



# Epidemiological Highlights

Week 1 (1-7 January) 2023



World Health  
Organization

# Highlights: COVID-19

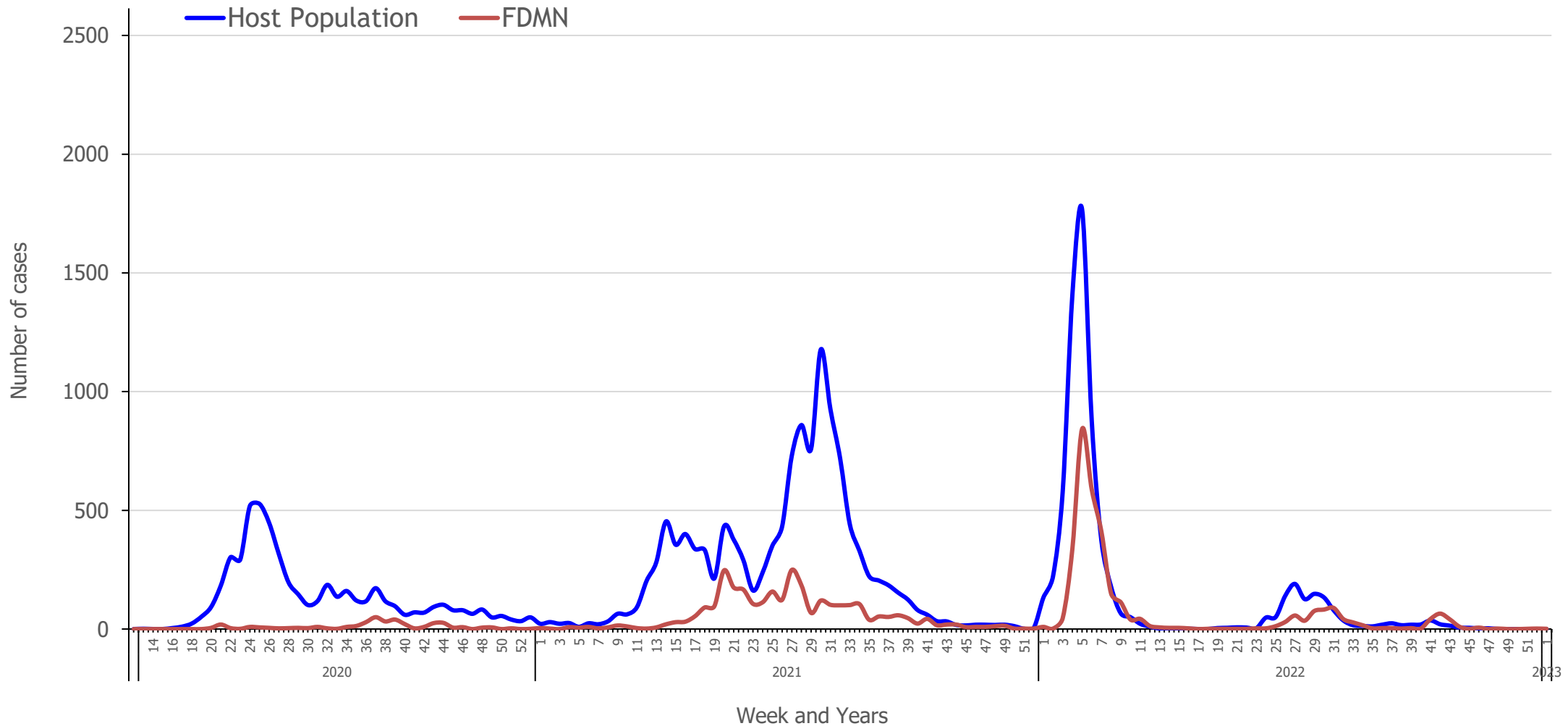
## FDMN:

- **One (1)** confirmed case was reported in week 1 2023
- Weekly TPR is 0.2 and incidence/new infections are 1.2 cases/1m population/week
- No new death reported, and total deaths stabilized at **45** (CFR of 0.7%) while cumulative cases were steady at **6,589**
- Level of recovery continues to steady at 99%

## Host Population:

- **No** new confirmed cases were reported this week similar to the last six weeks, the number of total cases is **24,643**
- Weekly TPR steady at zero this week, similar to the previous week
- Weekly case incidence stabilized at 0.0 cases/1m population/week
- Recovery level continues to remain steady at 99%, with No new death, and total deaths stand at **269** (CFR-1.1%)

# Highlights: COVID-19



FDMNs: One (1) new confirmed case was reported this week, and weekly TPR is 0.2, and case incidence remains 1.2, two weeks in a row.  
Host Population: No new cases were reported in the week which is like the last six weeks, weekly TPR and case incidence was steady at zero.

# EWARS Reporting Updates

Currently, a total of **162 health facilities** are registered in EWARS

- Only 138/162 weekly reports were received on time in week 1 in 2023
- **Timeliness of reporting for this week was 83%**
- Seventy-one (71) alerts were triggered
- All alerts were reviewed and verified by the WHO EWARS team; this was more than that of the previous week (45 alerts in week 53, 2022)

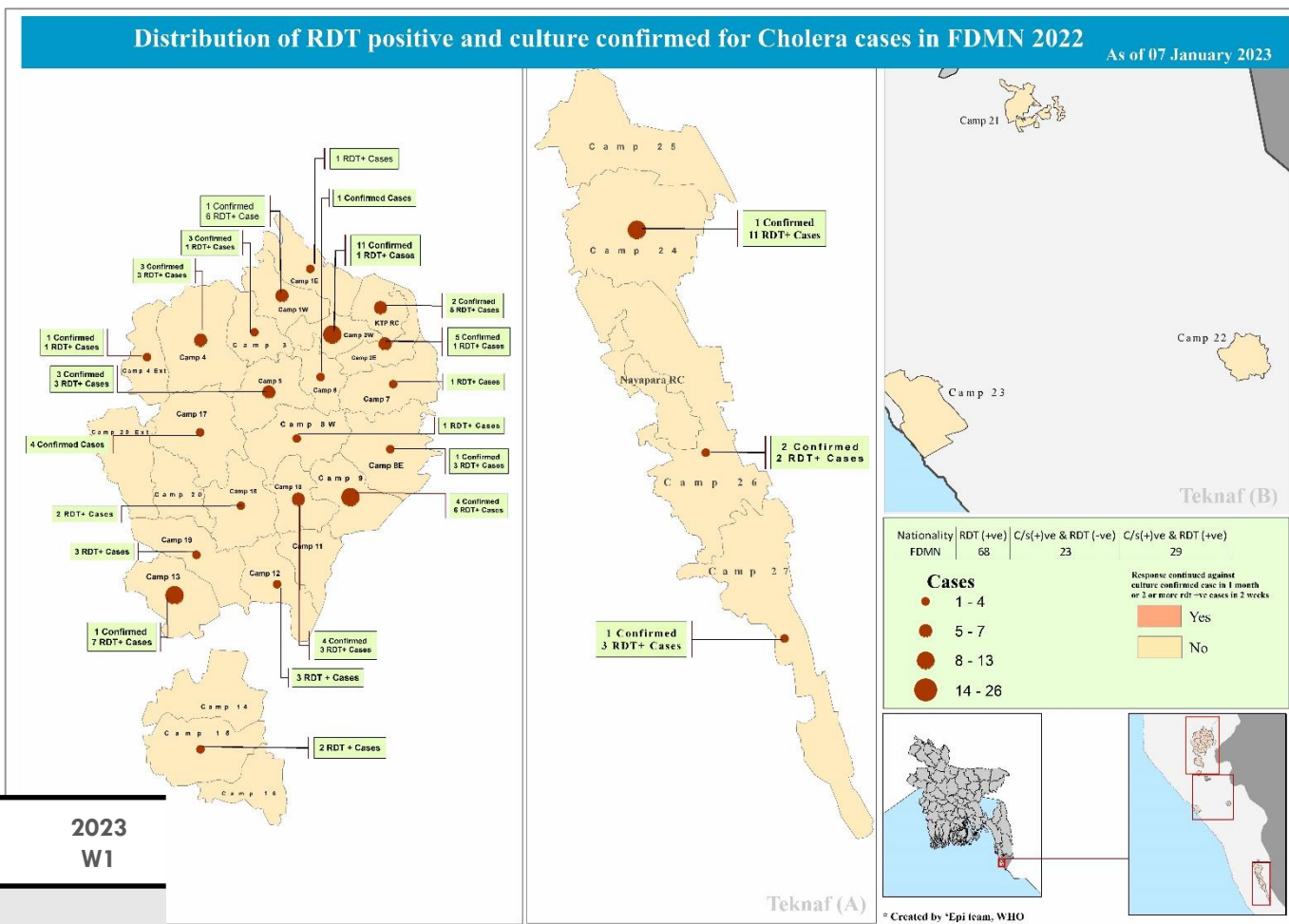
# Highlights: Morbidities and Mortalities

- Acute Respiratory Infections (18.9%), Diarrheal Diseases (3.7%) & Injuries, and Wounds (2.1%) were the diseases and health conditions with the highest proportional morbidity in week 1 2023.
- Monitoring of suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020. There is no new case reported in 2023
- This Epi week, no new SARI deaths were reported as highlighted below:

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

# Cholera/AWD Surveillance Updates

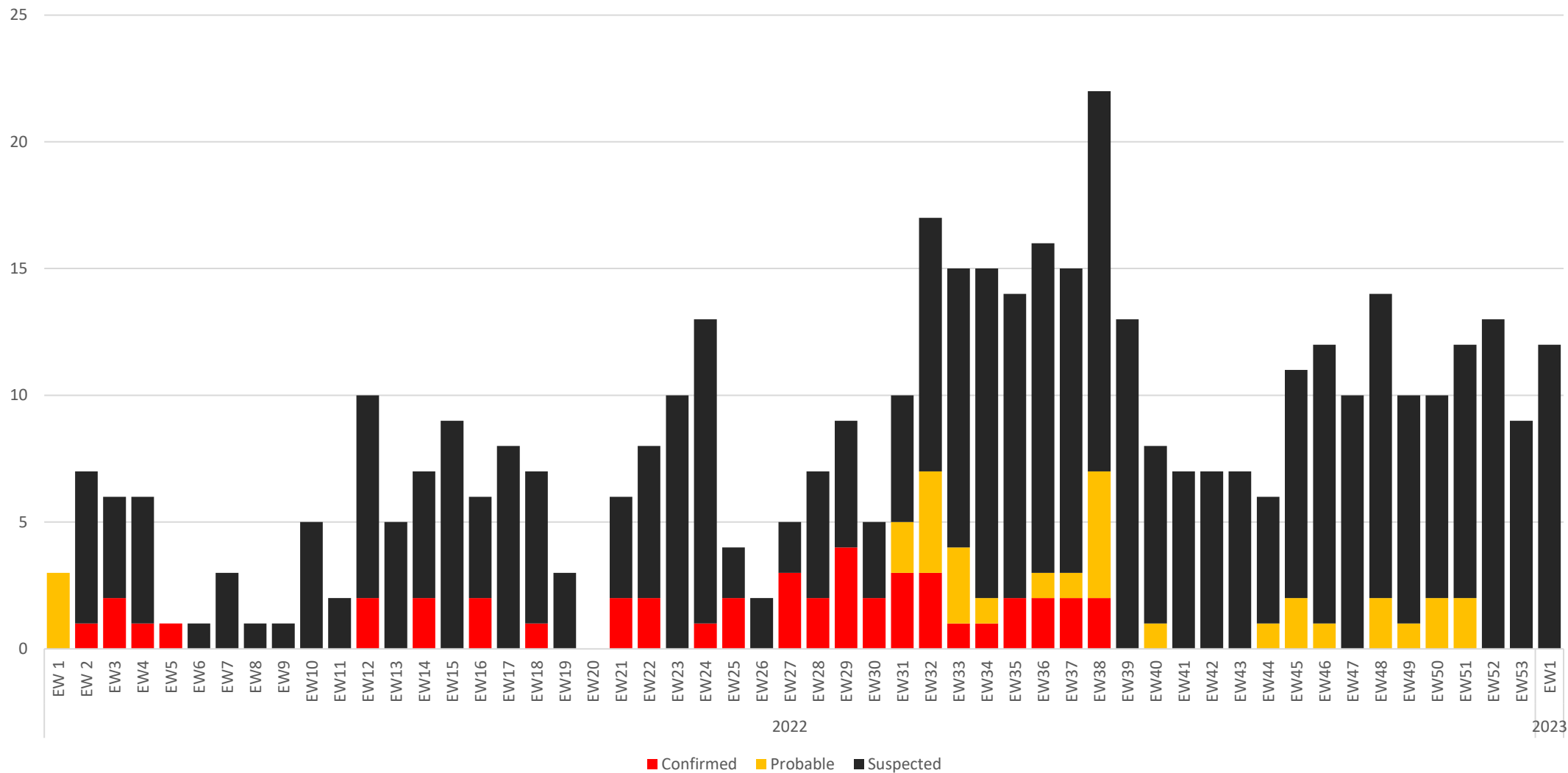
- In this week, there is one new cultured confirmed Cholera case, and 2 RDT-positive cases were reported, and samples were sent for testing.
- In 2023 total of three (3) RDT-positive AWD cases/ cholera suspected cases including 1 culture-confirmed cholera case reported as of Epi Week 1 2023.
- Cumulatively there are 865 RDT and culture-confirmed cholera cases of which 403 cases were culture-confirmed since transmission in 2018.



	2018	2019	2020	2021	2022	2023 W1
<b>RDT positive AWD cases &amp; culture confirmed for Cholera cases</b>	49	258	28	357	170	3
<b>Culture confirmed for Cholera</b>	7	184	5	136	70	1

# Trends of Diphtheria cases

Total number of diphtheria case reported in EWARS from 2022 -week 1, 2023



# Diphtheria Surveillance Updates

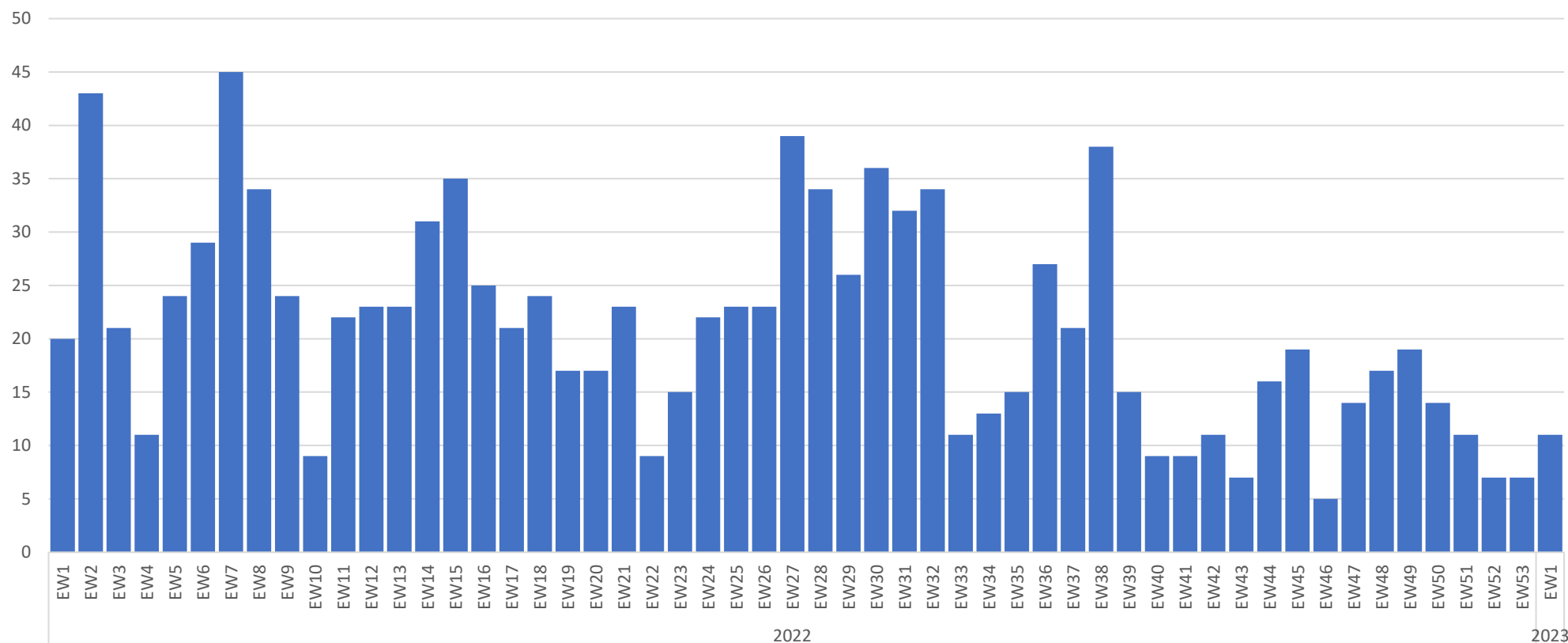
- Twelve (12) suspected diphtheria cases were reported in go.data in this Epi week 1 in 2023
- The last confirmed case was reported on 14 September 2022
- In total 54 deaths have so far been reported since 2017, with the last death reported on 18 October 2022

Classification	2017	2018	2019	2020	2021	2022	2023
Confirmed	66	226	31	19	30	46	0
Probable	1154	1555	60	9	29	32	0
Suspected	1796	3549	523	198	118	355	12
Death	30	14	3	0	5	2	0



# Epi Curve of Suspected Measles Cases

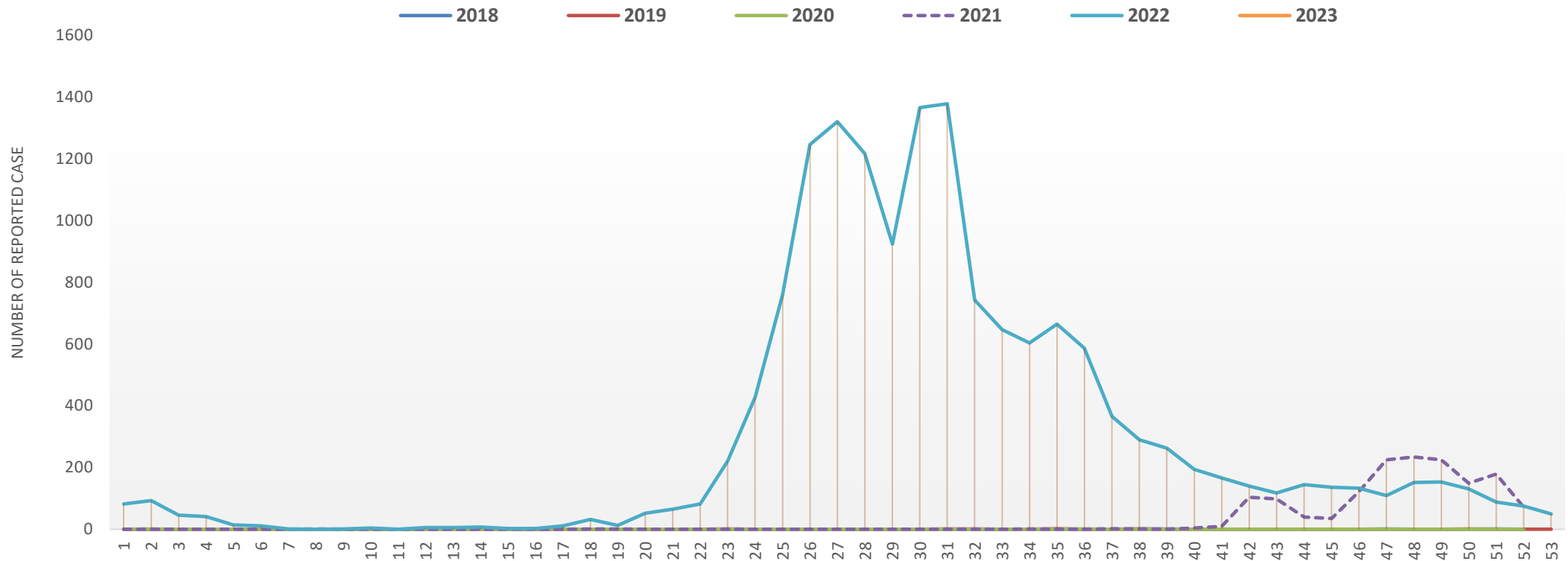
Total number of Measles case reported in EWARS from 2022-2023 week 1



- > In week 1, 11 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 11 reported in 2023
- > About 72% (8/11) of the total suspected measles cases were reported through case-based reporting and samples collected for laboratory confirmation

# Dengue Surveillance Updates

Yearly Trends of Dengue case trend from 2018 – 2023 week 1



- ❑ Overall level of infection continues to decline since October and transmission significantly reduced as weekly cases continue to drop
- ❑ Camp 3 and the three camps around it bear the greatest burden of confirmed cases so far reported as the main transmission foci but the level of transmission is equally declining in these camps

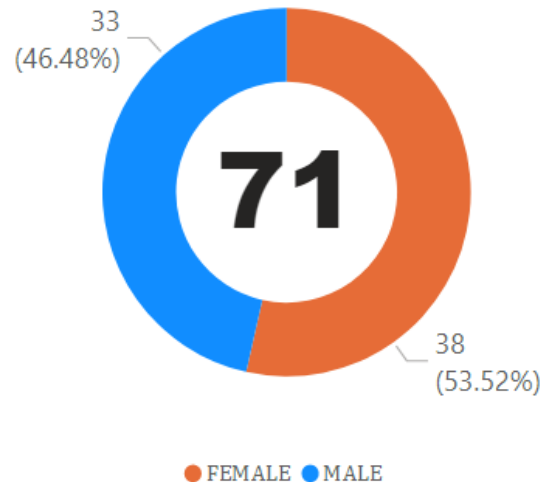
# Community-based Mortality surveillance updates Epi week 1 2023

Probable causes of death	Epi week 1	In 2023
Still Birth	5 (7%)	5 (7%)
Neonatal Death (<28 days old)	6 (8%)	6 (8%)
Infectious Disease	3 (4%)	3 (4%)
Severe Acute Respiratory Infection (SARI)	--	--
Injury	2 (3%)	2 (3%)
Maternal Death	2 (3%)	2 (3%)
Acute Malnutrition	--	--
Other	55 (75%)	55 (75%)
<b>Total</b>	<b>73 (100%)</b>	<b>73 (100%)</b>

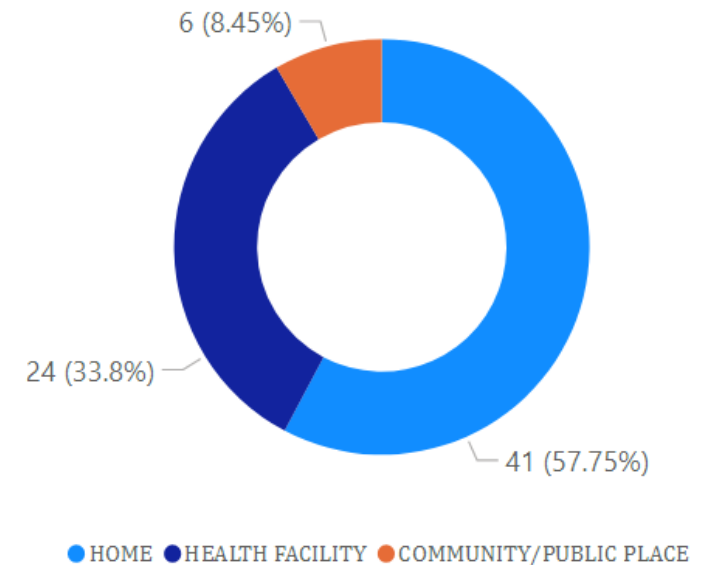
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable

# Community-based Mortality surveillance updates Epi week 1 2023

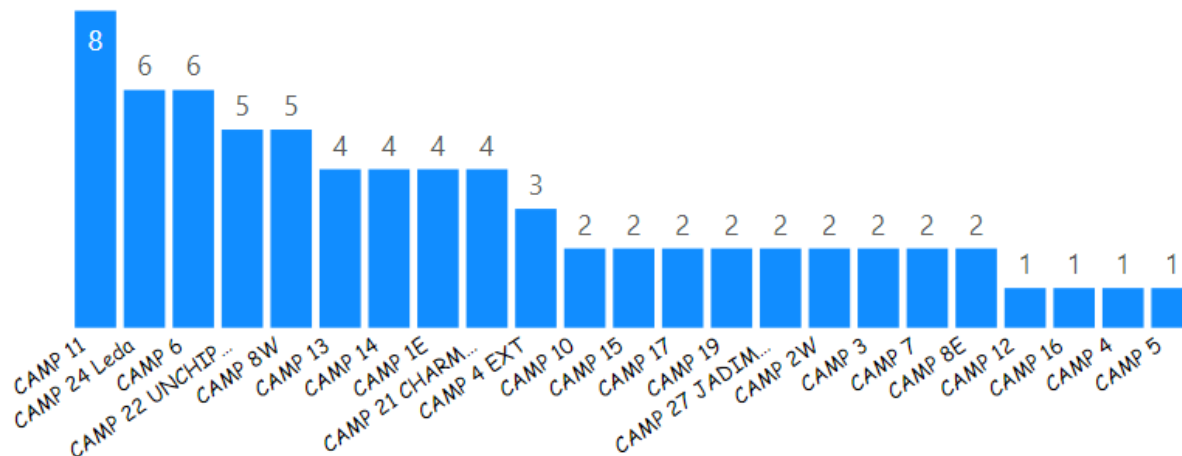
**Gender distribution**



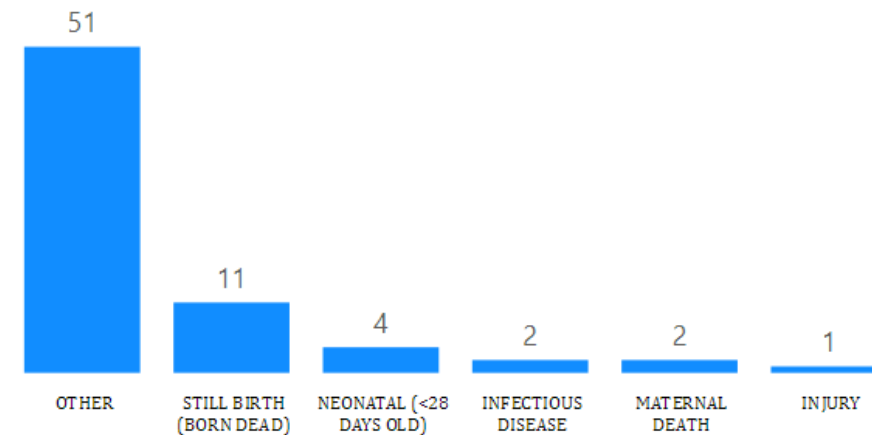
**Place of death**



**Distribution of deceased Camp**



**Distribution of Probable cause of death**



# Bangladesh

Rohingya Emergency Response

Early Warning, Alert and  
Response System (EWARS)

Epidemiological Bulletin W1 2023



Ministry of Health and Family  
Welfare Bangladesh



World Health  
Organization



HEALTH SECTOR  
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Printed: 06:17 Tuesday, 10 January 2023 UTC

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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
175	-	Total number of health facilities
162	93%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

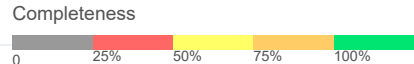
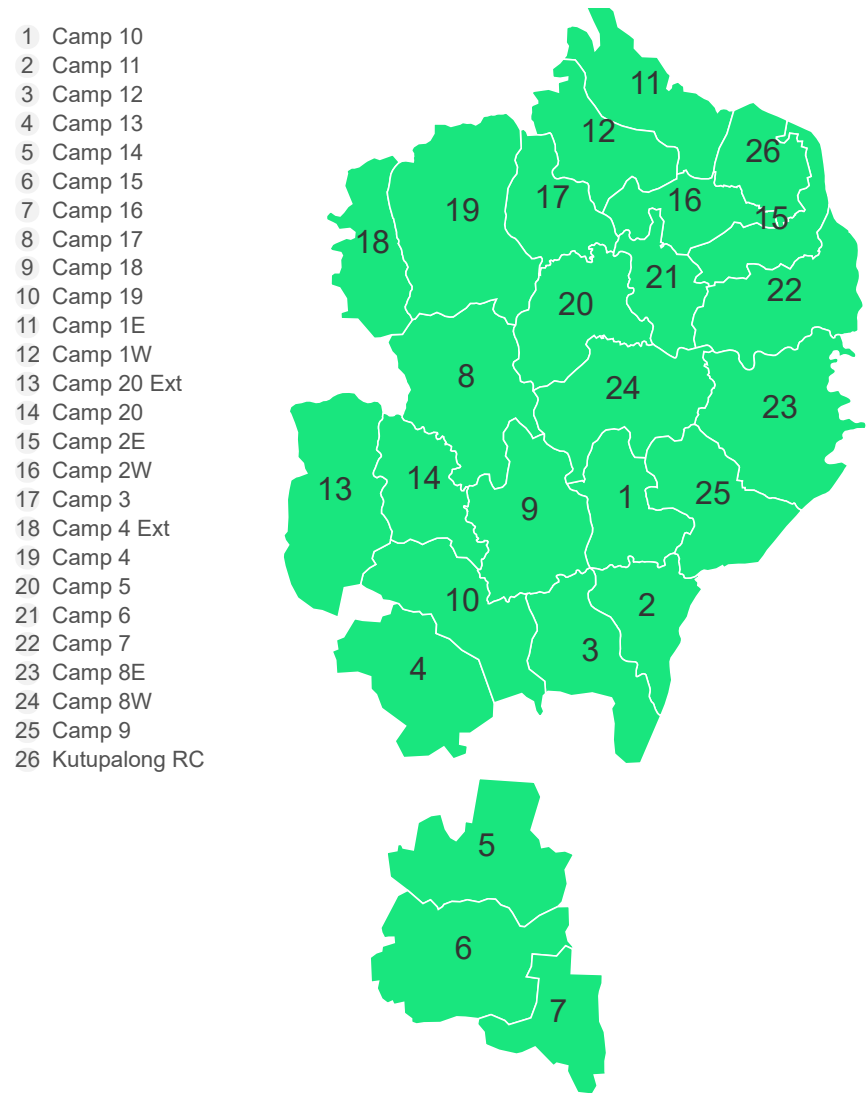
W1	Cumulative (2023)	
138	138	Number of weekly reports received
85%	85%	Completeness
83%	83%	Timeliness

Table 3 Alert performance indicators

W1	Cumulative (2023)	
71	98	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 2021.

Map 1a | Ukhia completeness by camp



Map 1b | Teknaf completeness by camp

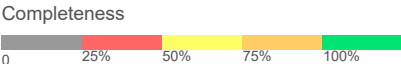
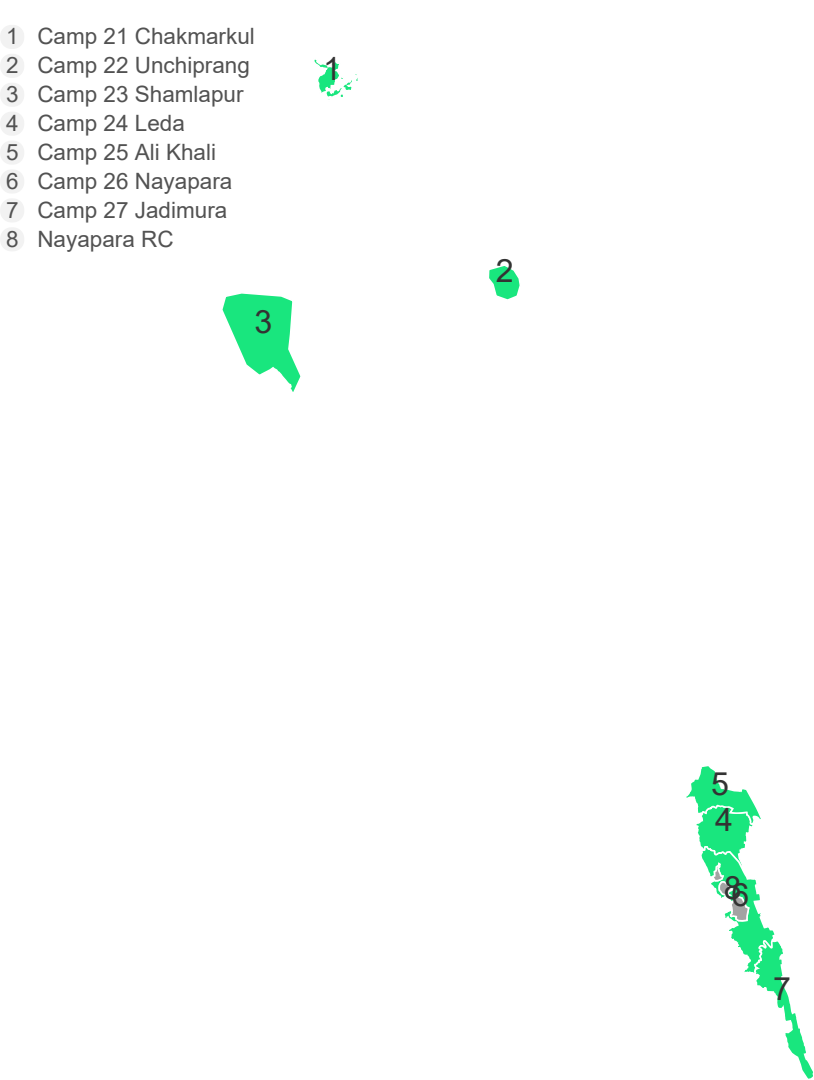




Table 4 | Performance by camp (W1 2023)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	4	100%	0%
Camp 1W	5	2	100%	0%
Camp 2E	3	3	100%	0%
Camp 2W	3	3	100%	0%
Camp 3	5	3	60%	0%
Camp 4	5	3	80%	0%
Camp 4 Ext	1	1	100%	0%
Camp 5	5	4	80%	0%
Camp 6	2	2	100%	0%
Camp 7	5	4	100%	0%
Camp 8E	8	9	88%	100%
Camp 8W	4	3	75%	0%
Kutupalong RC	2	2	100%	0%

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

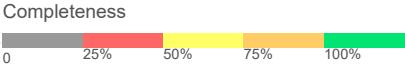
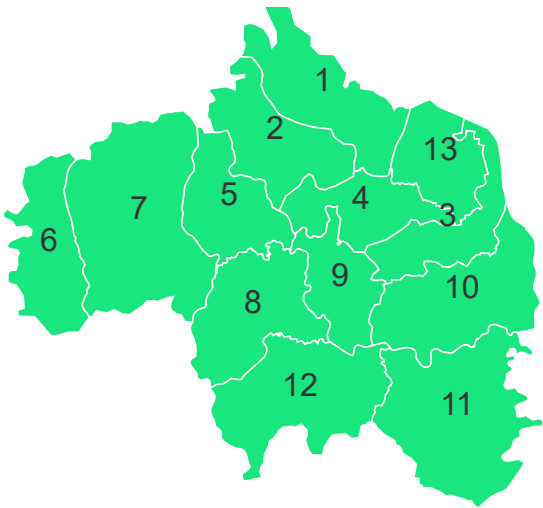


Table 5 | Performance by camp (W1 2023)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	75%	0%
Camp 11	6	5	100%	0%
Camp 12	6	6	83%	0%
Camp 13	9	8	78%	0%
Camp 14	6	5	100%	0%
Camp 15	8	5	50%	0%
Camp 16	7	6	71%	0%
Camp 17	5	5	80%	0%
Camp 18	4	4	75%	0%
Camp 19	4	4	100%	0%
Camp 20	4	3	125%	0%
Camp 20 Ext	3	3	67%	0%
Camp 9	6	3	83%	0%

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

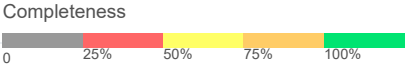
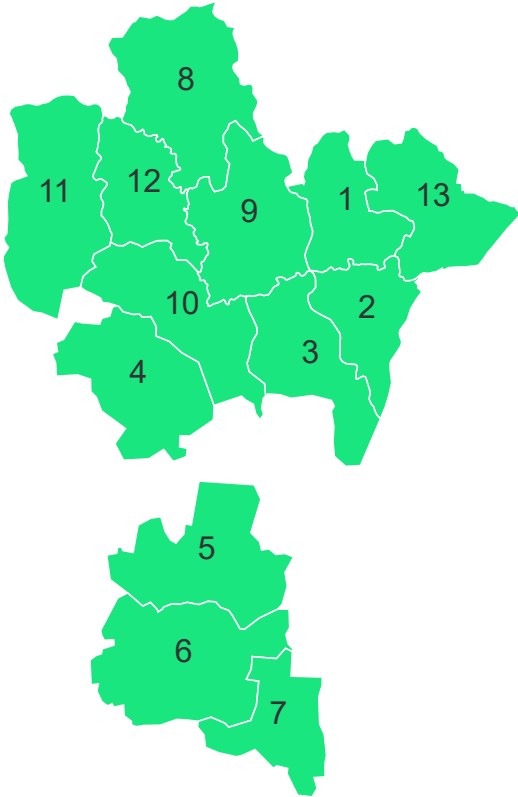
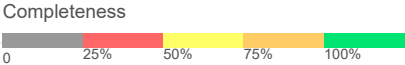
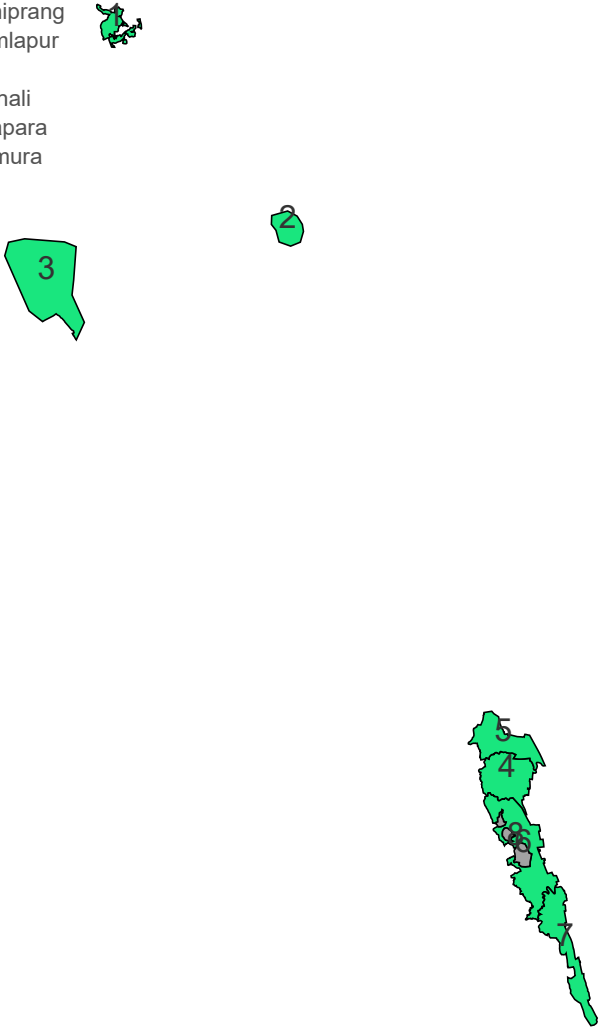


Table 6 | Performance by camp (W1 2023)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	4	2	100%	0%
Camp 22 Unchiprang	5	3	60%	0%
Camp 23 Shamlapur	3	1	67%	0%
Camp 24 Leda	2	1	50%	0%
Camp 25 Ali Khali	3	2	100%	0%
Camp 26 Nayapara	5	4	75%	0%
Camp 27 Jadimura	2	1	100%	0%
Nayapara RC	2	0	100%	0%

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 (W1 2023)

Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	1	1	100%	100%	IRC	4	3	0%	0%
AWARD	6	6	100%	100%	MSF	9	6	0%	0%
BASHMAH	1	1	100%	100%	MoH	12	9	0%	0%
BDRCS	10	8	80%	80%	MHI	0	0		
BRAC	0	11	100%	100%	Medair	0	0		
CARE	4	4	100%	100%	FH/MTI	4	4	0%	0%
GH/CPI	1	1	100%	100%	PRANTIC	1	1	100%	100%
DBC	1	1	100%	100%	PULSE	1	1	100%	100%
DSK	1	0	0%	0%	QC	1	1	100%	100%
DCHT-PWJ	1	1	100%	100%	PHD	10	2	0%	0%
FRNDS	5	6	0%	0%	RPN	2	2	100%	100%
GK	11	11	0%	0%	RHU	3	3	100%	0%
Global One	1	0	0%	0%	RI	3	3	0%	0%
GUSS	1	1	100%	100%	RTMI	10	8	0%	0%
HAEFA	2	2	100%	100%	SALT	1	1	100%	100%
HAIB	0	0			SCI	7	7	0%	0%
HMBDF	2	2	0%	0%	DCHT-MM	1	0	0%	0%
HOPE	1	1	100%	100%	Turkish Government	1	1	100%	100%
ICRC	1	2	200%	200%	TdH	2	2	0%	0%
IOM	23	20	0%	0%					

Table 8 | Performance by camp

Northern group	W1		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	4	100%	5	100%
Camp 1W	1	100%	1	100%
Camp 2E	5	100%	7	100%
Camp 2W	2	100%	4	100%
Camp 3	3	100%	3	100%
Camp 4	3	100%	4	100%
Camp 4 Ext	0	0%	0	0%
Camp 5	1	100%	1	100%
Camp 6	3	100%	3	100%
Camp 7	2	100%	3	100%
Camp 8E	7	100%	8	100%
Camp 8W	6	100%	8	100%
Kutupalong RC	2	100%	3	100%

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

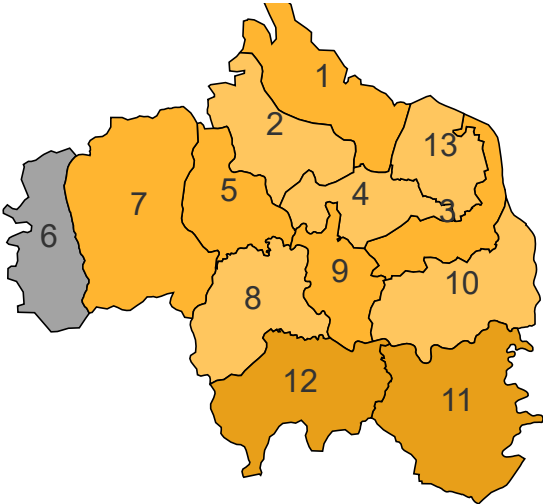


Table 9 | Performance by camp

Southern group	W1		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	3	100%	4	100%
Camp 11	1	100%	2	100%
Camp 12	5	100%	5	100%
Camp 13	4	100%	6	100%
Camp 14	2	100%	3	100%
Camp 15	0	0%	2	100%
Camp 16	0	0%	3	100%
Camp 17	1	100%	1	100%
Camp 18	3	100%	4	100%
Camp 19	0	0%	0	0%
Camp 20	0	0%	1	100%
Camp 20 Ext	0	0%	0	0%
Camp 9	5	100%	6	100%

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

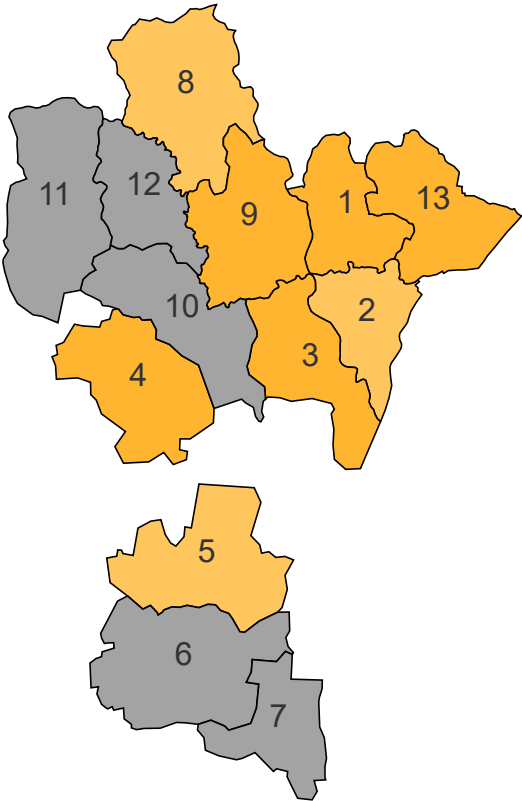


Table 10 | Performance by camp

Teknaf	W1		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	0	0%	0	0%
Camp 22 Unchiprang	1	100%	2	100%
Camp 23 Shamlapur	0	0%	0	0%
Camp 24 Leda	5	100%	6	100%
Camp 25 Ali Khali	0	0%	0	0%
Camp 26 Nayapara	0	0%	1	100%
Camp 27 Jadimura	0	0%	0	0%
Nayapara RC	1	100%	1	100%

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

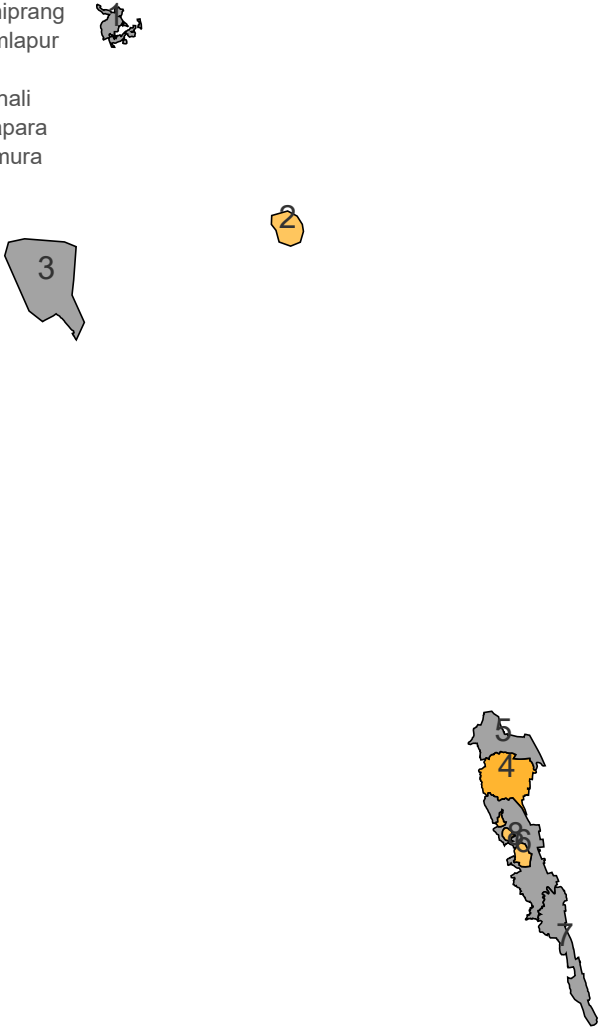


Table 11 | Performance by type of alert

Event	W1		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	0	0%	0	0%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	0	0%
Meningitis	0	0%	1	100%
Haem. fever (susp.)	0	0%	0	0%
NNT	0	0%	0	0%
Unexp. fever	0	0%	0	0%
AWD	0	0%	0	0%
ARI	0	0%	0	0%
AJS	0	100%	1	100%
Varicella (Susp.)	0	0%	0	0%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	8	100%	10	100%

Table 12 | Risk assessment

W1	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>



Ministry of  
Health and  
Family  
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Bangladesh



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HEALTH SECTOR  
COX'S BAZAR



Global  
**EWARS**

# Bangladesh

## Rohingya Emergency Response

### Early Warning, Alert and Response System (EWARS)

Annex W1 2023



Ministry of Health and Family  
Welfare Bangladesh



World Health  
Organization



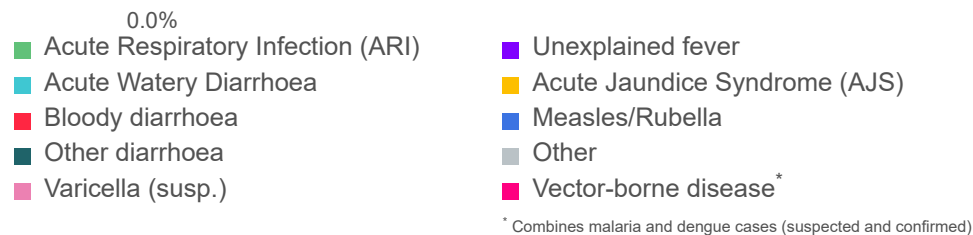
HEALTH SECTOR  
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# Proportional morbidity

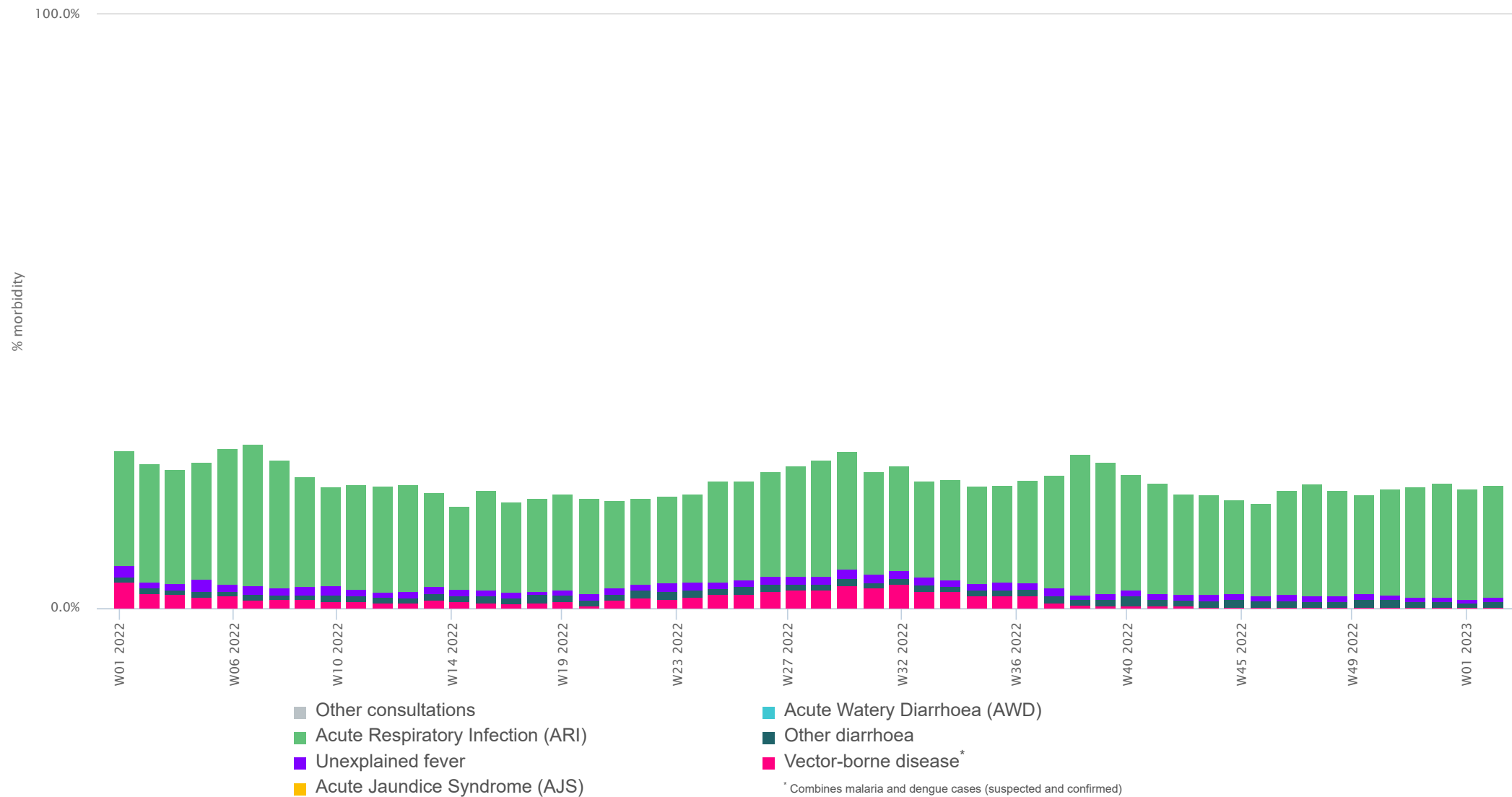
**Figure 1 | Proportional morbidity (W1 2023)**



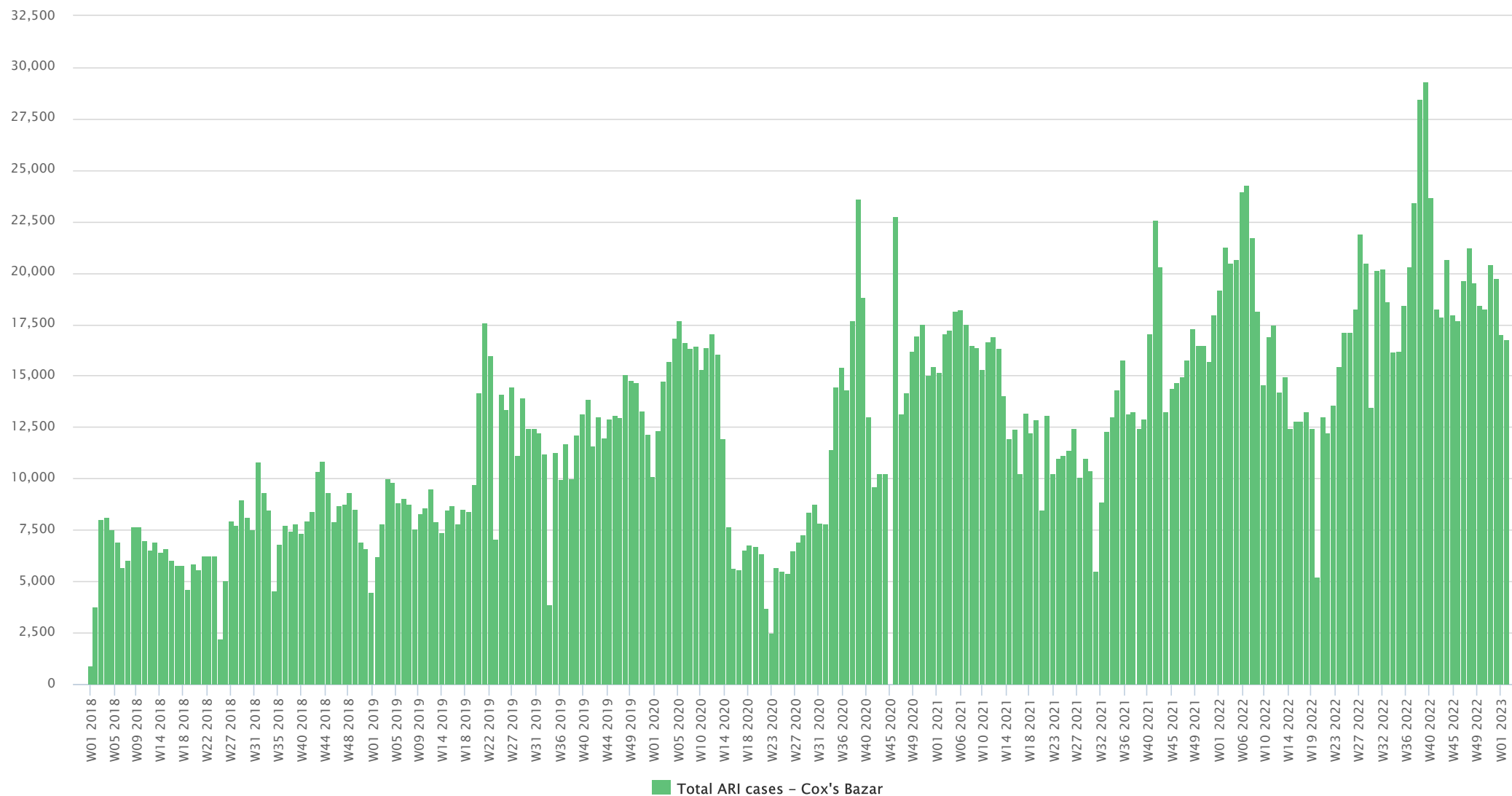
Disease	W1		2023	
	# cases	% morbidity	# cases	% morbidity
AWD	2,078	2.3%	2,089	2.3%
Bloody diarr.	294	0.3%	294	0.3%
Other diarr.	1,009	1.1%	1,009	1.1%
Susp. Varicella	142	0.2%	142	0.2%
ARI	17,304	18.9%	17,331	18.9%
Measles/Rub.	11	0.0%	11	0.0%
AFP	0	0.0%	0	0.0%
Susp. menin.	2	0.0%	2	0.0%
AJS	8	0.0%	8	0.0%
Susp. HF	20	0.0%	20	0.0%
Neo. tetanus	0	0.0%	0	0.0%
Adult tetanus	0	0.0%	0	0.0%
Malaria (conf.)	2	0.0%	2	0.0%
Malaria (susp.)	33	0.0%	33	0.0%
Dengue (conf.)	79	0.1%	79	0.1%
Dengue (susp.)	14	0.0%	14	0.0%
Unexpl. fever	641	0.7%	641	0.7%
Sev. Malnut.	40	0.0%	40	0.0%
Inj./Wounds	1,947	2.1%	1,948	2.1%
Other	68,085	74.2%	68,148	74.2%
<b>Total</b>	<b>91,123</b>	<b>100%</b>	<b>91,866</b>	<b>100%</b>

## Trend in consultations and key diseases

**Figure 2** | Trend in proportional morbidity for key diseases (W1)

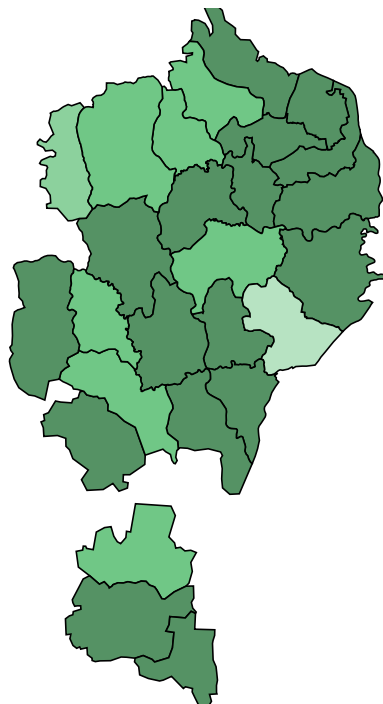


**Figure 3** | Trend in number of cases over time (W38 2017 - W1 2023)

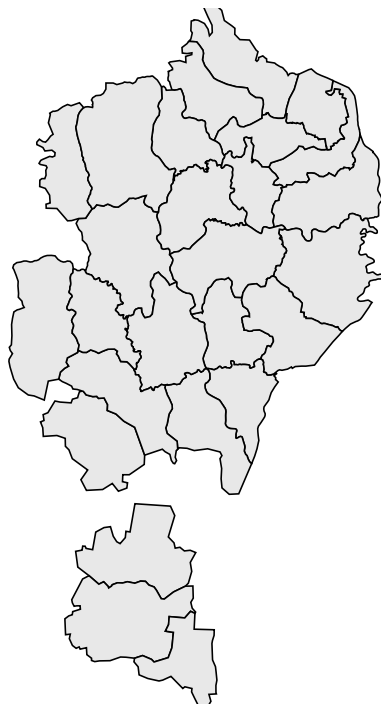


**Map 1 | Map of cases by camp (W1 2023)**

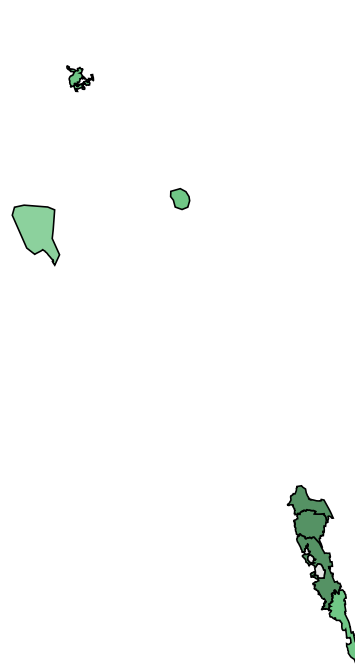
**a. Ukhia | Number of cases**



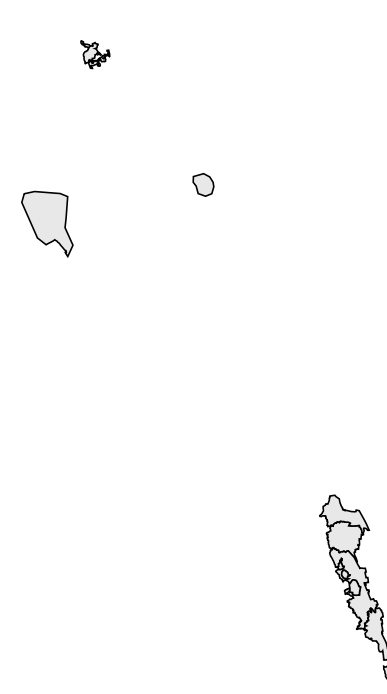
**b. Ukhia | Number of alerts**



**c. Teknaf | Number of cases**



**d. Teknaf | Number of alerts**



## Map legend

Number of cases



Number of alerts



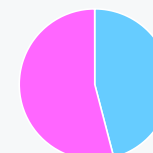
## Alert threshold

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

## Alert management (W1 2023)

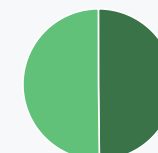


## Figure | % sex



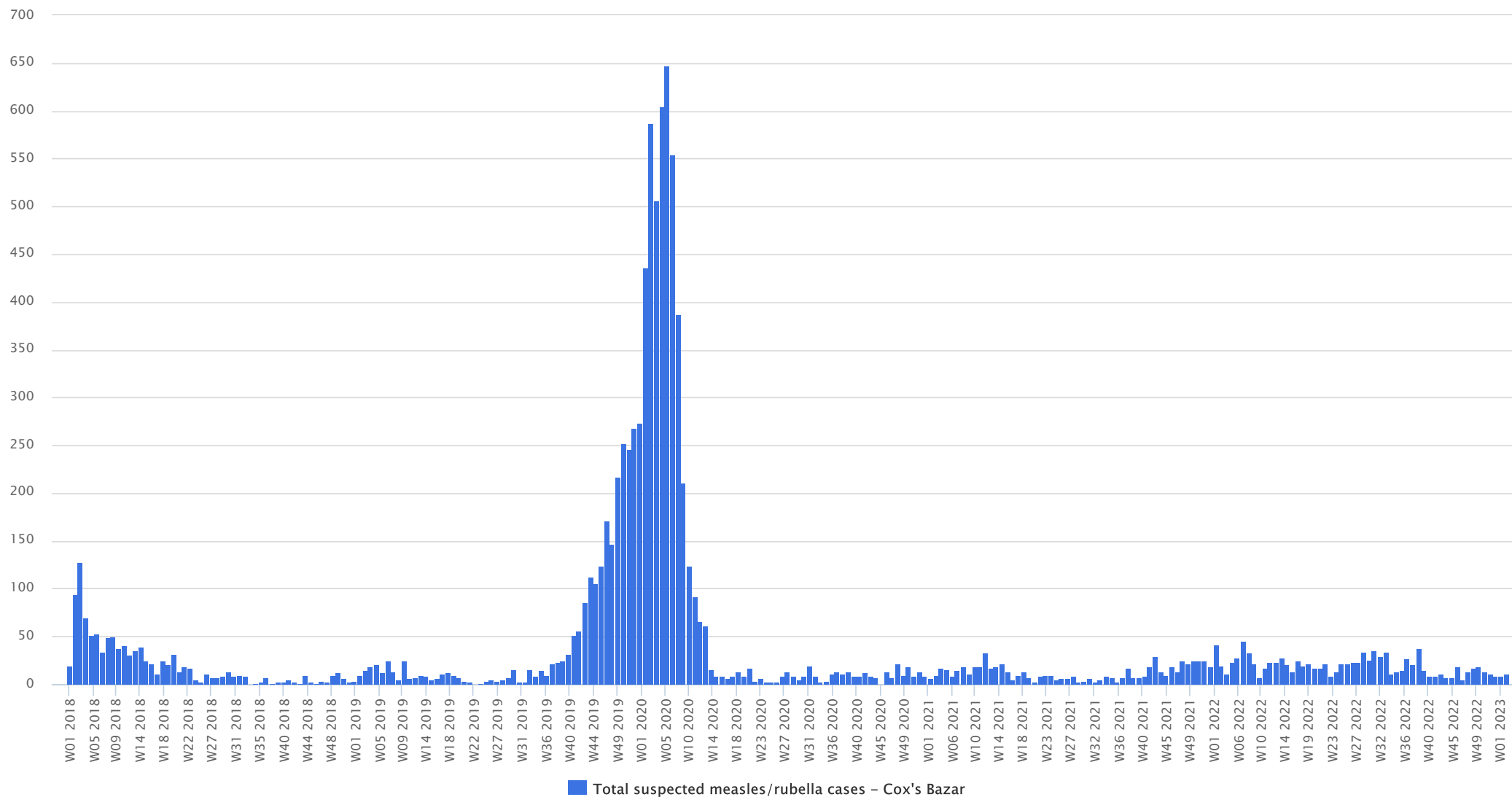
Male Female

## Figure | % age



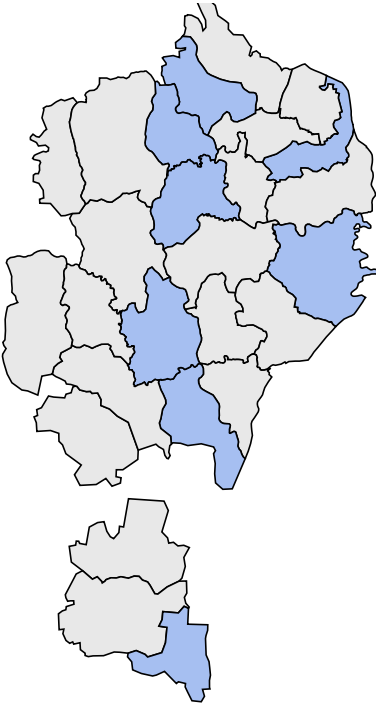
>=5 < 5

**Figure 4** | Trend in number of suspected cases over time (W38 2017 - W1 2023)



Map 2 | Map of cases by camp (W1 2023)

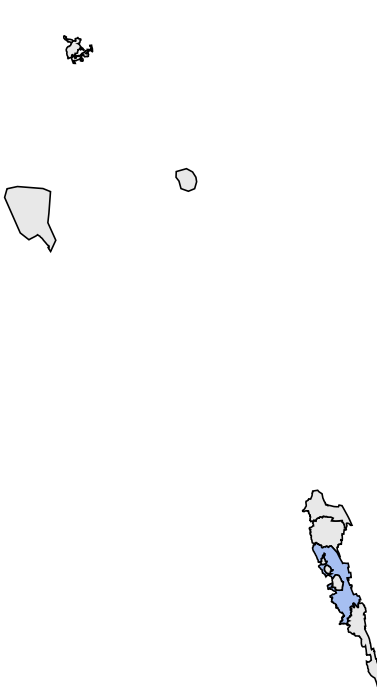
a. Ukhia | Number of cases



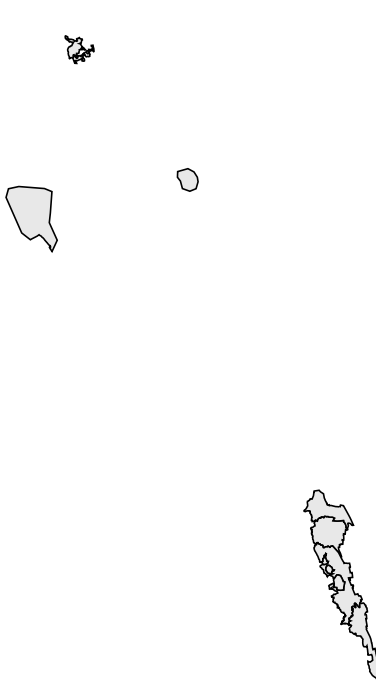
b. Ukhia | Number of alerts



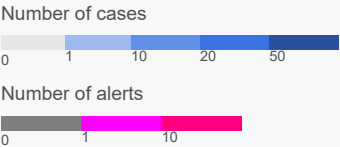
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold  
1 case. Source: IEDCR

Alert management (W1 2023)

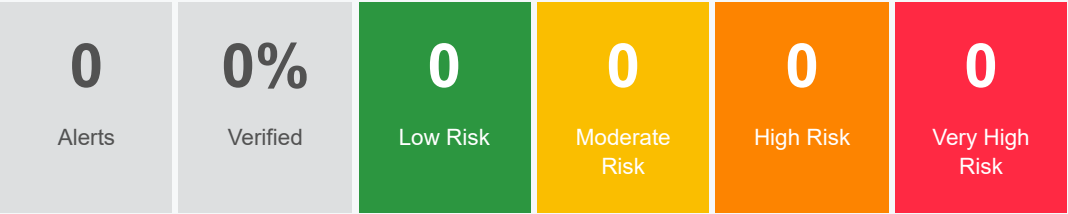


Figure | % sex

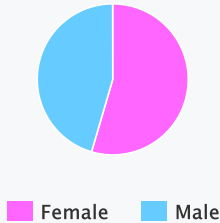
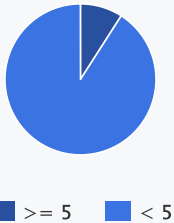
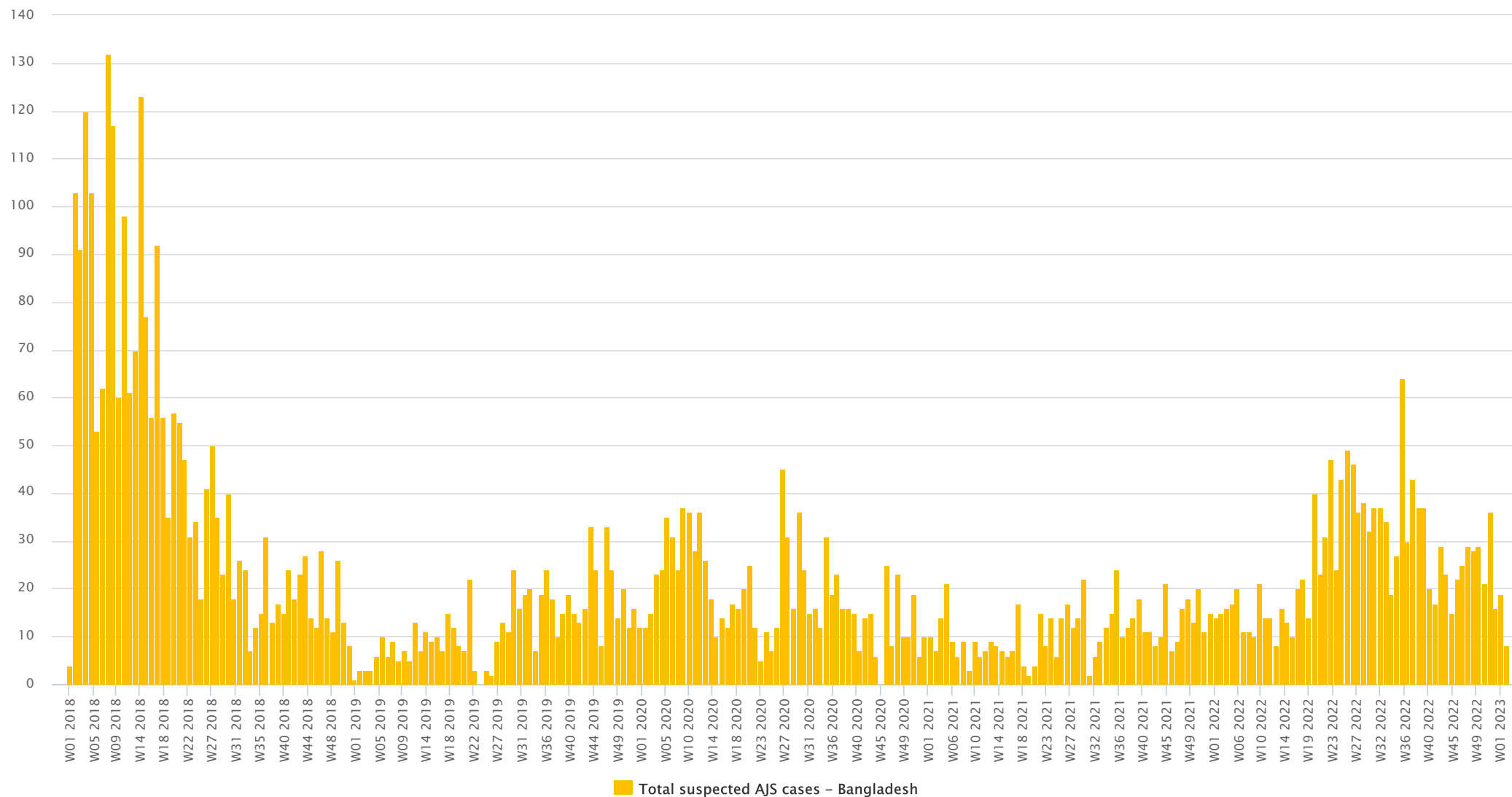


Figure | % age



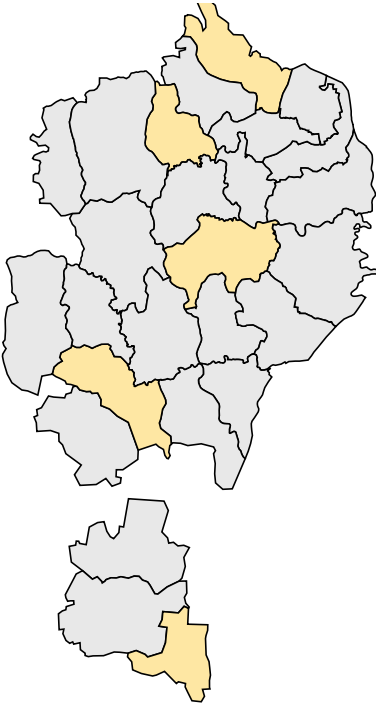


**Figure 5** | Trend in number of cases over time (W38 2017 - W1 2023)



Map 3 | Map of cases by camp (W37 2017 - W1 2023)

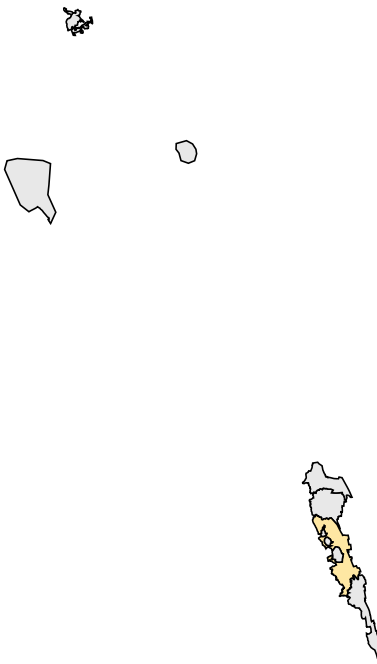
a. Ukhia | Number of cases



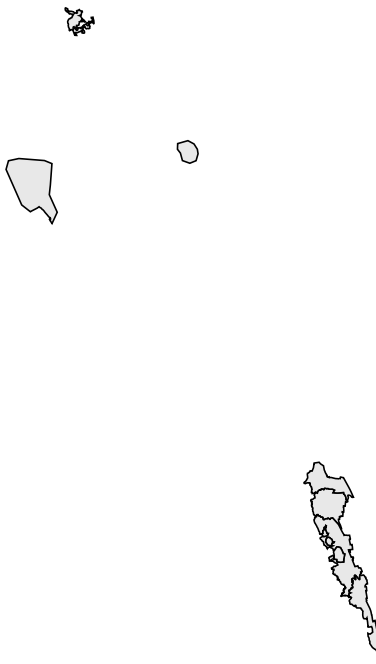
b. Ukhia | Number of alerts



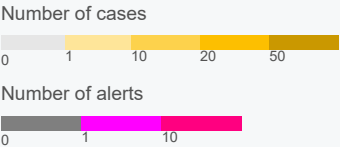
c. Teknaf | Number of cases



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 (W1 2023)

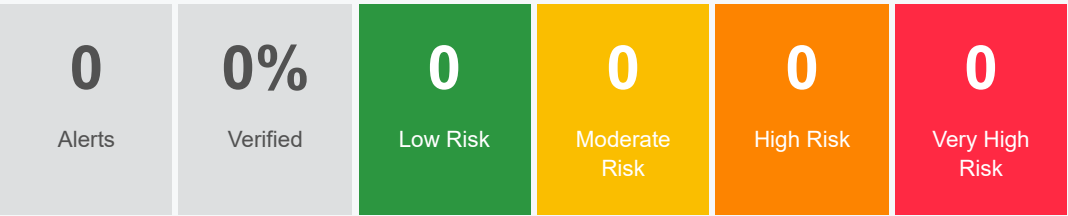


Figure | % sex

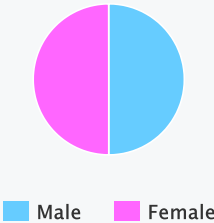
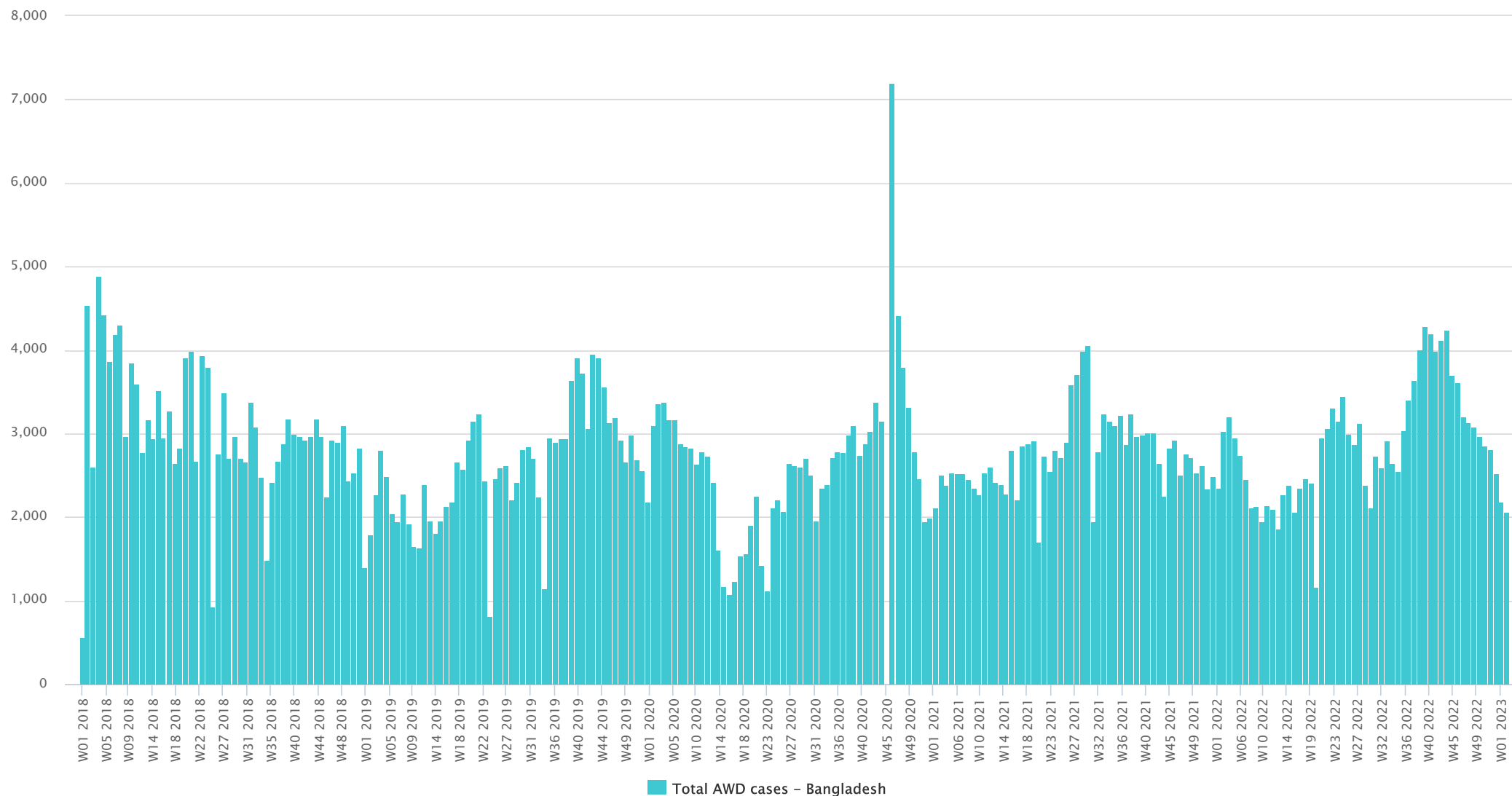


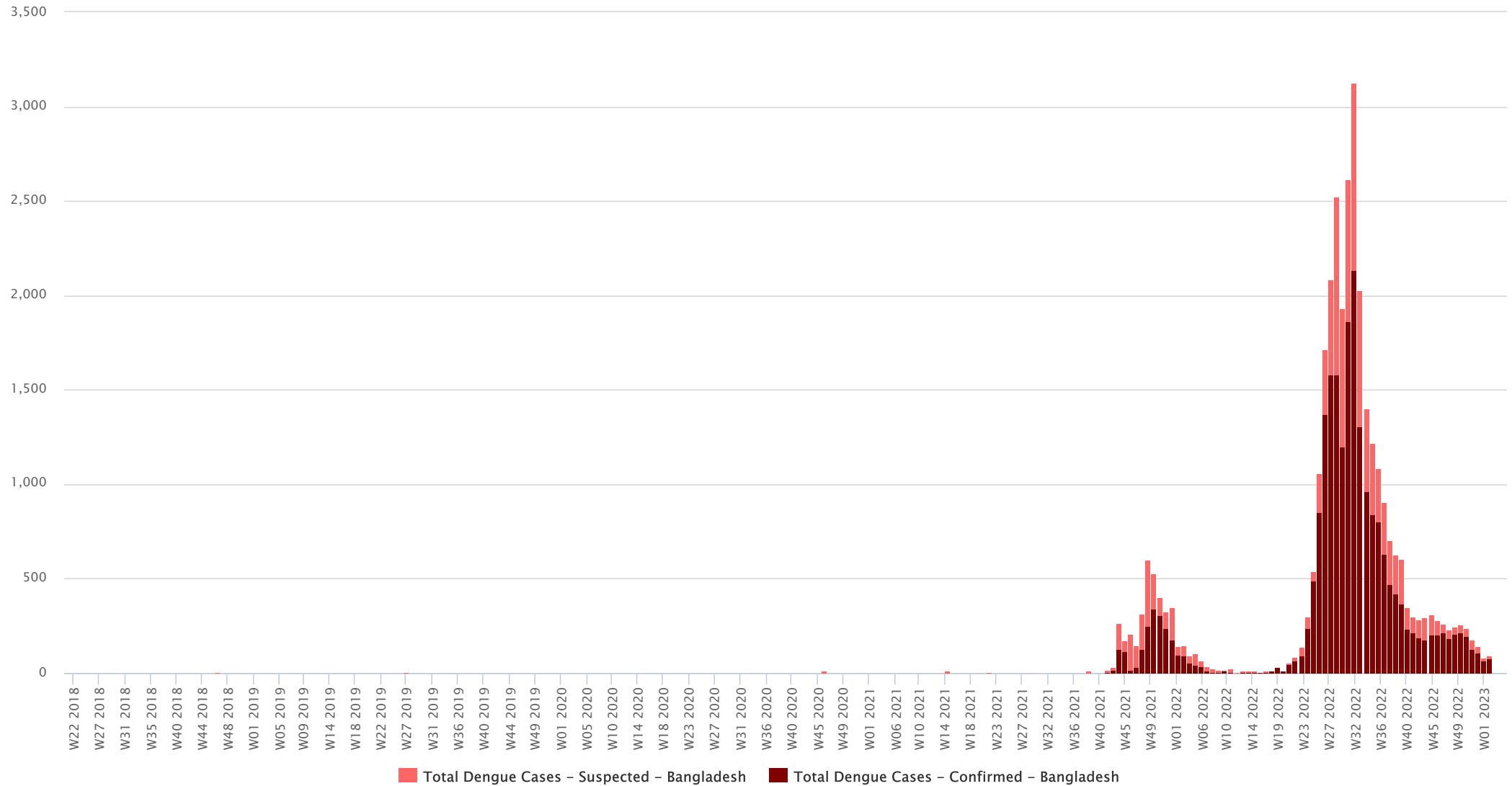
Figure | % age



**Figure 6** | Trend in number of cases over time (W38 2017 - W1 2023)

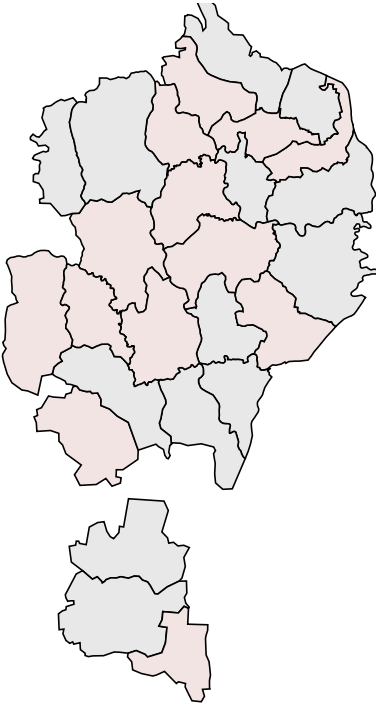


**Figure 7** | Trend in number of cases over time (W38 2017 - W1 2023)



Map 4 | Map of cases by camp (W37 2017 - W1 2023)

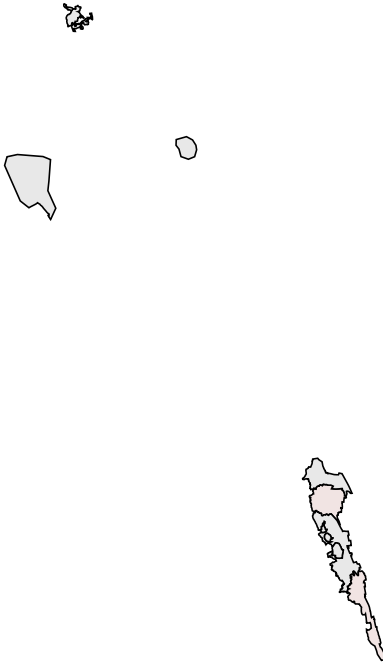
a. Ukhia | Number of cases



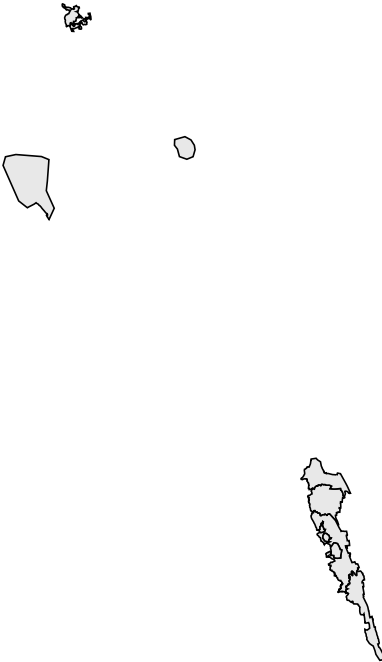
b. Ukhia | Number of alerts



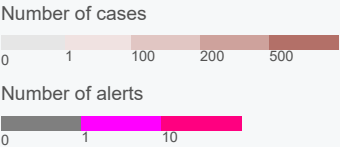
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W1 2023)

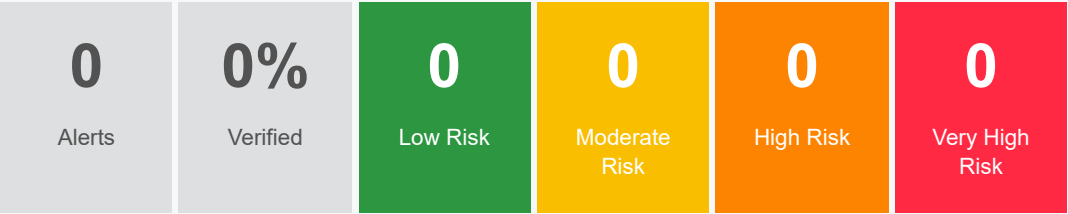


Figure | % sex

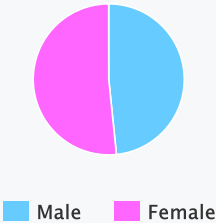
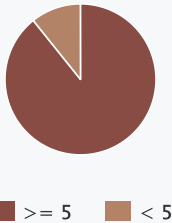
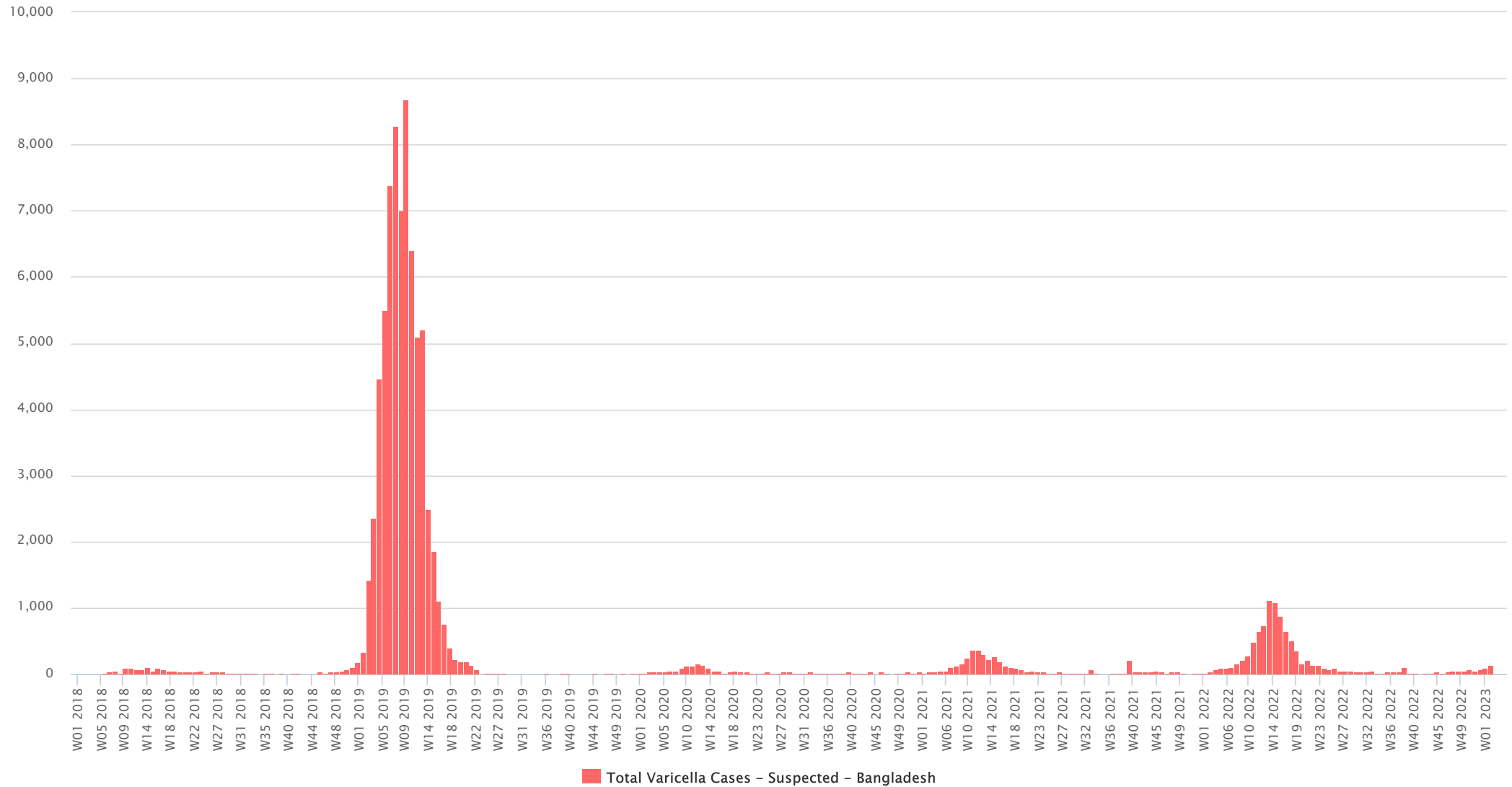


Figure | % age

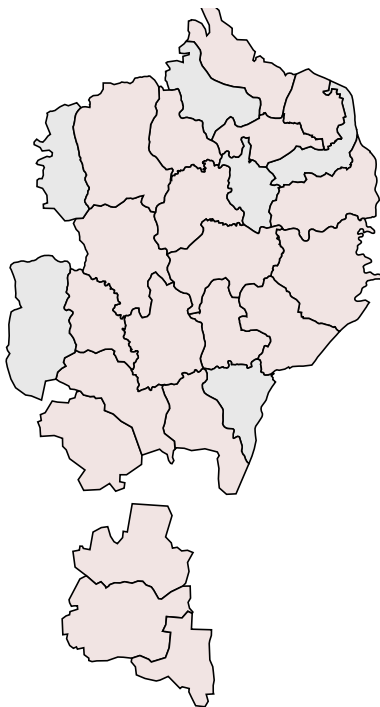


**Figure 7** | Trend in number of cases over time (W38 2017 - W1 2023)

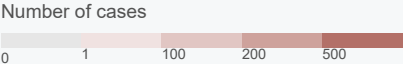


Map 4 | Map of cases by camp (W37 2017 - W1 2023)

a. Ukhia | Number of cases



Map legend



c. Teknaf | Number of cases

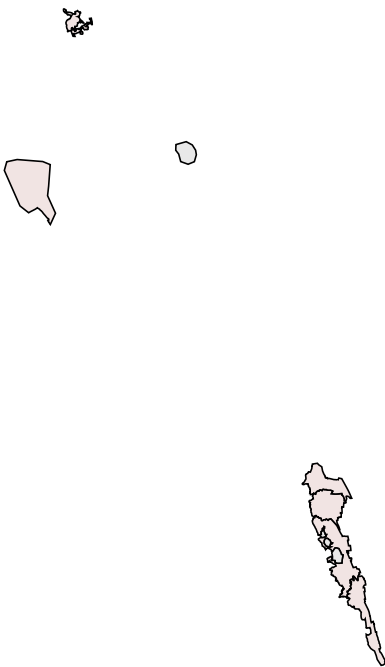


Figure | % sex

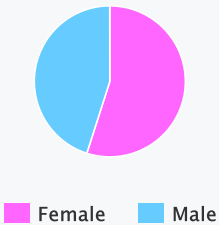
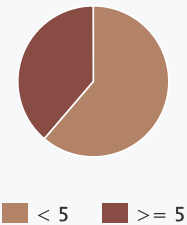


Figure | % age



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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>

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