

# Epidemiological Highlights

Week 50 (10-16 December) 2023

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

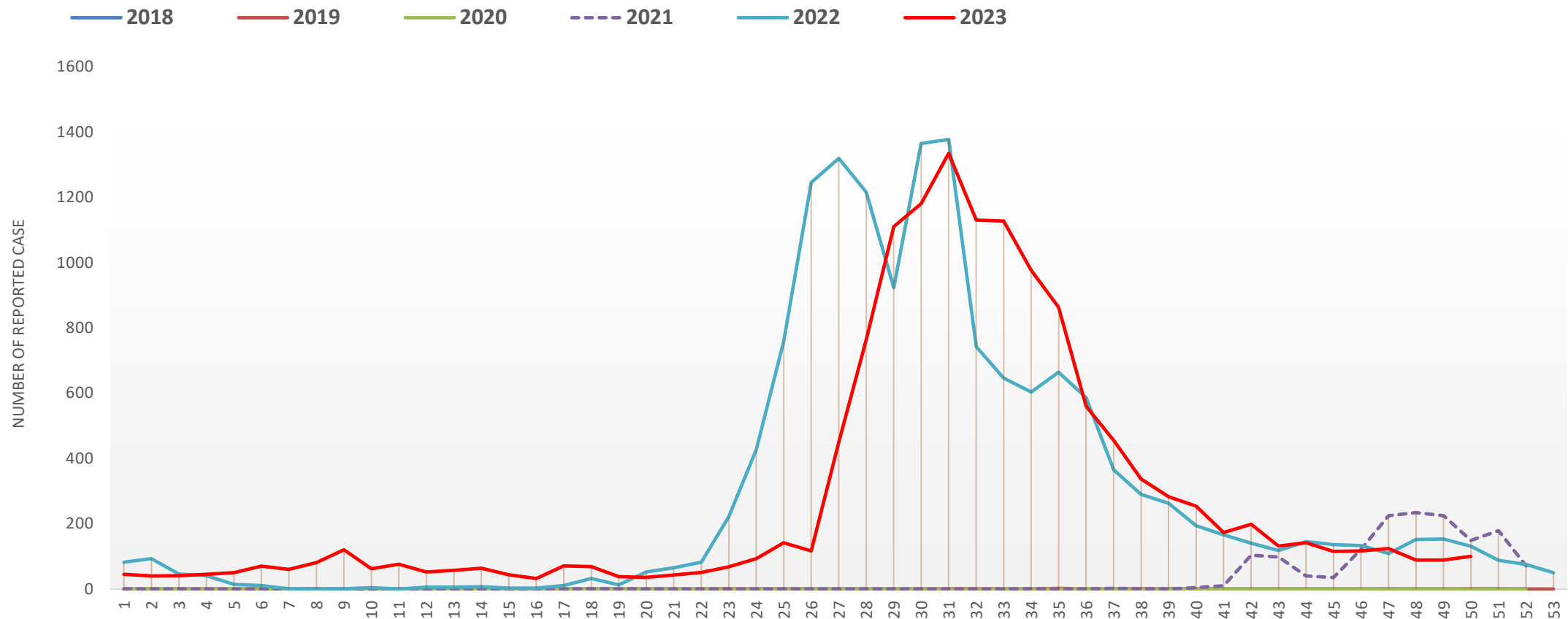
- About 120 of the 135 registered health facilities submitted their weekly report on time this week
- Timeliness and completeness of weekly reporting were 89% which is above the global and national weekly threshold
- Forty-seven (47) alerts were triggered; this is a 36% decrease from the previous week (74 alerts in week 49, 2023)
- All alerts were reviewed and verified by the WHO EWARS team

# Weekly Proportionate Morbidity and SARI Mortality among the FDMN population from 2020-Epi 1-50

- Acute Respiratory Infections (20.8%), Acute Watery Diarrhoea (4.3%), and Injury and wounds (2.9%) were the diseases and health conditions with the highest proportionate morbidity this week.
- Monitoring of suspected SARI deaths under enhanced Community-based mortality surveillance has been continued since week 28, 2020. So far, 43 cases of which none is probable COVID-19 Death, have been reported in 2023
- This Epi week, one (1) new SARI death was reported, investigated and did not meet criteria for reclassification as probable COVID-19 death was required

Year	Suspected SARI death reported (current week)	Reclassification as probable COVID-19 death
2023	43 (1)	0
2022	136	8
2021	96	15
2020	49	2

# Weekly trends of confirmed Dengue cases among Rohingya Refugees and host population in Cox's Bazar from 2018 to Epi Week 50, 2023

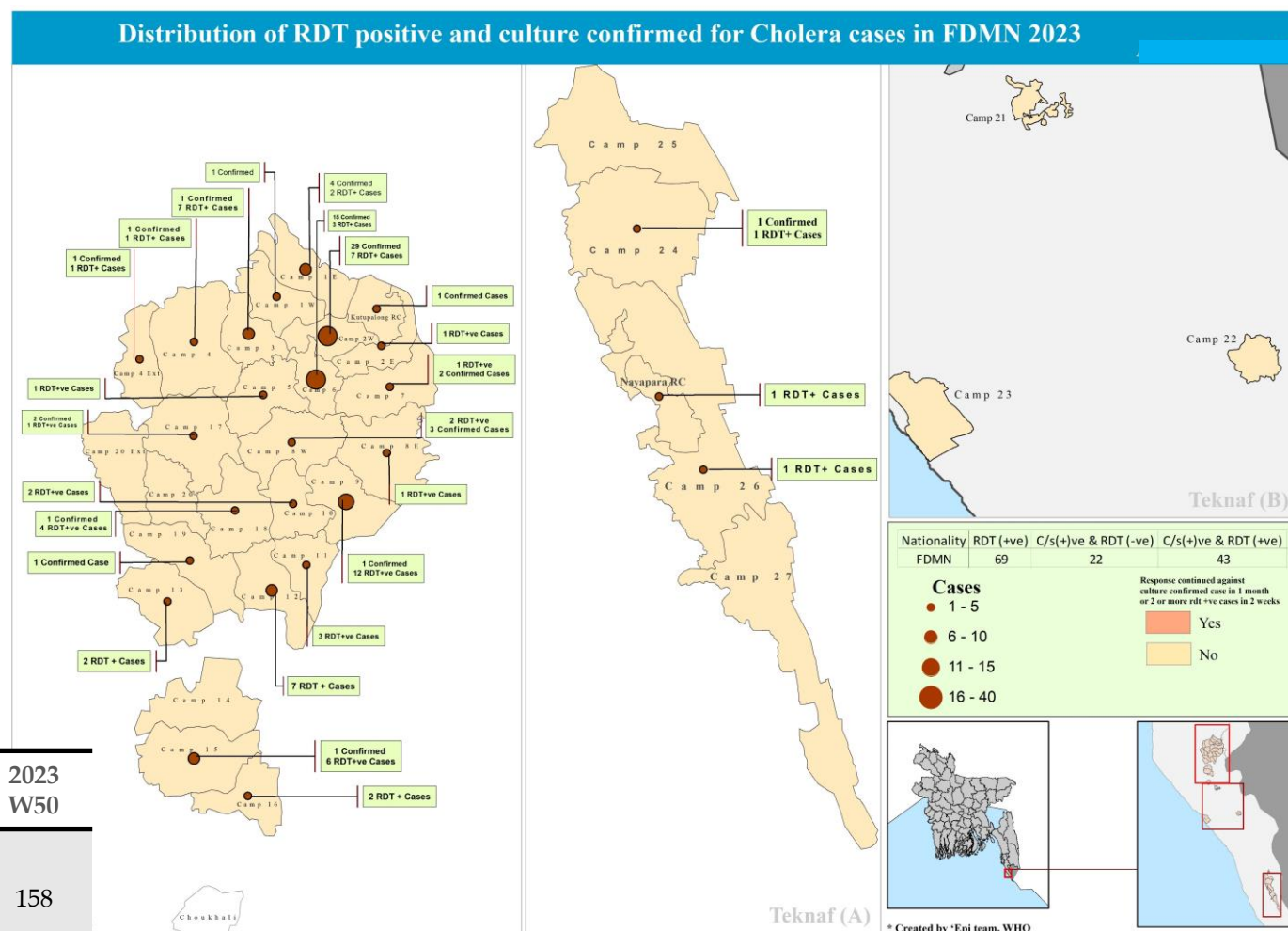


- ❑ Weekly trends of dengue fever cases continue to decline since peaking in Epi week 31 (the current surge began in Epi 26 2023 )
- ❑ This week, 100 confirmed dengue cases were reported, a 12% increase from the previous week
- ❑ A cumulative of 13,760 confirmed dengue cases including 18 deaths (CFR 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 )

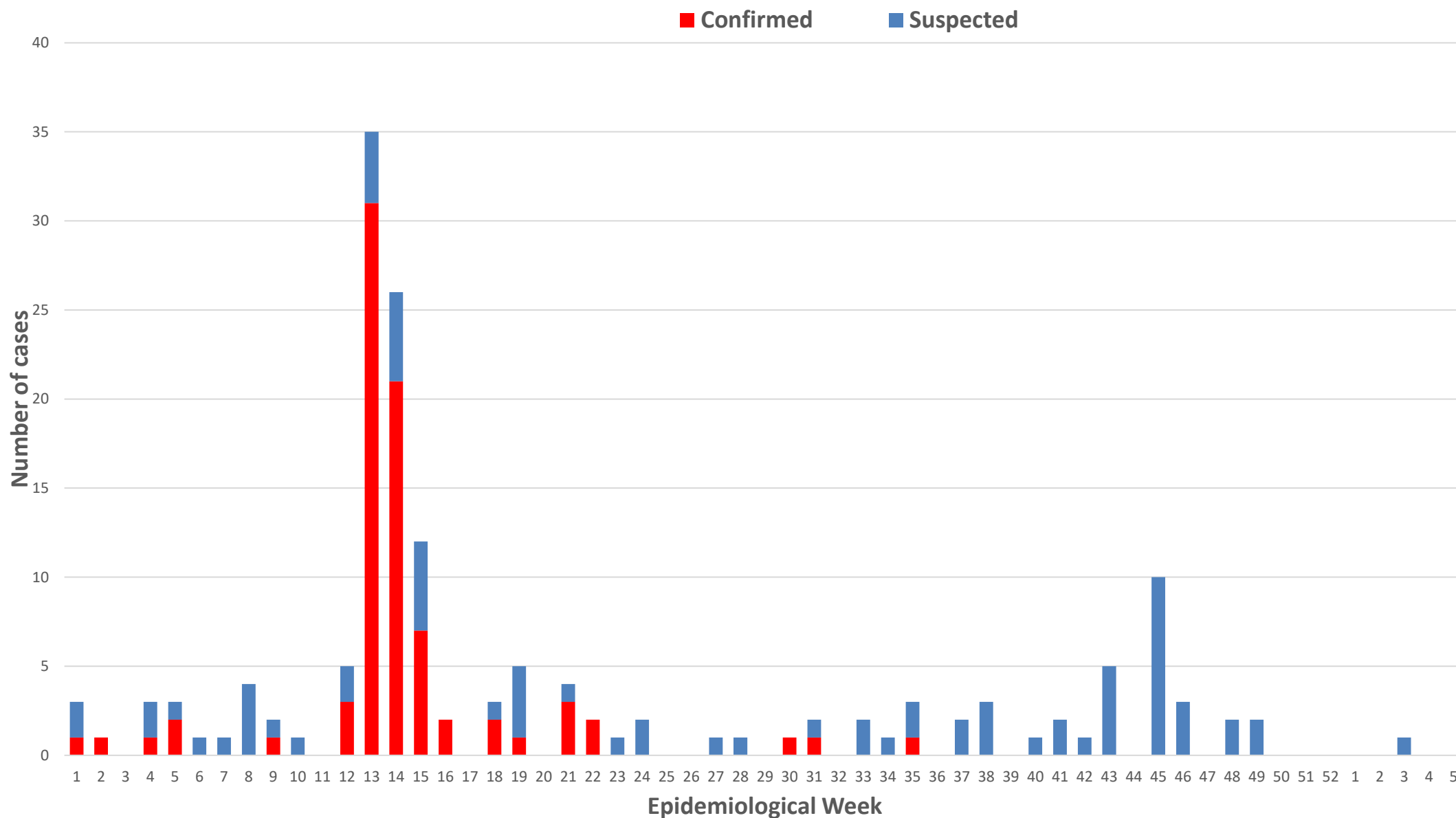
# Cholera/AWD Surveillance Updates

- 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 1-50) 2023.
- Cumulatively there are 1020 RDT AWD cases/Cholera suspects reported while 483 cases were culture-confirmed since transmission in 2018.

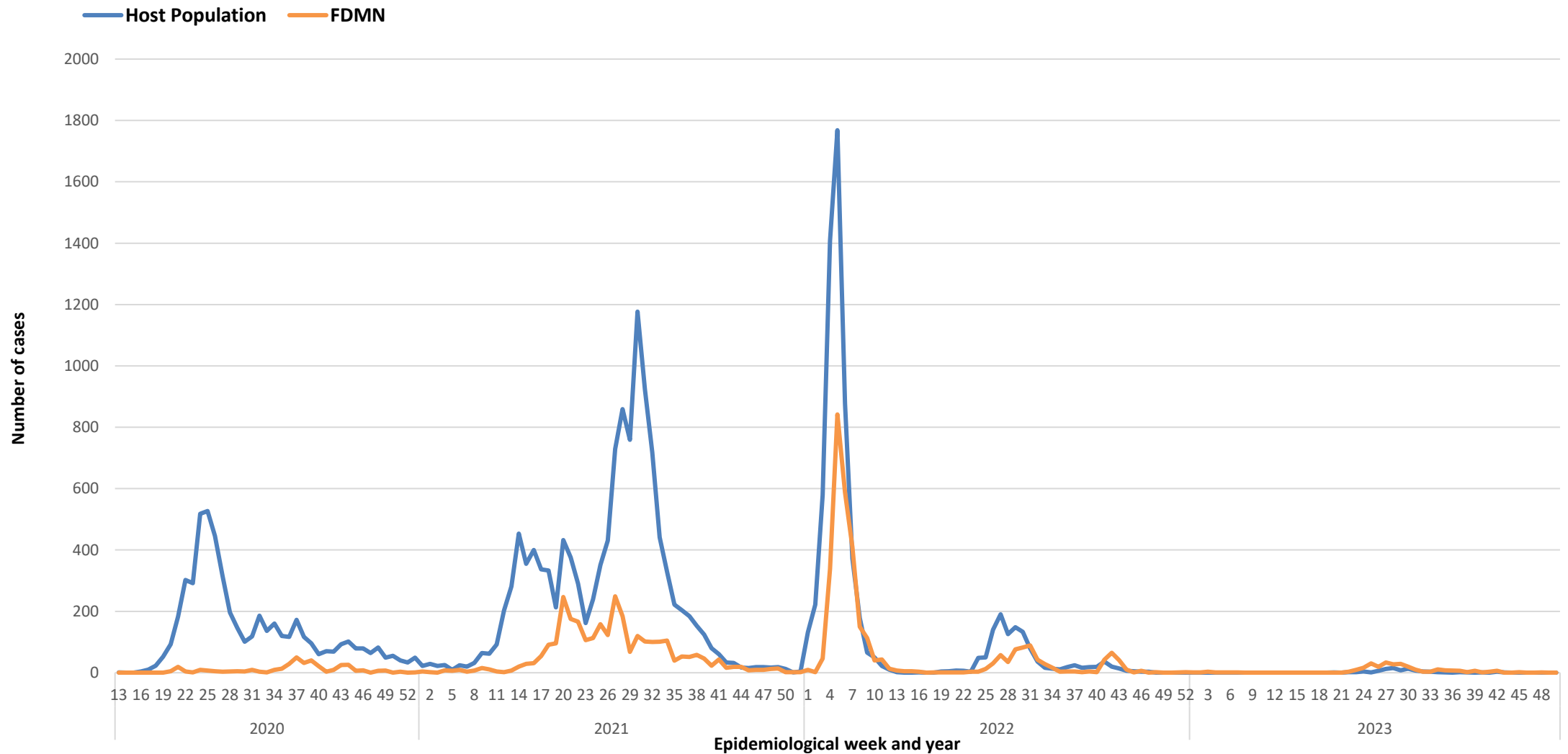
	2018	2019	2020	2021	2022	2023 W50
RDT positive AWD cases/Cholera suspects	49	258	28	357	170	158
Culture confirmed for Cholera	7	184	5	136	70	81



# Weekly trends of suspected and confirmed cholera cases from Epi Week 1-50, 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 50, 2023



**FDMNs: One (1)** new confirmed case was reported this week from Ukhia based Rohingya refugee Camp, weekly TPR is 0.8%, 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 is zero, and case incidence was 0.0 cases/1m pop.

# Weekly and annual Diphtheria Surveillance Updates from 2017- Epi week 50, 2023

Two (2) clinical compatible and 6 suspected diphtheria cases were reported in go.data in this Epi week

The last confirmed case was reported on 29 July 2023

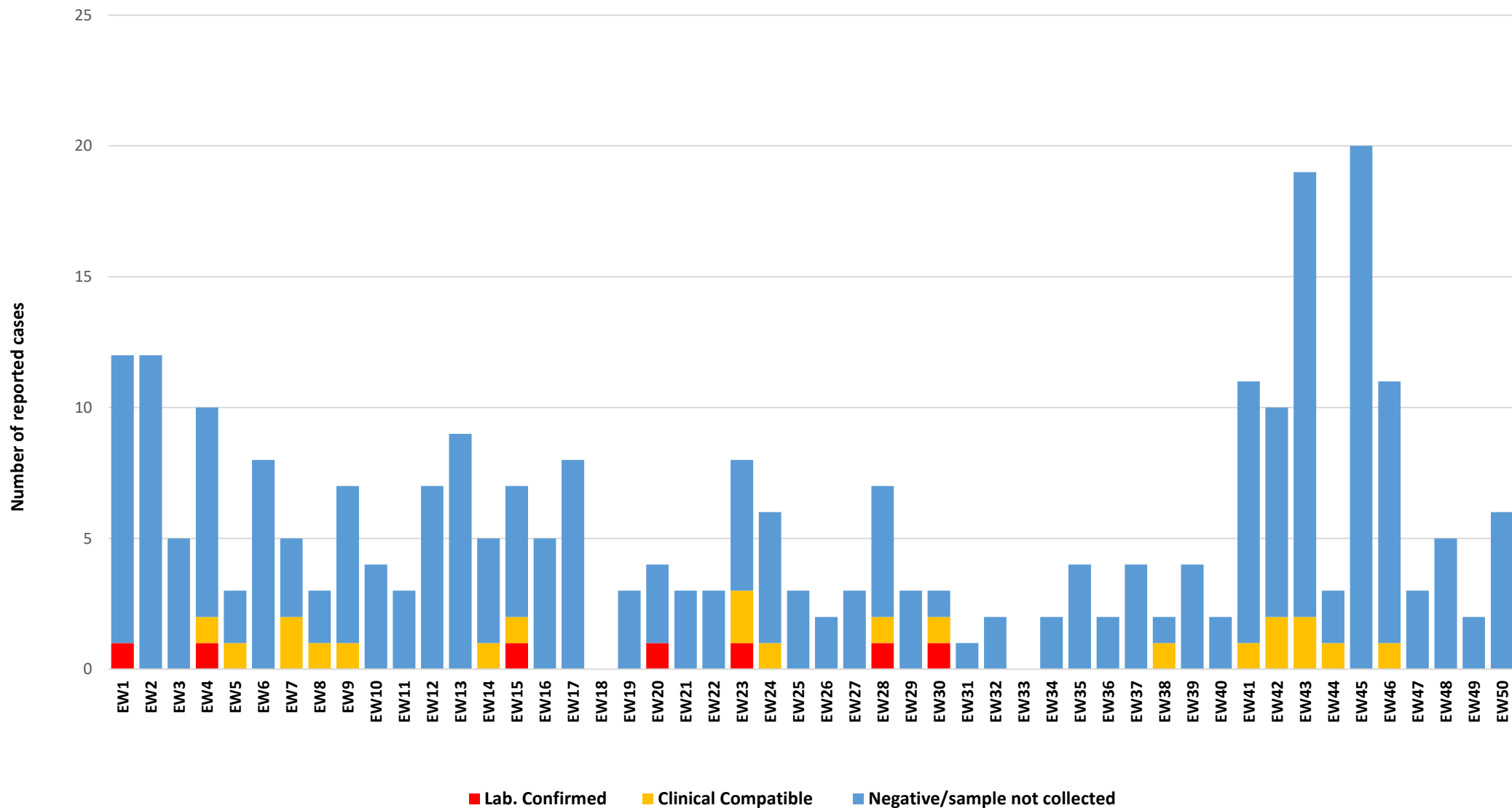
About 277 cases (7 lab. confirmed, 24 clinically compatible and 246 negative/sample not collected) of which there was one (1) death reported so far in 2023.

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	246
Death	30	14	3	0	5	2	1

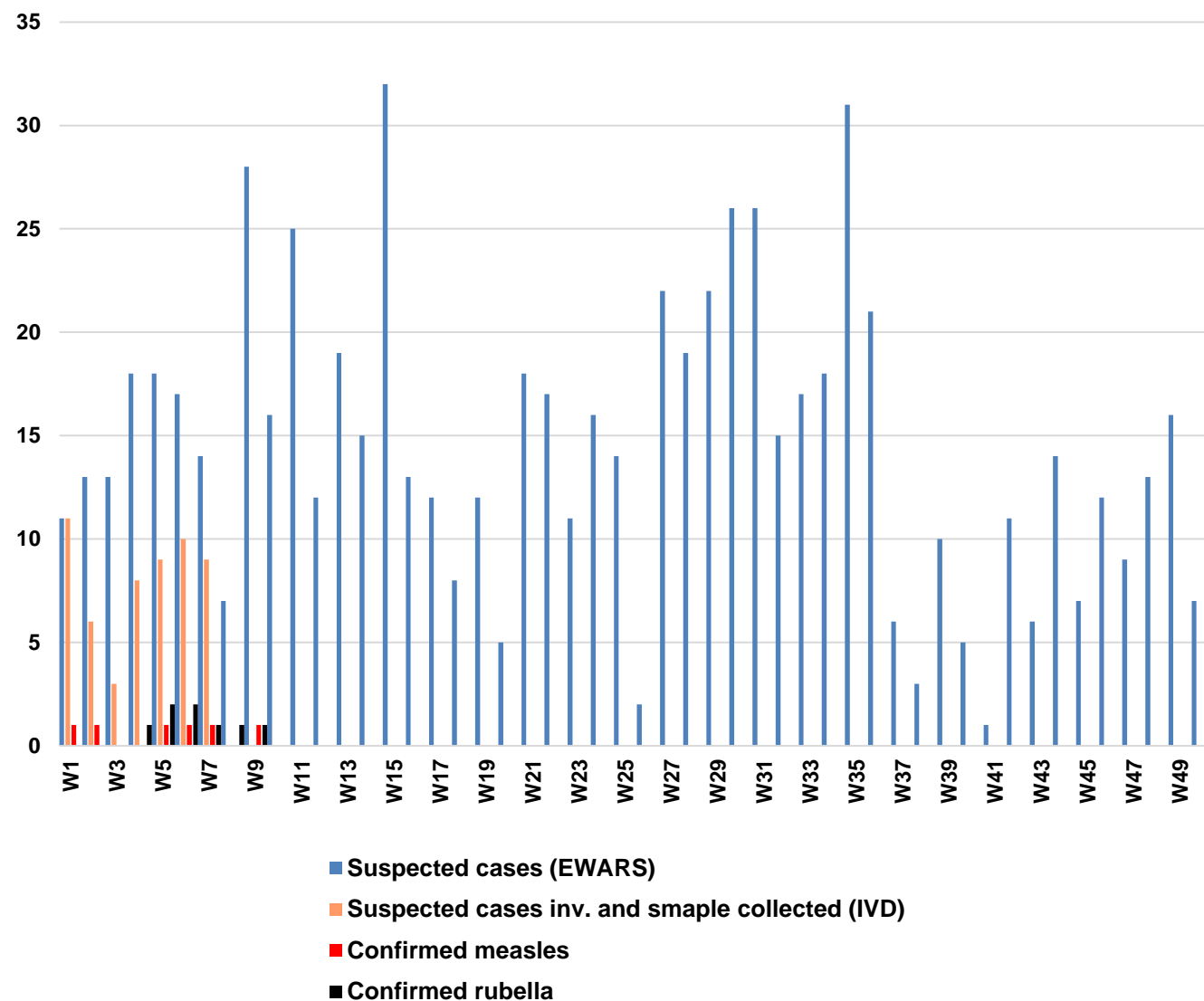


# Weekly trends of Diphtheria cases from Epi weeks 1-50, 2023



# Epi Curve of Weekly Suspected Measles Cases Week 1-50, 2023

- Seven (7) suspected measles cases were reported this Epi week
- A total of 718 cases have been so far 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 continue to undertake joint surveillance and investigations



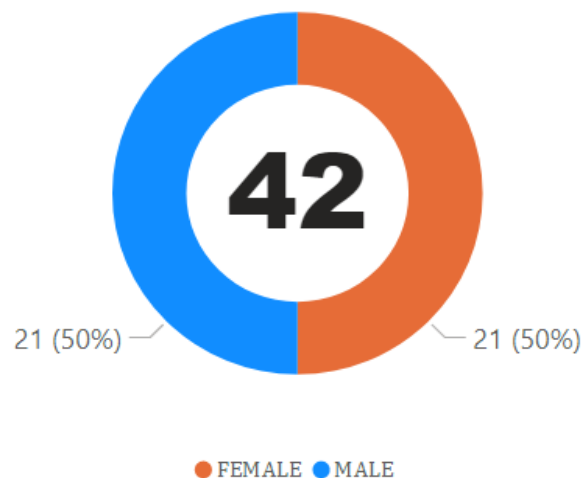
## Proportionate Mortality updates Epi week 50, 2023

Probable causes of death	Epi week 50	In 2023
Still Birth	6 (14%)	320 (12%)
Neonatal Death (<28 days old)	3 (7%)	282 (11%)
Infectious Disease	--	69 (3%)
Severe Acute Respiratory Infection (SARI)	1 (2%)	36 (1%)
Injury	1 (2%)	61 (2%)
Maternal Death	--	49 (2%)
Acute Malnutrition	--	3(0%)
Other	31 (74%)	1834 (69%)
<b>Total</b>	<b>42 (100%)</b>	<b>2654 (100%)</b>

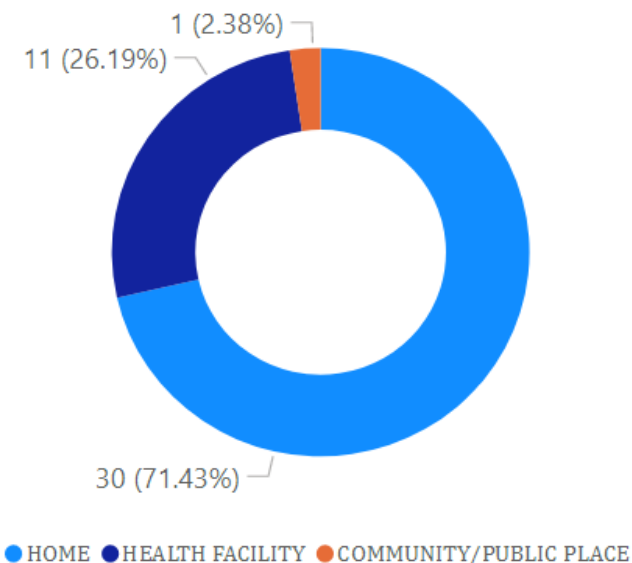
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable

# Community-based Mortality Surveillance updates Epi week 50, 2023

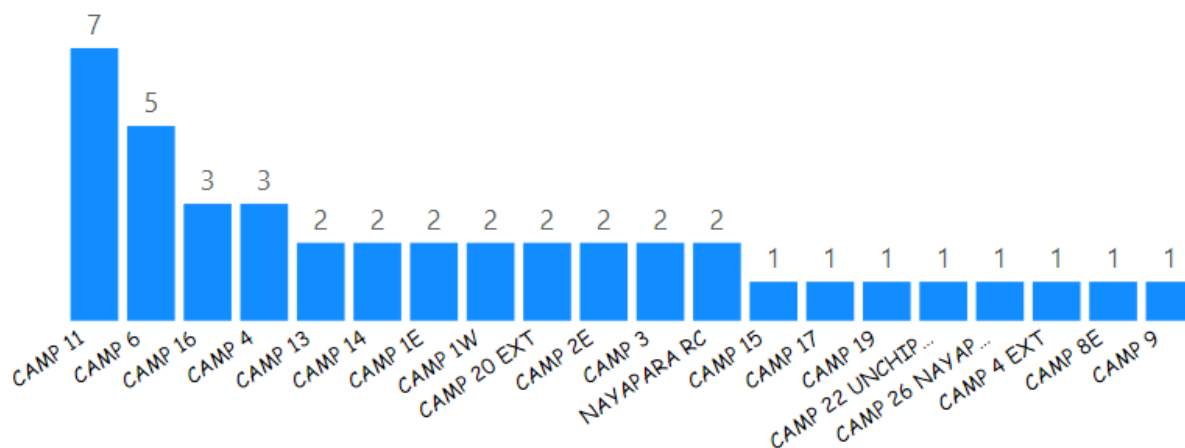
**Gender distribution**



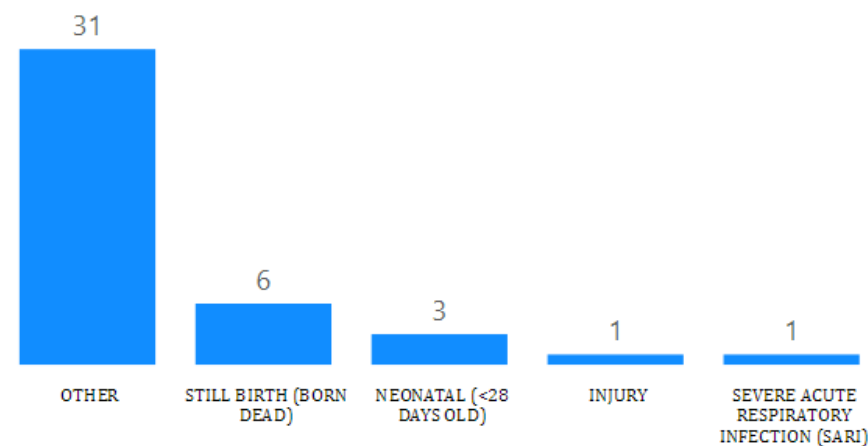
**Place of death**



**Distribution of deceased Camp**



**Distribution of Probable cause of death**



# Bangladesh

Rohingya Emergency Response

Early Warning, Alert and  
Response System (EWARS)

Epidemiological Bulletin W50 2023



Ministry of Health and Family  
Welfare Bangladesh



World Health  
Organization



HEALTH SECTOR  
COX'S BAZAR



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## Sources of data

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

Table 1 | Coverage

#	%	
952,309	-	Estimated total Rohingya population <sup>1</sup>
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

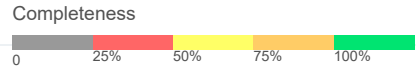
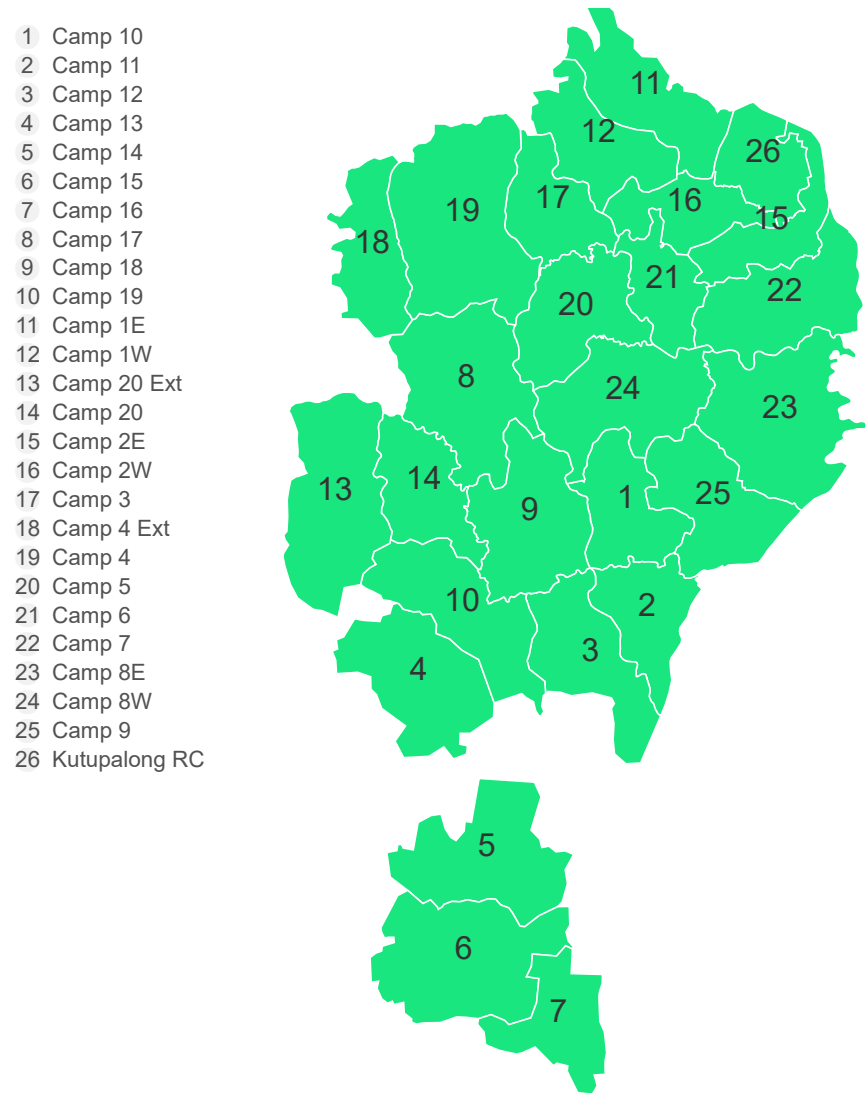
W50	Cumulative (2023)	
120	7132	Number of weekly reports received
89%	96%	Completeness
89%	87%	Timeliness

Table 3 Alert performance indicators

W50	Cumulative (2023)	
47	3,684	Total alerts raised
100%	100%	% verified
0%	0%	% auto-discarded
0%	0%	% undergoing risk assessment
0%	0%	% completed risk assessment

<sup>1</sup> 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

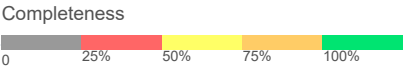
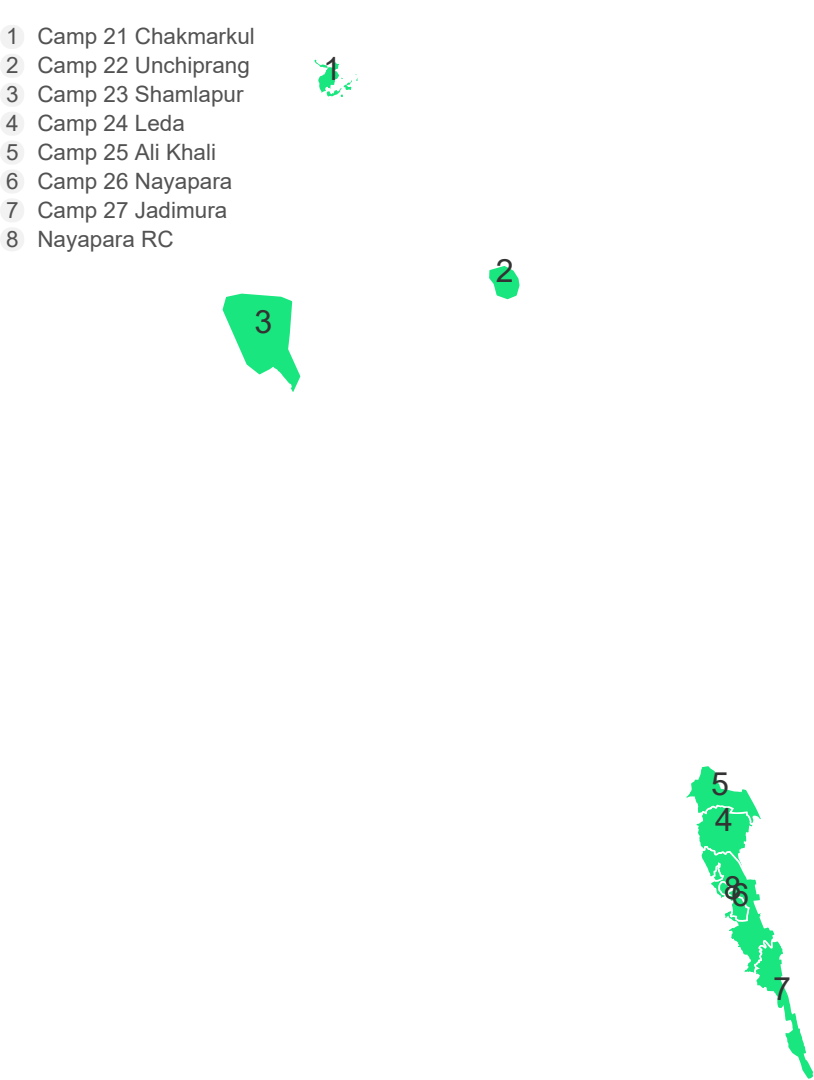




Table 4 | Performance by camp (W50 2023)

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	3	100%	100%
Camp 2W	3	3	100%	100%
Camp 3	3	3	100%	83%
Camp 4	5	4	100%	80%
Camp 4 Ext	1	1	100%	100%
Camp 5	4	4	100%	100%
Camp 6	2	2	100%	75%
Camp 7	4	4	100%	100%
Camp 8E	9	8	88%	88%
Camp 8W	3	3	100%	83%
Kutupalong RC	2	2	100%	100%

Map 2 | Completeness by camp

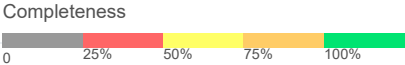
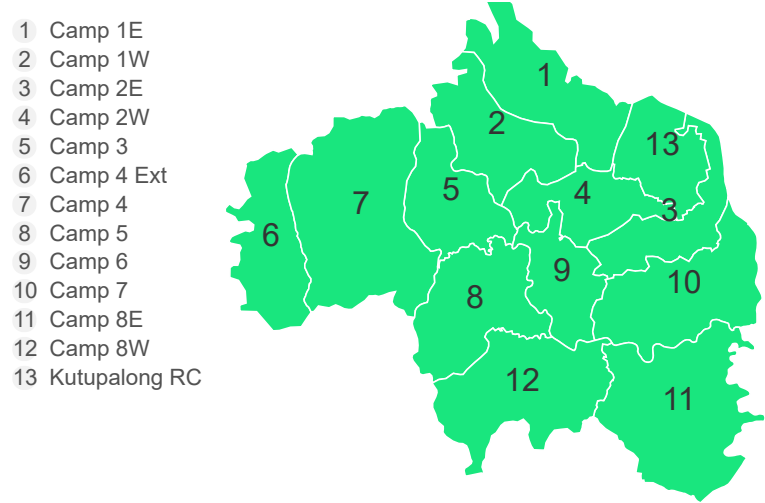


Table 5 | Performance by camp (W50 2023)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	75%
Camp 11	3	3	100%	83%
Camp 12	3	3	100%	100%
Camp 13	6	5	83%	58%
Camp 14	5	5	100%	100%
Camp 15	7	5	86%	79%
Camp 16	7	7	86%	86%
Camp 17	4	4	100%	100%
Camp 18	4	4	100%	88%
Camp 19	3	3	100%	100%
Camp 20	3	3	100%	100%
Camp 20 Ext	2	2	100%	100%
Camp 9	5	5	100%	100%

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

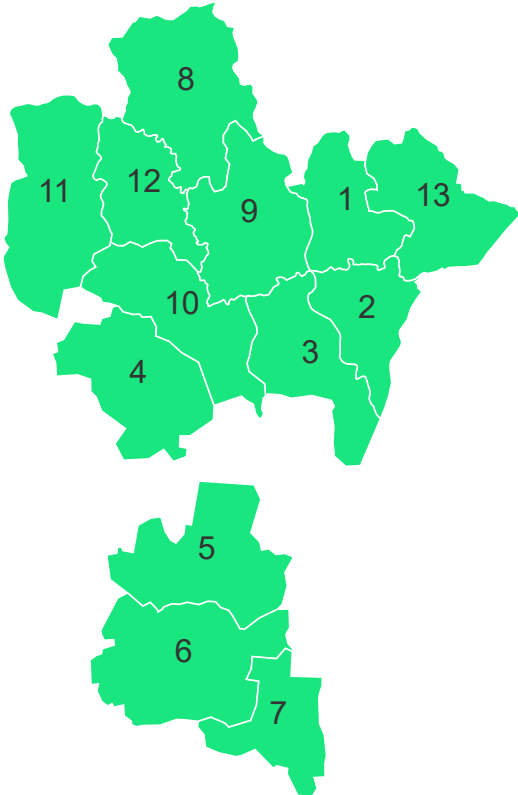


Table 6 | Performance by camp (W50 2023)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	3	2	100%	83%
Camp 22 Unchiprang	4	3	75%	75%
Camp 23 Shamlapur	2	2	100%	75%
Camp 24 Leda	2	1	50%	50%
Camp 25 Ali Khali	3	3	100%	100%
Camp 26 Nayapara	4	3	75%	75%
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 (W50 2023)

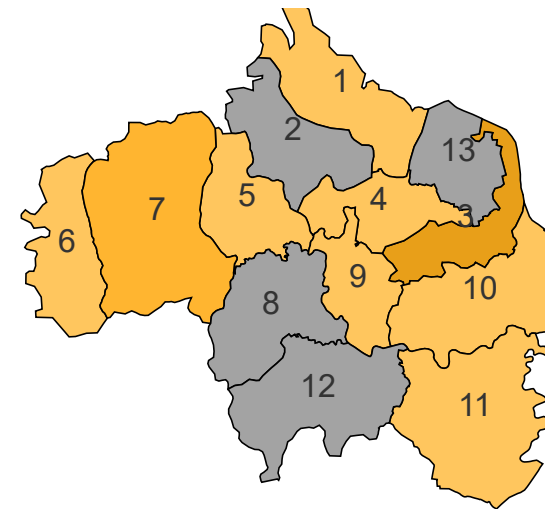
Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	2	1	50%	50%	IRC	8	3	75%	25%
AWARD	12	6	50%	50%	MSF	14	7	100%	100%
BASHMAH	2	0	0%	0%	MoH	14	4	57%	57%
BDRCS	18	7	39%	39%	MHI	0	1	0%	0%
BRAC	10	10	53%	50%	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	10	100%	100%
FRNDS	16	5	63%	63%	RPN	4	1	25%	25%
GK	20	10	100%	90%	RHU	6	3	50%	100%
Global One	0	1	0%	0%	RI	0	0		
GUSS	2	1	50%	50%	RTMI	14	6	86%	86%
HAEFA	4	2	50%	50%	SALT	2	1	50%	50%
HAIB	0	0			SCI	14	7	100%	100%
HMBDF	4	2	100%	100%	DCHT-MM	2	1	50%	50%
HOPE	2	1	50%	50%	Turkish Government	2	1	50%	50%
ICRC	0	0			TdH	4	2	100%	100%
IOM	38	18	100%	89%					

Table 8 | Performance by camp

Northern group	W50		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	1	0%	112	80%
Camp 1W	0	0%	167	78%
Camp 2E	7	0%	443	69%
Camp 2W	1	0%	190	74%
Camp 3	1	0%	190	64%
Camp 4	3	0%	152	74%
Camp 4 Ext	1	0%	44	66%
Camp 5	0	0%	85	78%
Camp 6	2	0%	71	72%
Camp 7	1	0%	78	76%
Camp 8E	1	0%	87	83%
Camp 8W	0	0%	175	77%
Kutupalong RC	0	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

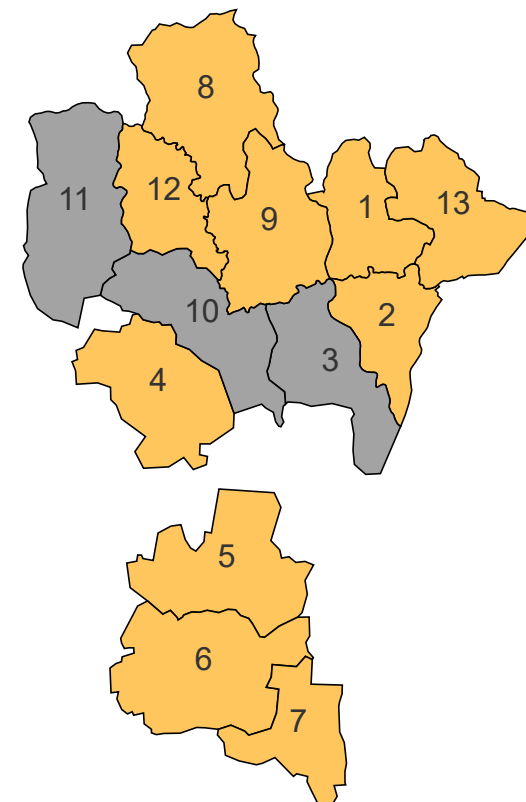


Table 9 | Performance by camp

Southern group	W50		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	1	0%	89	56%
Camp 11	2	0%	68	75%
Camp 12	0	0%	79	76%
Camp 13	1	0%	104	81%
Camp 14	1	0%	116	67%
Camp 15	2	0%	167	60%
Camp 16	2	0%	126	67%
Camp 17	1	0%	61	64%
Camp 18	1	0%	178	66%
Camp 19	0	0%	18	83%
Camp 20	2	0%	74	66%
Camp 20 Ext	0	0%	19	95%
Camp 9	1	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



# of alerts



Table 10 | Performance by camp

Teknaf	W50		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	5	0%	105	65%
Camp 22 Unchiprang	1	0%	77	81%
Camp 23 Shamlapur	0	0%	4	100%
Camp 24 Leda	7	0%	274	59%
Camp 25 Ali Khali	1	0%	16	75%
Camp 26 Nayapara	0	0%	36	72%
Camp 27 Jadimura	0	0%	14	79%
Nayapara RC	1	0%	68	63%

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

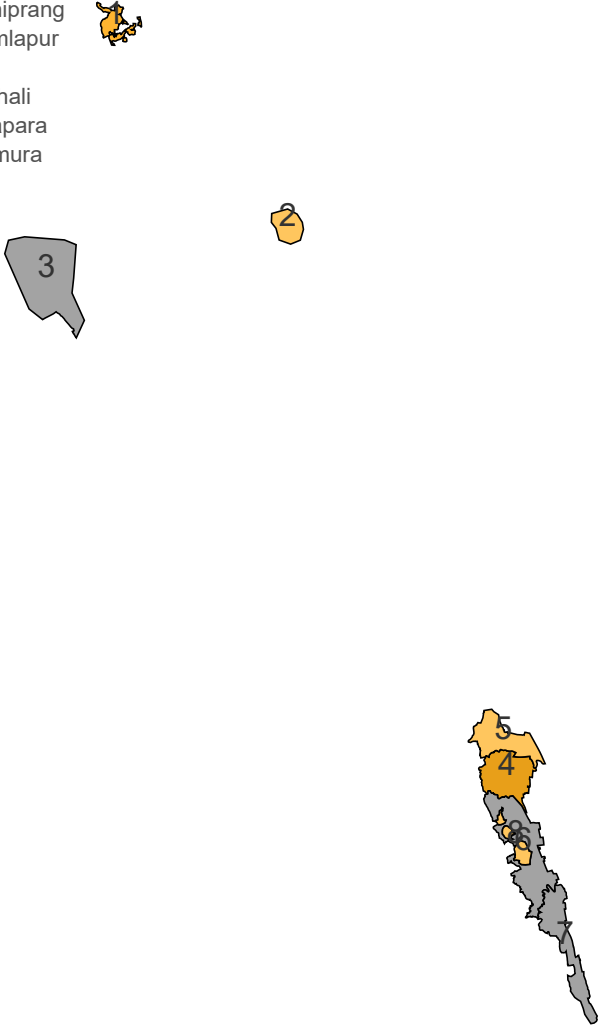


Table 11 | Performance by type of alert

Event	W50		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	0	0%	76	95%
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%	36	78%
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%	250	78%

Table 12 | Risk assessment

W50	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 W50 2023



Ministry of Health and Family  
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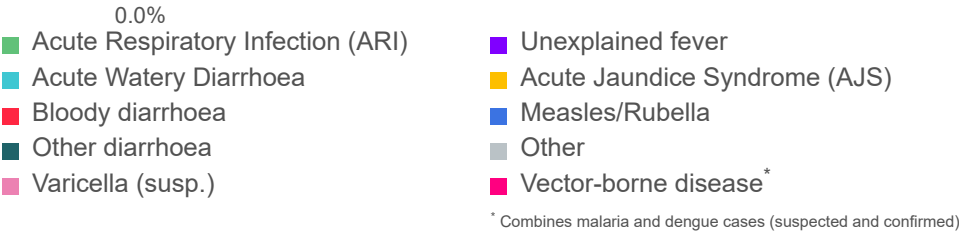
HEALTH SECTOR  
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Proportional morbidity

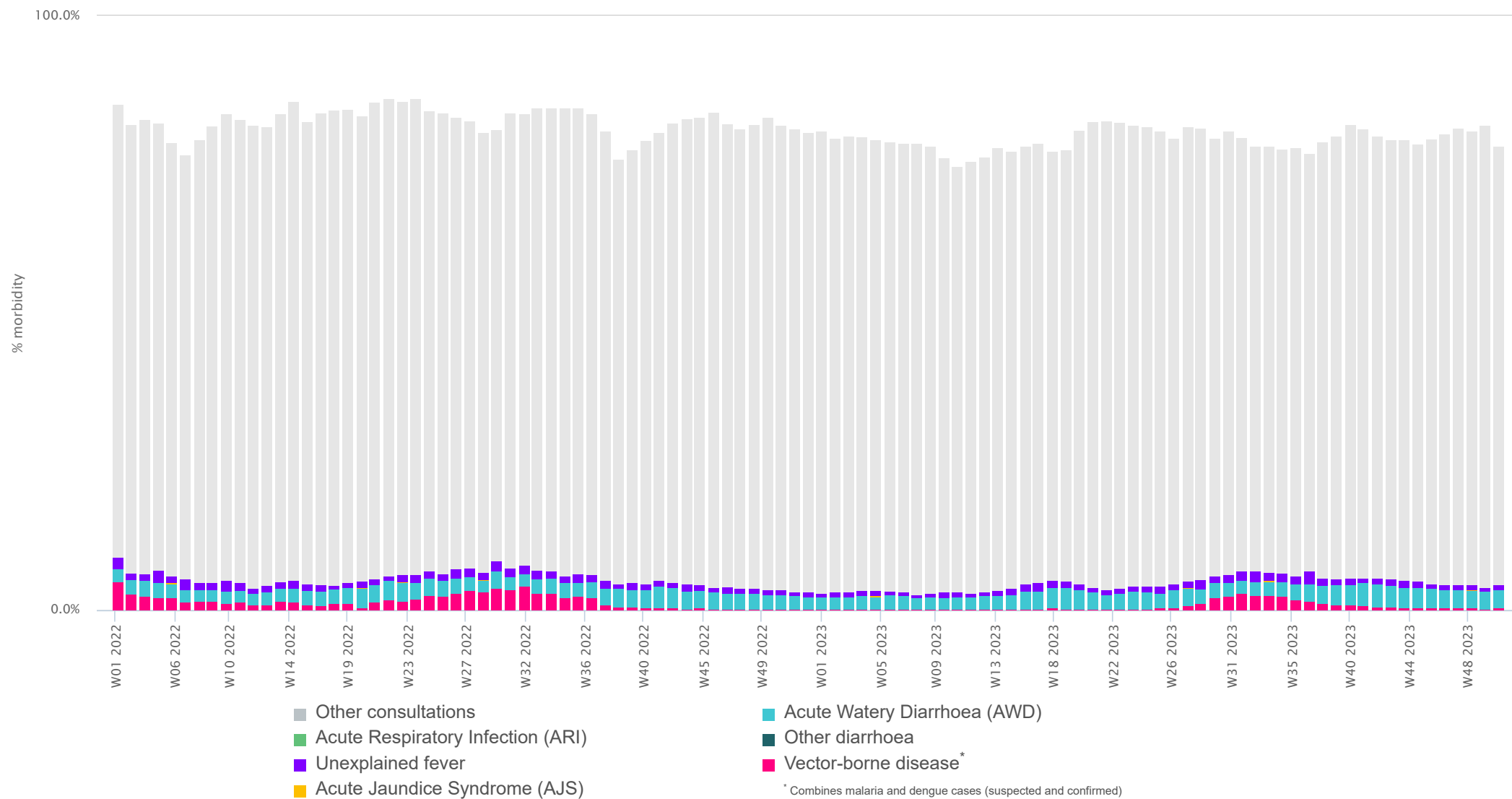
Figure 1 | Proportional morbidity (W50 2023)



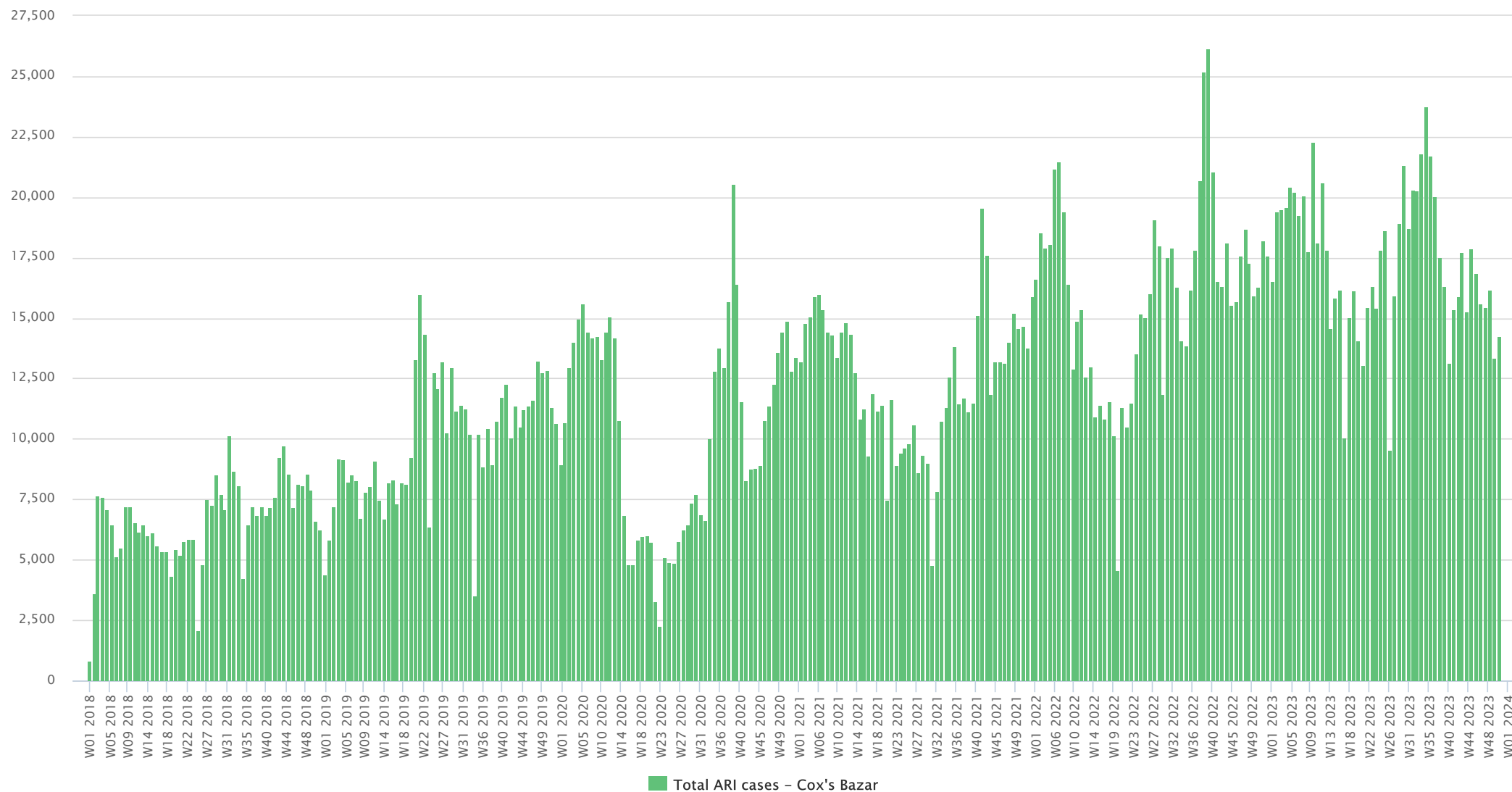
Disease	W50		2023	
	# cases	% morbidity	# cases	% morbidity
AWD	2,194	3.1%	133,087	2.8%
Bloody diarr.	149	0.2%	10,604	0.2%
Other diarr.	721	1.0%	57,005	1.2%
Susp. Varicella	50	0.1%	29,667	0.6%
ARI	14,582	20.8%	907,778	19.0%
Measles/Rub.	7	0.0%	718	0.0%
AFP	0	0.0%	159	0.0%
Susp. menin.	8	0.0%	229	0.0%
AJS	6	0.0%	714	0.0%
Susp. HF	6	0.0%	683	0.0%
Neo. tetanus	0	0.0%	16	0.0%
Adult tetanus	4	0.0%	146	0.0%
Malaria (conf.)	0	0.0%	188	0.0%
Malaria (susp.)	62	0.1%	4,063	0.1%
Dengue (conf.)	139	0.2%	19,817	0.4%
Dengue (susp.)	51	0.1%	8,758	0.2%
Unexpl. fever	556	0.8%	46,433	1.0%
Sev. Malnut.	22	0.0%	2,980	0.1%
Inj./Wounds	2,027	2.9%	124,215	2.6%
Other	49,408	70.5%	3,427,069	71.7%
Total	69,495	100%	4,779,071	100%

## Trend in consultations and key diseases

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

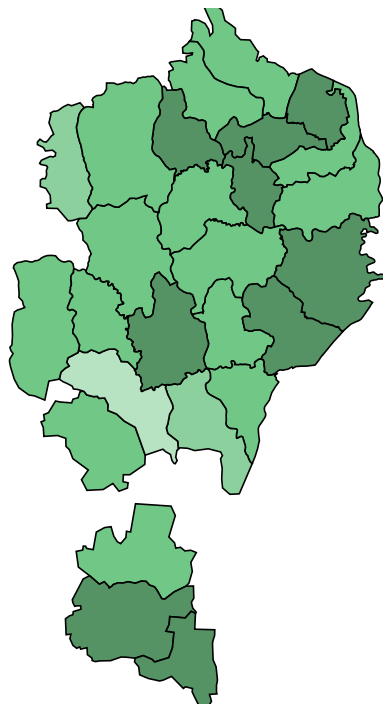


**Figure 3** | Trend in number of cases over time (W38 2017 - W50 2023)

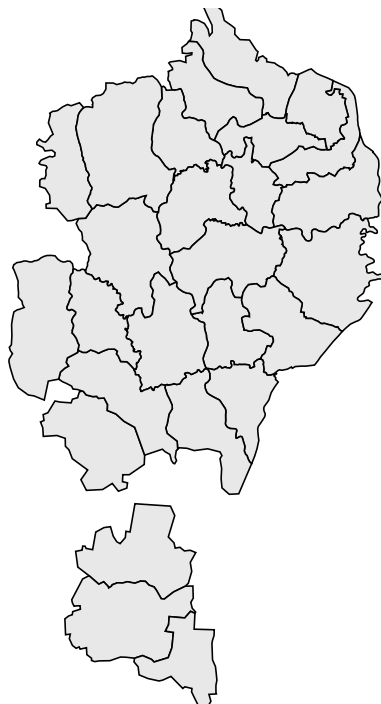


**Map 1** | Map of cases by camp (W50 2023)

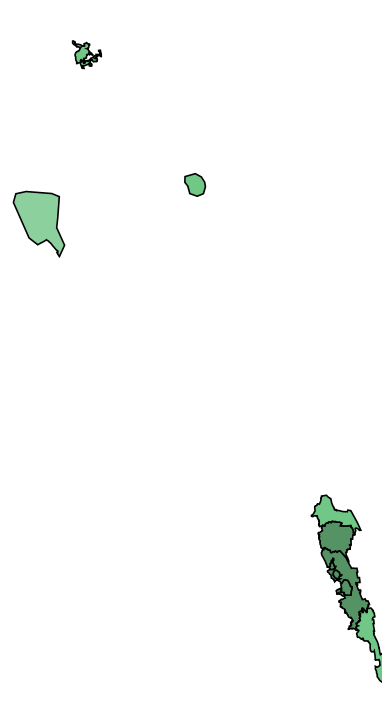
**a. Ukhia** | Number of cases



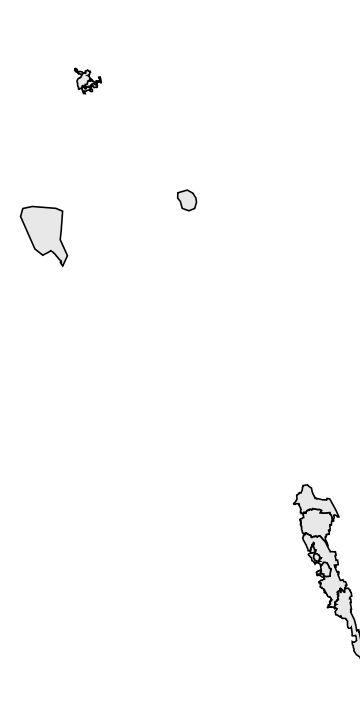
**b. Ukhia** | Number of alerts



**c. Teknaf** | Number of cases



**d. Teknaf** | Number of alerts



## Map legend

Number of cases



Number of alerts



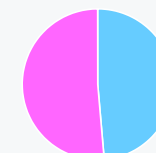
## Alert threshold

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

## Alert management (W50 2023)

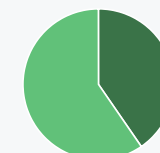


## Figure | % sex



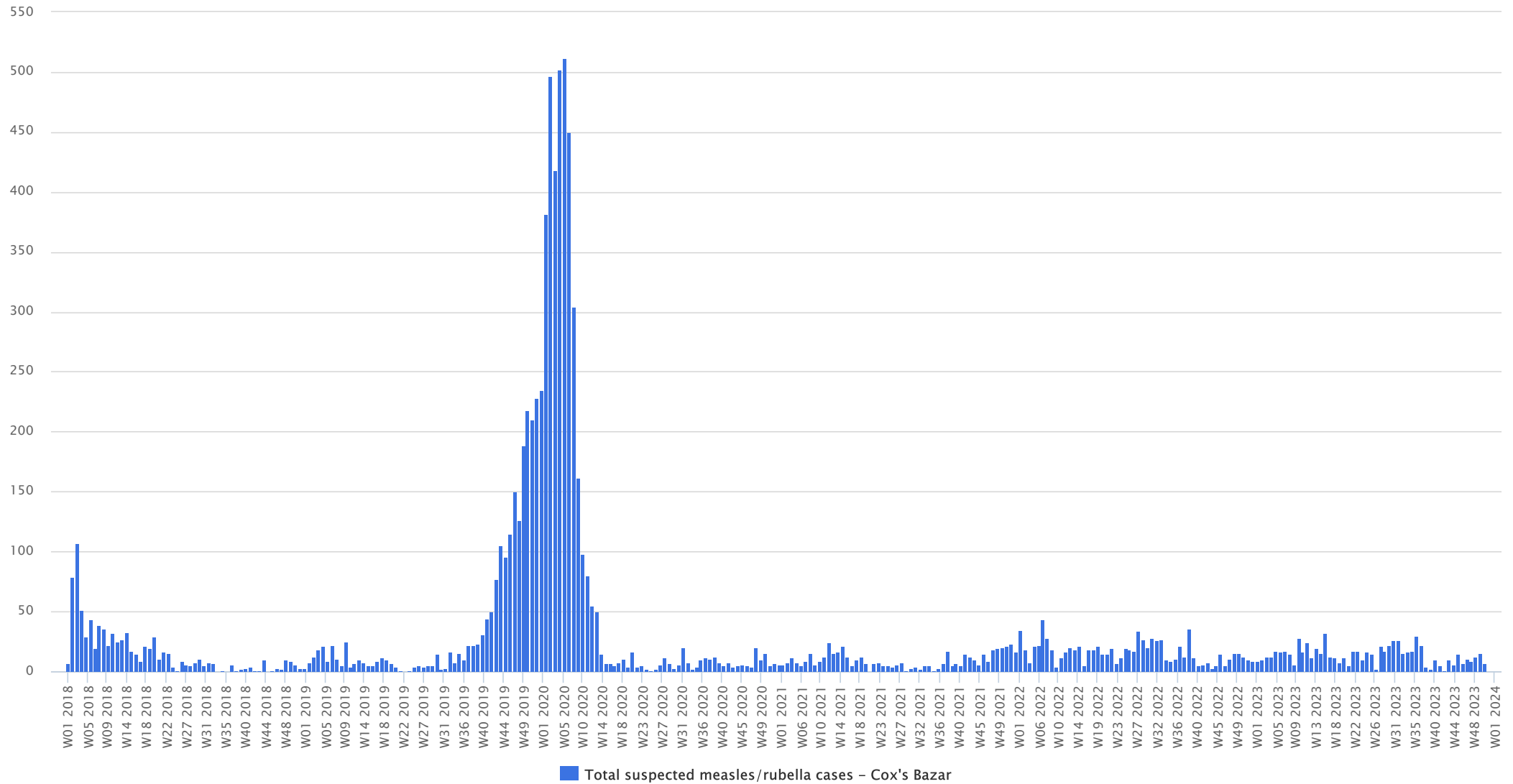
Male Female

## Figure | % age



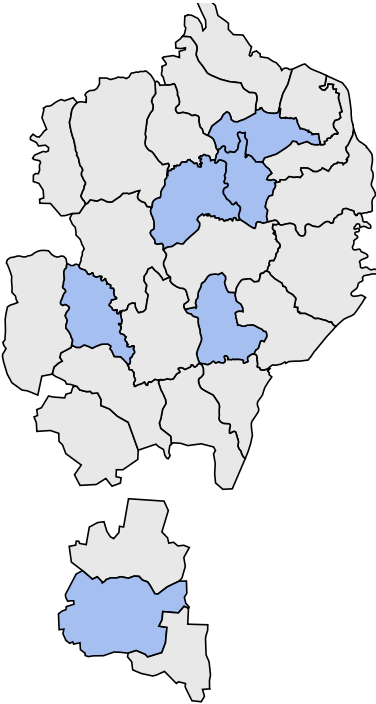
$\geq 5$   $< 5$

**Figure 4** | Trend in number of suspected cases over time (W38 2017 - W50 2023)



Map 2 | Map of cases by camp (W50 2023)

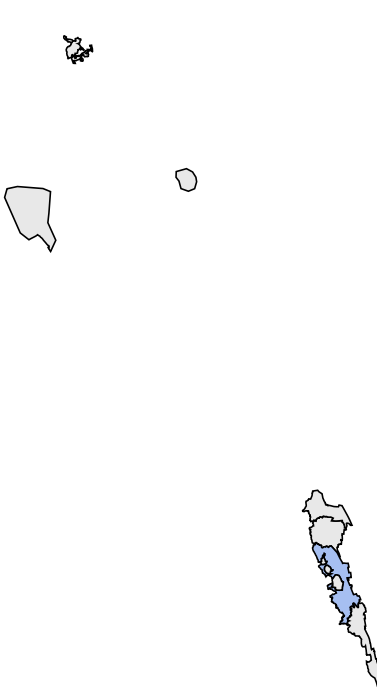
a. Ukhia | Number of cases



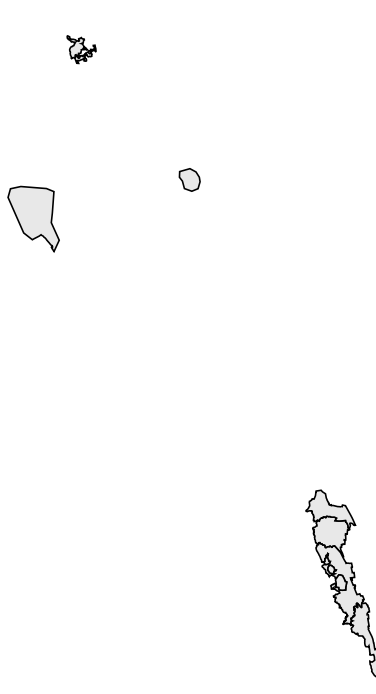
b. Ukhia | Number of alerts



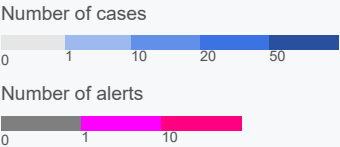
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold  
1 case. Source: IEDCR

Alert management (W50 2023)

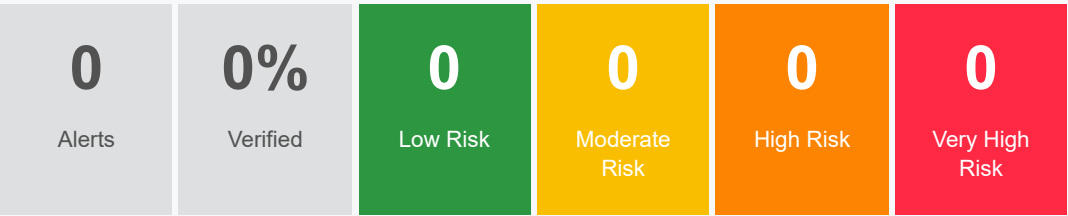


Figure | % sex

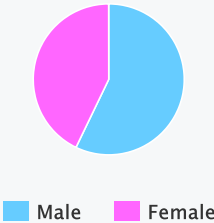
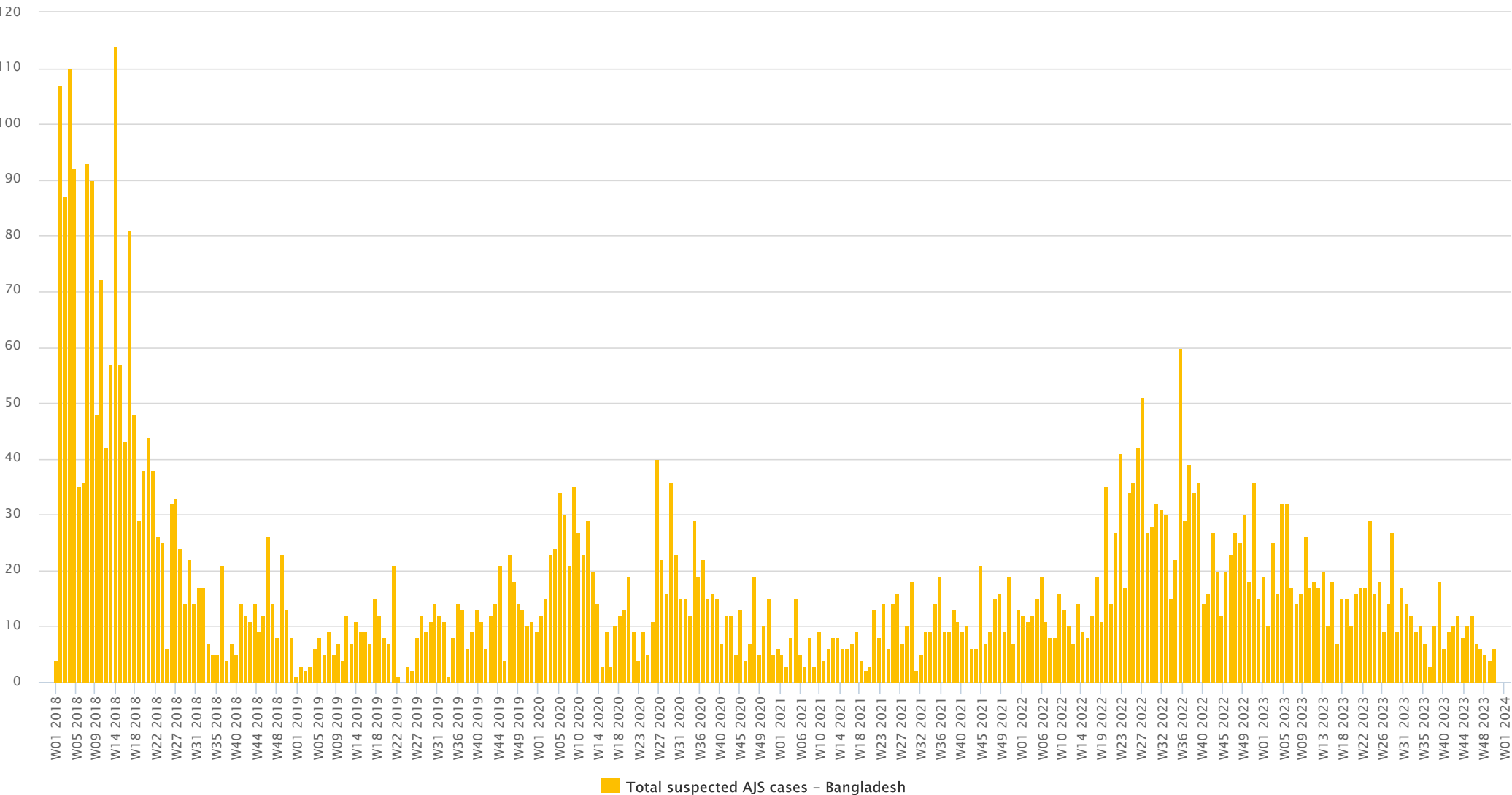


Figure | % age



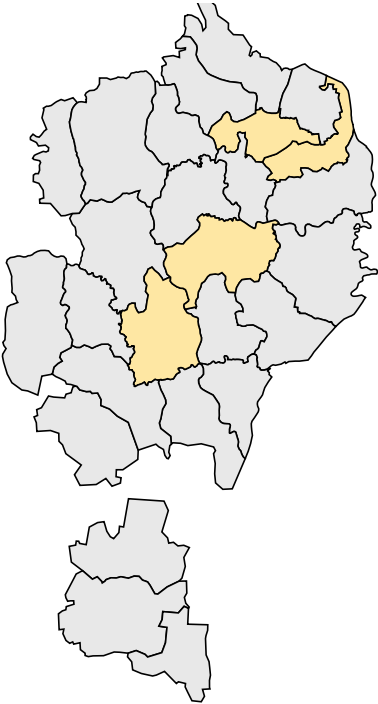


Figure 5 | Trend in number of cases over time (W38 2017 - W50 2023)



Map 3 | Map of cases by camp (W37 2017 - W50 2023)

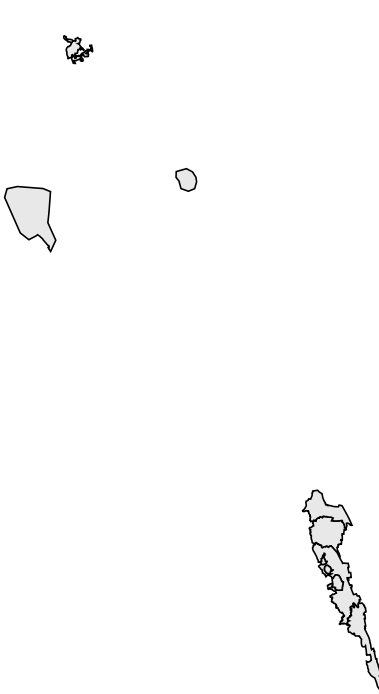
a. Ukhia | Number of cases



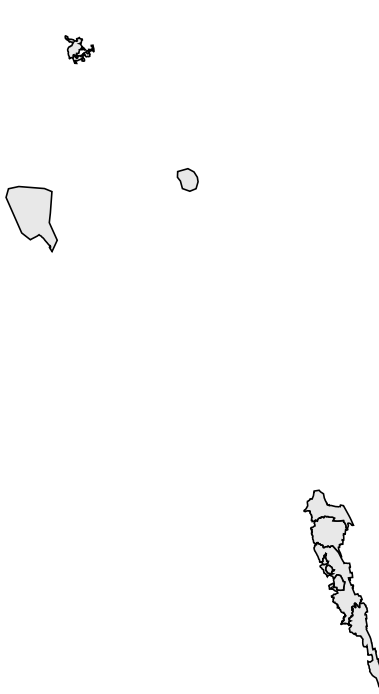
b. Ukhia | Number of alerts



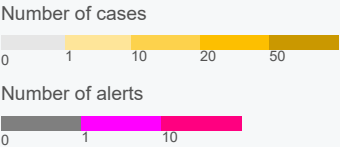
c. Teknaf | Number of cases



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 (W50 2023)

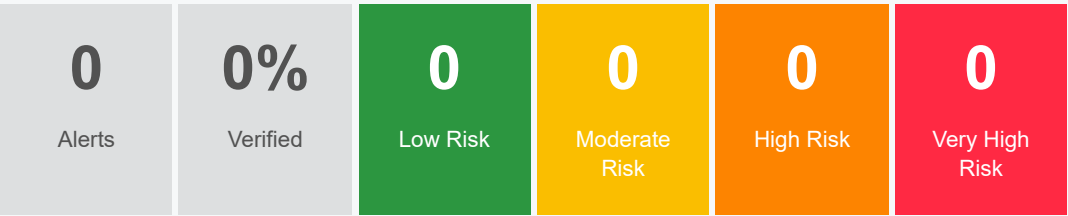


Figure | % sex

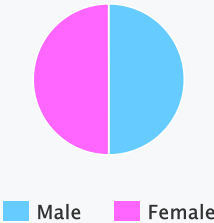
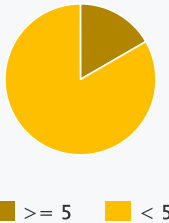
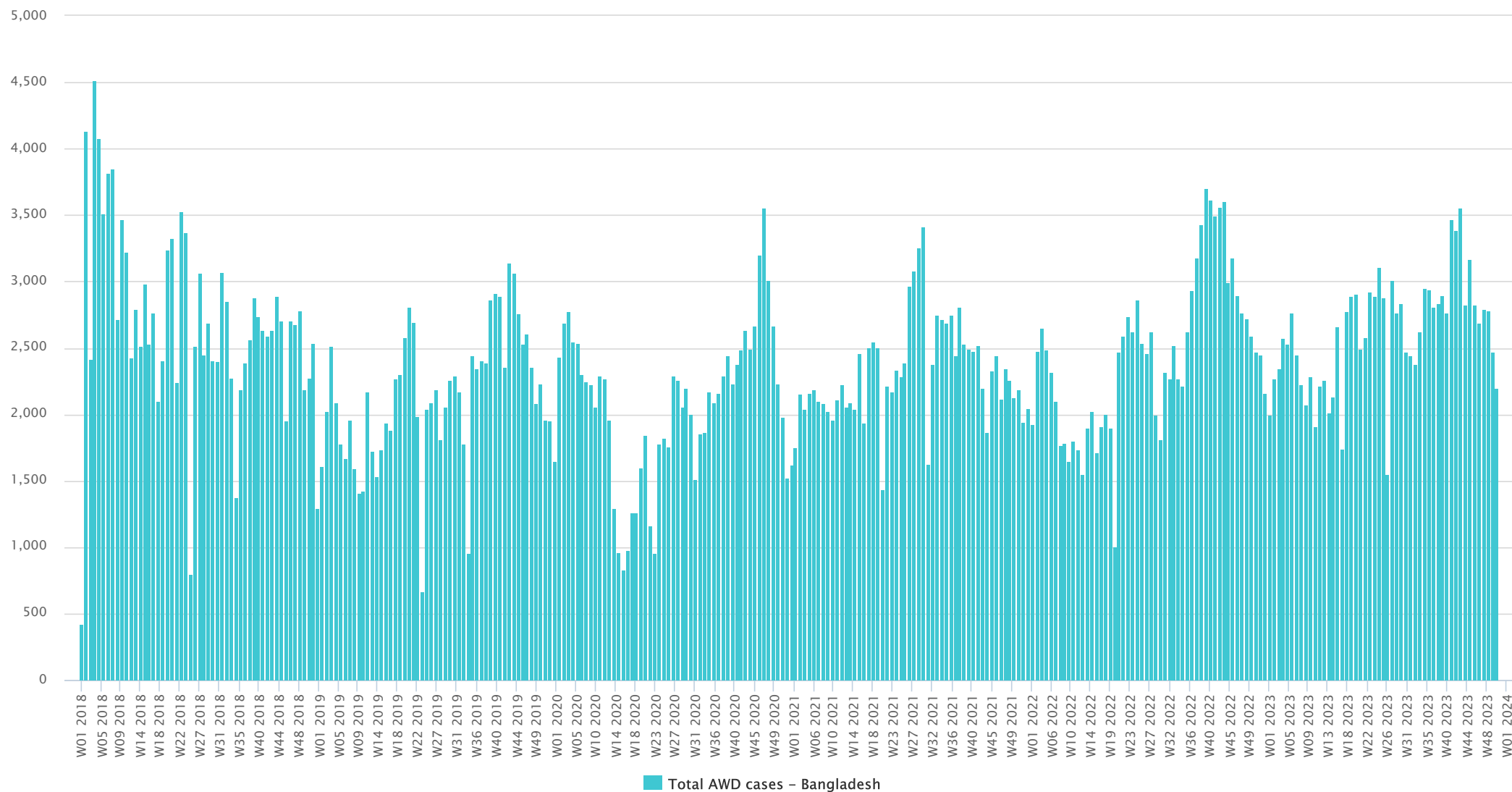


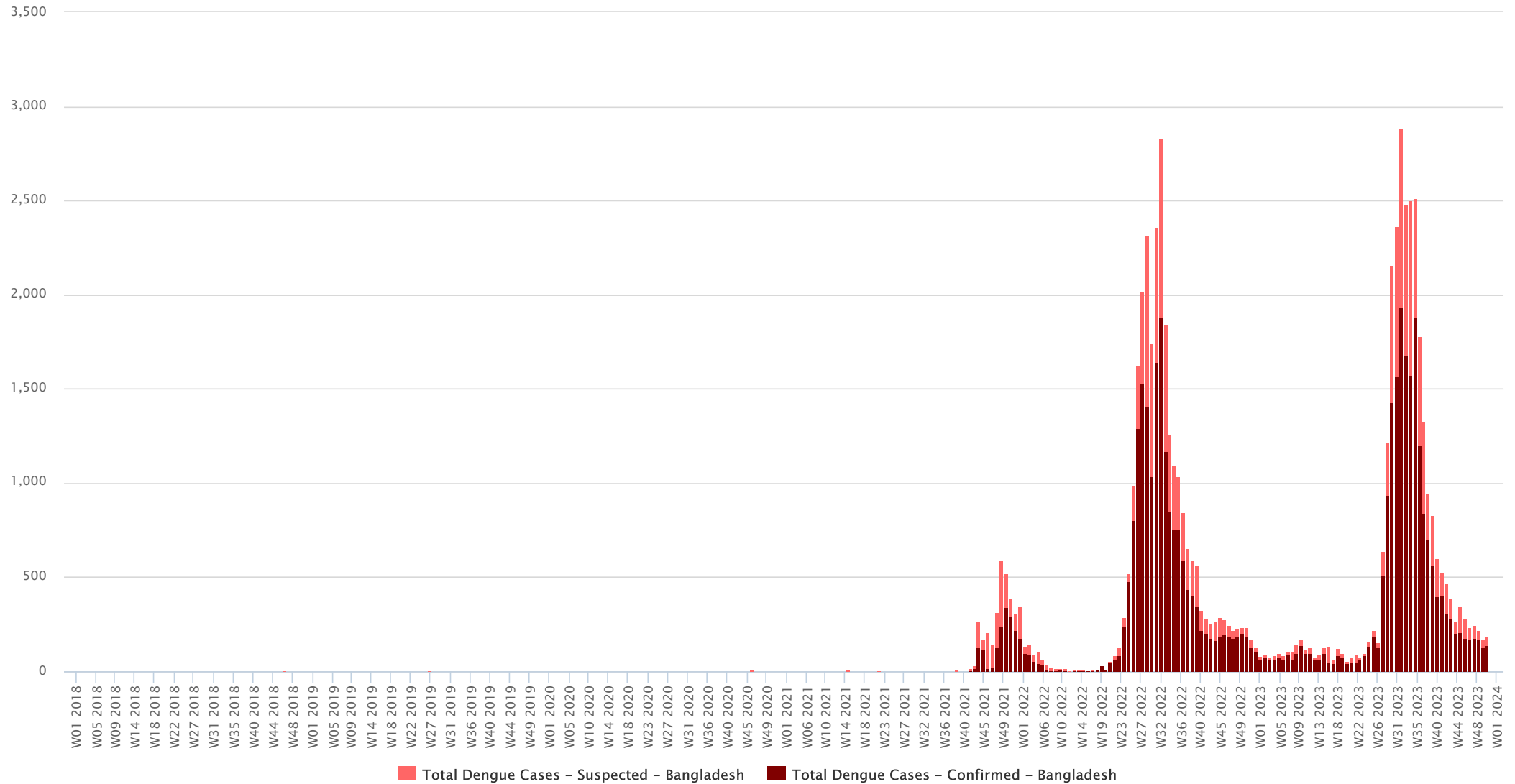
Figure | % age



**Figure 6** | Trend in number of cases over time (W38 2017 - W50 2023)

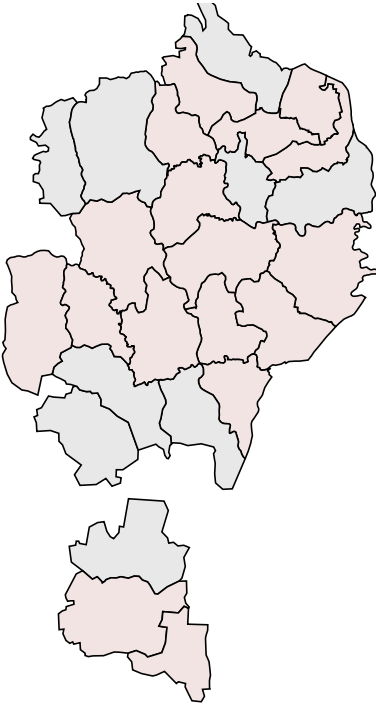


**Figure 7** | Trend in number of cases over time (W38 2017 - W50 2023)



Map 4 | Map of cases by camp (W37 2017 - W50 2023)

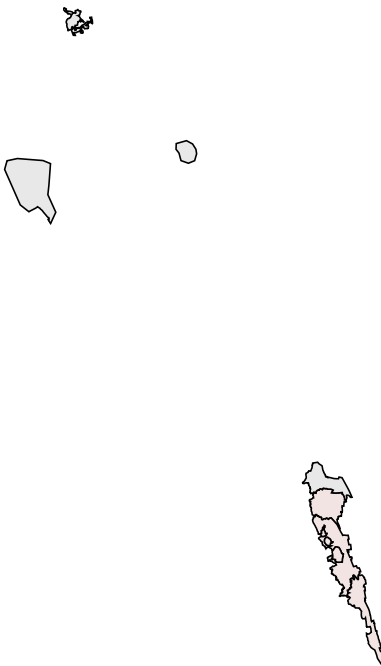
a. Ukhia | Number of cases



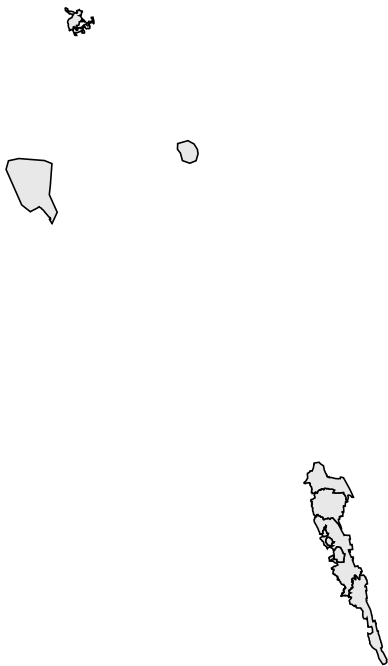
b. Ukhia | Number of alerts



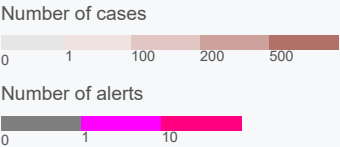
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W50 2023)

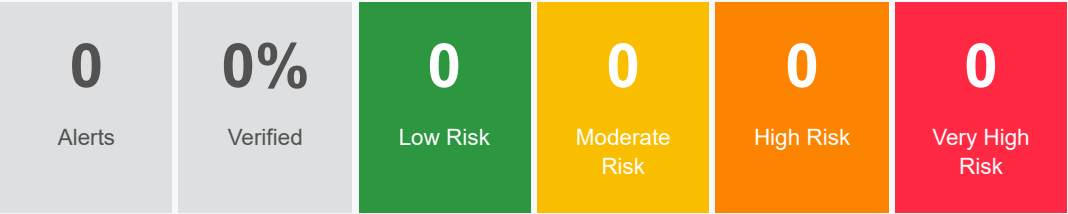


Figure | % sex

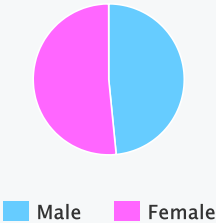


Figure | % age

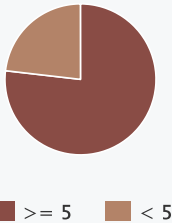
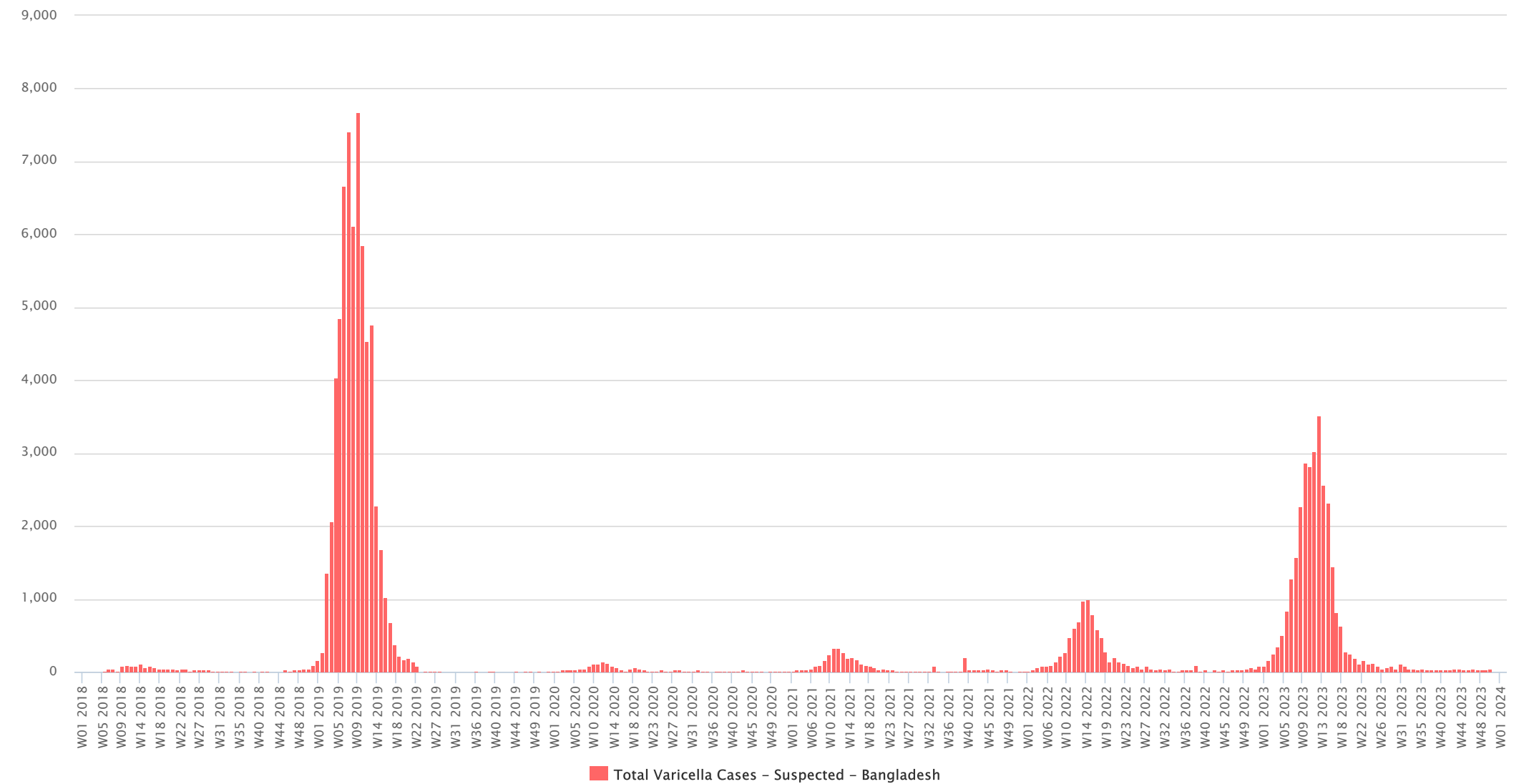
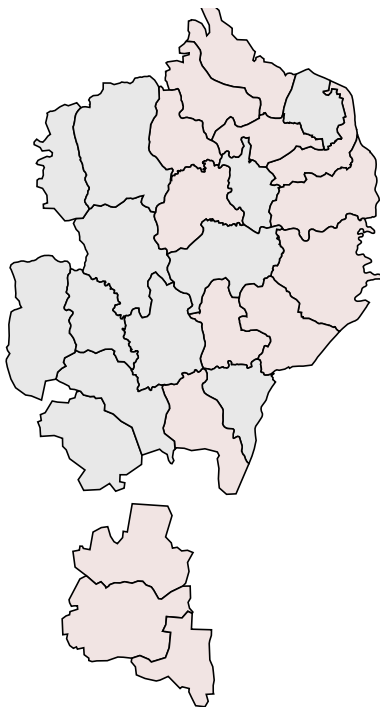


Figure 7 | Trend in number of cases over time (W38 2017 - W50 2023)

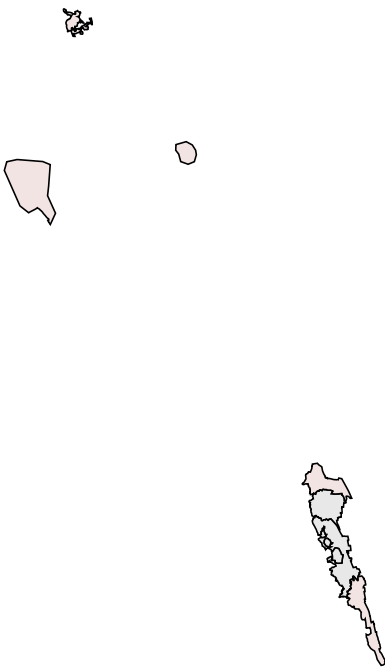


Map 4 | Map of cases by camp (W37 2017 - W50 2023)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

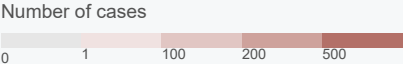


Figure | % sex

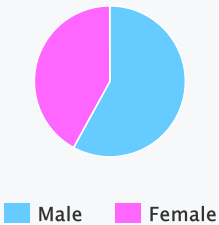
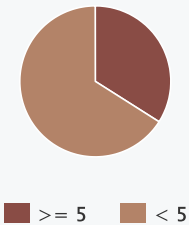


Figure | % age



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## Notes

WHO and the Ministry of Health and Family Welfare gratefully acknowledge all partners who have reported the data used in this bulletin.

The data been collected with support from the EWARS project. This is an initiative to strengthen early warning, alert and response in emergencies. It includes an online, desktop and mobile application that can be rapidly configured and deployed in the field. It is designed with frontline users in mind, and built to work in difficult and remote operating environments. This bulletin has been automatically published from the EWARS application.

More information can be found at <http://ewars-project.org>

Sign up for an account with EWARS Bangladesh at <http://bd.ewars.ws>



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