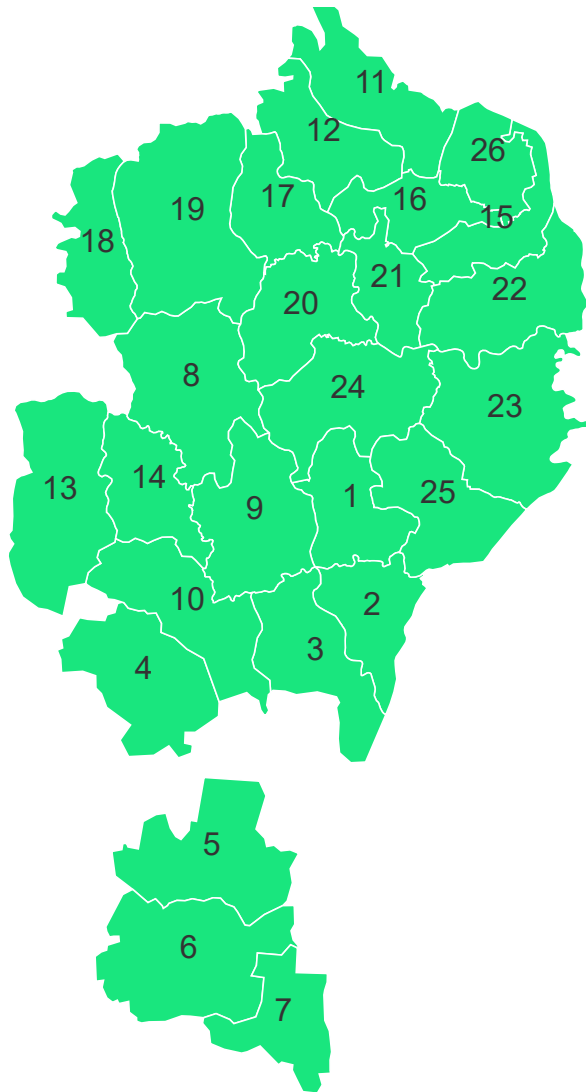
Table 3 Alert performance indicators

W20	Cumulative (2024)	
54	1,267	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 2023.

Map 1a | Ukhia completeness by camp

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



Map 1b | Teknaf completeness by camp

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

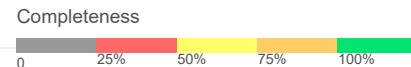
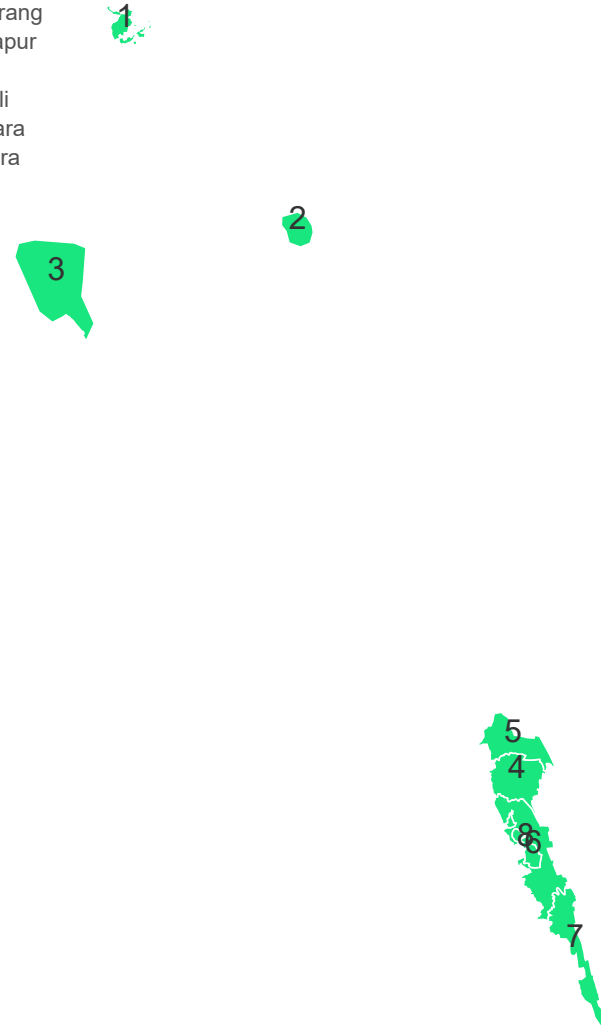


Table 4 | Performance by camp (W20 2024)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	2	100%	75%
Camp 1W	4	3	100%	88%
Camp 2E	3	3	100%	100%
Camp 2W	3	3	100%	100%
Camp 3	2	2	100%	100%
Camp 4	4	4	100%	100%
Camp 4 Ext	1	1	100%	100%
Camp 5	3	3	100%	100%
Camp 6	2	2	100%	100%
Camp 7	4	2	100%	75%
Camp 8E	8	7	100%	92%
Camp 8W	3	3	100%	100%
Kutupalong RC	2	2	100%	100%

Map 2 | Completeness by camp

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

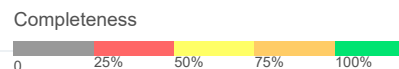
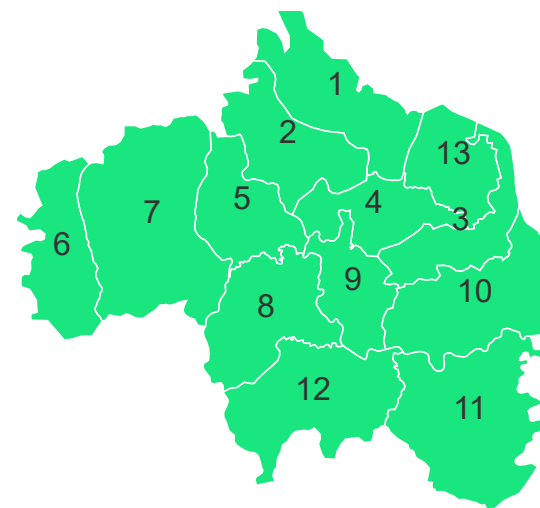


Table 5 | Performance by camp (W20 2024)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	3	2	100%	83%
Camp 11	3	2	100%	83%
Camp 12	2	2	100%	100%
Camp 13	6	5	100%	92%
Camp 14	5	4	80%	80%
Camp 15	6	4	80%	70%
Camp 16	7	6	100%	92%
Camp 17	4	4	100%	100%
Camp 18	2	2	100%	100%
Camp 19	3	3	100%	100%
Camp 20	2	2	100%	100%
Camp 20 Ext	2	2	100%	100%
Camp 9	6	5	100%	92%

Map 3 | Completeness by camp

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

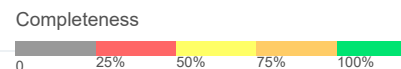
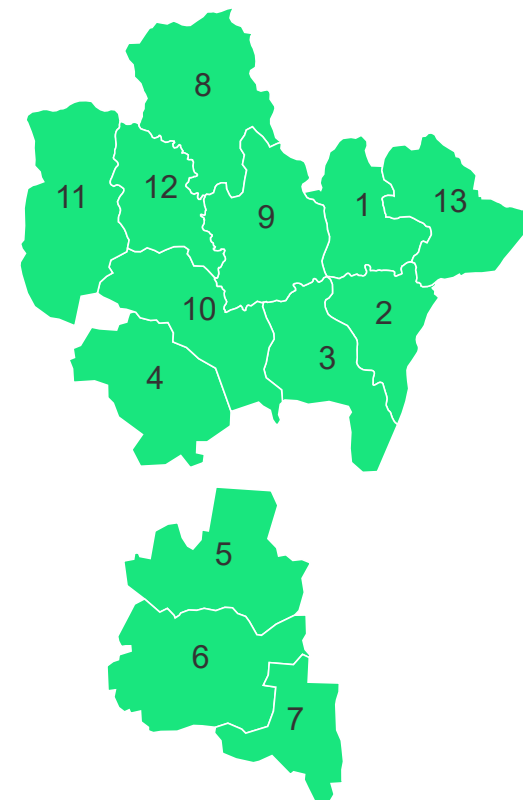


Table 6 | Performance by camp (W20 2024)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
	Ukhia Teknaf			
Camp 21 Chakmarkul	3	2	100%	83%
Camp 22 Unchiprang	4	3	100%	88%
Camp 23 Shamlapur	2	2	100%	100%
Camp 24 Leda	2	2	100%	75%
Camp 25 Ali Khali	2	1	100%	75%
Camp 26 Nayapara	4	3	75%	63%
Camp 27 Jadimura	2	2	100%	100%
Nayapara RC	2	2	100%	100%

Map 4 | Completeness by camp

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

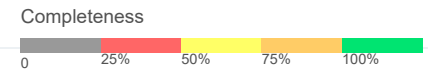
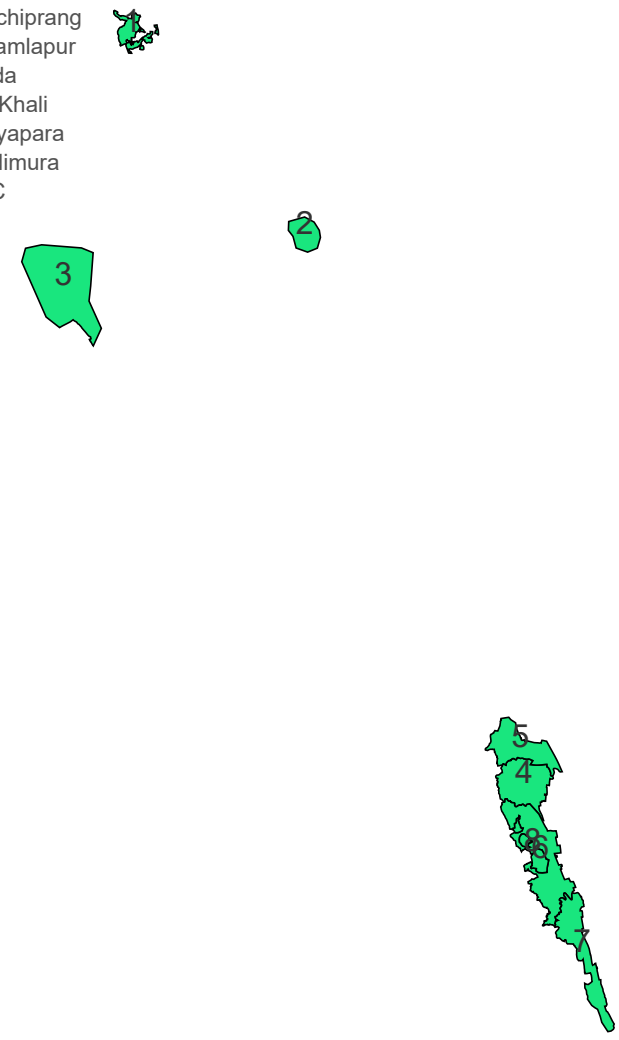


Table 7 | Performance by partner (W20 2024)

Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	2	1	50%	50%	IRC	8	4	100%	100%
AWARD	12	4	33%	33%	MSF	9	7	86%	86%
BASHMAH	2	0	0%	0%	MoH	8	4	43%	43%
BDRCS	16	8	50%	50%	MHI	0	1	0%	0%
BRAC	12	12	50%	50%	Medair	0	0		
CARE	0	0			FH/MTI	0	0		
GH/CPI	2	1	50%	50%	PRANTIC	2	1	50%	50%
DBC	2	1	50%	50%	PULSE	0	0		
DSK	0	0			QC	2	1	100%	100%
DCHT-PWJ	2	1	50%	50%	PHD	4	4	100%	100%
FRNDS	16	7	88%	88%	RPN	1	1	100%	100%
GK	18	9	100%	100%	RHU	5	3	60%	100%
Global One	0	2	0%	0%	RI	0	0		
GUSS	2	1	50%	50%	RTMI	7	4	100%	100%
HAEFA	4	2	50%	50%	SALT	2	1	100%	50%
HAIB	0	0			SCI	3	4	200%	200%
HMBDF	4	2	100%	100%	DCHT-MM	1	1	100%	50%
HOPE	2	1	50%	50%	Turkish Government	1	1	100%	50%
ICRC	0	0			TdH	3	2	100%	100%
IOM	31	20	95%	95%					

Table 8 | Performance by camp

Northern group	W20		Cumulative (2024)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	2	0%	42	29%
Camp 1W	0	0%	33	48%
Camp 2E	6	0%	187	58%
Camp 2W	1	0%	38	45%
Camp 3	3	0%	52	46%
Camp 4	2	0%	41	32%
Camp 4 Ext	1	0%	23	52%
Camp 5	0	0%	26	50%
Camp 6	0	0%	9	22%
Camp 7	1	0%	35	31%
Camp 8E	3	0%	21	52%
Camp 8W	6	0%	72	42%
Kutupalong RC	0	0%	11	36%

Map 5 | Number of alerts by camp

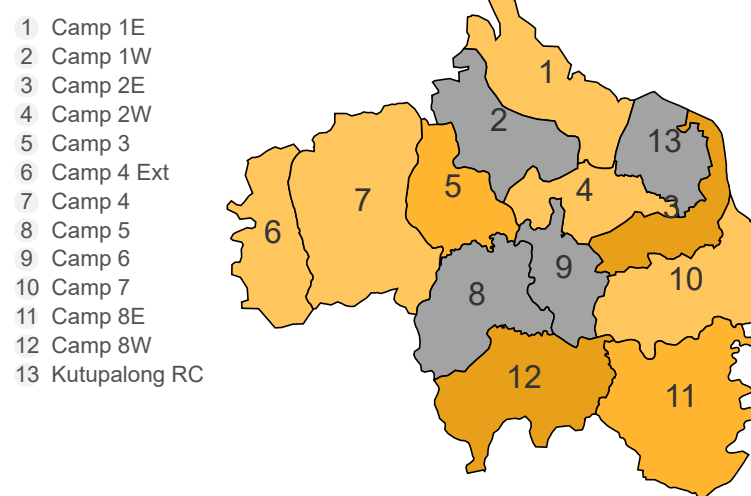


Table 9 | Performance by camp

Southern group	W20		Cumulative (2024)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	2	0%	56	41%
Camp 11	1	0%	33	39%
Camp 12	0	0%	25	60%
Camp 13	0	0%	13	46%
Camp 14	1	0%	30	40%
Camp 15	4	0%	96	48%
Camp 16	2	0%	39	44%
Camp 17	0	0%	18	56%
Camp 18	0	0%	40	20%
Camp 19	0	0%	1	0%
Camp 20	3	0%	38	29%
Camp 20 Ext	0	0%	6	100%
Camp 9	1	0%	29	24%

Map 6 | Number of alerts by camp

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

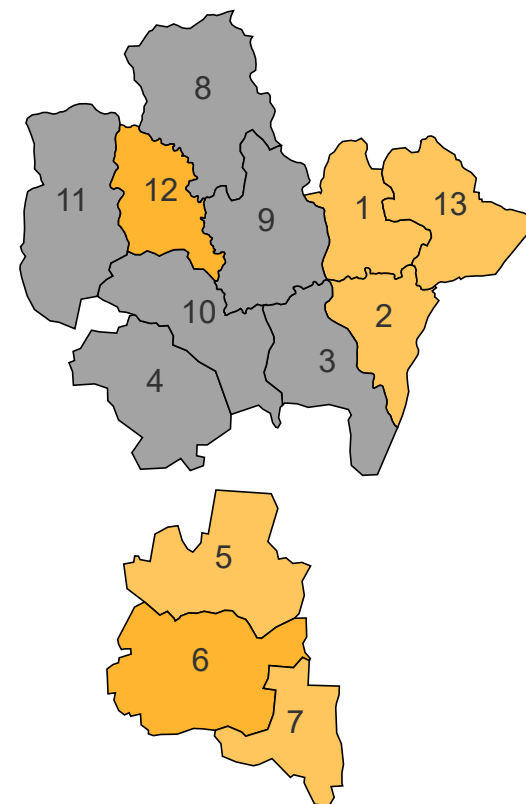


Table 10 | Performance by camp

Teknaf	W20		Cumulative (2024)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	5	0%	66	55%
Camp 22 Unchiprang	2	0%	16	6%
Camp 23 Shamlapur	0	0%	0	0%
Camp 24 Leda	3	0%	106	61%
Camp 25 Ali Khali	0	0%	3	67%
Camp 26 Nayapara	0	0%	2	50%
Camp 27 Jadimura	2	0%	13	23%
Nayapara RC	2	0%	42	45%

Map 7 | Number of alerts by camp

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

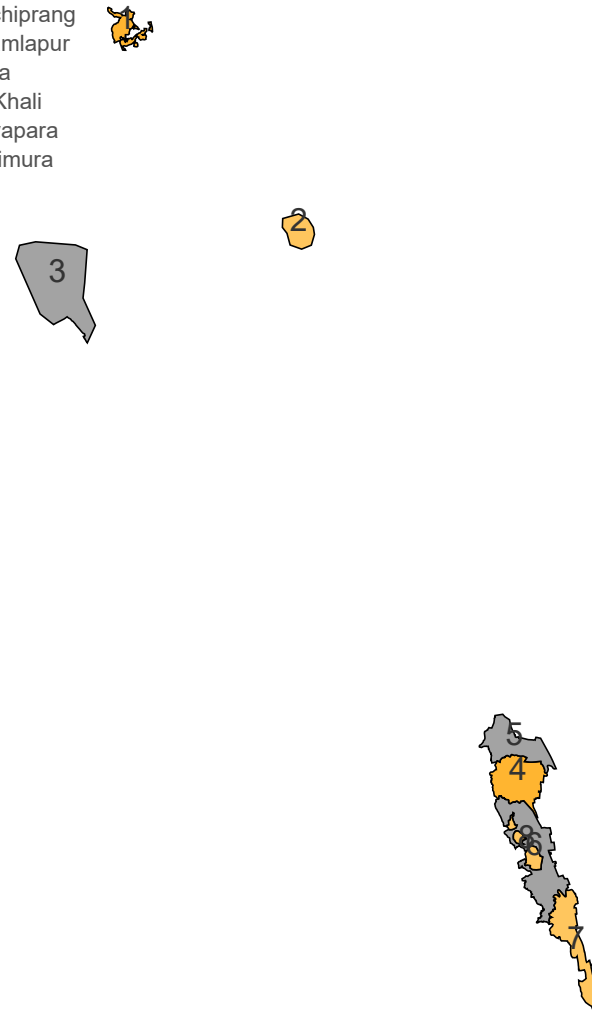


Table 11 | Performance by type of alert

Event	W20		Cumulative (2024)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	1	0%	19	47%
Bloody Diarr.	0	0%	0	0%
AFP	1	0%	4	50%
Meningitis	0	0%	8	25%
Haem. fever (susp.)	0	0%	4	75%
NNT	0	0%	0	0%
Unexp. fever	0	0%	10	60%
AWD	0	0%	12	25%
ARI	0	0%	14	64%
AJS	0	0%	3	0%
Varicella (Susp.)	0	0%	7	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	4	0%	77	66%

Table 12 | Risk assessment

W20	Cumulative (2024)	
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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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
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Annex W20 2024



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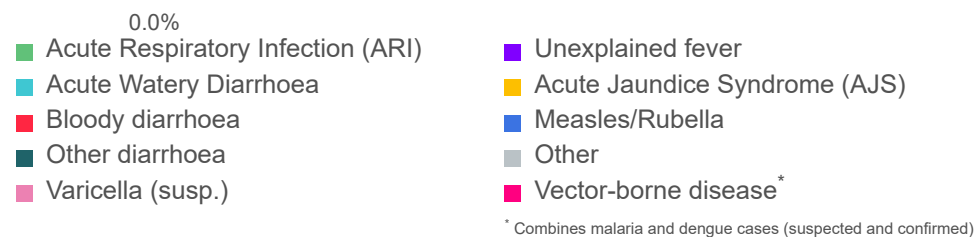
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Proportional morbidity

Figure 1 | Proportional morbidity (W20 2024)



Disease	W20		2024	
	# cases	% morbidity	# cases	% morbidity
AWD	2,403	3.1%	41,147	2.6%
Bloody diarr.	146	0.2%	2,628	0.2%
Other diarr.	564	0.7%	14,462	0.9%
Susp. Varicella	81	0.1%	6,608	0.4%
ARI	19,527	25.1%	404,414	25.2%
Measles/Rub.	13	0.0%	206	0.0%
AFP	0	0.0%	26	0.0%
Susp. menin.	10	0.0%	123	0.0%
AJS	34	0.0%	245	0.0%
Susp. HF	10	0.0%	133	0.0%
Neo. tetanus	0	0.0%	1	0.0%
Adult tetanus	4	0.0%	119	0.0%
Malaria (conf.)	2	0.0%	59	0.0%
Malaria (susp.)	44	0.1%	1,231	0.1%
Dengue (conf.)	140	0.2%	2,301	0.1%
Dengue (susp.)	149	0.2%	2,876	0.2%
Unexpl. fever	707	0.9%	13,335	0.8%
Sev. Malnut.	58	0.1%	698	0.0%
Inj./Wounds	2,447	3.1%	45,896	2.9%
Other	51,504	66.1%	1,067,483	66.5%
Total	77,227	100%	1,606,011	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W20)

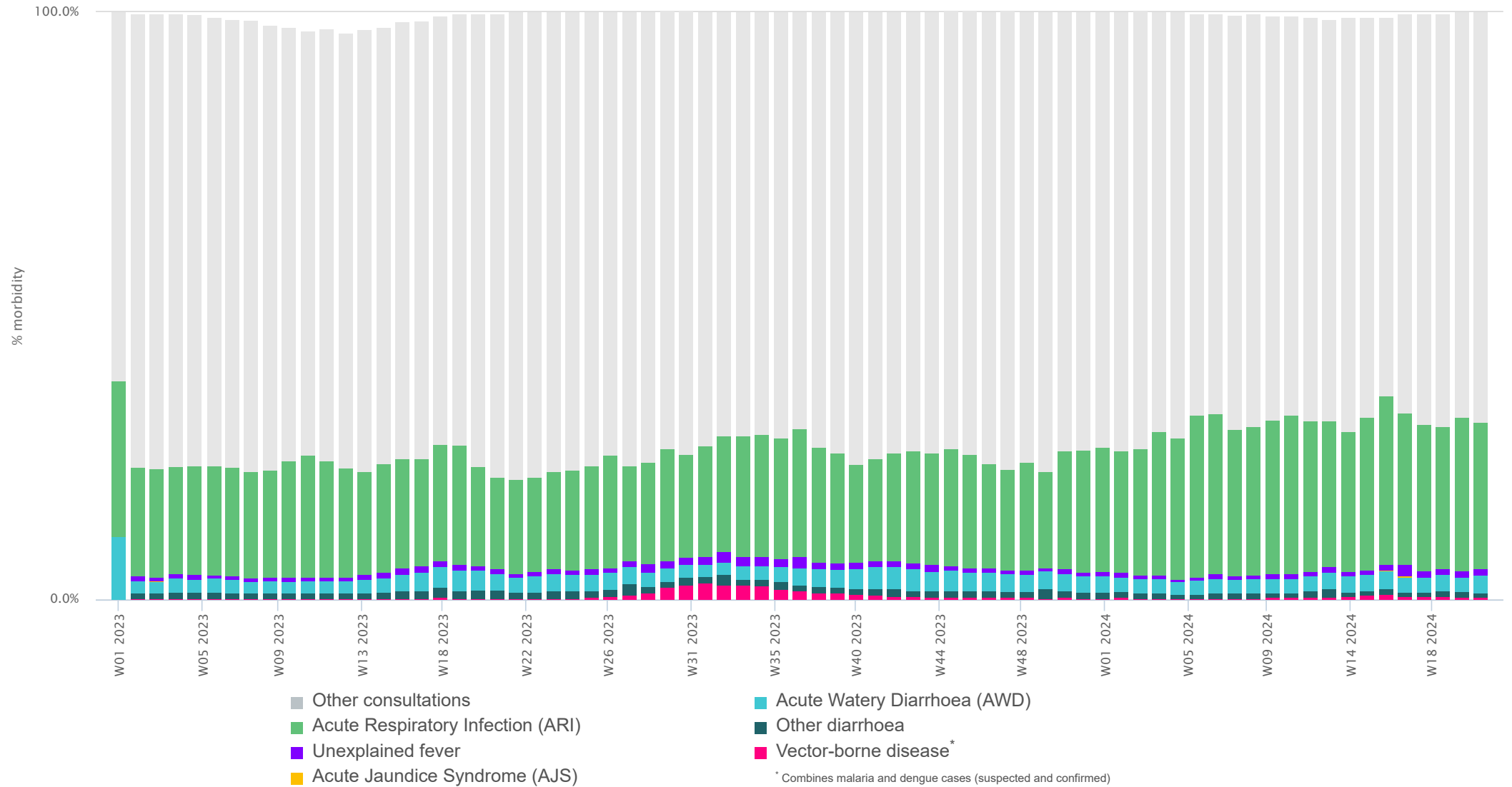
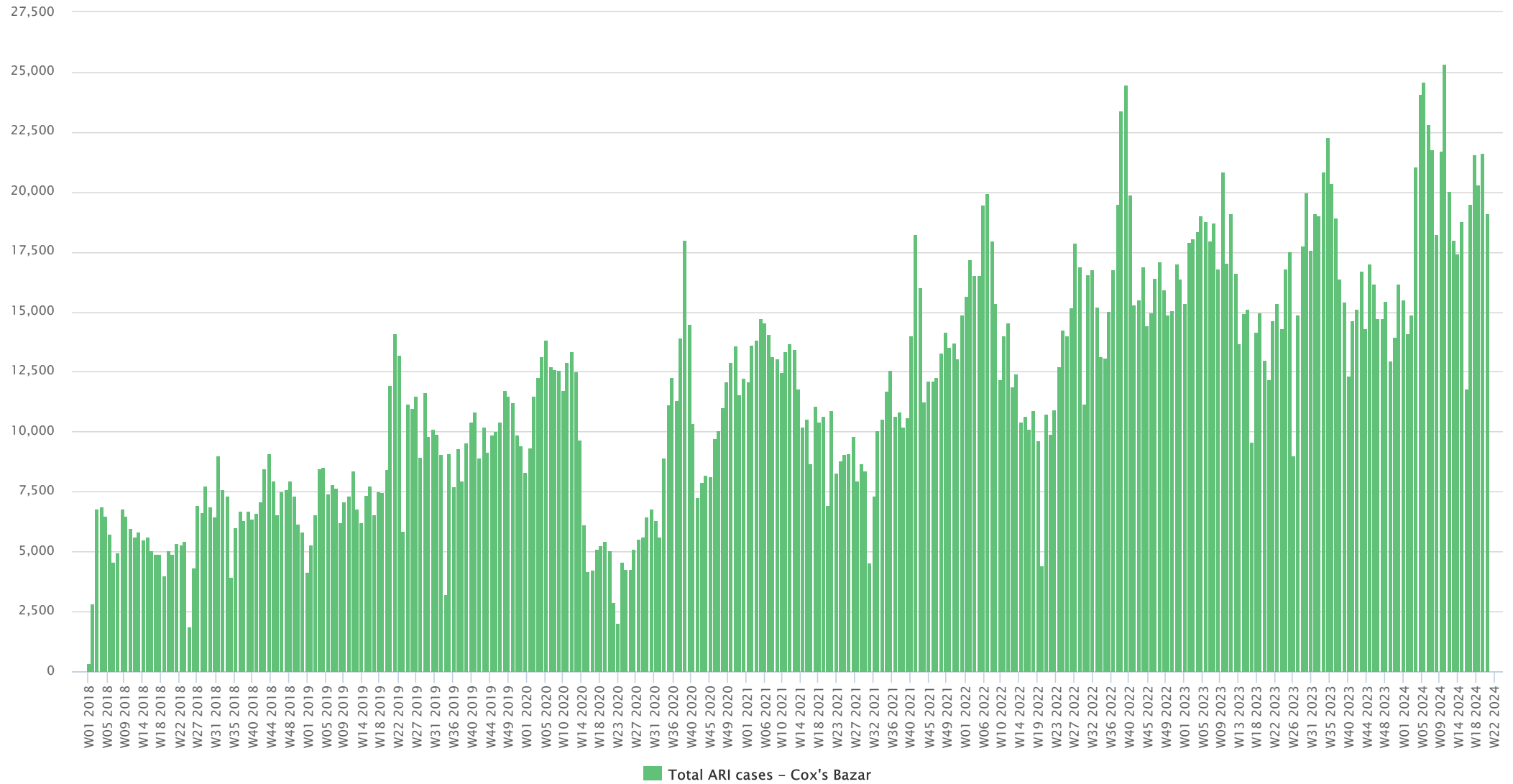
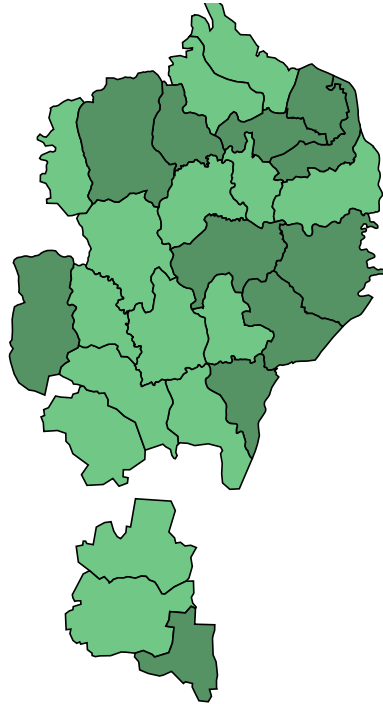


Figure 3 | Trend in number of cases over time (W38 2017 - W20 2024)

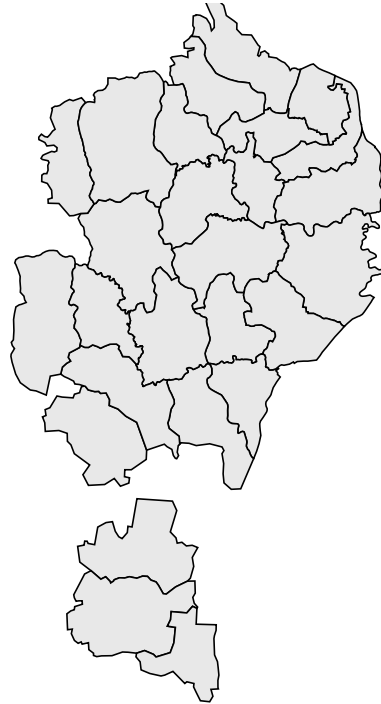


Map 1 | Map of cases by camp (W20 2024)

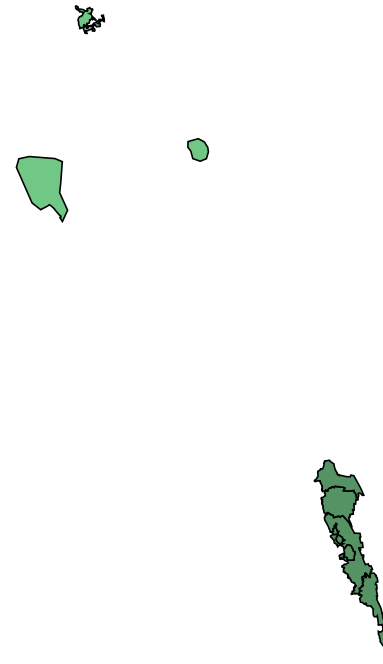
a. Ukhia | Number of cases



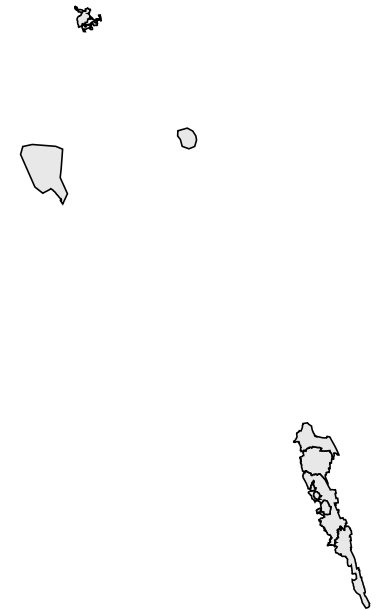
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend

Number of cases



Number of alerts



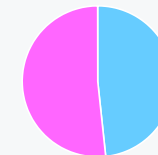
Alert threshold

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

Alert management (W20 2024)



Figure | % sex



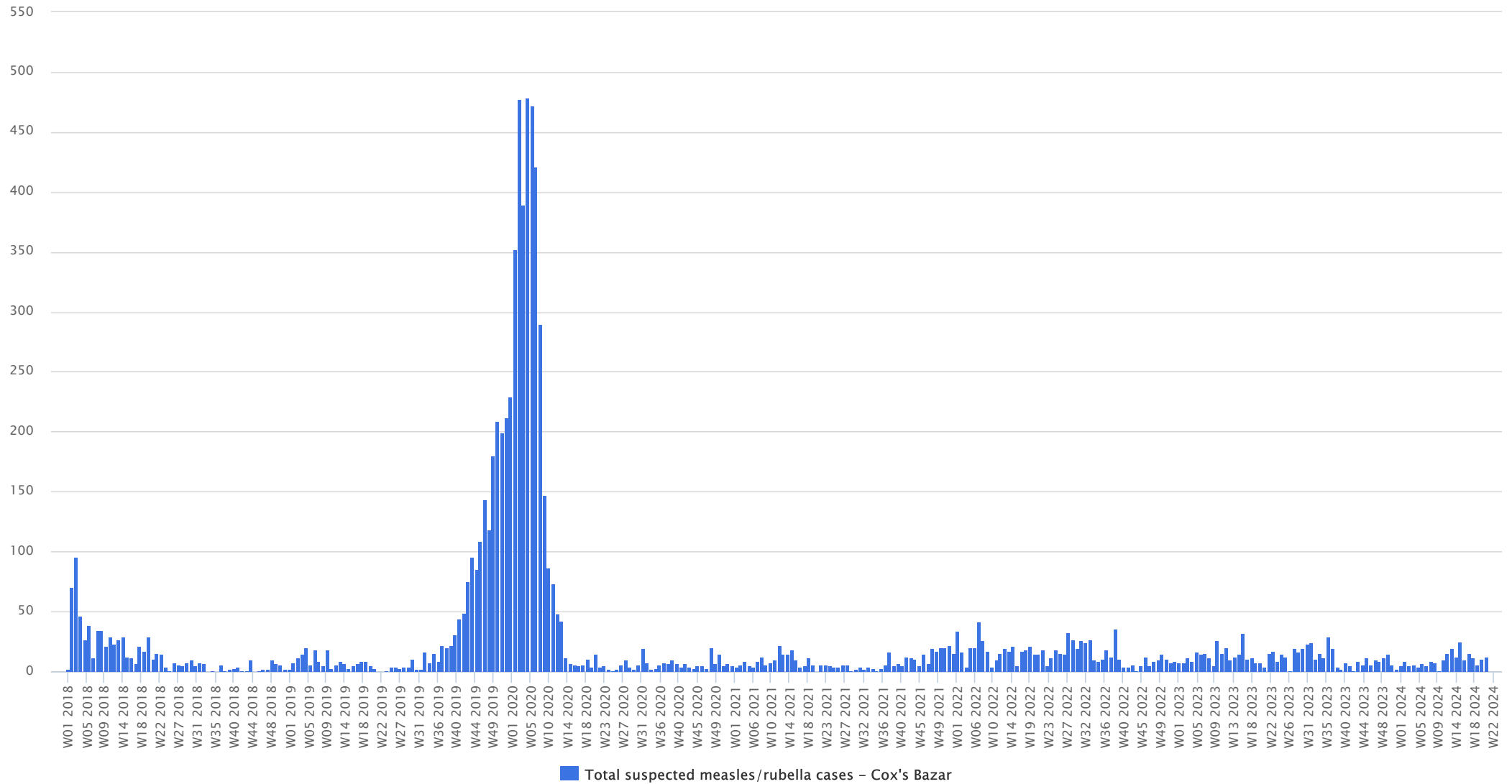
Male Female

Figure | % age



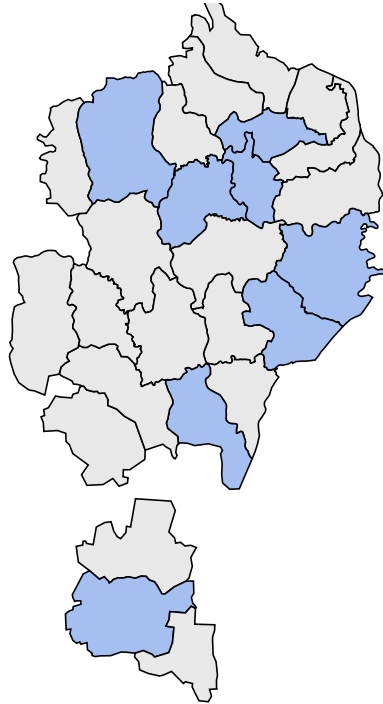
>=5 <5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W20 2024)

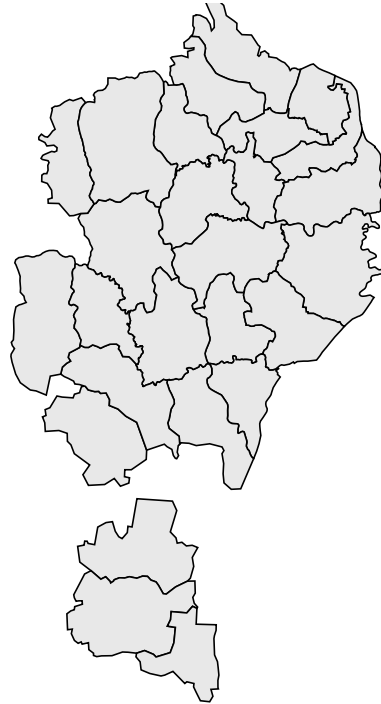


Map 2 | Map of cases by camp (W20 2024)

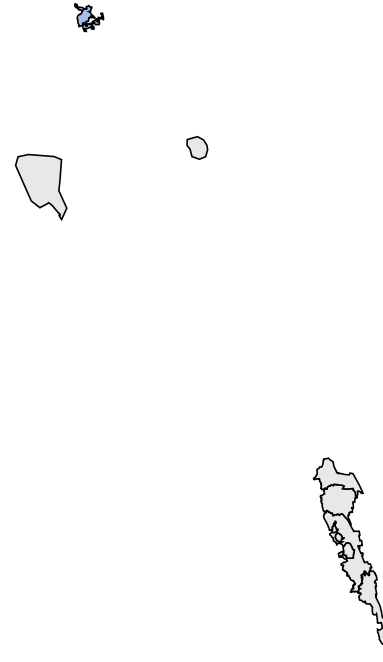
a. Ukhia | Number of cases



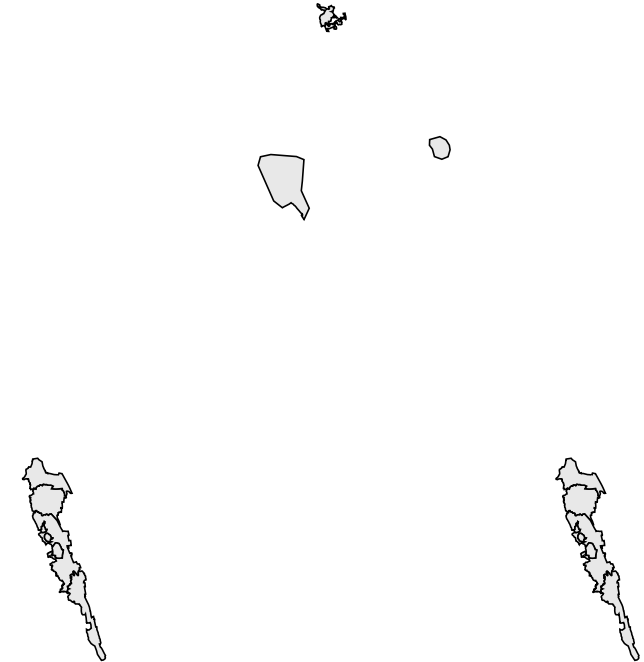
b. Ukhia | Number of alerts



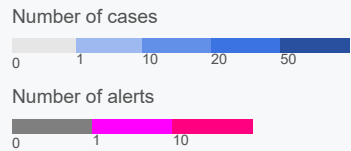
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W20 2024)

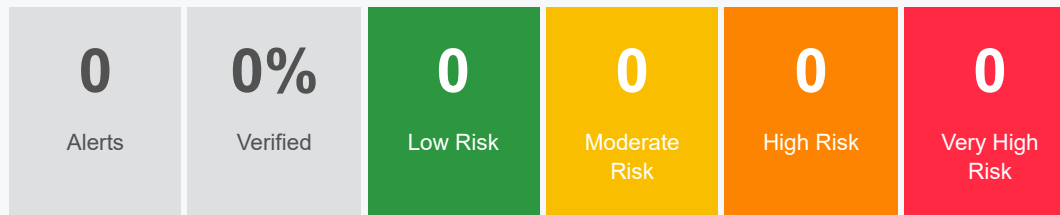


Figure | % sex

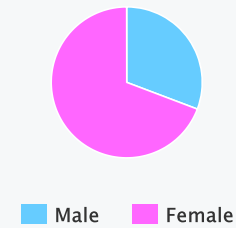


Figure | % age

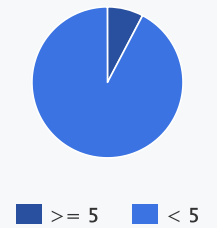
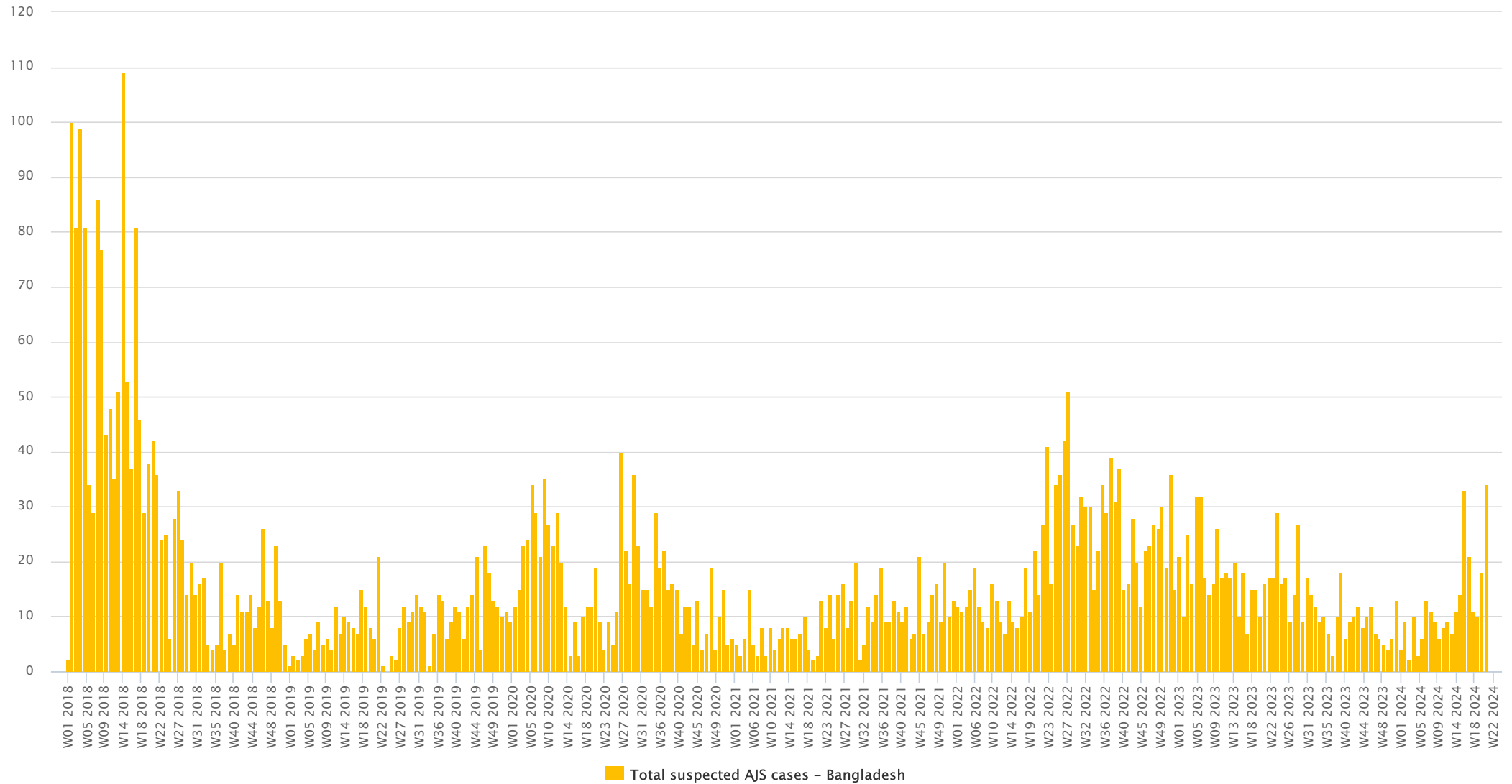
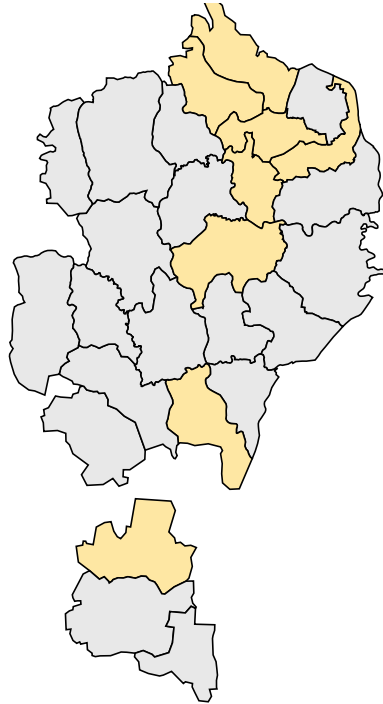


Figure 5 | Trend in number of cases over time (W38 2017 - W20 2024)

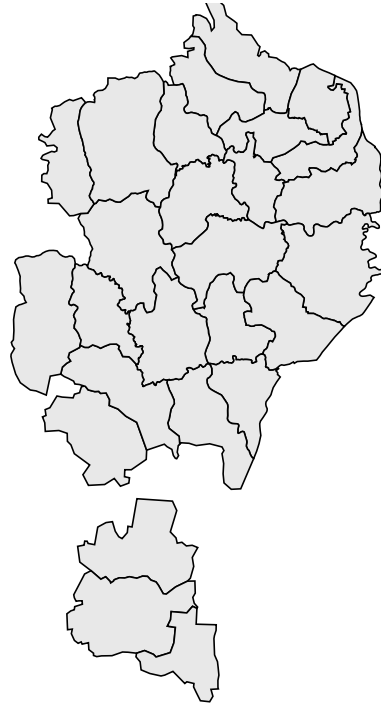


Map 3 | Map of cases by camp (W37 2017 - W20 2024)

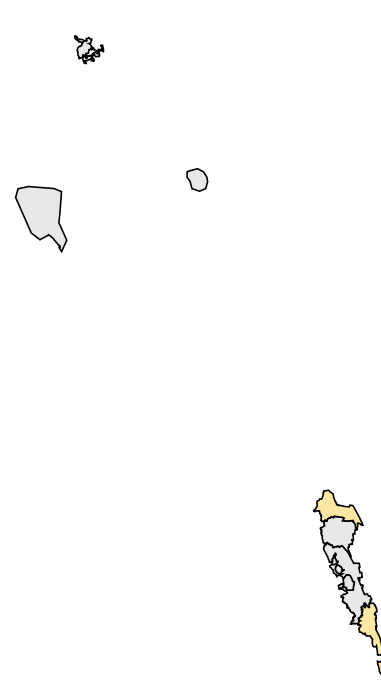
a. Ukhia | Number of cases



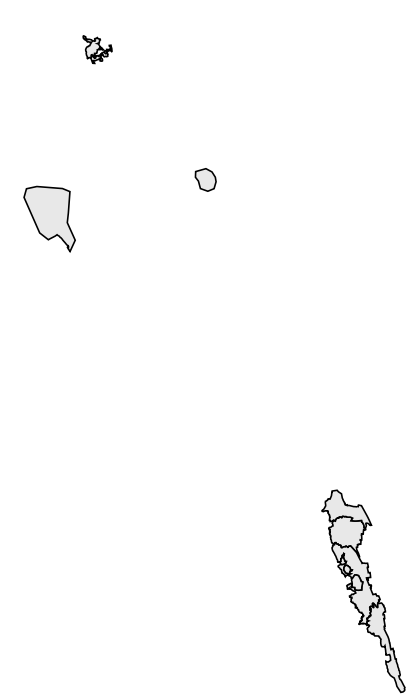
b. Ukhia | Number of alerts



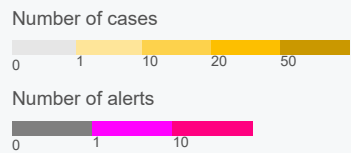
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W20 2024)

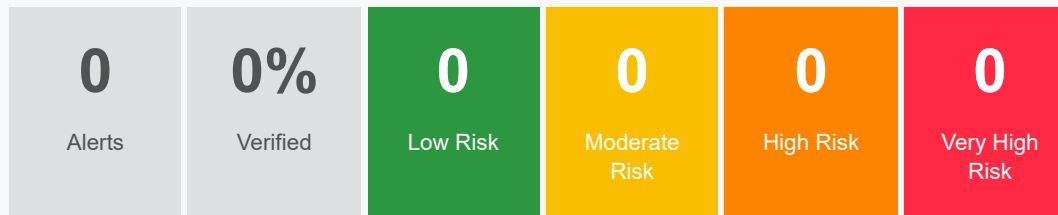


Figure | % sex

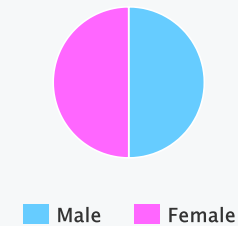


Figure | % age

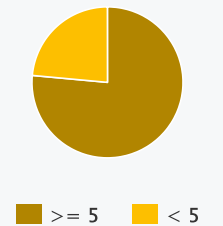


Figure 6 | Trend in number of cases over time (W38 2017 - W20 2024)

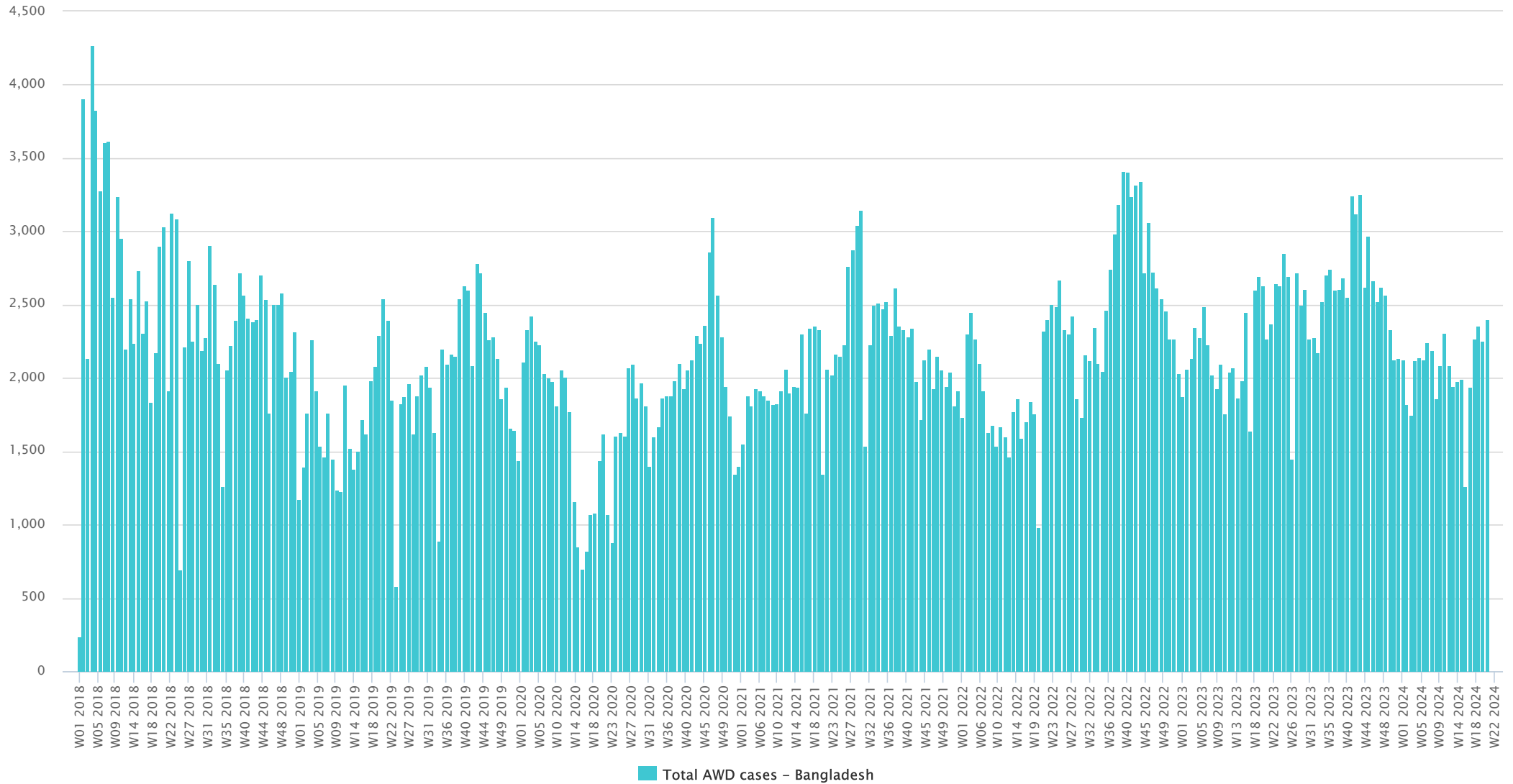
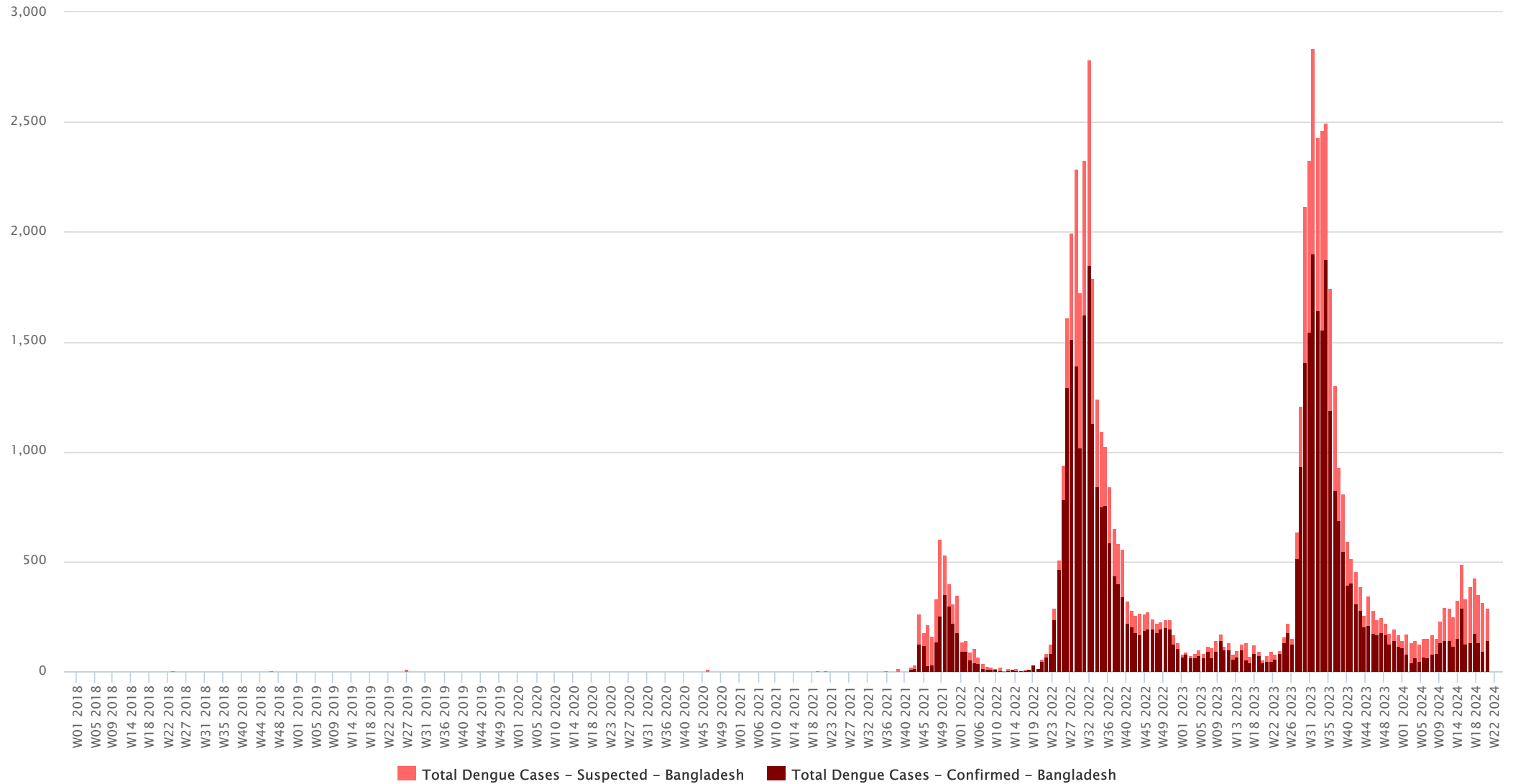
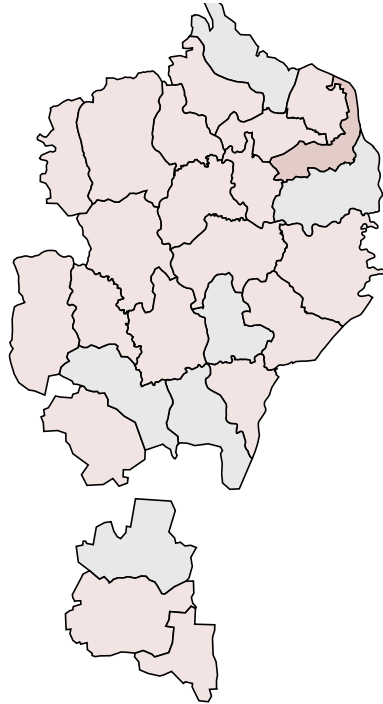


Figure 7 | Trend in number of cases over time (W38 2017 - W20 2024)

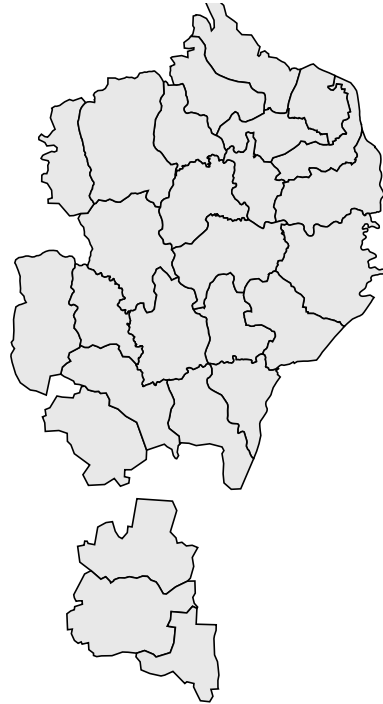


Map 4 | Map of cases by camp (W37 2017 - W20 2024)

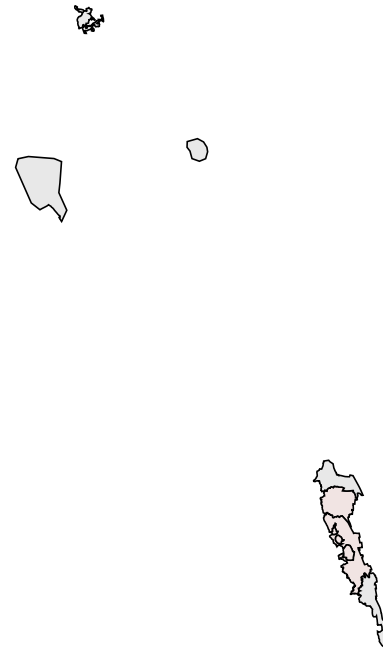
a. Ukhia | Number of cases



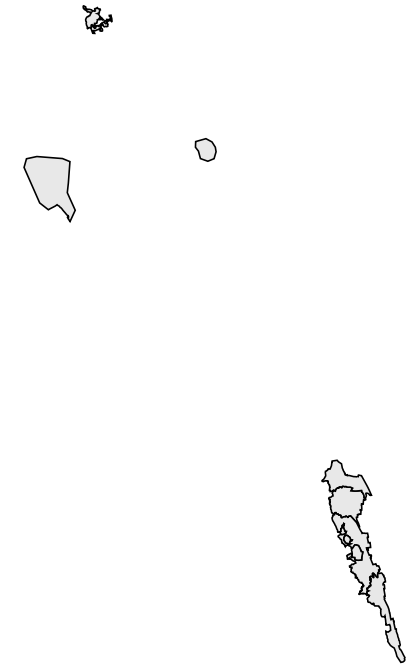
b. Ukhia | Number of alerts



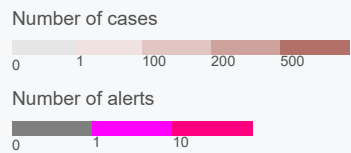
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W20 2024)

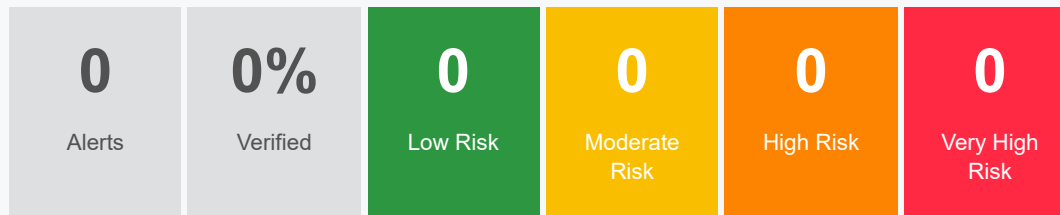


Figure | % sex

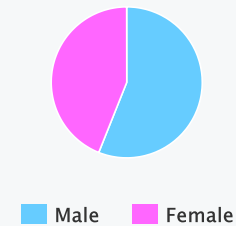


Figure | % age

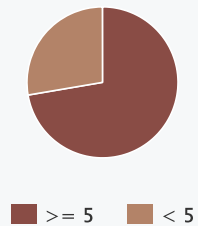
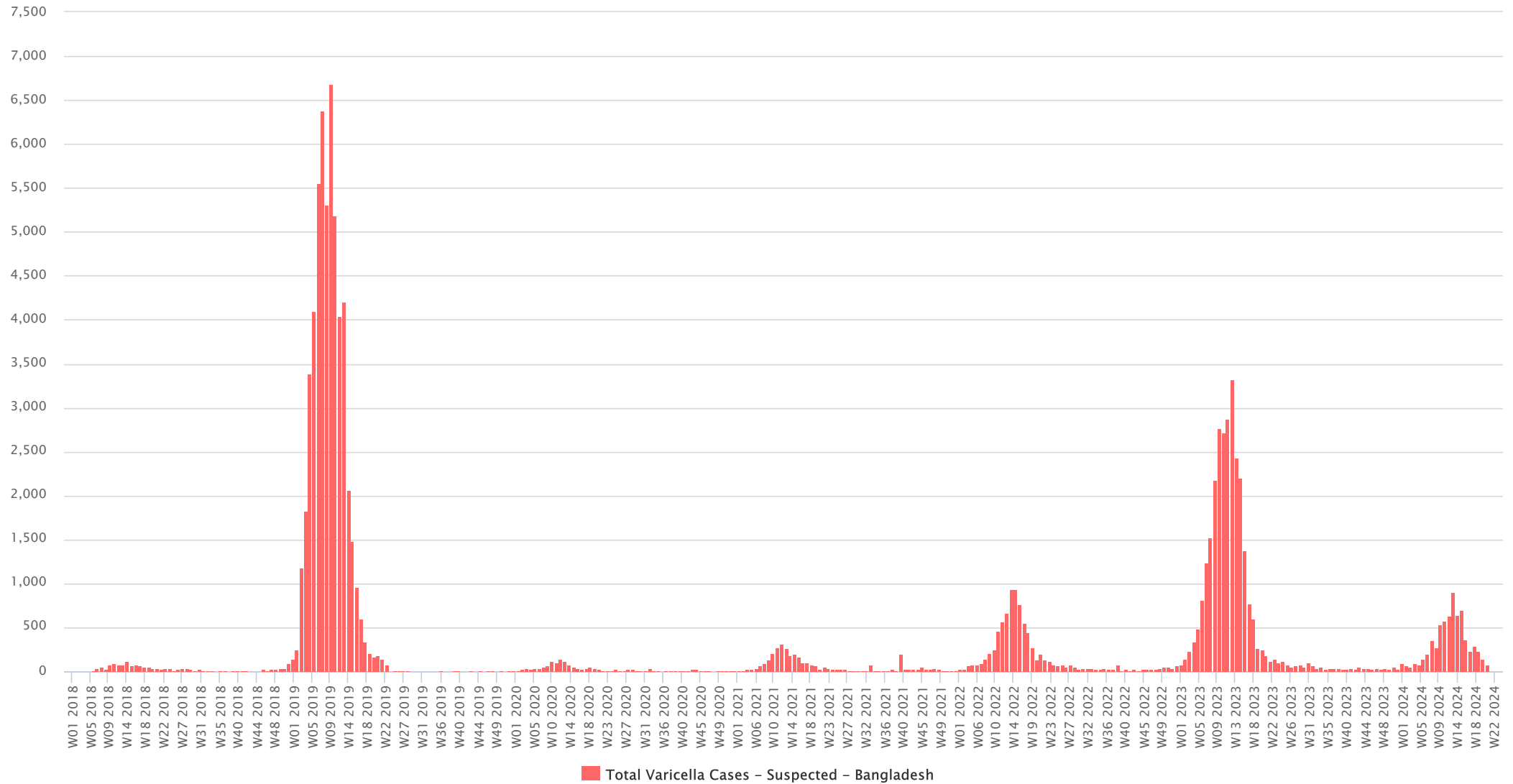
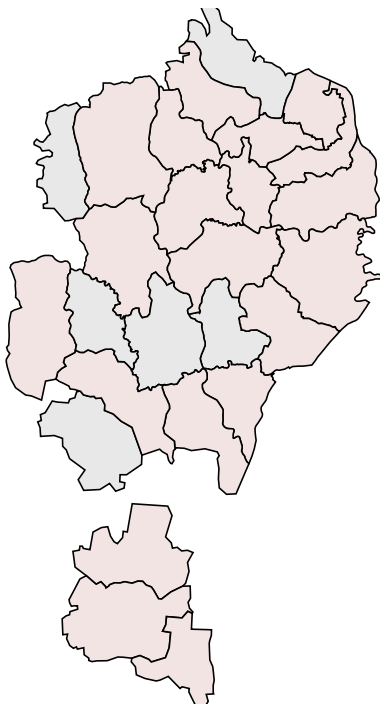


Figure 7 | Trend in number of cases over time (W38 2017 - W20 2024)

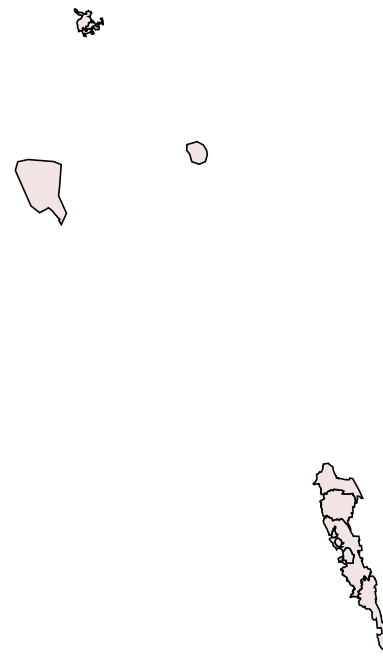


Map 4 | Map of cases by camp (W37 2017 - W20 2024)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

Number of cases

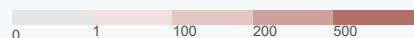
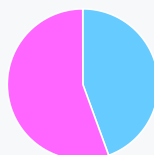
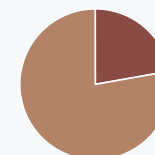


Figure | % sex



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>

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