

Epidemiological Highlights

Week 52 (24-30 December) 2023

Currently, a total of **135 health facilities** are registered in EWARS

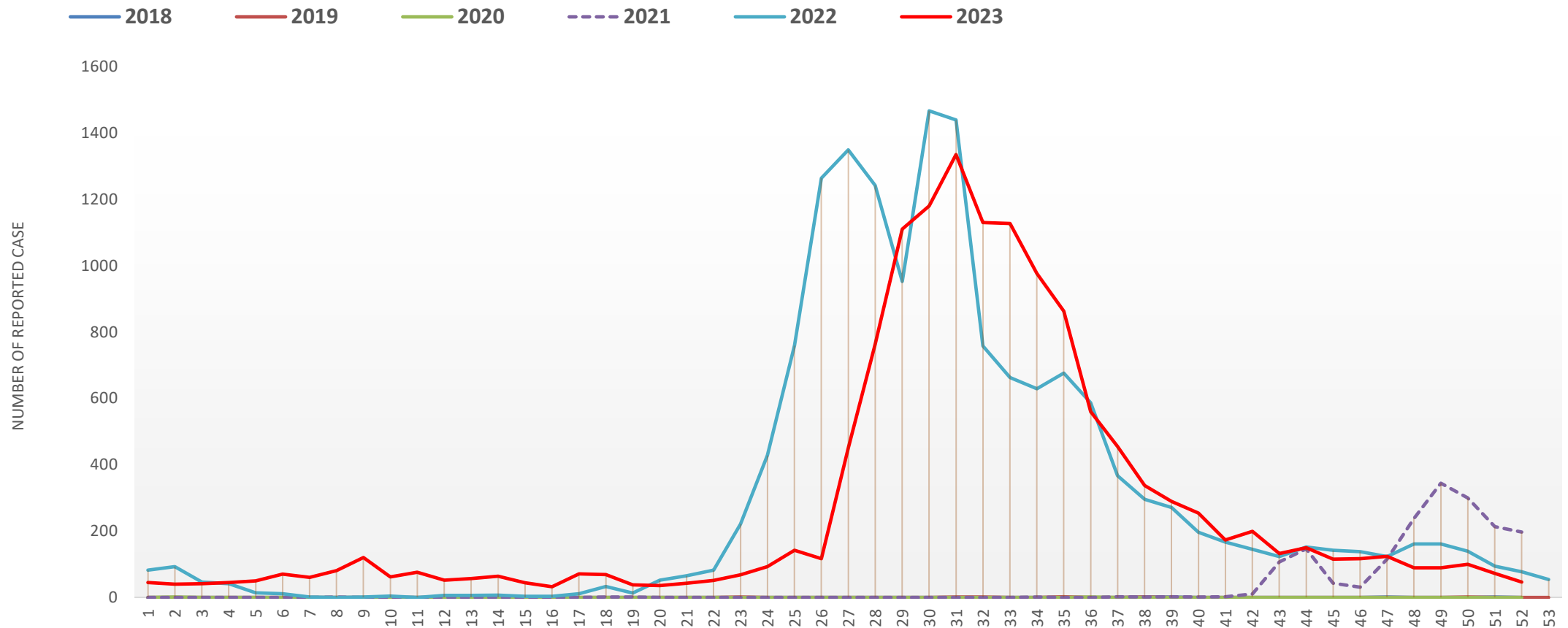
- A total of 112 of the 135 registered health facilities submitted weekly reports on time this week
- Timeliness and completeness of weekly reporting were 83% which is above the global and national weekly threshold
- Sixty-nine (59) alerts were triggered; this is a 22% decrease from the previous week (76 alerts in week 51, 2023)
- All alerts were reviewed and verified by the WHO EWARS team

Weekly Proportionate Morbidity and SARI Mortality among the Rohingya Refugee population from 2020-Epi 1-52

- Acute Respiratory Infections (22.3%), Acute Watery Diarrhoea (4.2%), and Injury and wounds (3.1%) were the diseases and health conditions with the highest proportional morbidity this week.
- Monitoring of suspected SARI deaths under enhanced Community-based mortality surveillance has been continued since week 28, 2020. So far, 45 cases of which none is probable COVID-19 Death, have been reported in 2023
- This Epi week, no new SARI death was reported hence there was no investigation, and reclassification as probable COVID-19 death was required

Year	Suspected SARI death reported (current week)	Reclassification as probable COVID-19 death
2023	45 (0)	0
2022	136	8
2021	96	15
2020	49	2

Weekly trends of confirmed Dengue Fever cases among Rohingya Refugees and host population in Cox's Bazar from 2018 to Epi Week 52, 2023

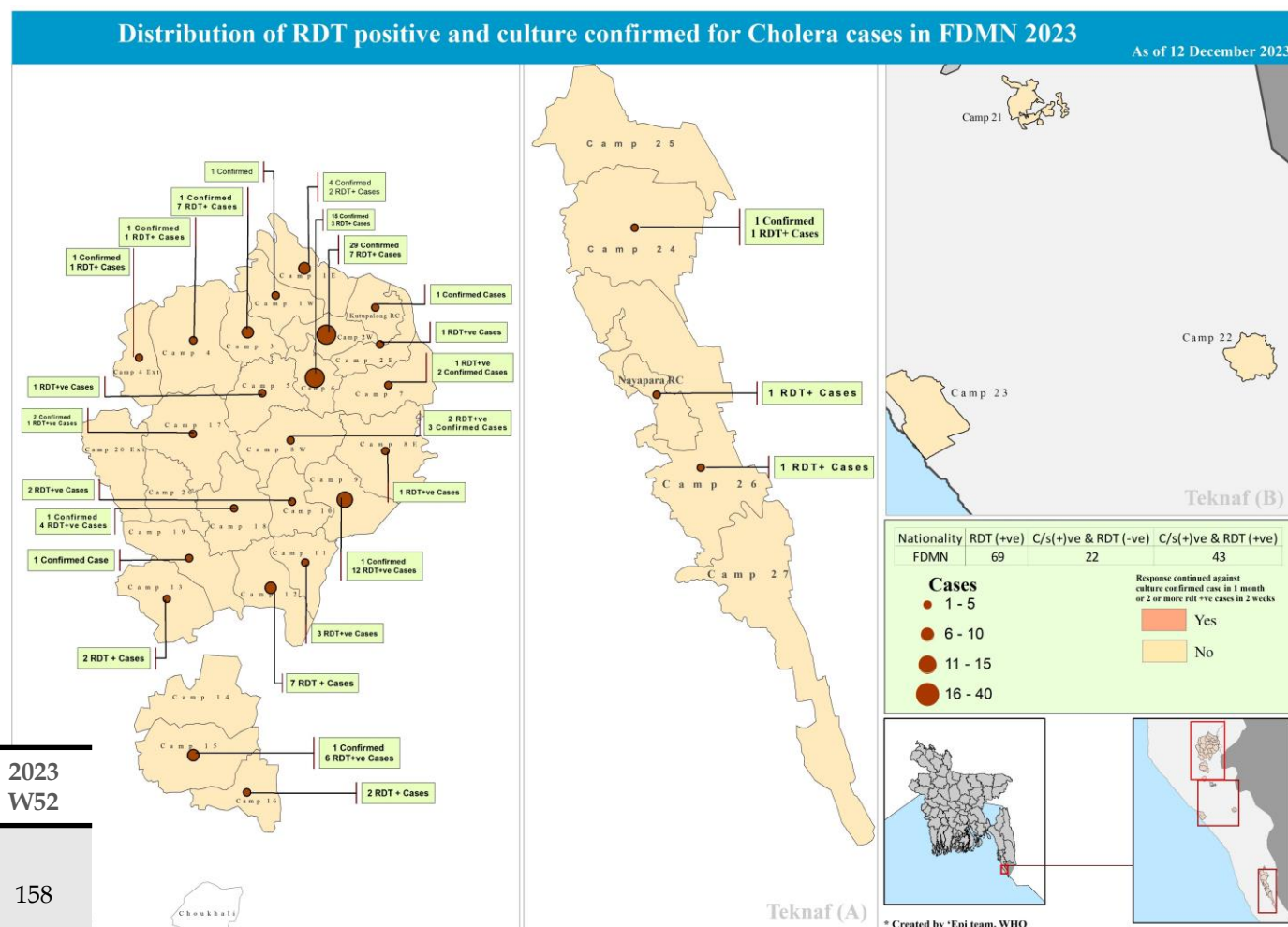


- ❑ Weekly trends of dengue fever cases continue to decline since peaking in Epi week 31 (the current surge began in Epi 26 2023)
- ❑ This week, 39 confirmed dengue cases were reported, a 46% decrease from the previous week
- ❑ A cumulative of 13,902 confirmed dengue cases including 18 deaths (CFR 0.1%) have so far been reported in 2023
- ❑ The current transmission is a continuation of that for 2021 and 2022 (possible endemic transmission established)

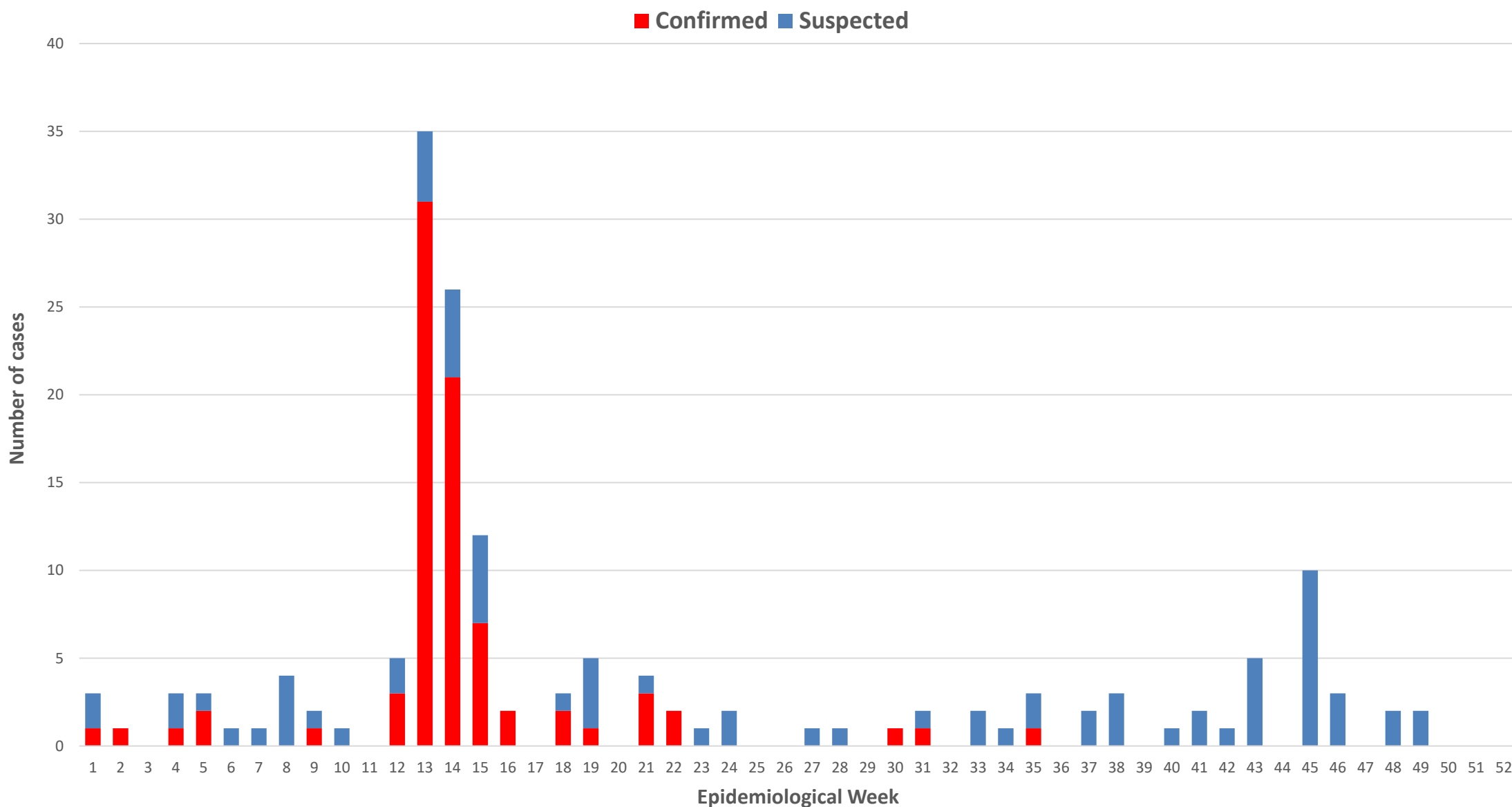
Cholera/AWD Surveillance Updates

- In this week, no new cholera cases were reported
- A total of 158 cases of which 77 RDT-positive AWD/cholera suspected cases and 81 culture-confirmed Cholera cases have so far been reported in (Epi week 1-52) 2023.
- Cumulatively there are 1020 RDT AWD cases/Cholera suspects reported while 483 cases were culture-confirmed since transmission in 2018.

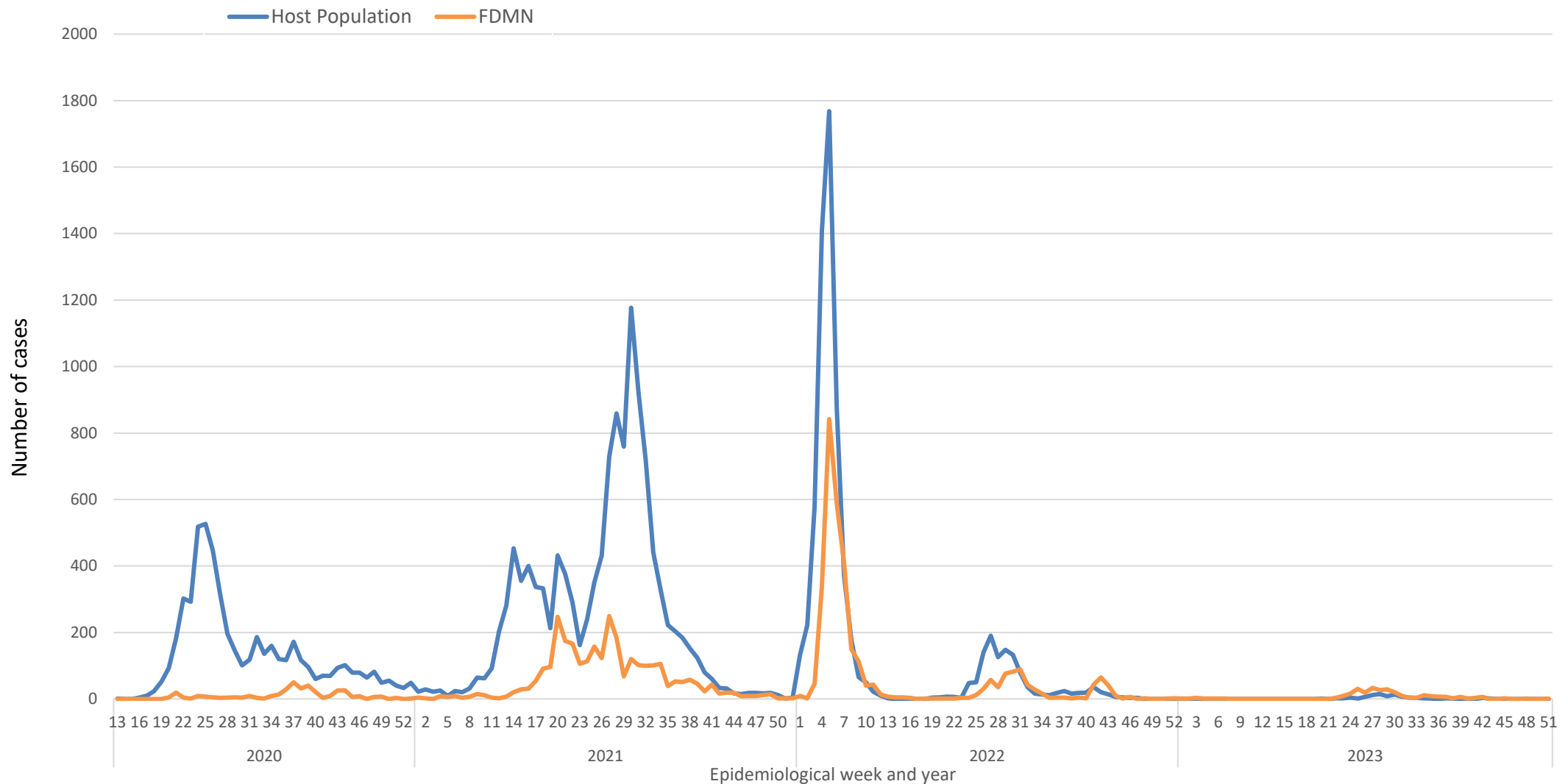
	2018	2019	2020	2021	2022	2023 W52
RDT positive AWD cases/Cholera suspects	49	258	28	357	170	158
Culture confirmed for Cholera	7	184	5	136	70	81



Weekly trends of suspected and confirmed cholera cases from Epi Week 1-52, 2023



Weekly Trends of COVID-19 Cases among Rohingya Refugees and Host Population in Cox's Bazar District from Epi Week 13, 2020- Epi Week 52, 2023



Rohingya Refugees: One (1) new confirmed case was reported this week from Ukhia based Camp, weekly TPR is 1.4%, and case incidence was 1.1 cases/1 million pop.
Host Population: No (0) new confirmed case was reported this week from the Host community, weekly TPR and case incidence were zero

Weekly and annual Diphtheria Surveillance Updates from 2017- Epi week 52, 2023

Four (4) suspected diphtheria cases were reported in go.data in this Epi week

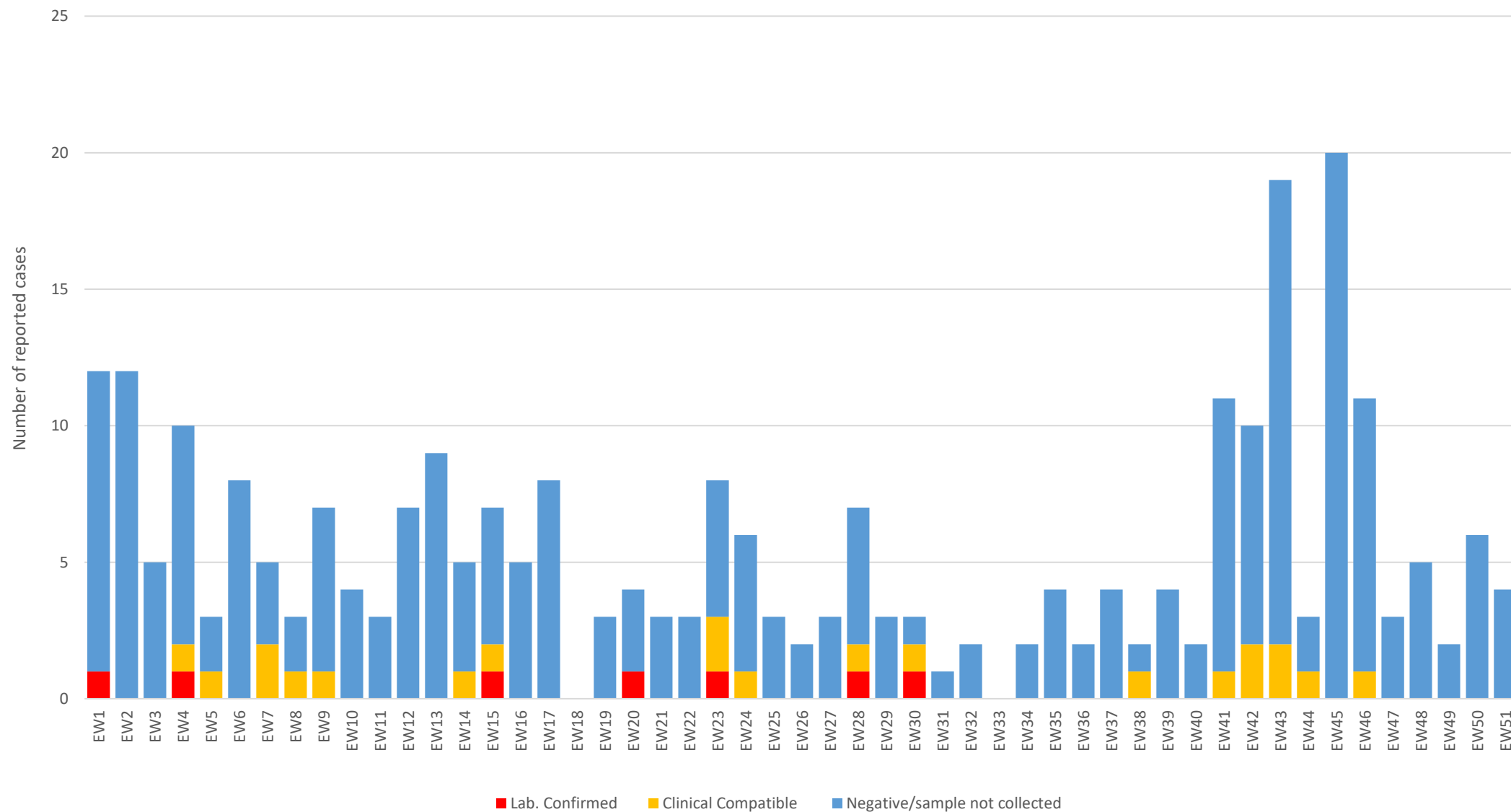
The last confirmed case was reported on 29 July 2023

About 286 cases (7 lab. confirmed, 24 clinically compatible and 254 negative/sample not collected) of which there was one (1) death reported so far in 2023.

In total 54 deaths have so far been reported since 2017, with the last death reported on 15 May 2023

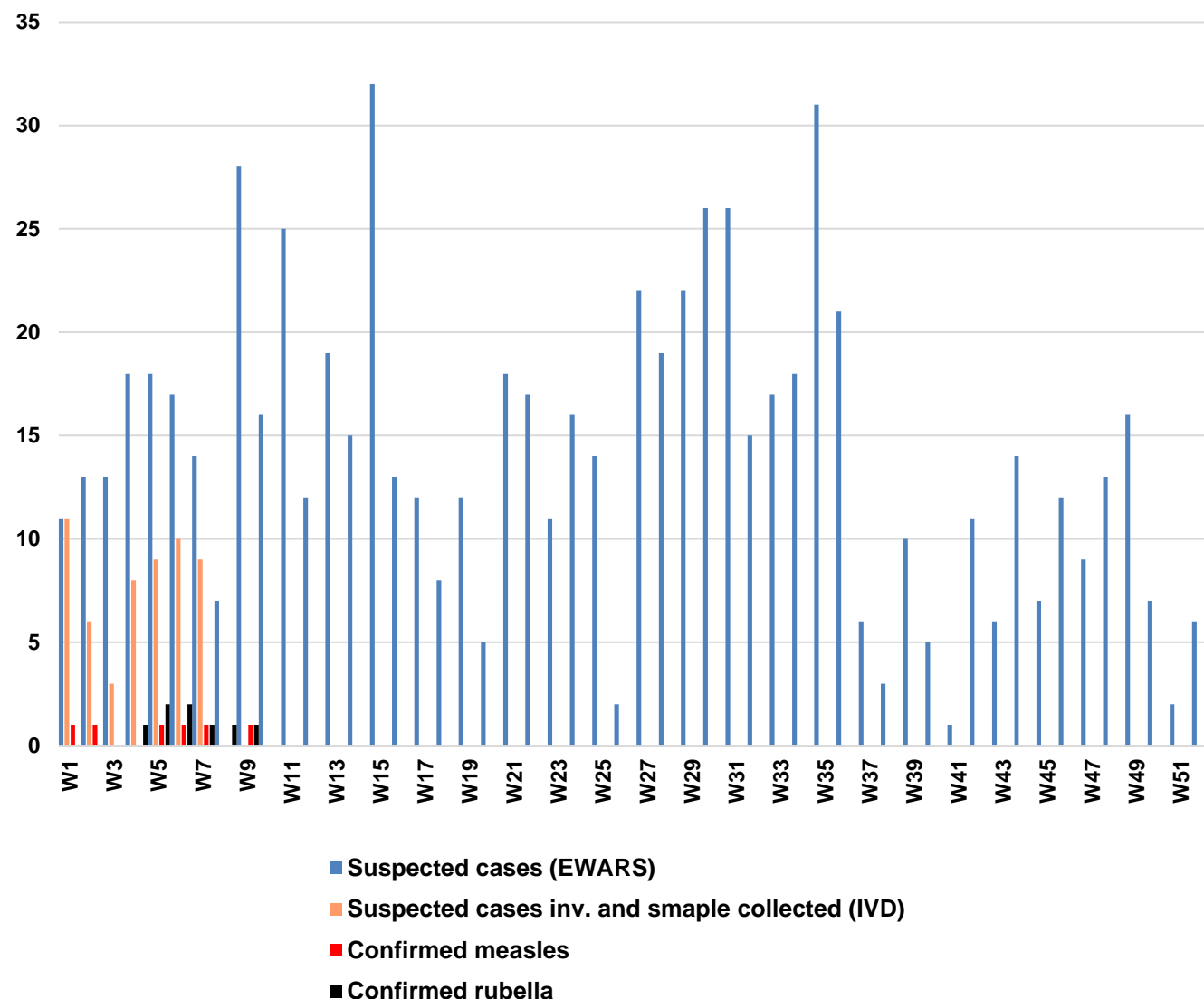
Classification	2017	2018	2019	2020	2021	2022	2023
Lab. Confirmed	66	226	31	19	30	56	7
Clinical Compatible	1154	1555	60	9	29	3	24
Negative/sample not collected	1796	3549	523	198	118	349	250
Death	30	14	3	0	5	2	1

Weekly trends of Diphtheria cases from Epi weeks 1-52, 2023



Epi Curve of Weekly Suspected Measles Cases Week 1-52, 2023

- Six (6) suspected measles cases were reported this Epi week
- A total of 724 cases have so far been reported through EWARS, 58 cases were reported through IVD case-based surveillance of which 14 were confirmed through the lab (IgM positive)
- Six (6) confirmed cases were measles and 8 were rubella confirmed
- Epidemiology and IVD units undertaking investigations



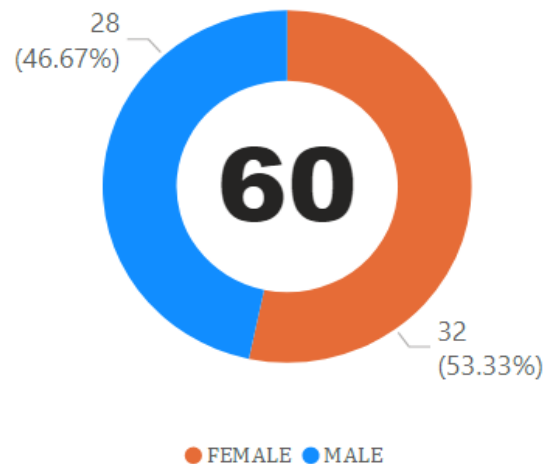
Proportionate Mortality updates Epi week 52, 2023

Probable causes of death	Epi week 52	In 2023
Still Birth	4 (7%)	333 (12%)
Neonatal Death (<28 days old)	6 (10%)	289 (10%)
Infectious Disease	--	72 (3%)
Severe Acute Respiratory Infection (SARI)	--	39 (1%)
Injury	1 (2%)	65 (2%)
Maternal Death	1 (2%)	49 (2%)
Acute Malnutrition	--	3(0%)
Other	48 (80%)	1976 (69%)
Total	60 (100%)	2826 (100%)

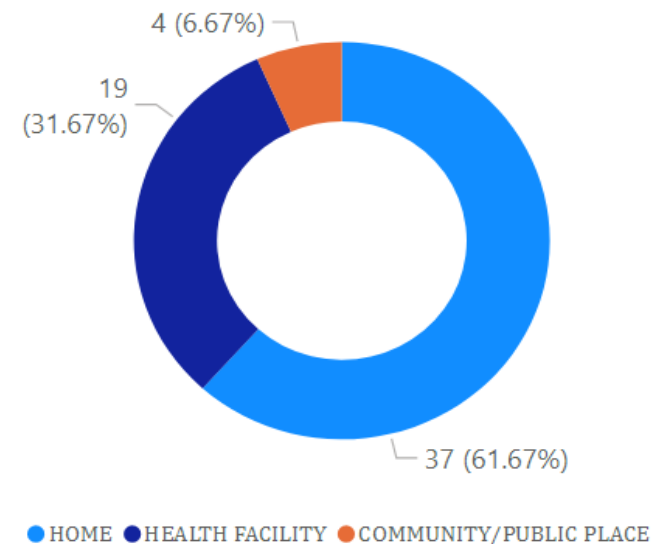
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable

Community-based Mortality Surveillance updates Epi week 52, 2023

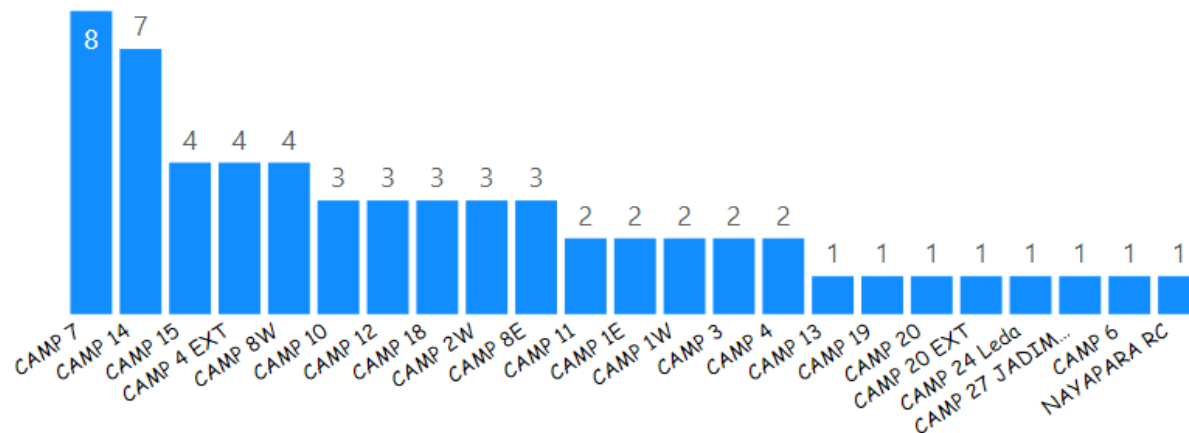
Gender distribution



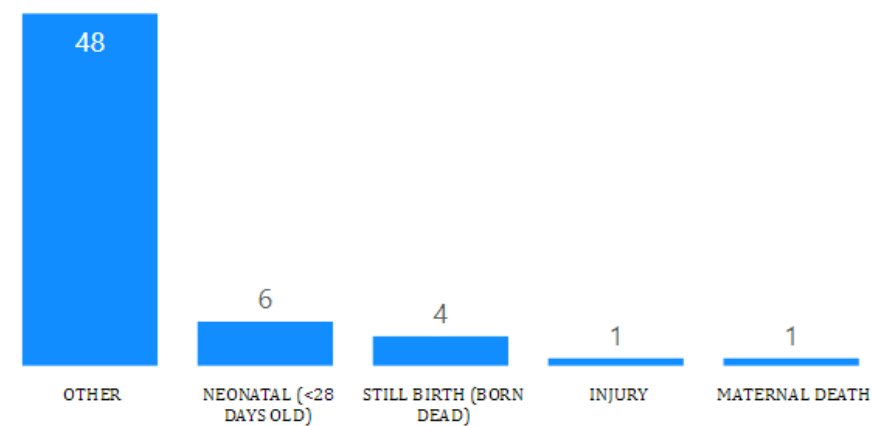
Place of death



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W52 2023



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

#	%	
952,309	-	Estimated total Rohingya population ¹
923,358	97%	Total population under surveillance
148	-	Total number of health facilities
135	91%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

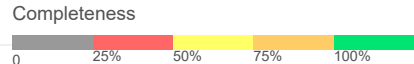
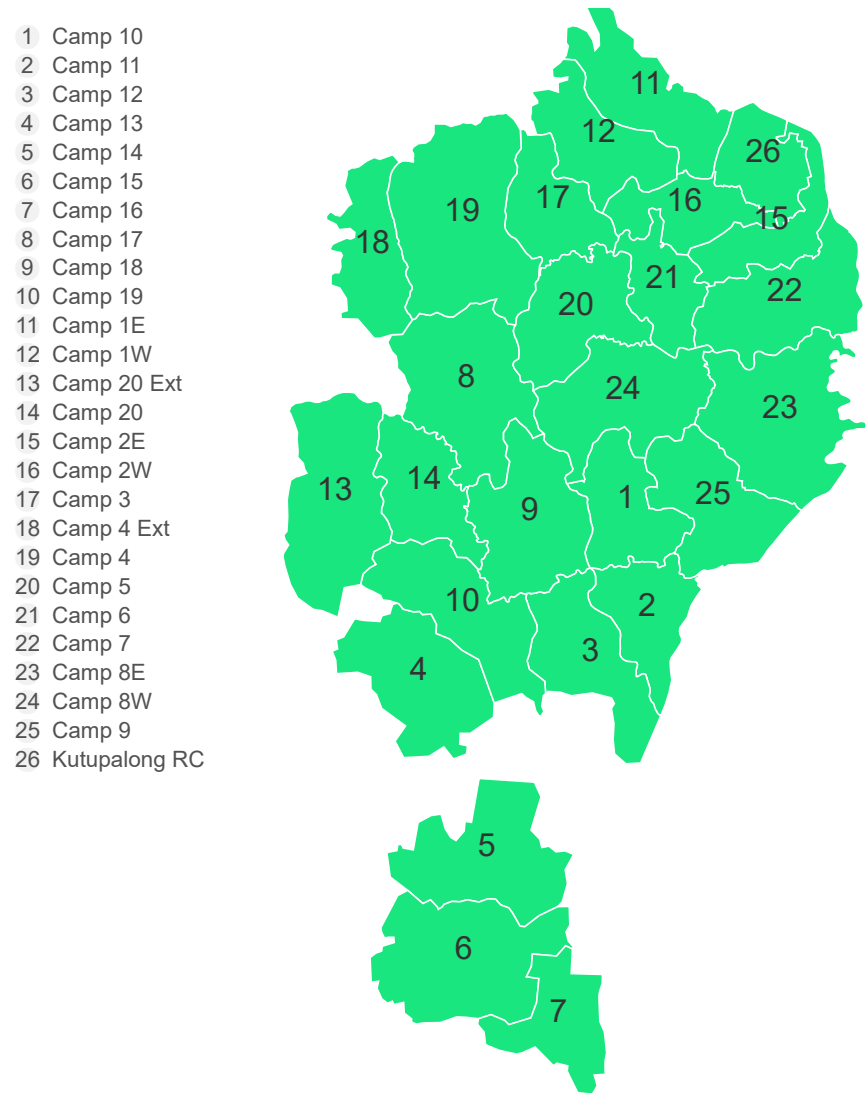
W52	Cumulative (2023)	
112	7280	Number of weekly reports received
83%	96%	Completeness
83%	87%	Timeliness

Table 3 Alert performance indicators

W52	Cumulative (2023)	
59	3,744	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 2022.

Map 1a | Ukhia completeness by camp



Map 1b | Teknaf completeness by camp

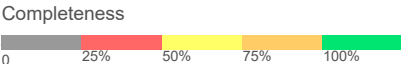
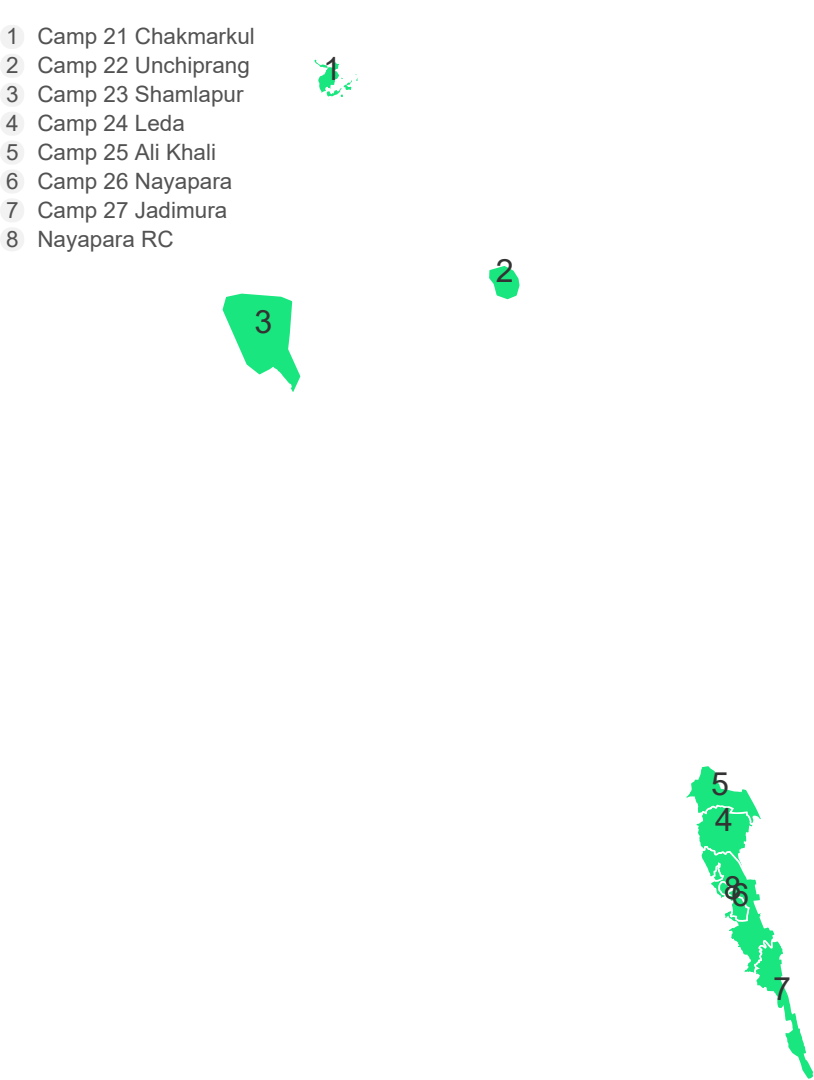
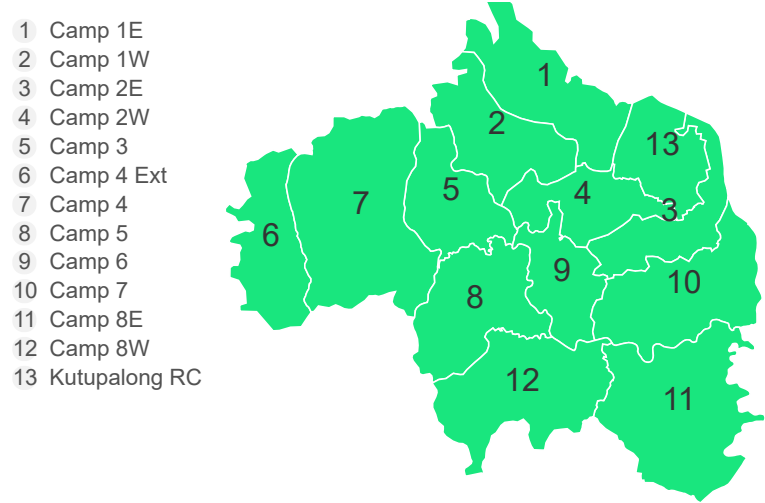


Table 4 | Performance by camp (W52 2023)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	4	100%	88%
Camp 1W	4	3	75%	75%
Camp 2E	3	2	100%	83%
Camp 2W	3	1	67%	50%
Camp 3	3	3	100%	100%
Camp 4	5	4	80%	80%
Camp 4 Ext	1	1	100%	100%
Camp 5	4	3	100%	88%
Camp 6	2	2	100%	100%
Camp 7	4	3	100%	75%
Camp 8E	9	8	88%	81%
Camp 8W	3	1	67%	50%
Kutupalong RC	2	2	100%	100%

Map 2 | Completeness by camp



Completeness

0

25%

50%

75%

100%

Table 5 | Performance by camp (W52 2023)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	2	75%	63%
Camp 11	3	3	100%	83%
Camp 12	3	3	100%	100%
Camp 13	6	5	100%	75%
Camp 14	5	5	100%	80%
Camp 15	7	6	86%	71%
Camp 16	7	7	100%	93%
Camp 17	4	3	100%	83%
Camp 18	4	3	100%	88%
Camp 19	3	3	100%	100%
Camp 20	3	3	100%	100%
Camp 20 Ext	2	2	100%	100%
Camp 9	5	4	80%	70%

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

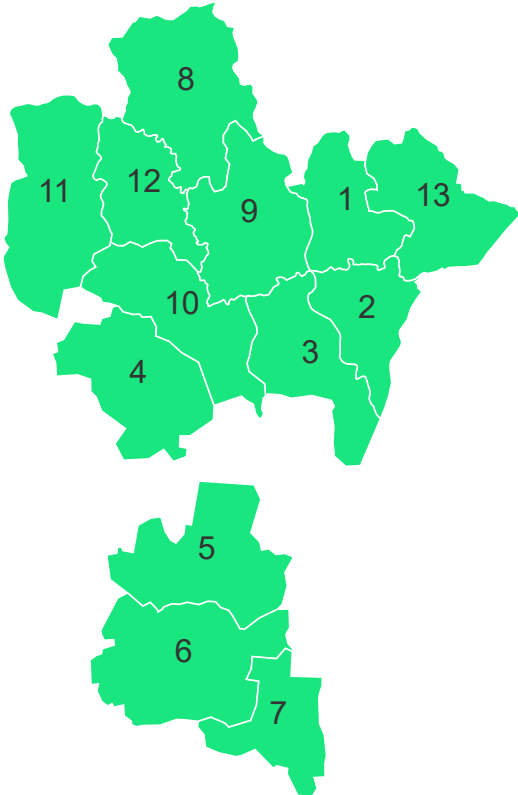


Table 6 | Performance by camp (W52 2023)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	3	3	100%	83%
Camp 22 Unchiprang	4	3	75%	63%
Camp 23 Shamlapur	2	2	100%	100%
Camp 24 Leda	2	2	100%	75%
Camp 25 Ali Khali	3	3	100%	100%
Camp 26 Nayapara	4	3	100%	88%
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 (W52 2023)

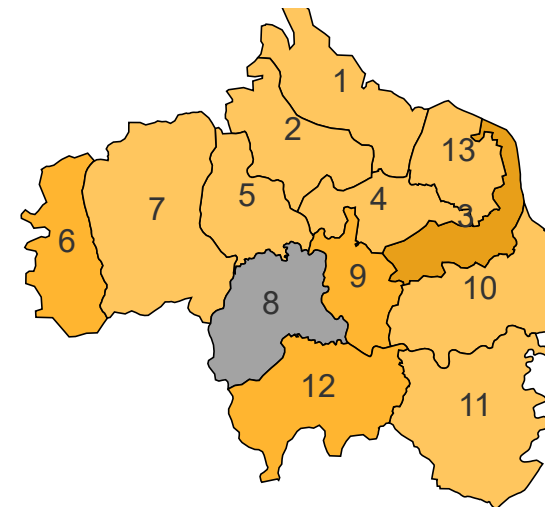
Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	2	1	50%	50%	IRC	8	3	75%	75%
AWARD	12	6	50%	50%	MSF	14	7	71%	71%
BASHMAH	2	1	50%	50%	MoH	14	4	57%	57%
BDRCS	18	8	44%	44%	MHI	0	1	0%	0%
BRAC	10	10	50%	0%	Medair	0	0		
CARE	0	0			FH/MTI	8	4	100%	100%
GH/CPI	2	1	50%	50%	PRANTIC	2	0	0%	0%
DBC	2	1	50%	50%	PULSE	2	1	50%	50%
DSK	0	0			QC	2	1	50%	50%
DCHT-PWJ	2	1	50%	50%	PHD	16	7	100%	100%
FRNDS	16	5	50%	50%	RPN	4	1	25%	25%
GK	19	10	100%	100%	RHU	6	3	50%	100%
Global One	0	1	0%	0%	RI	0	0		
GUSS	2	1	50%	50%	RTMI	14	6	29%	29%
HAEFA	4	2	50%	50%	SALT	2	1	50%	50%
HAIB	0	0			SCI	14	7	100%	100%
HMBDF	4	2	50%	50%	DCHT-MM	2	1	50%	50%
HOPE	2	1	50%	50%	Turkish Government	2	0	0%	0%
ICRC	0	0			TdH	4	2	100%	100%
IOM	38	17	95%	89%					

Table 8 | Performance by camp

Northern group	W52		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	2	0%	113	80%
Camp 1W	1	0%	172	76%
Camp 2E	9	0%	452	68%
Camp 2W	2	0%	191	74%
Camp 3	1	0%	191	64%
Camp 4	2	0%	153	73%
Camp 4 Ext	3	0%	45	64%
Camp 5	0	0%	86	77%
Camp 6	3	0%	72	71%
Camp 7	1	0%	81	73%
Camp 8E	1	0%	88	82%
Camp 8W	3	0%	178	75%
Kutupalong RC	1	0%	53	85%

Map 5 | Number of alerts 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



of alerts



Table 9 | Performance by camp

Southern group	W52		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	3	0%	91	55%
Camp 11	1	0%	69	74%
Camp 12	1	0%	80	75%
Camp 13	2	0%	106	79%
Camp 14	2	0%	117	67%
Camp 15	3	0%	171	58%
Camp 16	0	0%	126	67%
Camp 17	0	0%	62	63%
Camp 18	4	0%	182	65%
Camp 19	0	0%	18	83%
Camp 20	2	0%	75	65%
Camp 20 Ext	0	0%	20	90%
Camp 9	0	0%	107	76%

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

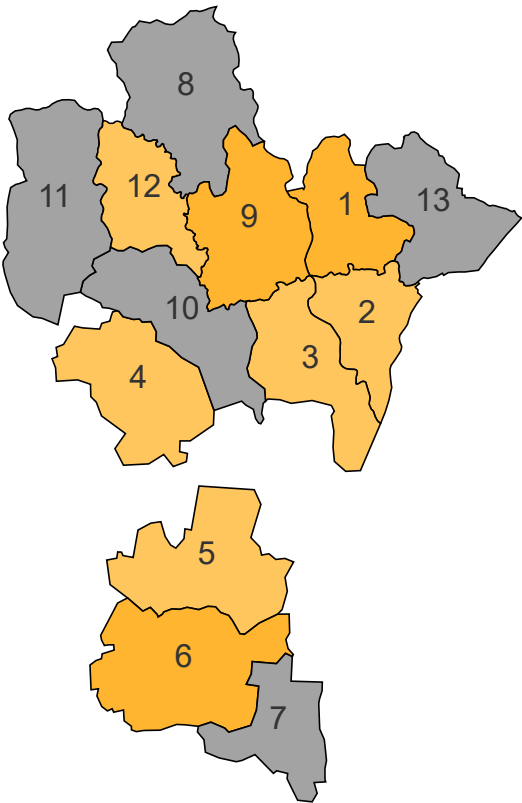


Table 10 | Performance by camp

Teknaf	W52		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	3	0%	111	61%
Camp 22 Unchiprang	0	0%	77	81%
Camp 23 Shamlapur	0	0%	4	100%
Camp 24 Leda	7	0%	279	58%
Camp 25 Ali Khali	0	0%	16	75%
Camp 26 Nayapara	0	0%	37	70%
Camp 27 Jadimura	1	0%	15	73%
Nayapara RC	1	0%	69	62%

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

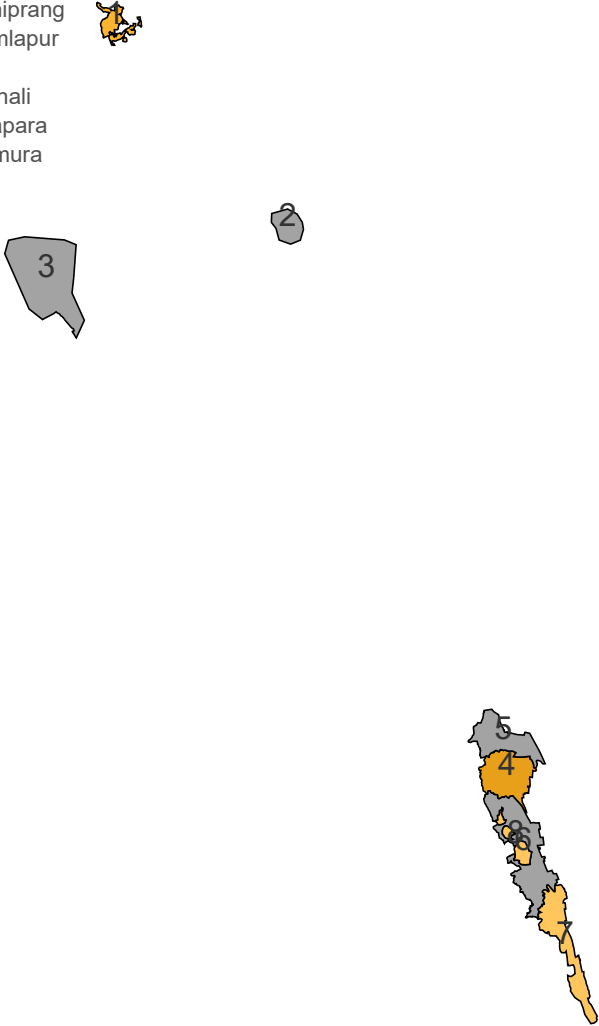


Table 11 | Performance by type of alert

Event	W52		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	0	0%	77	94%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	11	91%
Meningitis	0	0%	17	76%
Haem. fever (susp.)	0	0%	13	77%
NNT	0	0%	2	50%
Unexp. fever	0	0%	39	85%
AWD	0	0%	42	81%
ARI	0	0%	37	76%
AJS	0	0%	22	95%
Varicella (Susp.)	0	0%	93	99%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	5	0%	254	76%

Table 12 | Risk assessment

W52	Cumulative (2023)	
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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Global
EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W52 2023



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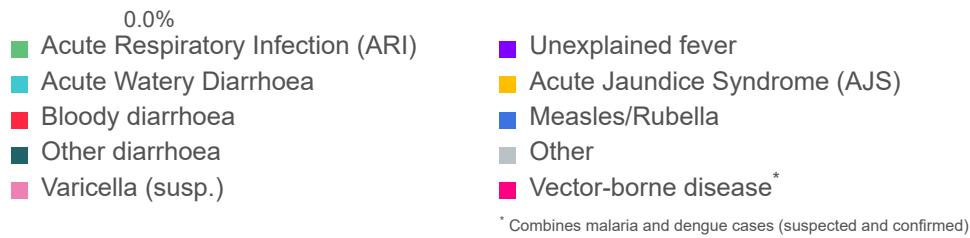
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Proportional morbidity

Figure 1 | Proportional morbidity (W52 2023)



Disease	W52		2023	
	# cases	% morbidity	# cases	% morbidity
AWD	1,834	2.9%	135,456	2.8%
Bloody diarr.	100	0.2%	10,768	0.2%
Other diarr.	709	1.1%	58,147	1.2%
Susp. Varicella	77	0.1%	29,759	0.6%
ARI	14,069	22.3%	926,086	19.1%
Measles/Rub.	6	0.0%	724	0.0%
AFP	4	0.0%	163	0.0%
Susp. menin.	3	0.0%	235	0.0%
AJS	3	0.0%	718	0.0%
Susp. HF	9	0.0%	699	0.0%
Neo. tetanus	0	0.0%	16	0.0%
Adult tetanus	0	0.0%	118	0.0%
Malaria (conf.)	1	0.0%	190	0.0%
Malaria (susp.)	60	0.1%	4,176	0.1%
Dengue (conf.)	97	0.2%	19,939	0.4%
Dengue (susp.)	36	0.1%	8,799	0.2%
Unexpl. fever	327	0.5%	46,787	1.0%
Sev. Malnut.	35	0.1%	3,024	0.1%
Inj./Wounds	1,966	3.1%	127,018	2.6%
Other	43,805	69.3%	3,482,015	71.7%
Total	62,861	100%	4,859,667	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W52)

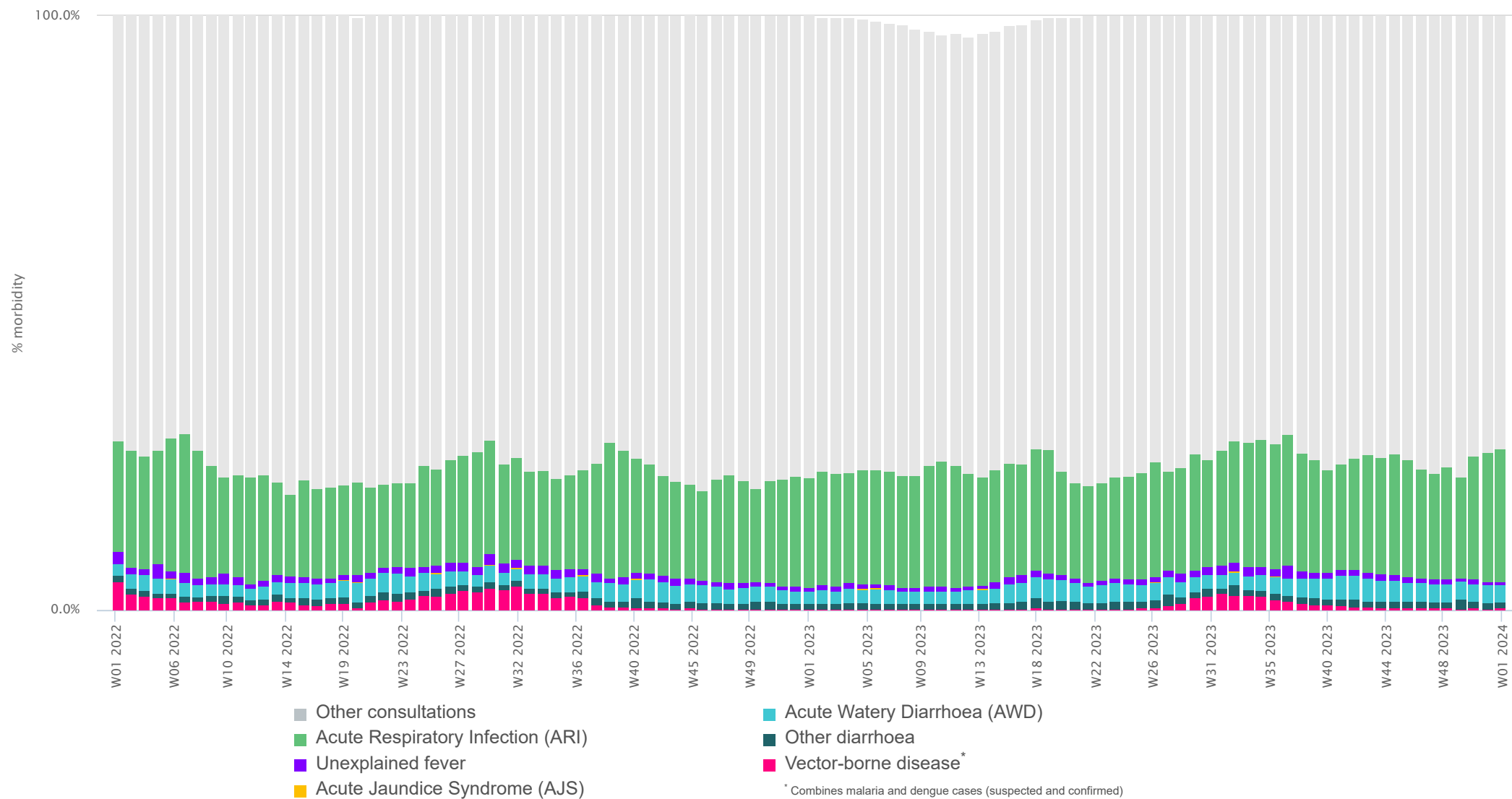
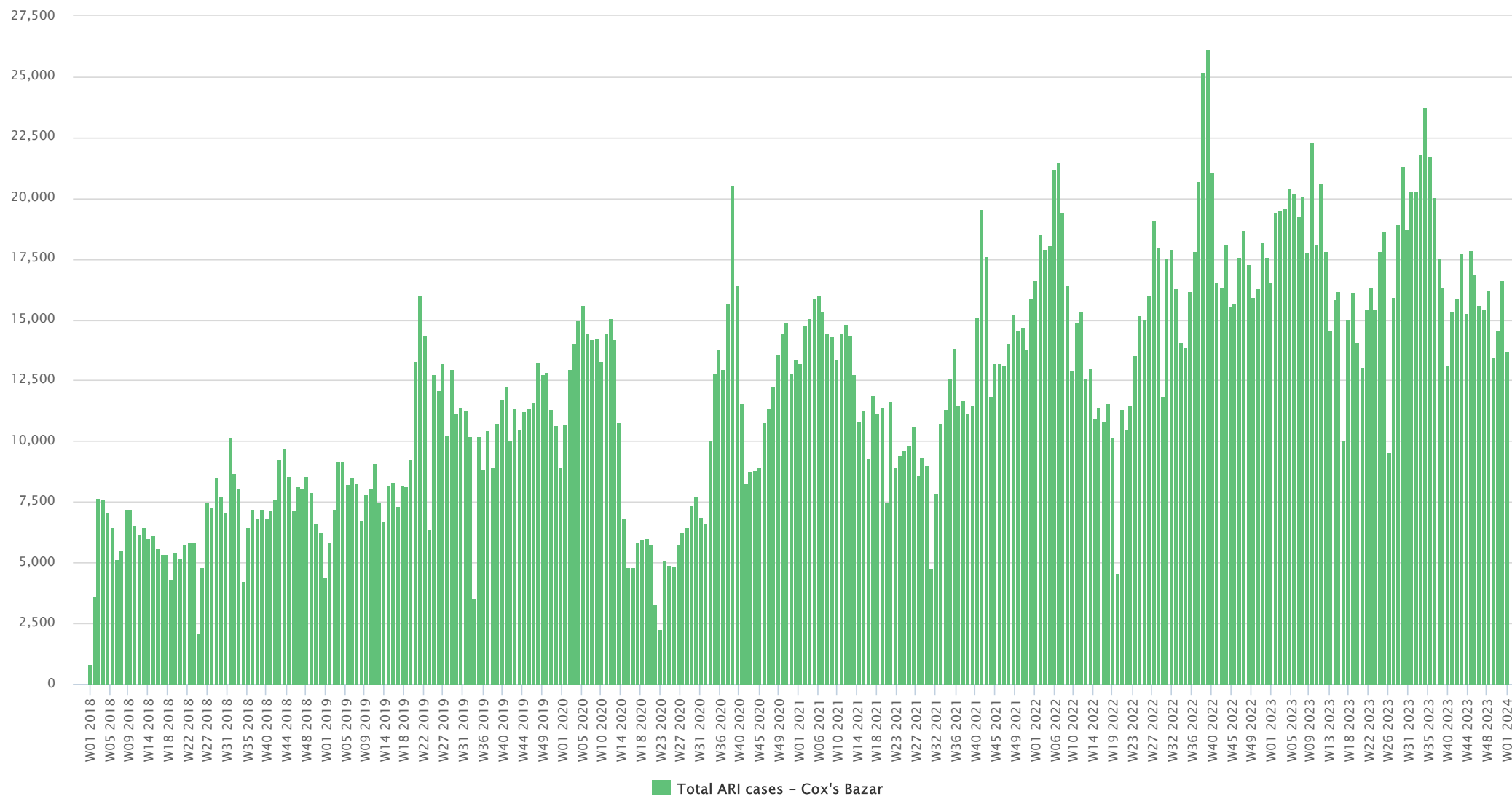
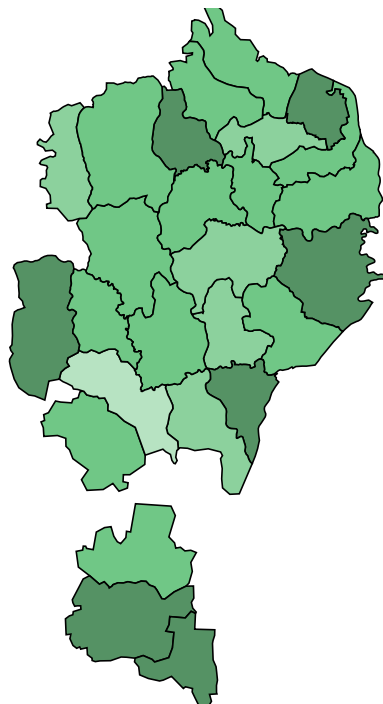


Figure 3 | Trend in number of cases over time (W38 2017 - W52 2023)

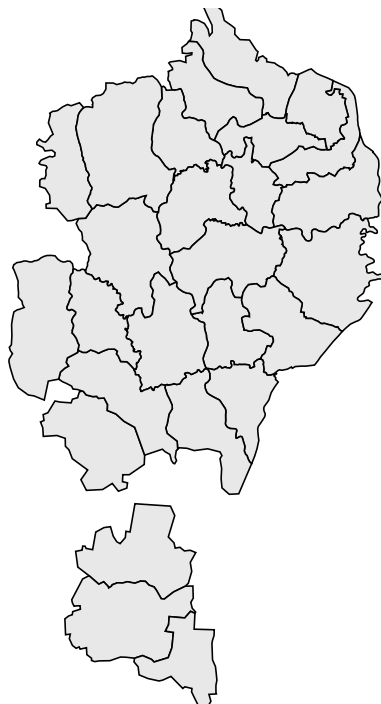


Map 1 | Map of cases by camp (W52 2023)

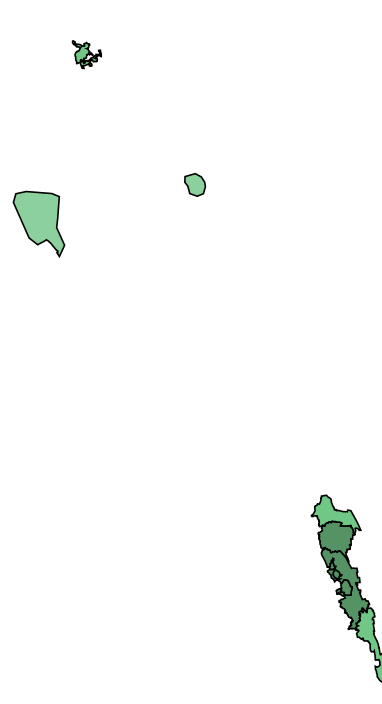
a. Ukhia | Number of cases



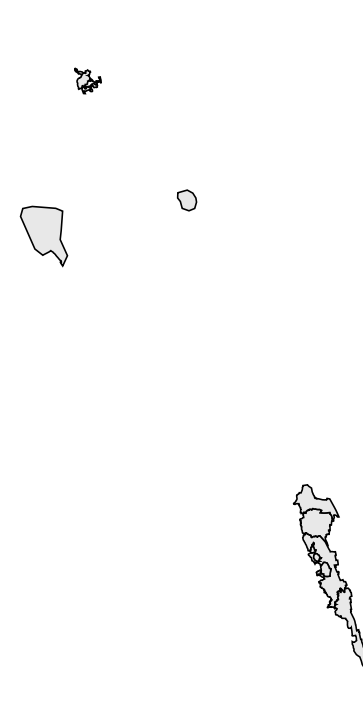
b. Ukhia | Number of alerts



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 (W52 2023)

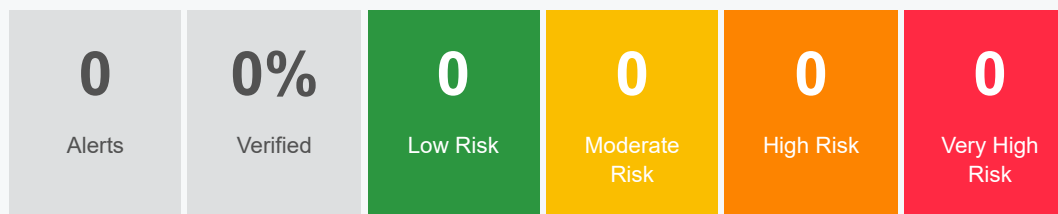
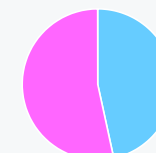
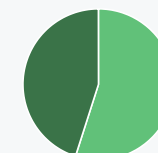


Figure | % sex



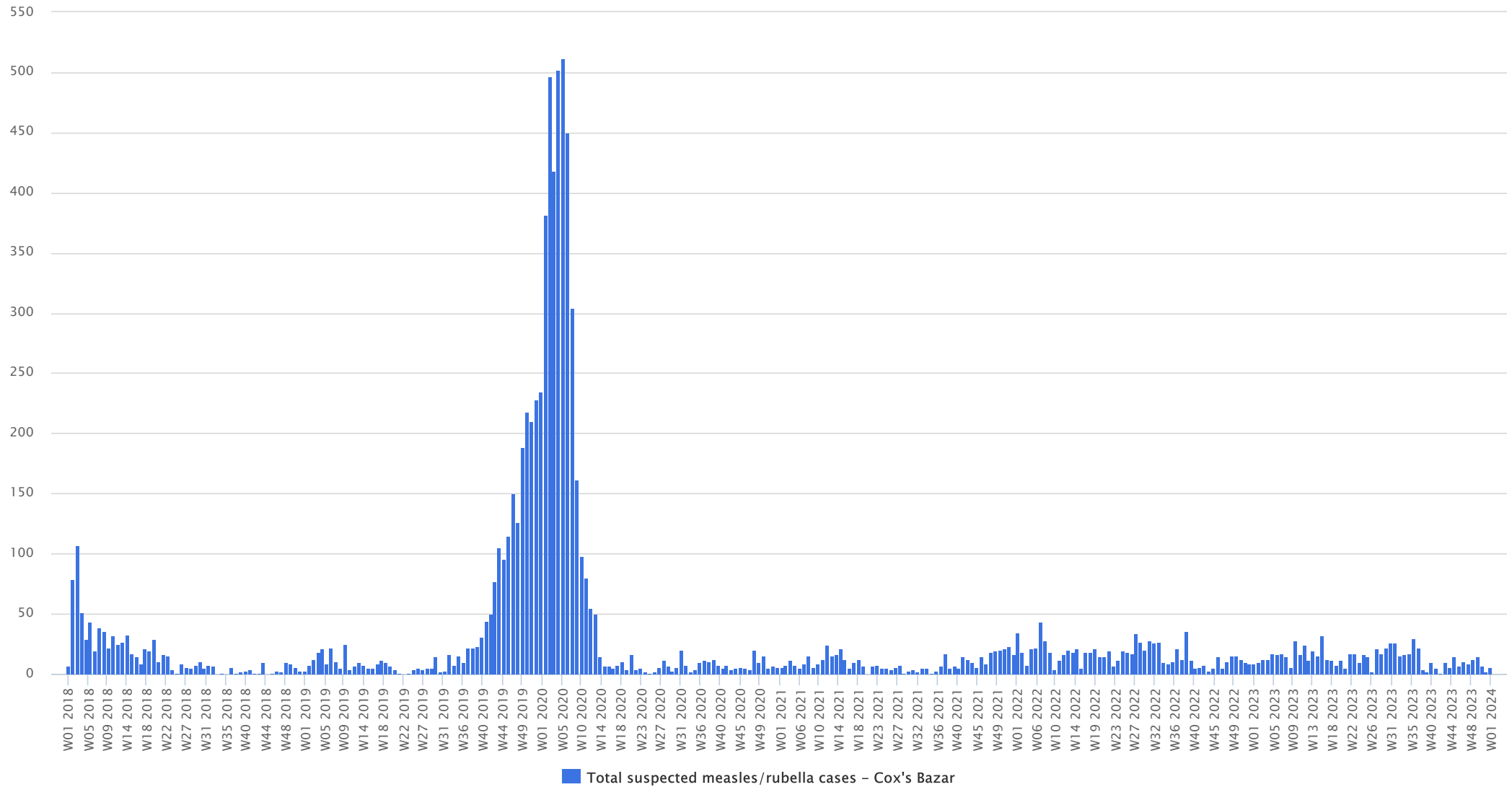
Male Female

Figure | % age



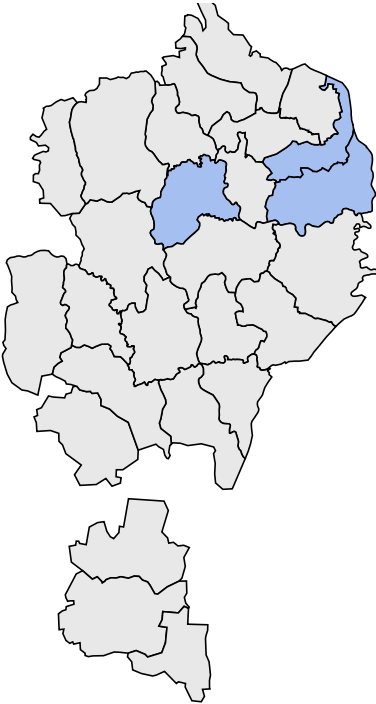
< 5 >= 5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W52 2023)



Map 2 | Map of cases by camp (W52 2023)

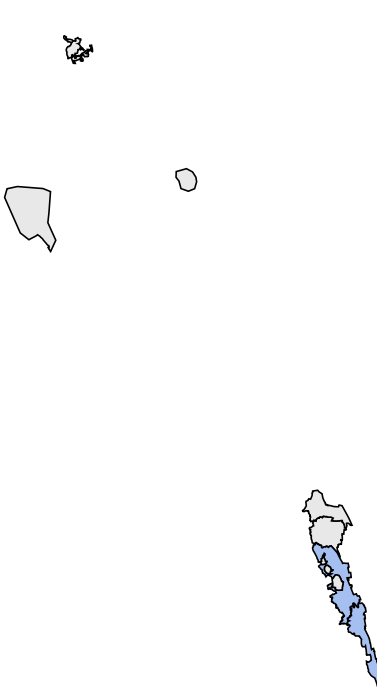
a. Ukhia | Number of cases



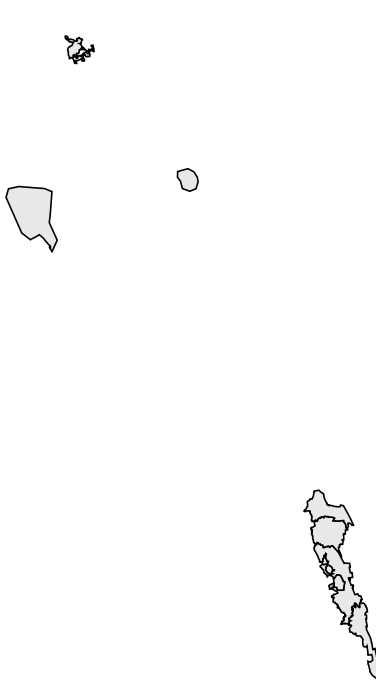
b. Ukhia | Number of alerts



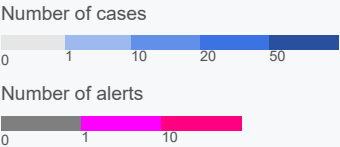
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W52 2023)

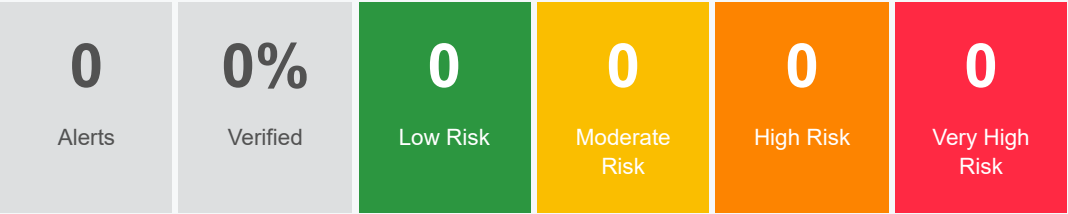


Figure | % sex

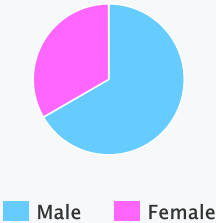


Figure | % age

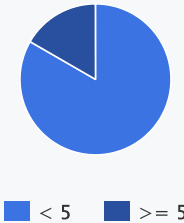
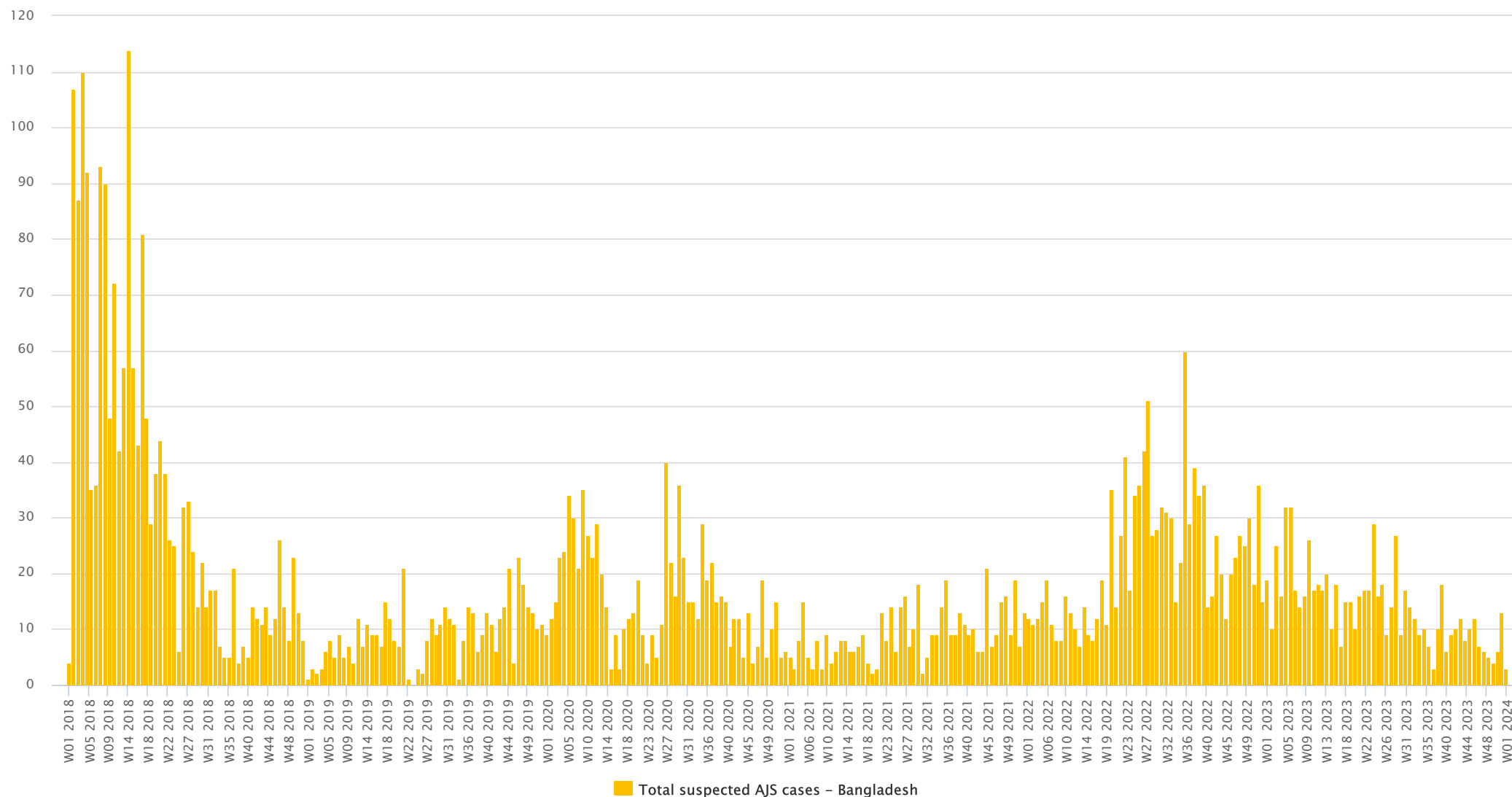
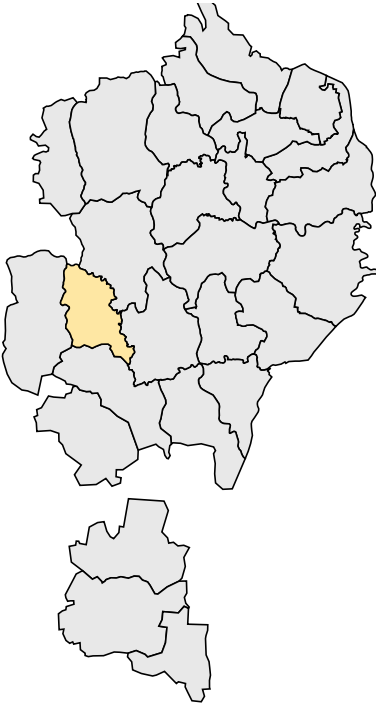


Figure 5 | Trend in number of cases over time (W38 2017 - W52 2023)



Map 3 | Map of cases by camp (W37 2017 - W52 2023)

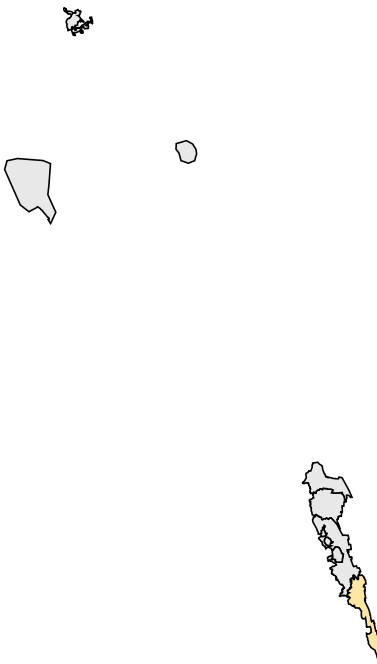
a. Ukhia | Number of cases



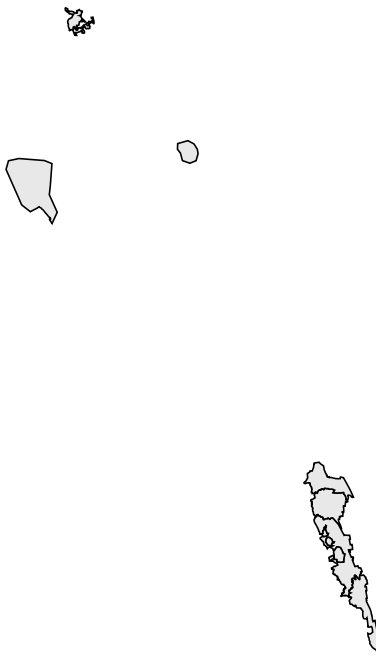
b. Ukhia | Number of alerts



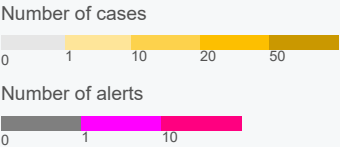
c. Teknaf | Number of cases



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 (W52 2023)

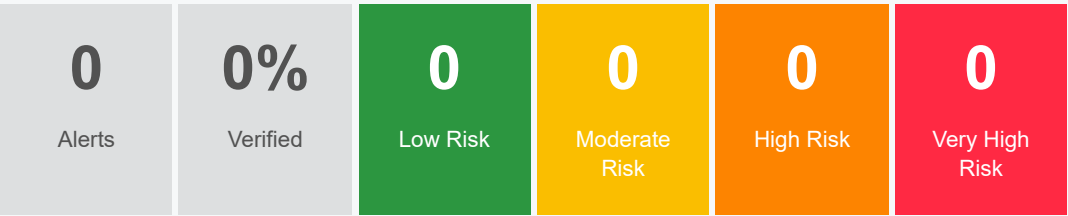


Figure | % sex



Figure | % age

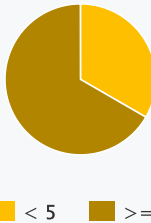


Figure 6 | Trend in number of cases over time (W38 2017 - W52 2023)

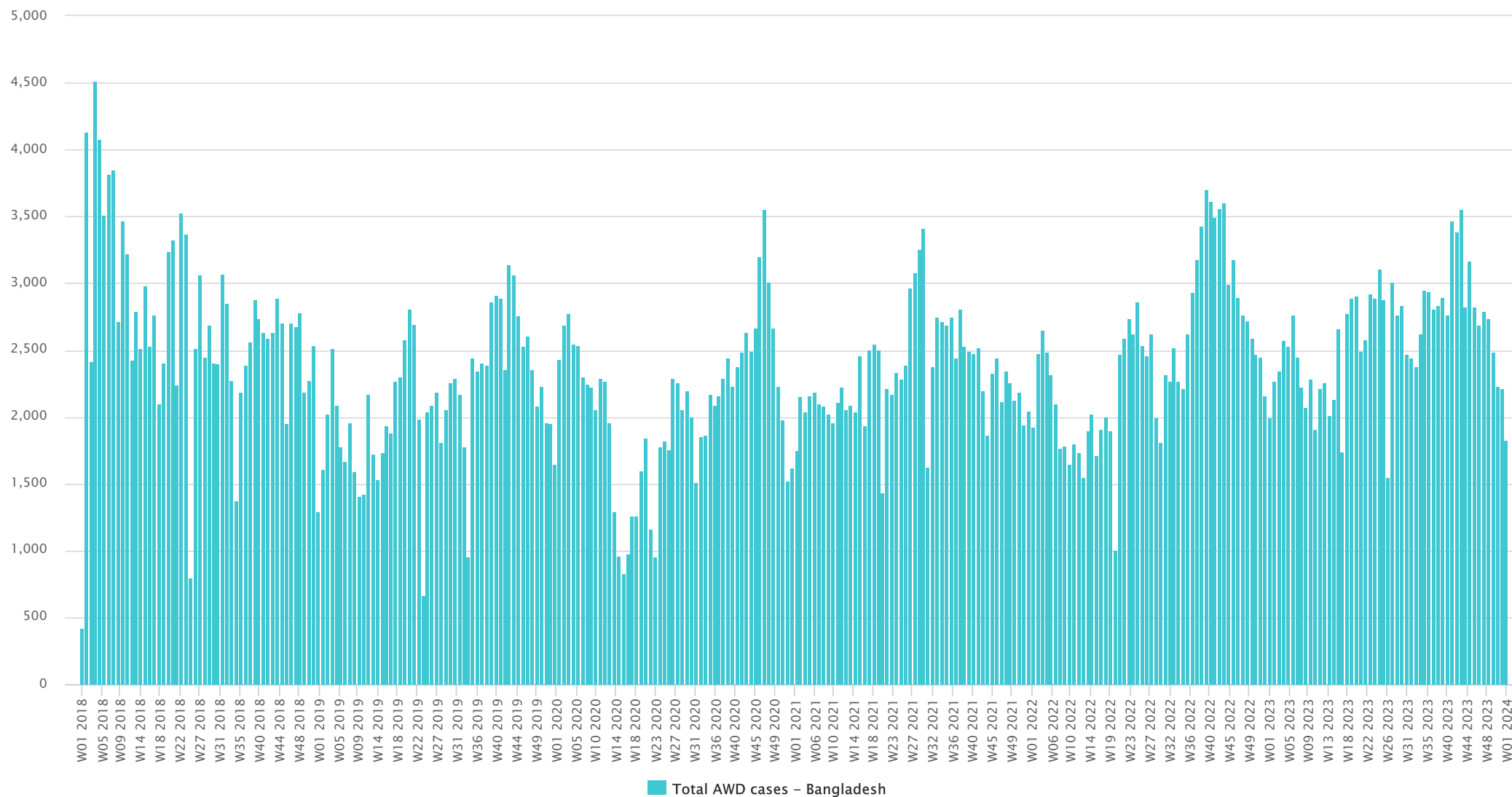
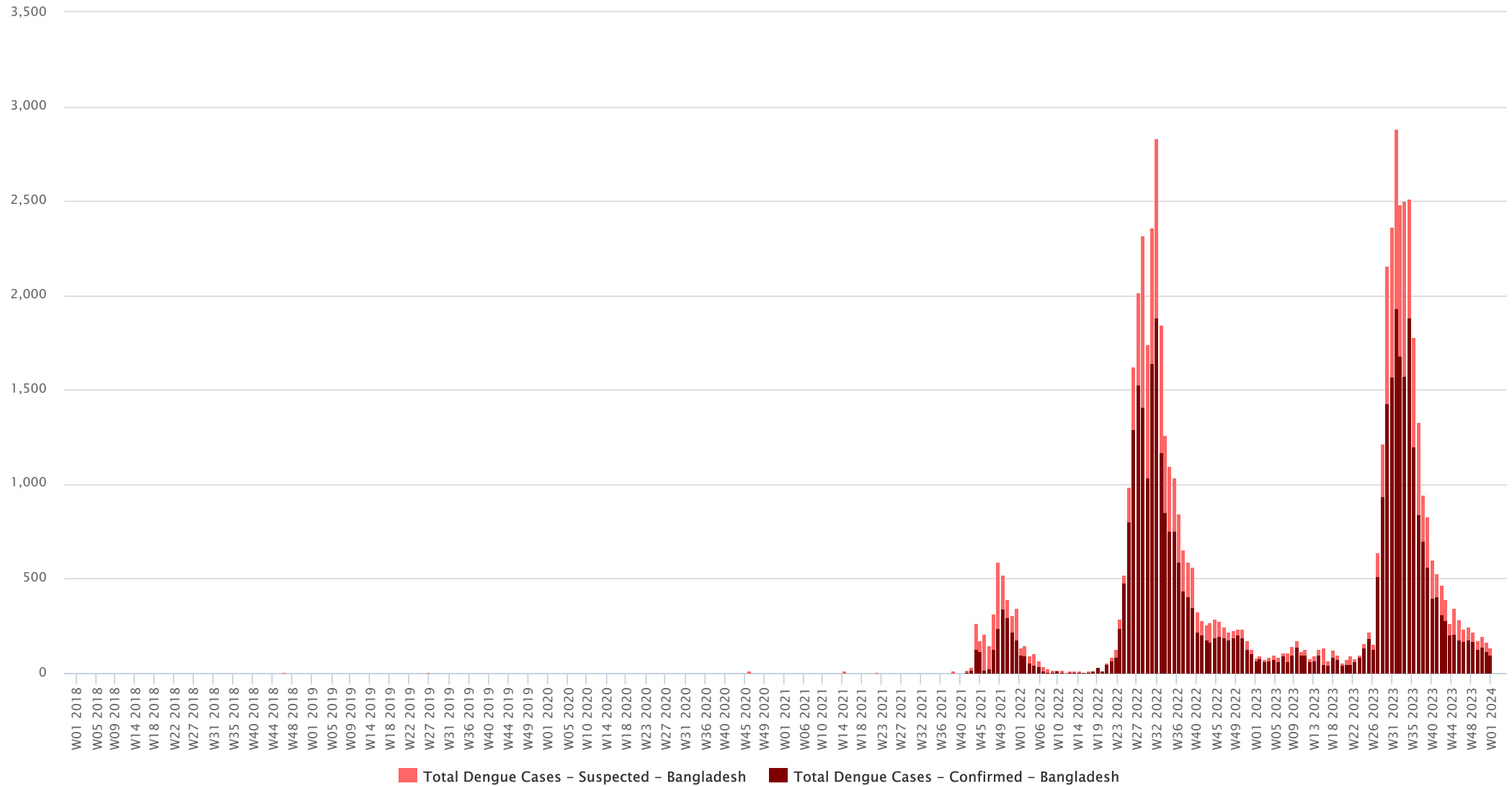
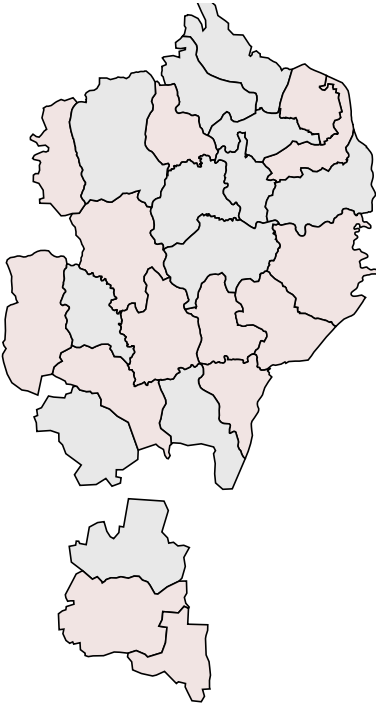


Figure 7 | Trend in number of cases over time (W38 2017 - W52 2023)



Map 4 | Map of cases by camp (W37 2017 - W52 2023)

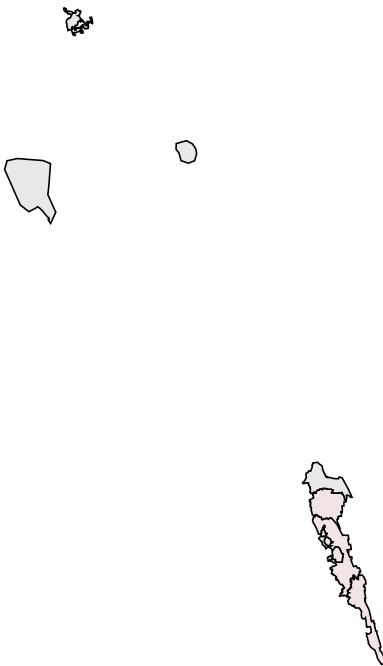
a. Ukhia | Number of cases



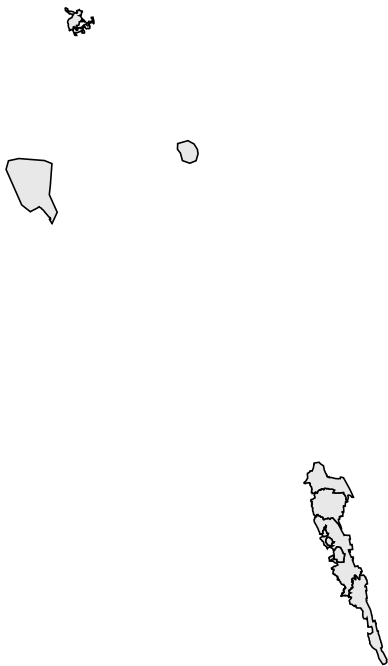
b. Ukhia | Number of alerts



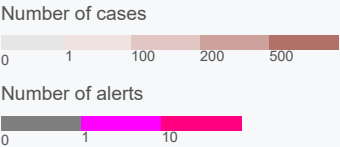
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W52 2023)

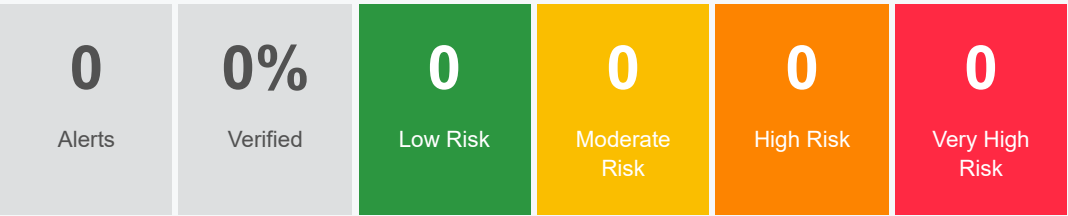


Figure | % sex

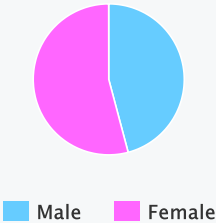


Figure | % age

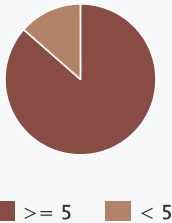
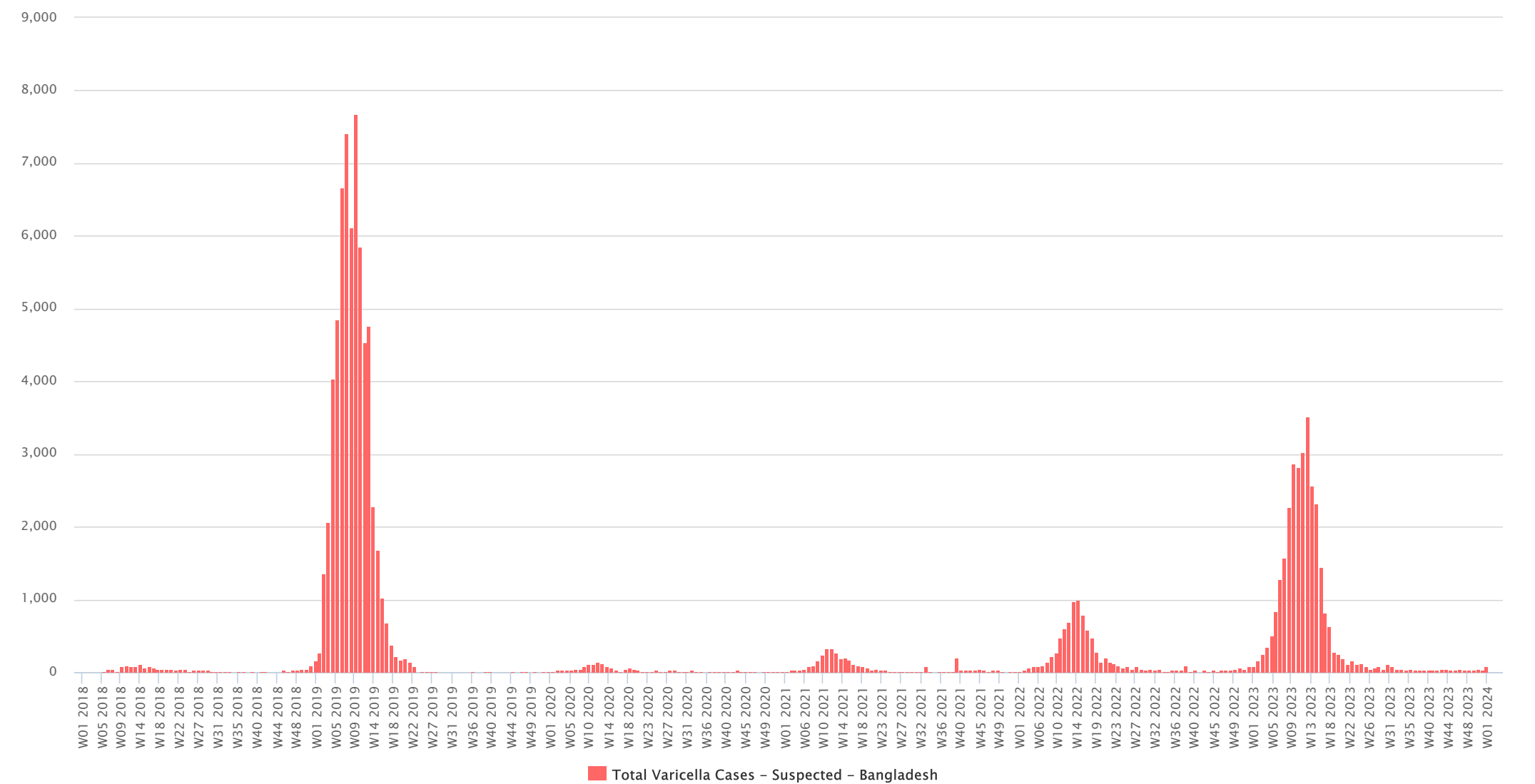
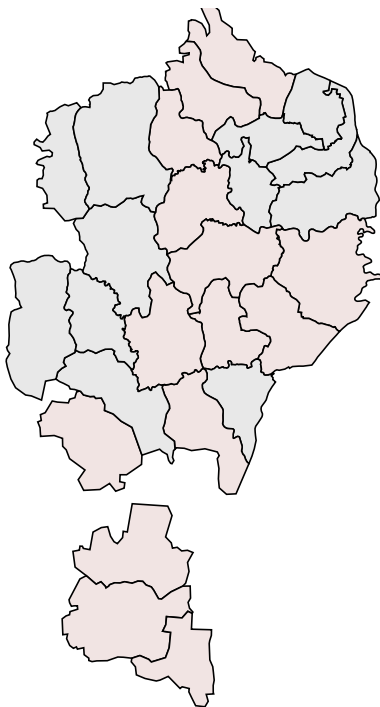


Figure 7 | Trend in number of cases over time (W38 2017 - W52 2023)

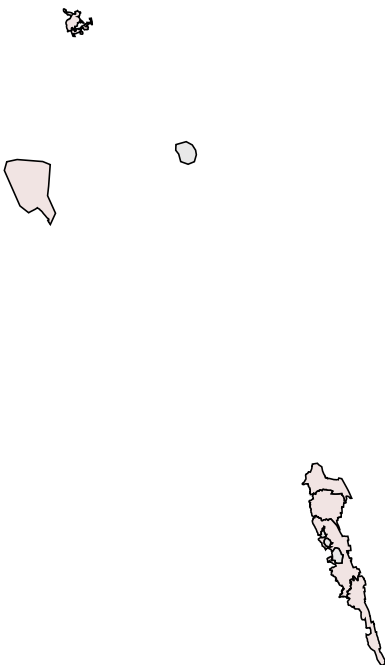


Map 4 | Map of cases by camp (W37 2017 - W52 2023)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

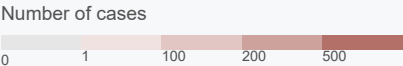


Figure | % sex

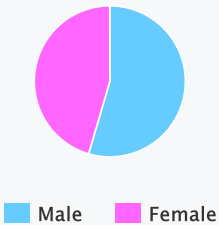
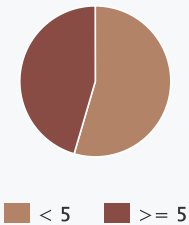


Figure | % age



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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