



# Epidemiological Highlights

Week 53 (25-31 Dec) 2022



World Health  
Organization

# Highlights: COVID-19

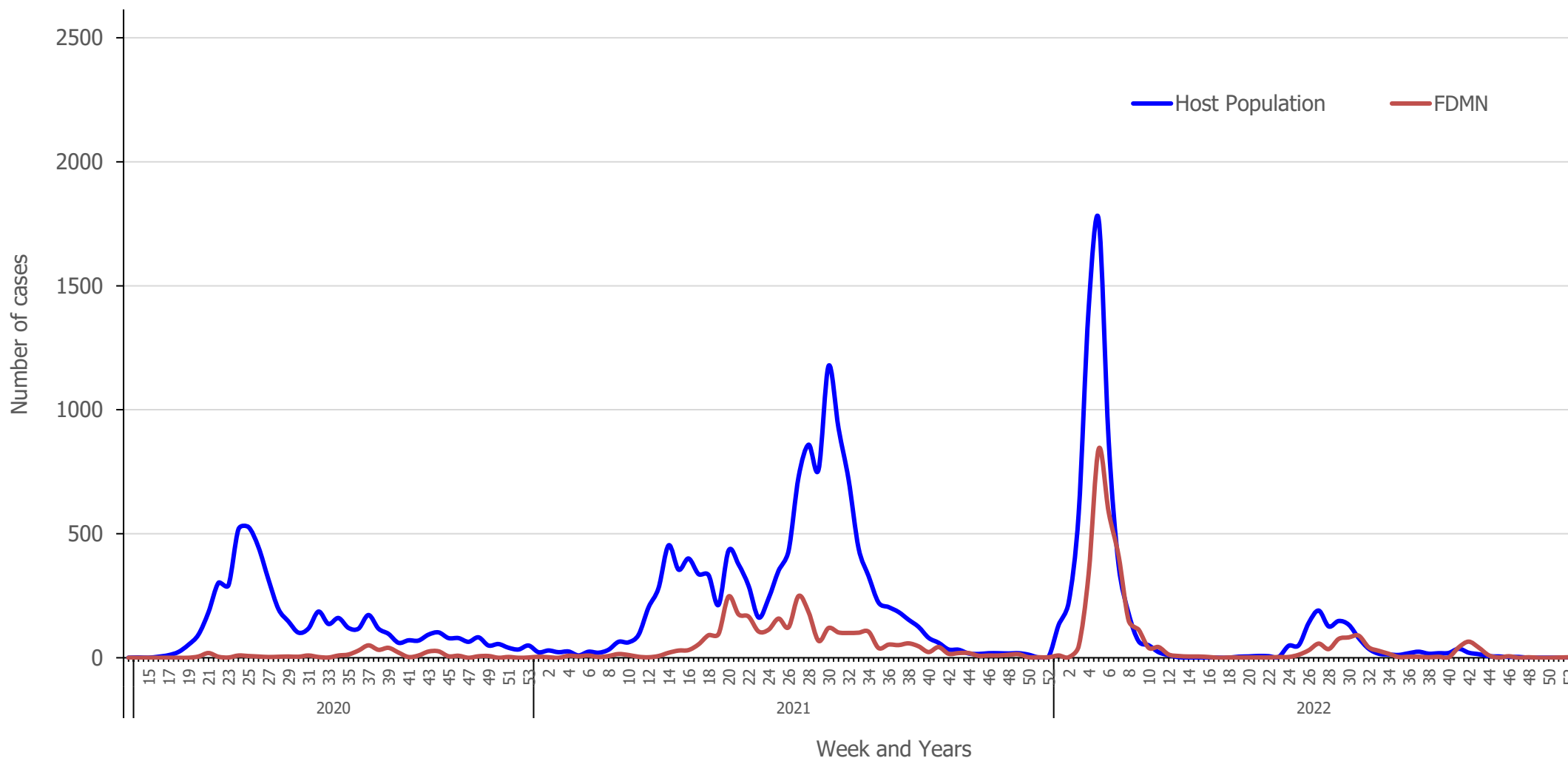
## FDMN:

- Two (2) confirmed cases were reported this week
- Weekly TPR and incidence/new infections are 0.5
- No new death reported, and total deaths stabilized at **45** (CFR of 0.7%) while cumulative cases were steady at 6,588
- Level of recovery continues to steady at 99%

## Host Population:

- No (0) new confirmed cases were reported this week similar to the last five weeks, the total caseload 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 last 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:** Two (2) new confirmed cases were reported this week, and weekly TPR and case incidence remain 0.5, two weeks in a row

**Host Population:** No new cases were reported in the week which is similar to the last five weeks, weekly TPR and case incidence steady at zero

# EWARS Reporting Updates

Currently, a total of 164 health facilities are registered in EWARS

- Only 129/164 weekly reports were received on time in week 53
- Timeliness of reporting for this week was 79%
- Forty-five (45) alerts were triggered
- All alerts were reviewed and verified by the WHO EWARS team; this was less than that of the previous week (56 alerts in week 52, 2022)

# Highlights: Morbidities and Mortalities

- Acute Respiratory Infections (19.5%), Diarrheal Diseases (3.5%) & Injuries, and Wounds (2.3%) were the diseases and health conditions with the highest proportional morbidity in week 53.
- Monitoring of suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020. A total of 136 SARI deaths have so far been reported in 2022 of which eight (08) deaths upon an investigation of all SARI deaths were reclassified as probable COVID-19 Deaths
- This Epi week, no new SARI deaths were reported as highlighted below:

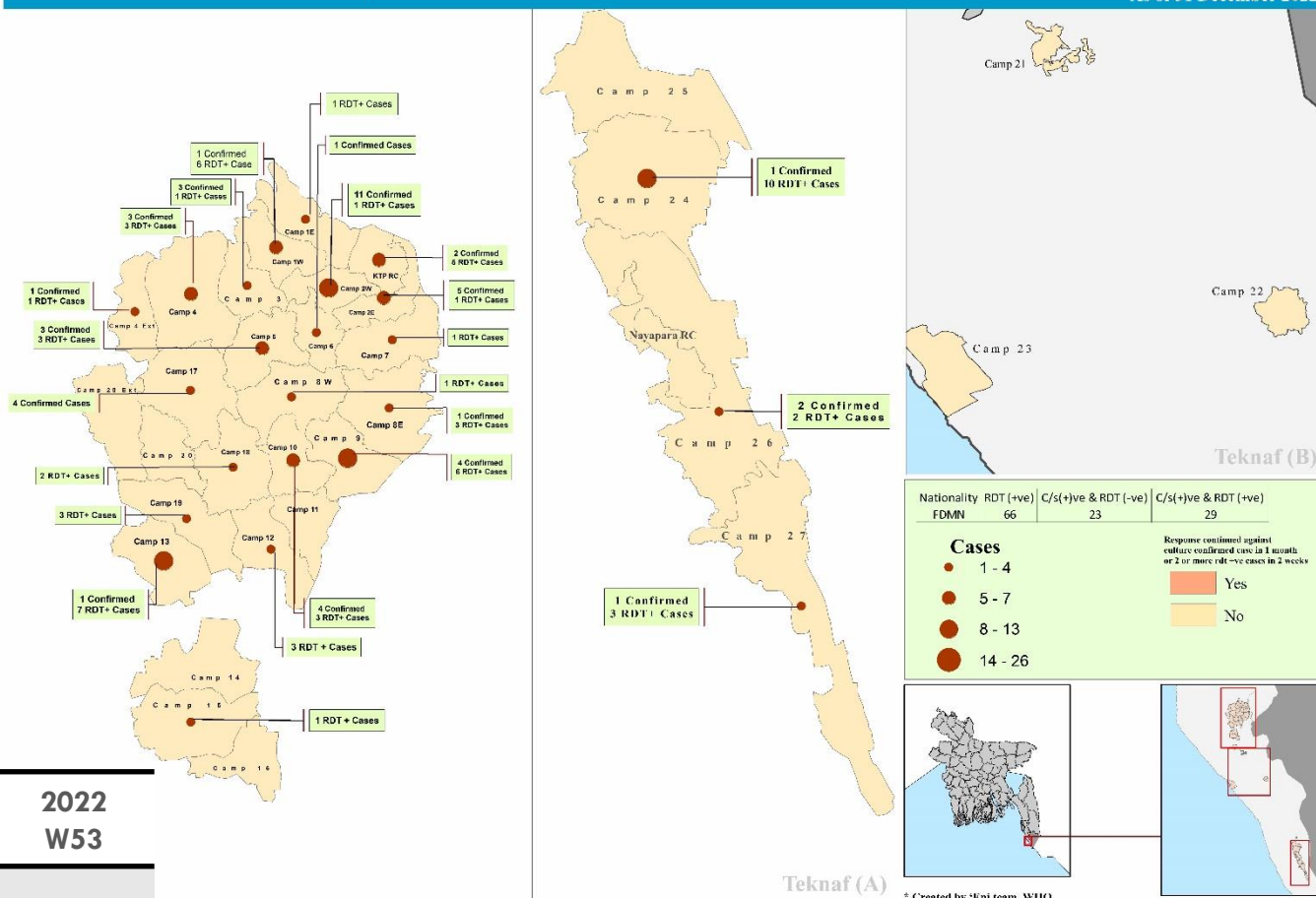
Year	Suspected SARI death reported (current week)	Reclassified as death due to probable COVID-19
2022	136 (0)	8
2021	96	15
2020	49	2

# Cholera/AWD Surveillance Updates

- In this week, there is one new cultured confirmed Cholera cases were reported, among samples sent for testing.
- In 2022 total of one hundred seventy (170) RDT-positive AWD cases/ cholera suspected cases including 70 culture-confirmed Cholera cases reported as of Epi Week 53 2022.
- Cumulatively there are 862 RDT and culture-confirmed cholera cases of which 402 cases were culture-confirmed since transmission in 2018

Distribution of RDT positive and culture confirmed for Cholera cases in FDMN 2022

As of 31 December 2022



	2018	2019	2020	2021	2022 W53
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RDT positive AWD cases & culture confirmed for Cholera cases

	49	258	28	357	170
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Culture confirmed for Cholera

	7	184	5	136	70
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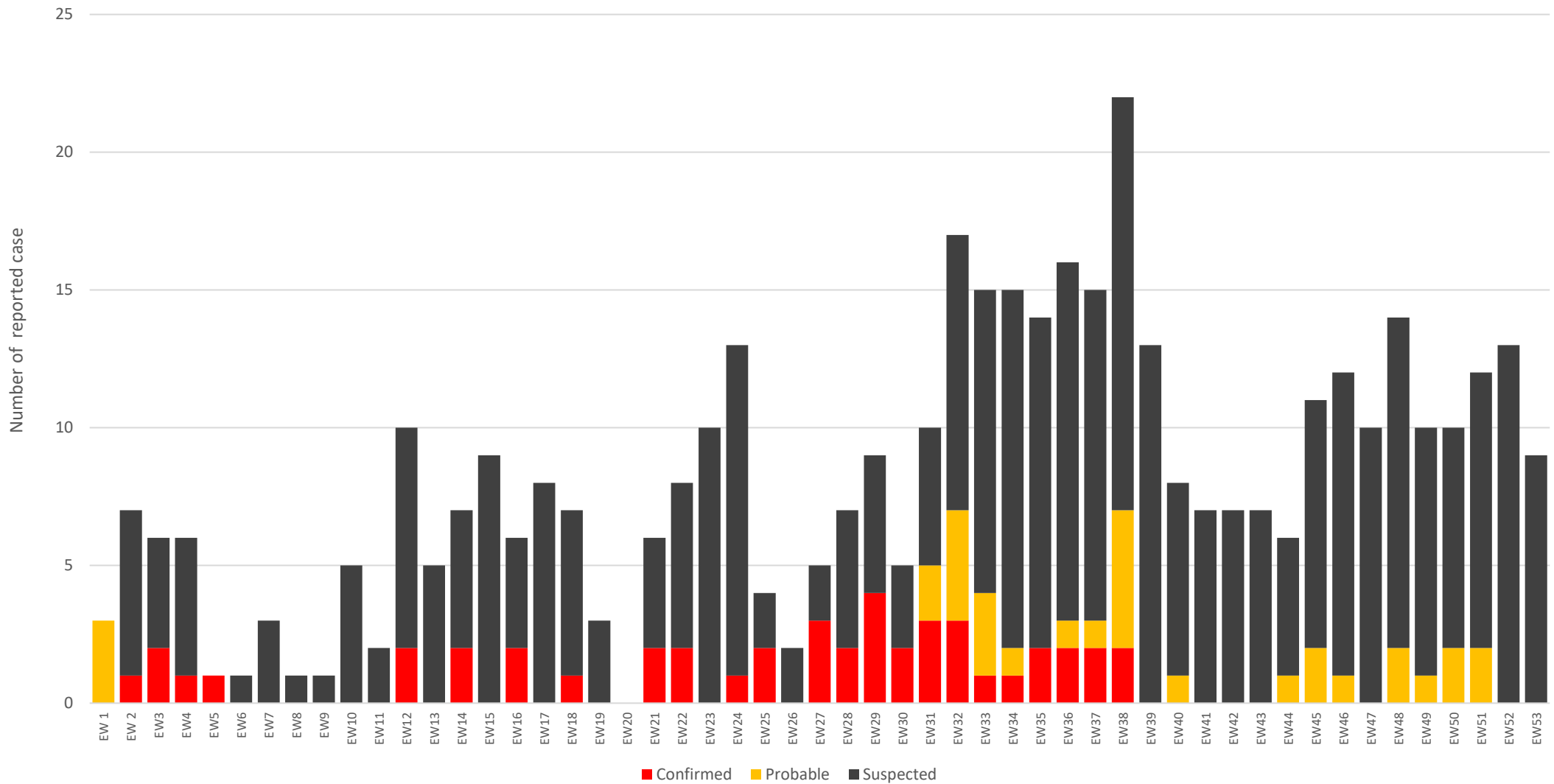
# Diphtheria Surveillance Updates

- Nine (9) suspected diphtheria cases were reported in go.data in this Epi week 53
- 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
Confirmed	66	226	31	19	30	46
Probable	1154	1555	60	9	29	32
Suspected	1796	3549	523	198	118	355
Death	30	14	3	0	5	2

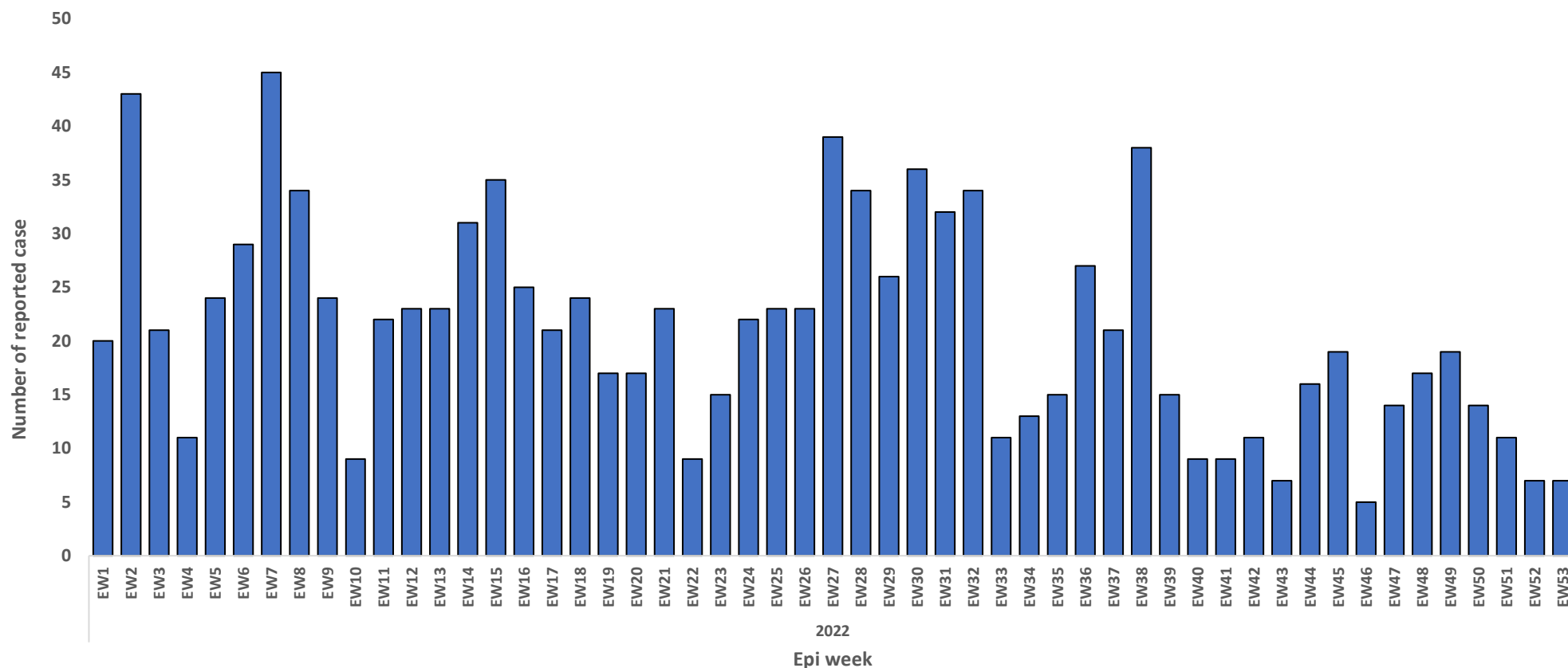
# Trends of Diphtheria cases

Total number of diphtheria case reported in EWARS from week 1-53, 2022



# Epi Curve of Suspected Measles Cases

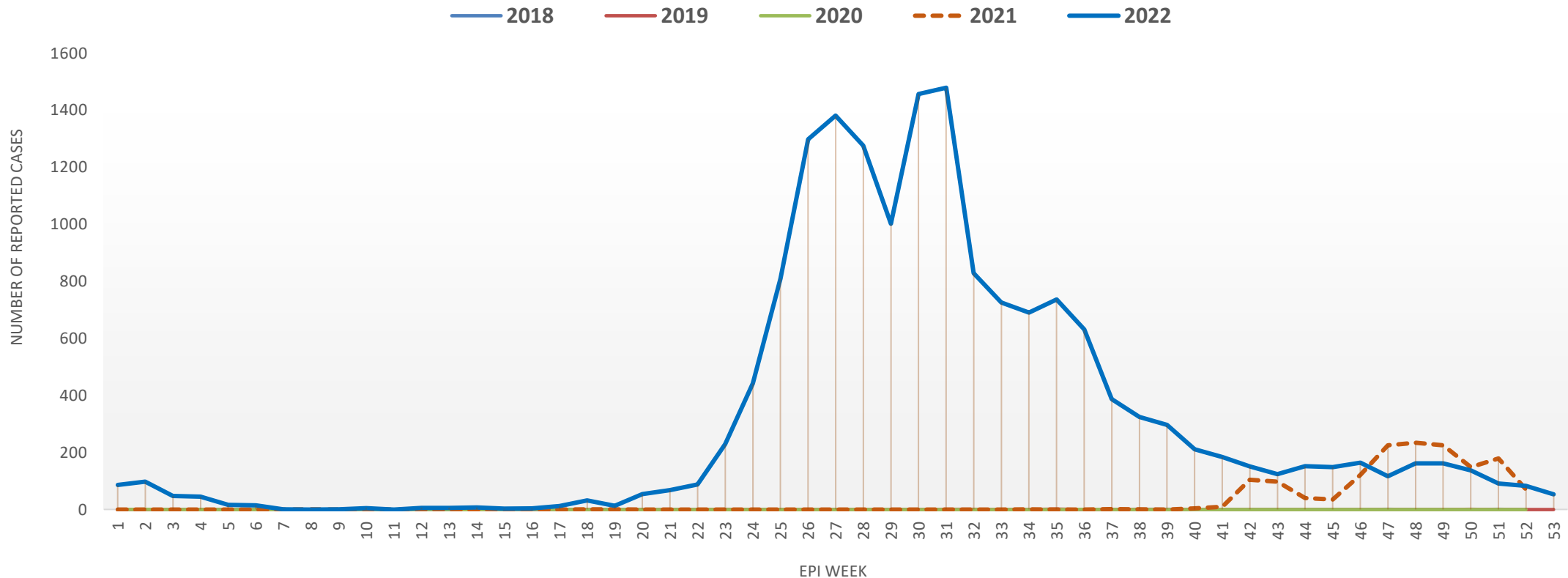
Total number of Measles case reported in EWARS from week 1-53, 2022



- > In week 53, 7 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 1,119 reported in 2022
- > About 56% (624/1,119) 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 - Epi Week 53, 2022



- ❑ 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

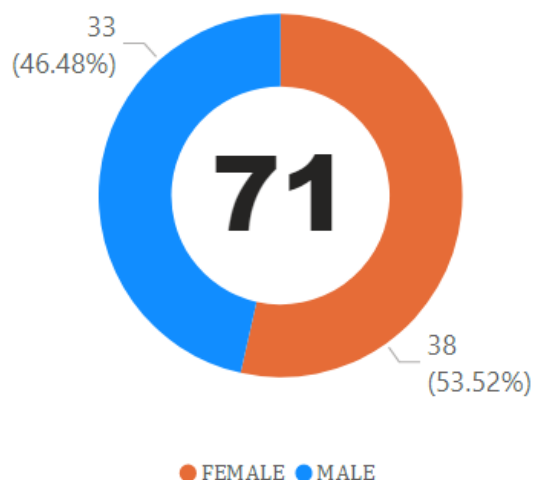
# Community-based Mortality surveillance updates Epi week 53

Probable causes of death	Epi week 53	In 2022
Still Birth	11 (15%)	237 (10%)
Neonatal Death (<28 days old)	4 (6%)	245 (11%)
Infectious Disease	2 (3%)	174 (8%)
Severe Acute Respiratory Infection (SARI)	--	55 (3%)
Injury	1 (1%)	45 (2%)
Maternal Death	2 (3%)	47 (2%)
Acute Malnutrition	--	1 (0%)
Other	51 (72%)	1,477 (65%)
<b>Total</b>	<b>71 (100%)</b>	<b>2,281 (100%)</b>

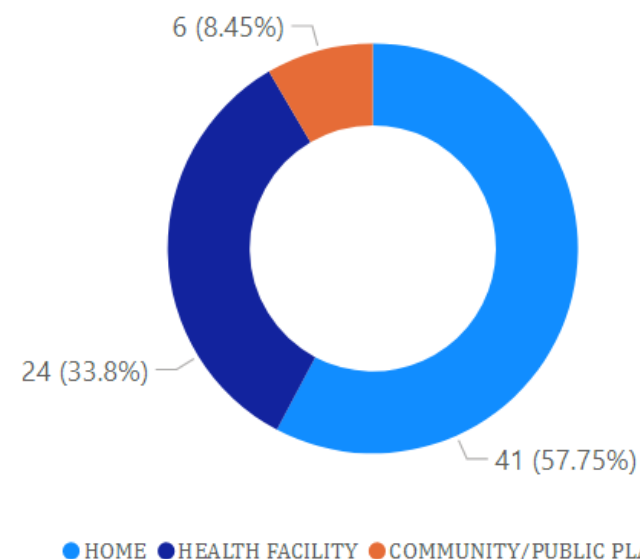
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable

# Community-based Mortality surveillance updates Epi week 53

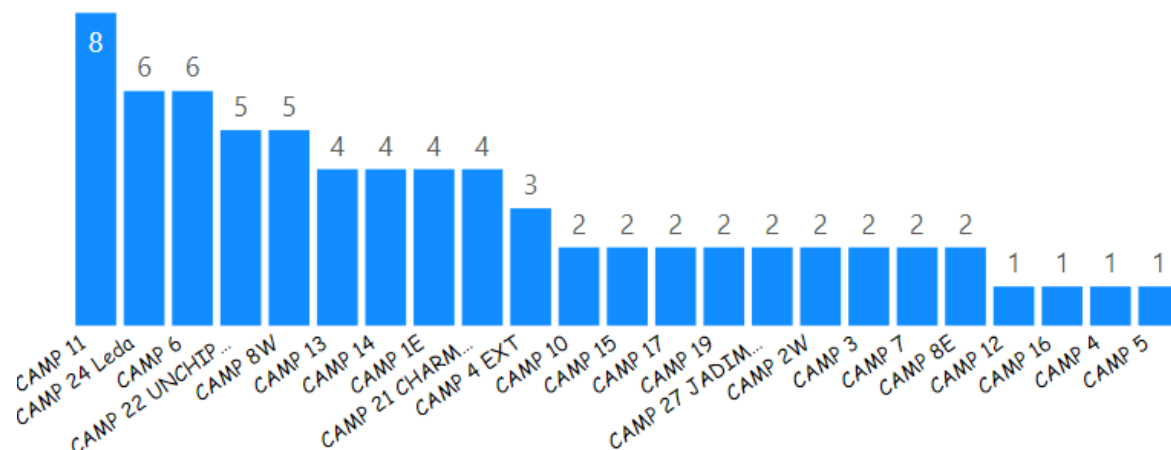
**Gender distribution**



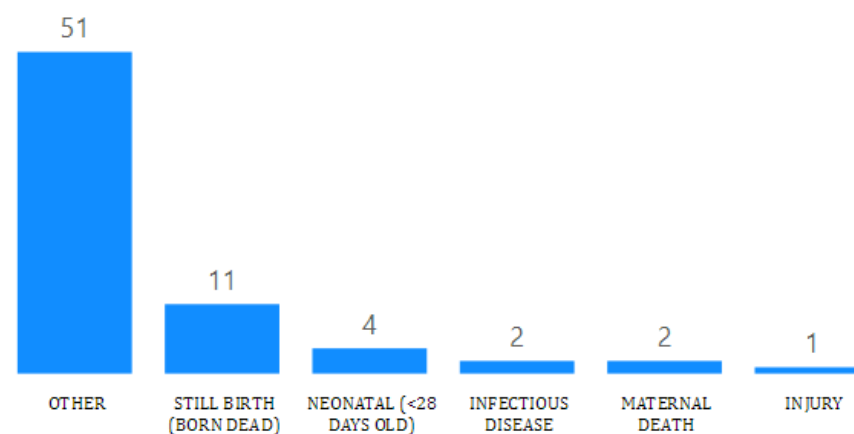
**Place of death**



**Distribution of deceased Camp**



**Distribution of Probable cause of death**



# Bangladesh

Rohingya Emergency Response

Early Warning, Alert and  
Response System (EWARS)

Epidemiological Bulletin W53 2022



Ministry of Health and Family  
Welfare Bangladesh



World Health  
Organization



HEALTH SECTOR  
COX'S BAZAR



Printed: 05:42 Wednesday, 04 January 2023 UTC

# Contents

## Highlights

Slide 1	<b>Table 1</b> Coverage
	<b>Table 2</b> Early warning performance
	<b>Table 3</b> Alert performance

## Early Warning

Slide 2	<b>Map 1a</b> Ukhia completeness by site/zone
	<b>Map 1b</b> Teknaf completeness by site/zone
Slide 3	<b>Table 4</b> Ukhia (Northern group) performance by site/zone
	<b>Map 2</b> Ukhia (Northern group) completeness by site/zone
Slide 4	<b>Table 5</b> Ukhia (Southern group) performance by site/zone
	<b>Map 3</b> Ukhia (Southern group) completeness by site/zone
Slide 5	<b>Table 6</b> Teknaf performance by site/zone
	<b>Map 4</b> Teknaf completeness by site/zone
Slide 6	<b>Table 7</b> Performance by partner

## Alert

Slide 7	<b>Table 8</b> Ukhia (Northern group) alerts by site/zone
	<b>Map 5</b> Ukhia (Northern group) alerts site/zone
Slide 8	<b>Table 9</b> Ukhia (Southern group) alerts by site/zone
	<b>Map 6</b> Ukhia (Southern group) alerts site/zone
Slide 9	<b>Table 10</b> Teknaf alerts by site/zone
	<b>Map 7</b> Teknaf alerts site/zone
Slide 10	<b>Table 11</b> Performance by type of alert
	<b>Table 12</b> Risk Assessment

## Sources of data

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

## Highlights W53 2022

**Table 1 | Coverage**

#	%	
<b>918,841</b>	-	Estimated total Rohingya population <sup>1</sup>
<b>902,066</b>	<b>98%</b>	Total population under surveillance
<b>175</b>	-	Total number of health facilities
<b>164</b>	<b>94%</b>	Number of EWARS reporting sites

**Table 2 | Early warning performance indicators**

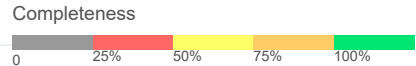
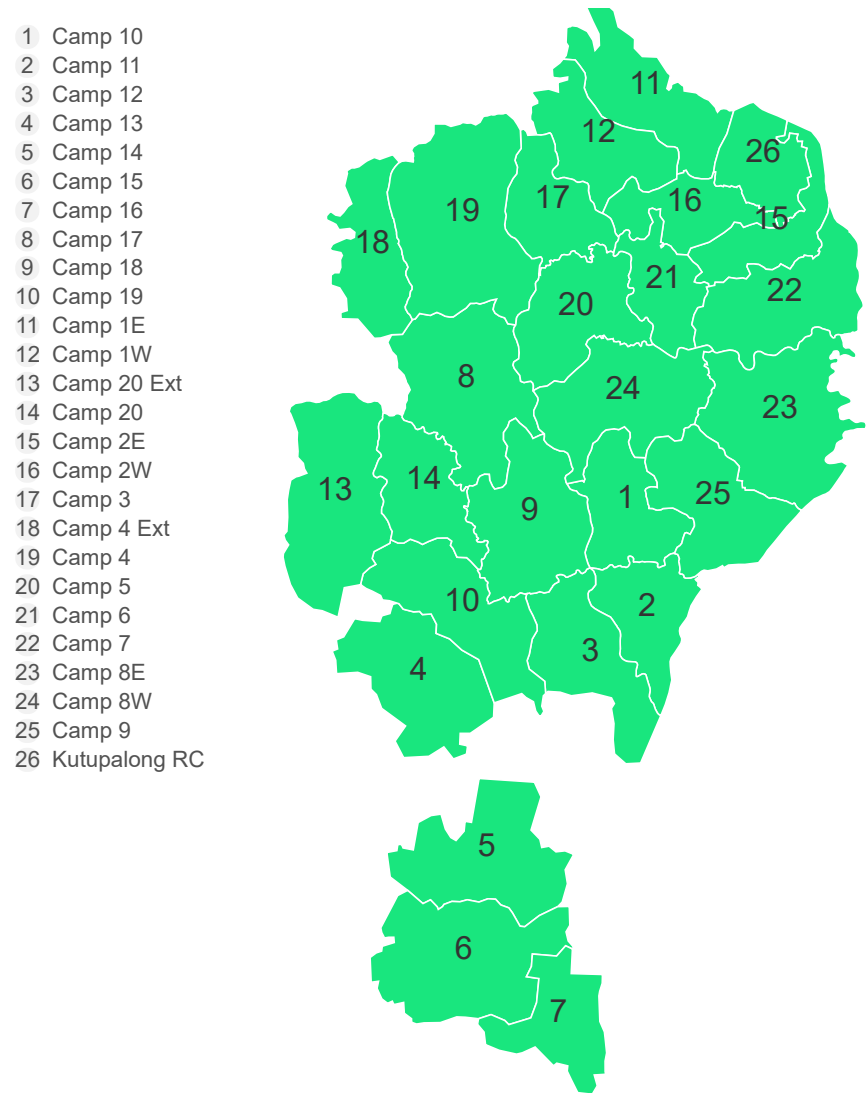
W53	Cumulative (2022)	
<b>129</b>	<b>8457</b>	Number of weekly reports received
<b>79%</b>	<b>93%</b>	Completeness
<b>79%</b>	<b>92%</b>	Timeliness

**Table 3 Alert performance indicators**

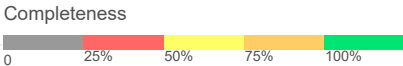
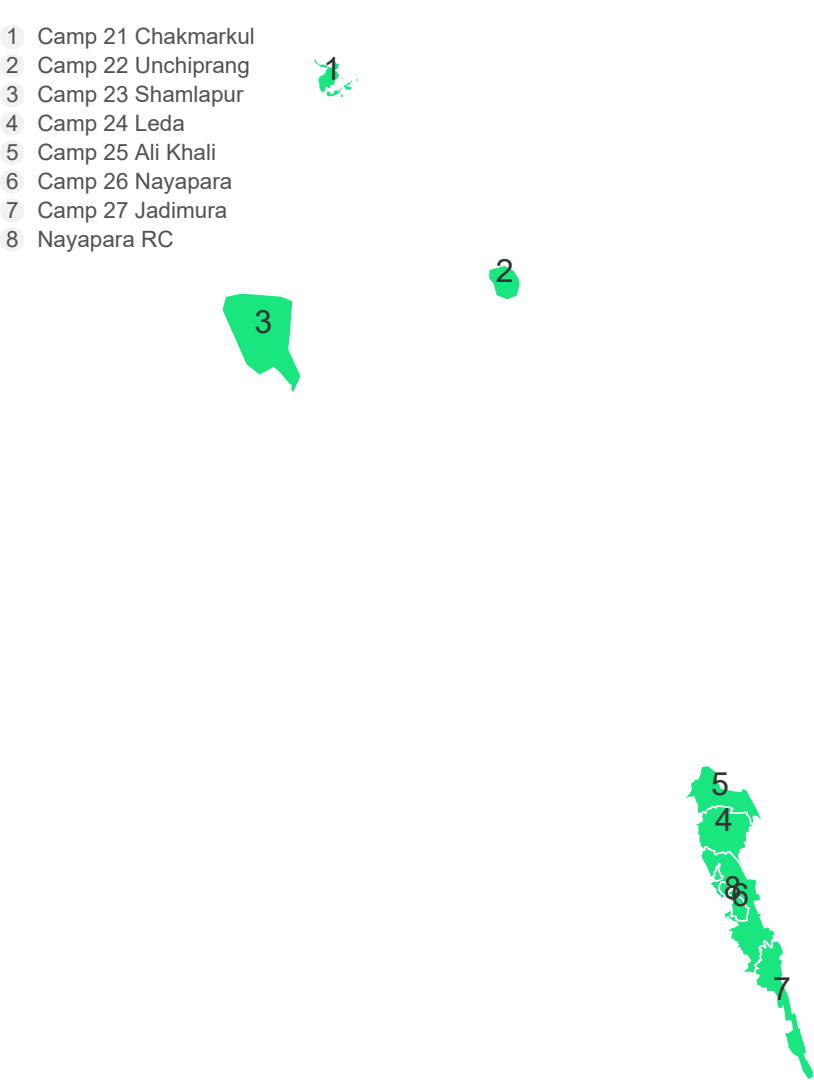
W53	Cumulative (2022)	
<b>45</b>	<b>4,819</b>	Total alerts raised
<b>100%</b>	<b>100%</b>	% verified
<b>0%</b>	<b>0%</b>	% auto-discarded
<b>0%</b>	<b>0%</b>	% undergoing risk assessment
<b>0%</b>	<b>0%</b>	% completed risk assessment

<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

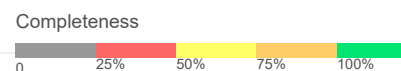
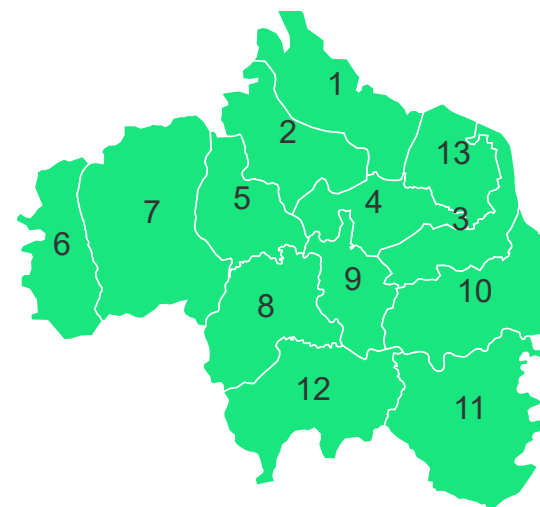


**Table 4 | Performance by camp (W53 2022)**

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	4	100%	0%
Camp 1W	5	4	80%	0%
Camp 2E	3	1	100%	0%
Camp 2W	3	3	100%	0%
Camp 3	5	3	60%	0%
Camp 4	5	4	80%	0%
Camp 4 Ext	1	1	100%	0%
Camp 5	5	4	100%	0%
Camp 6	3	3	67%	0%
Camp 7	6	6	100%	0%
Camp 8E	8	8	75%	0%
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

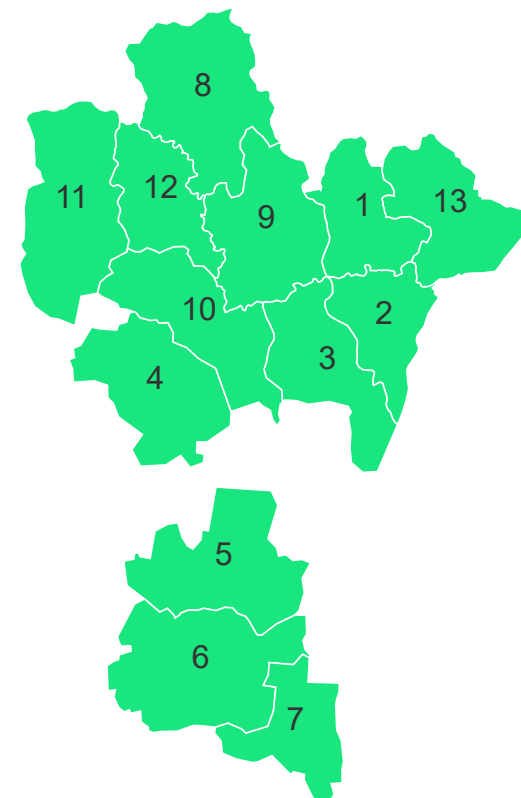


**Table 5 | Performance by camp (W53 2022)**

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	2	75%	0%
Camp 11	6	6	100%	0%
Camp 12	6	5	83%	0%
Camp 13	9	7	89%	0%
Camp 14	6	6	100%	0%
Camp 15	8	5	75%	6%
Camp 16	7	5	71%	0%
Camp 17	5	3	100%	0%
Camp 18	4	3	75%	0%
Camp 19	4	3	100%	0%
Camp 20	4	5	100%	0%
Camp 20 Ext	3	1	133%	0%
Camp 9	6	5	100%	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



Completeness

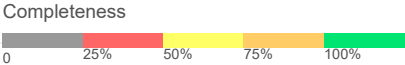
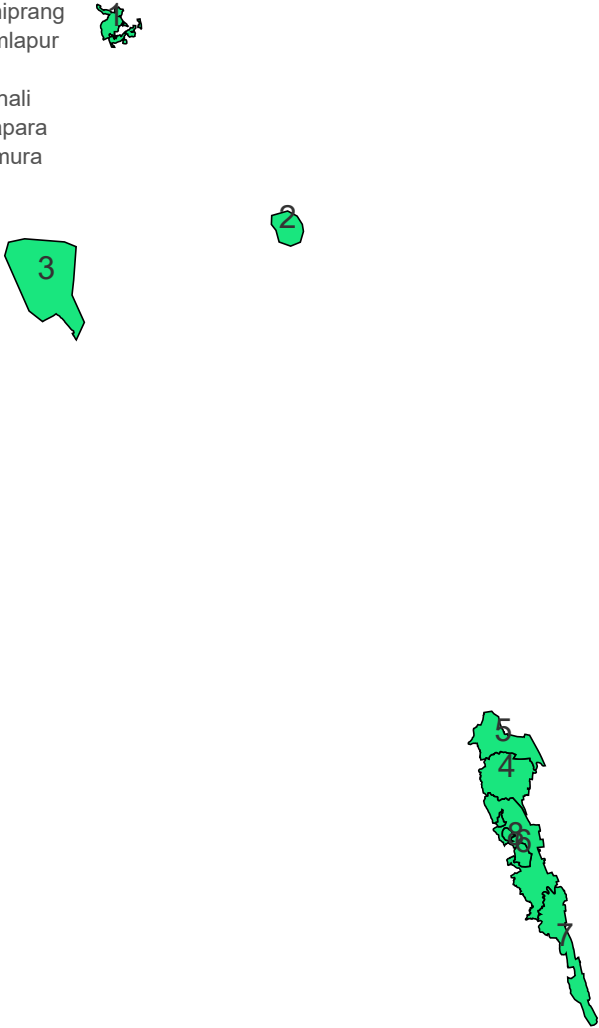


Table 6 | Performance by camp (W53 2022)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	4	4	100%	0%
Camp 22 Unchiprang	5	3	60%	0%
Camp 23 Shamlapur	3	2	67%	0%
Camp 24 Leda	2	1	50%	0%
Camp 25 Ali Khali	3	2	100%	0%
Camp 26 Nayapara	5	4	100%	0%
Camp 27 Jadimura	2	2	100%	0%
Nayapara RC	2	2	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 (W53 2022)

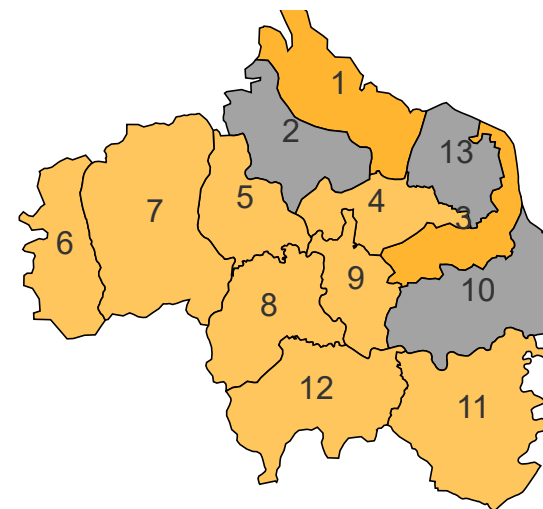
Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	1	1	100%	100%	IRC	4	3	0%	0%
AWARD	6	6	100%	100%	MSF	9	7	0%	0%
BASHMAH	1	1	100%	100%	MoH	12	10	0%	0%
BDRCS	11	9	82%	82%	MHI	0	0		
BRAC	0	11	100%	100%	Medair	0	0		
CARE	4	4	100%	100%	FH/MTI	4	4	0%	0%
GH/CPI	1	0	0%	0%	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	6	6	0%	0%	RPN	2	2	100%	100%
GK	11	11	0%	0%	RHU	3	3	100%	0%
Global One	1	1	100%	100%	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	1	100%	100%
HOPE	1	1	100%	100%	Turkish Government	1	1	100%	100%
ICRC	1	2	200%	200%	TdH	2	2	0%	0%
IOM	23	24	0%	0%					

Table 8 | Performance by camp

Northern group	W53		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	3	100%	90	100%
Camp 1W	0	0%	228	100%
Camp 2E	3	100%	464	100%
Camp 2W	2	100%	162	100%
Camp 3	1	100%	219	100%
Camp 4	1	100%	189	100%
Camp 4 Ext	2	100%	71	100%
Camp 5	1	100%	156	100%
Camp 6	1	100%	121	100%
Camp 7	0	0%	107	100%
Camp 8E	1	100%	97	100%
Camp 8W	2	100%	255	100%
Kutupalong RC	0	0%	80	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



# of alerts

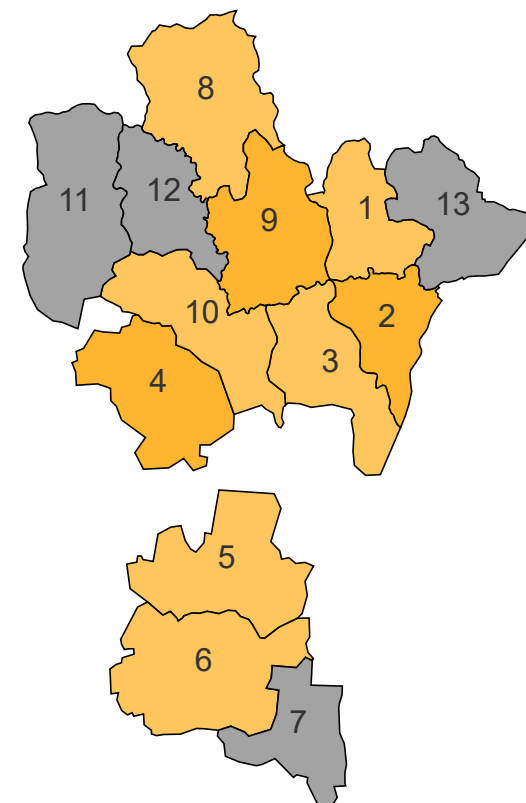


Table 9 | Performance by camp

Southern group	W53		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	2	100%	115	100%
Camp 11	3	100%	147	100%
Camp 12	2	100%	153	100%
Camp 13	3	100%	171	100%
Camp 14	1	100%	105	100%
Camp 15	1	100%	191	100%
Camp 16	0	0%	150	100%
Camp 17	2	100%	126	100%
Camp 18	3	100%	211	100%
Camp 19	1	100%	75	100%
Camp 20	0	0%	86	100%
Camp 20 Ext	0	0%	69	100%
Camp 9	0	0%	260	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



# of alerts

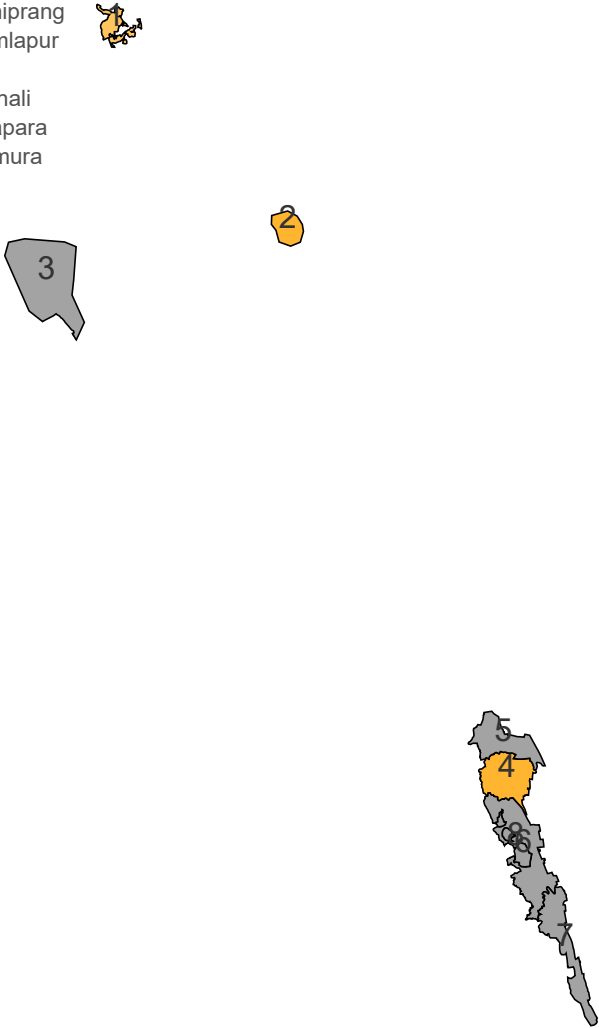


Table 10 | Performance by camp

Teknaf	W53		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	2	100%	65	100%
Camp 22 Unchiprang	3	100%	90	100%
Camp 23 Shamlapur	0	0%	18	100%
Camp 24 Leda	5	100%	142	100%
Camp 25 Ali Khali	0	0%	43	100%
Camp 26 Nayapara	0	0%	154	100%
Camp 27 Jadimura	0	0%	73	100%
Nayapara RC	0	0%	44	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	W53		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
<b>Indicator-based surveillance</b>				
Malaria	0	0%	3	100%
Measles	0	0%	507	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	43	100%
Meningitis	0	0%	34	100%
Haem. fever (susp.)	0	0%	51	100%
NNT	0	0%	3	100%
Unexp. fever	0	0%	143	100%
AWD	0	0%	232	100%
ARI	0	0%	206	100%
AJS	0	0%	119	100%
Varicella (Susp.)	0	0%	108	99%
Suspected COVID-19	0	0%	0	0%
<b>Event-based surveillance</b>				
EBS total	1	100%	231	100%

**Table 12** | Risk assessment

W53	Cumulative (2022)	
0	9	Low risk
0	1	Moderate risk
0	0	High risk
0	0	Very high risk

## For more help and support, please contact:

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Telephone: +88 017 01202994  
Email: otienod@who.int

## 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  
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Global  
**EWARS**

# Bangladesh

Rohingya Emergency Response

Early Warning, Alert and  
Response System (EWARS)

Annex W53 2022



Ministry of Health and Family  
Welfare Bangladesh



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Organization



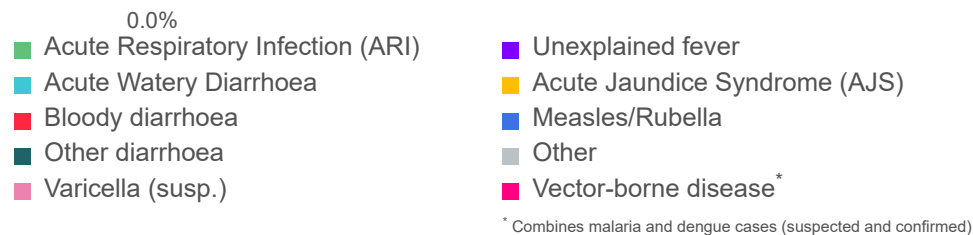
HEALTH SECTOR  
COX'S BAZAR



Printed: 08:48 Tuesday, 03 January 2023 UTC

# Proportional morbidity

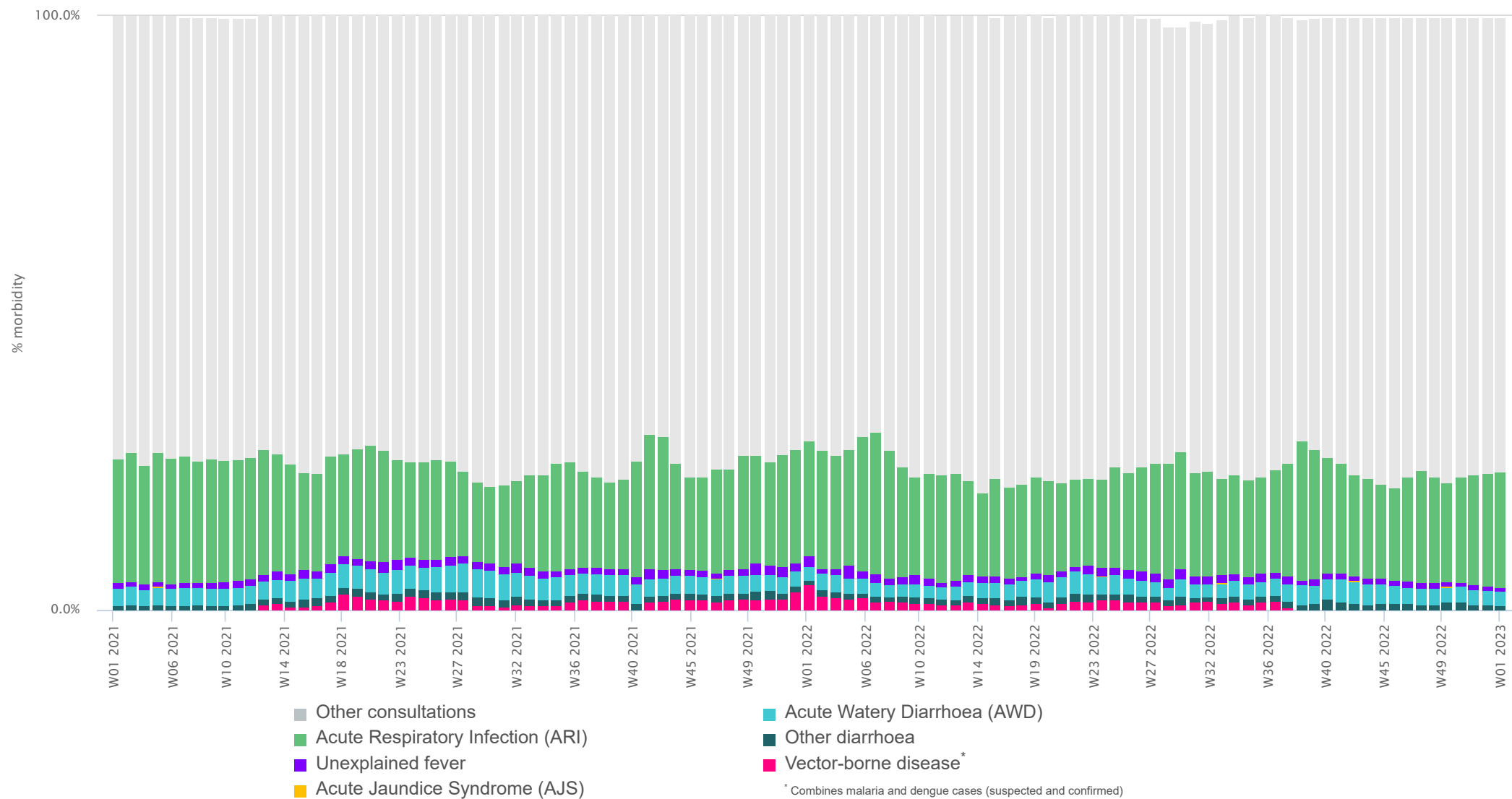
Figure 1 | Proportional morbidity (W53 2022)



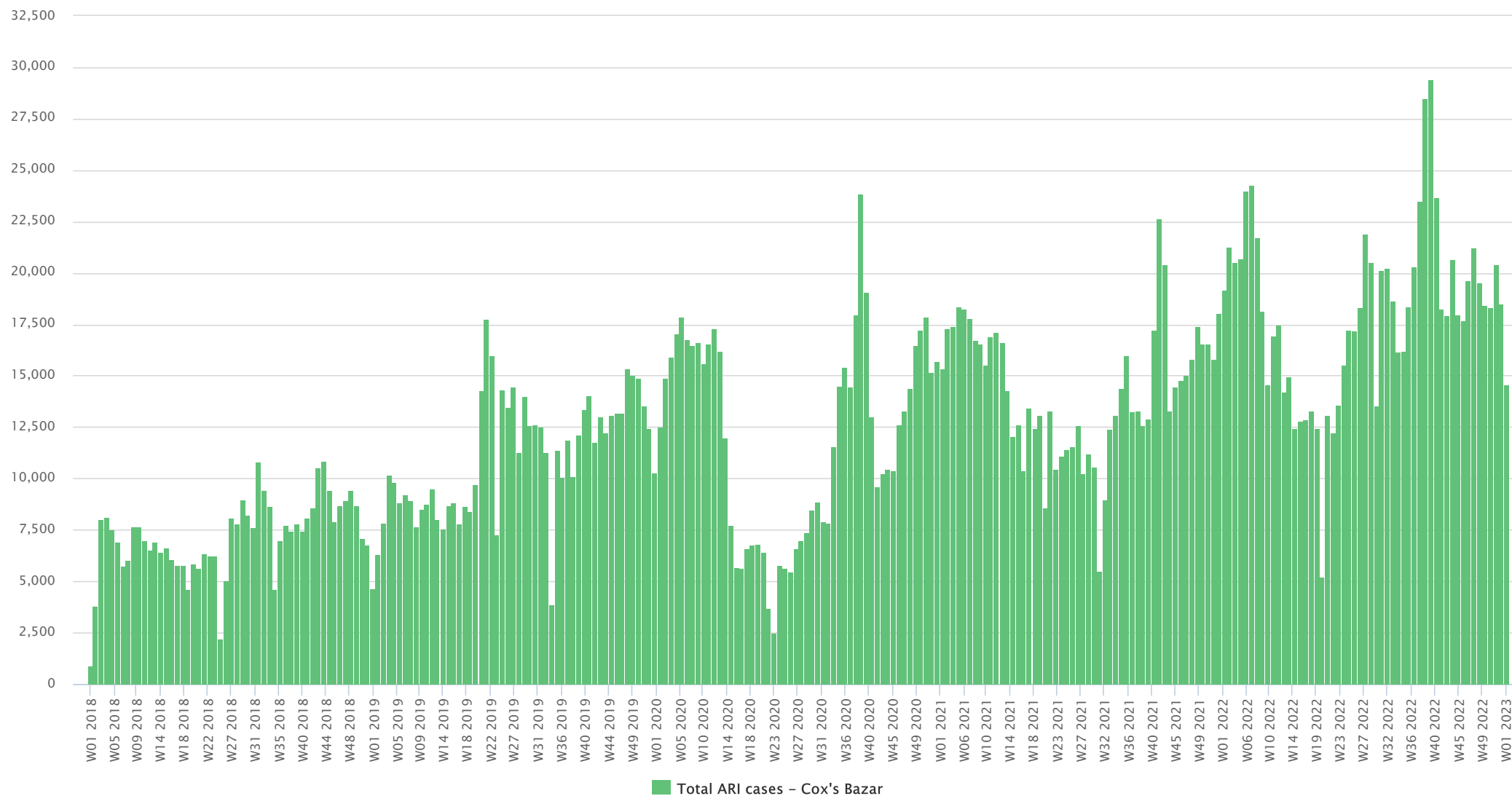
Disease	W53		2022	
	# cases	% morbidity	# cases	% morbidity
AWD	1,873	2.4%	152,387	2.7%
Bloody diarr.	163	0.2%	18,431	0.3%
Other diarr.	667	0.9%	59,405	1.1%
Susp. Varicella	70	0.1%	9,537	0.2%
ARI	15,156	19.5%	992,355	17.9%
Measles/Rub.	7	0.0%	1,067	0.0%
AFP	0	0.0%	83	0.0%
Susp. menin.	2	0.0%	201	0.0%
AJS	16	0.0%	1,367	0.0%
Susp. HF	0	0.0%	447	0.0%
Neo. tetanus	0	0.0%	9	0.0%
Adult tetanus	1	0.0%	21	0.0%
Malaria (conf.)	5	0.0%	402	0.0%
Malaria (susp.)	1	0.0%	53,374	1.0%
Dengue (conf.)	62	0.1%	20,341	0.4%
Dengue (susp.)	3	0.0%	8,670	0.2%
Unexpl. fever	444	0.6%	61,920	1.1%
Sev. Malnut.	34	0.0%	2,675	0.0%
Inj./Wounds	1,757	2.3%	115,582	2.1%
Other	57,287	73.8%	4,047,424	72.9%
<b>Total</b>	<b>77,170</b>	<b>100%</b>	<b>5,554,028</b>	<b>100%</b>

## Trend in consultations and key diseases

**Figure 2** | Trend in proportional morbidity for key diseases (W53)

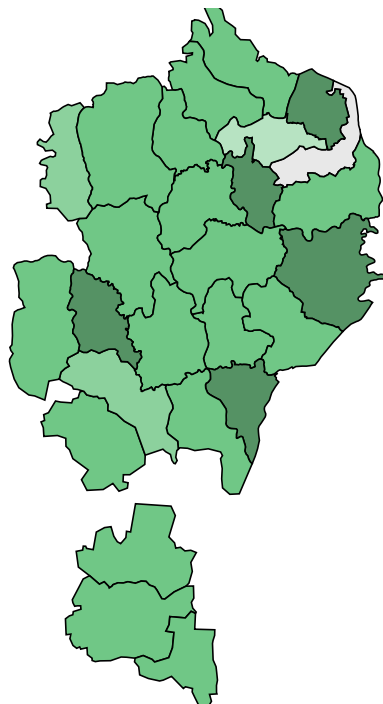


**Figure 3** | Trend in number of cases over time (W38 2017 - W53 2022)

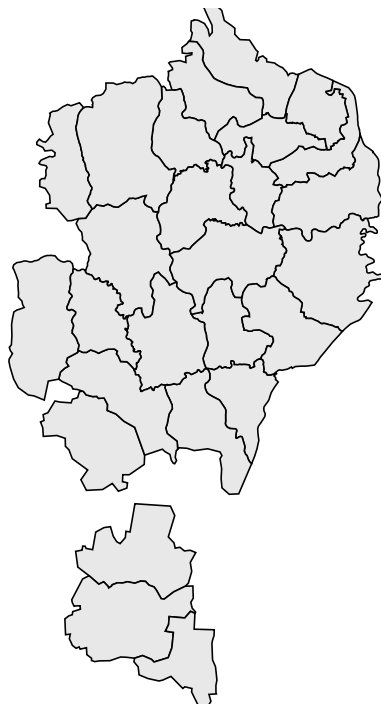


**Map 1** | Map of cases by camp (W53 2022)

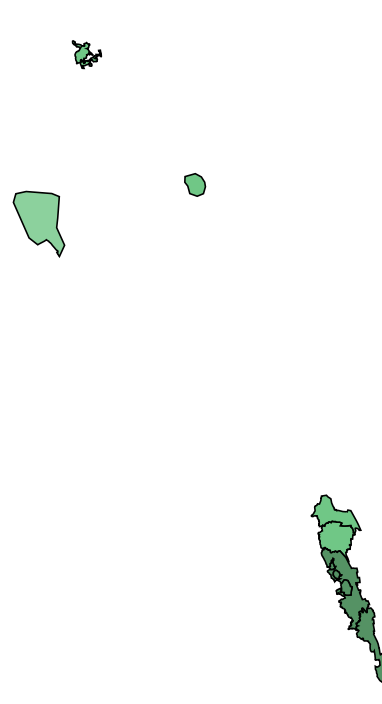
**a. Ukhia** | Number of cases



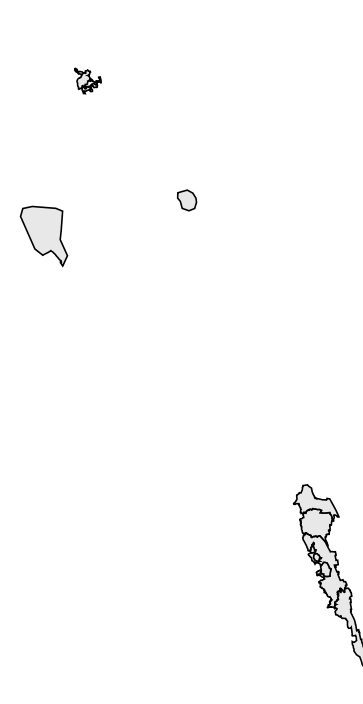
**b. Ukhia** | Number of alerts



**c. Teknaf** | Number of cases



**d. Teknaf** | Number of alerts



## Map legend

Number of cases



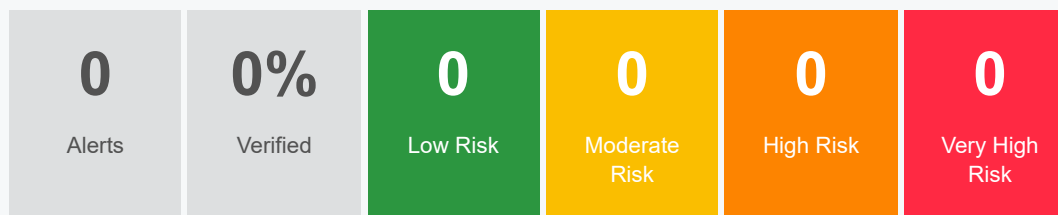
Number of alerts



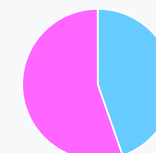
## Alert threshold

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

## Alert management (W53 2022)

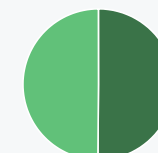


## Figure | % sex



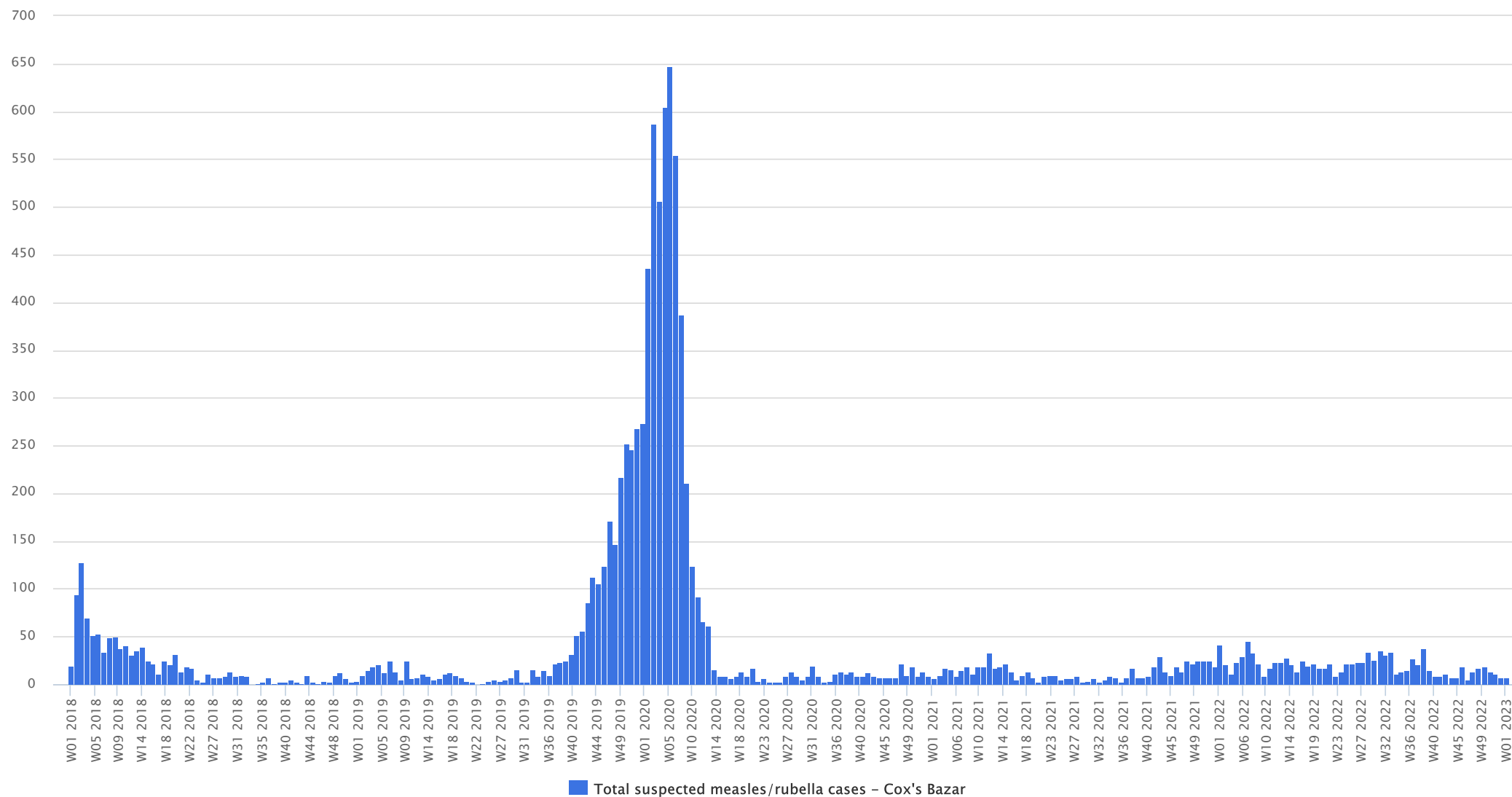
Male Female

## Figure | % age



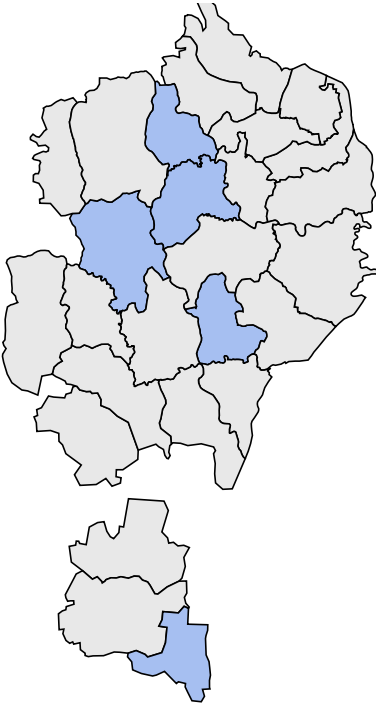
$\geq 5$   $< 5$

**Figure 4** | Trend in number of suspected cases over time (W38 2017 - W53 2022)



Map 2 | Map of cases by camp (W53 2022)

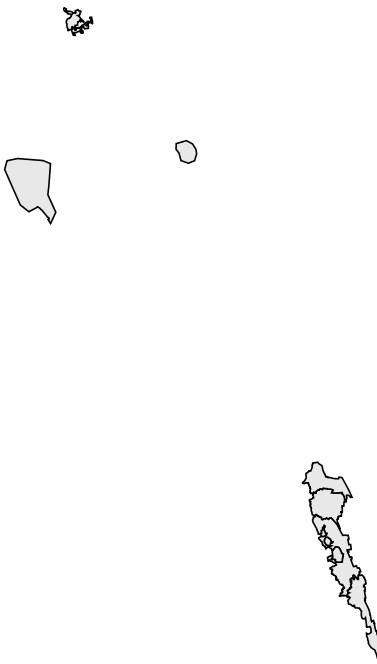
a. Ukhia | Number of cases



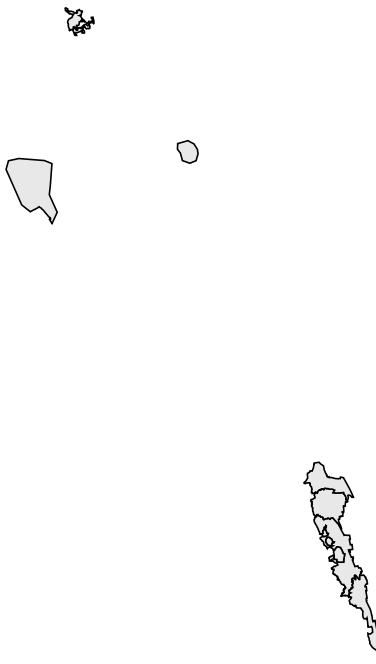
b. Ukhia | Number of alerts



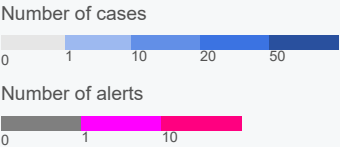
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold  
1 case. Source: IEDCR

Alert management (W53 2022)

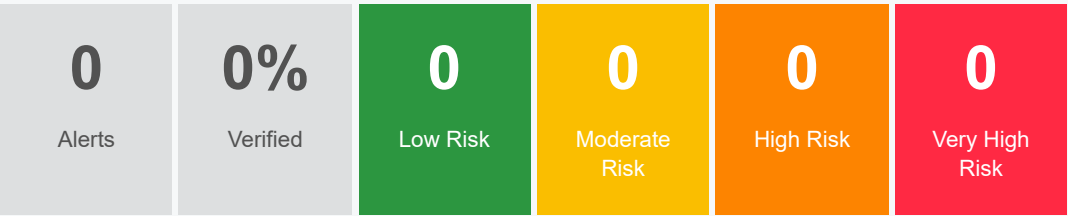


Figure | % sex

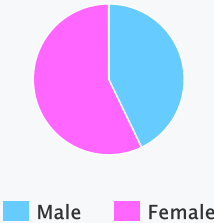
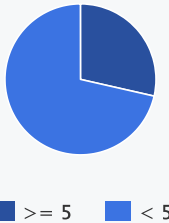
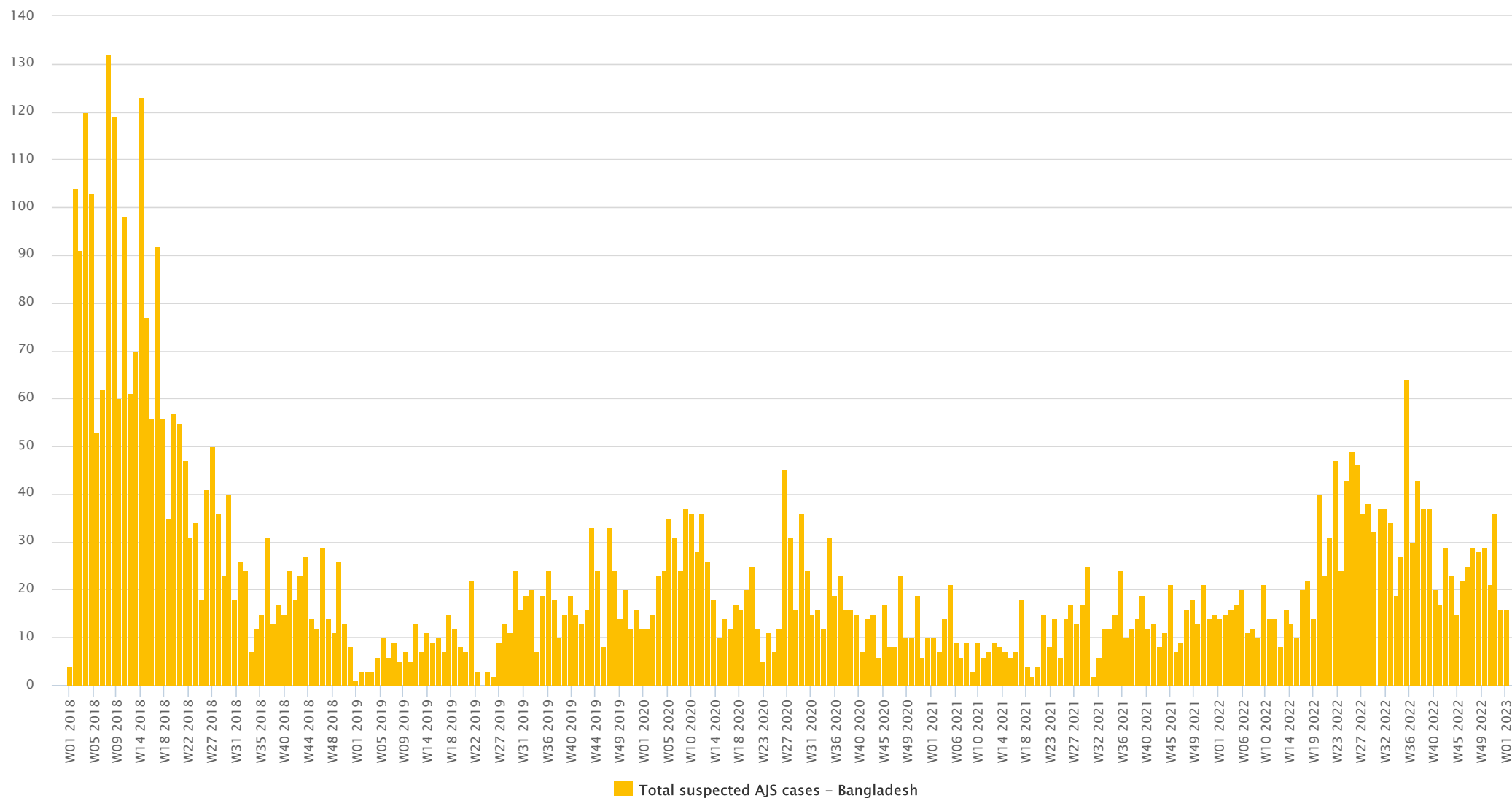


Figure | % age

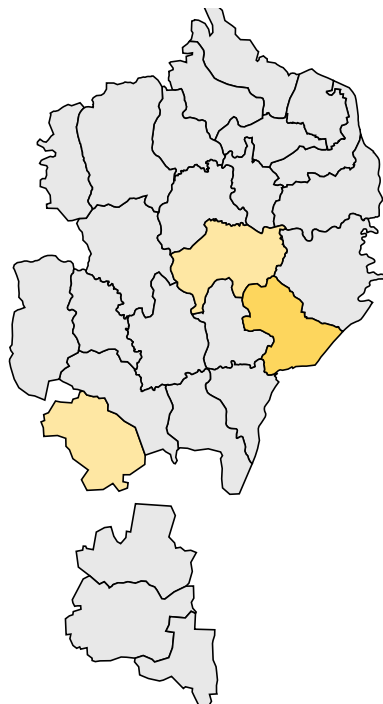


**Figure 5** | Trend in number of cases over time (W38 2017 - W53 2022)

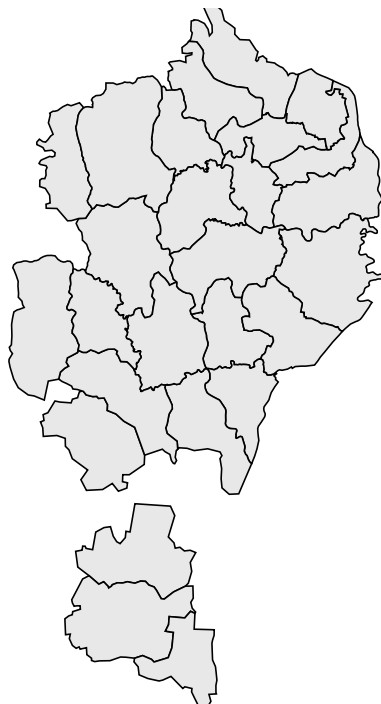


**Map 3 | Map of cases by camp (W37 2017 - W53 2022)**

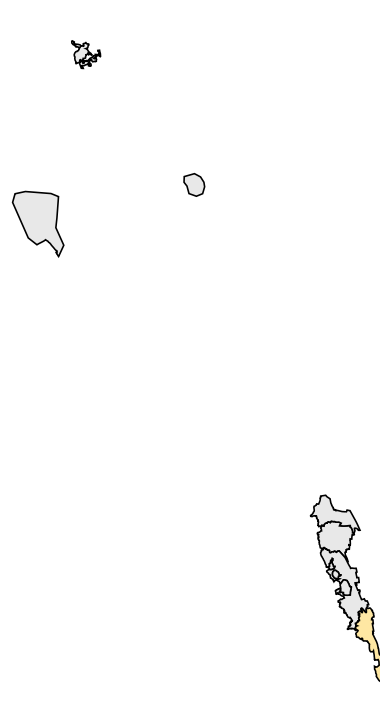
**a. Ukhia | Number of cases**



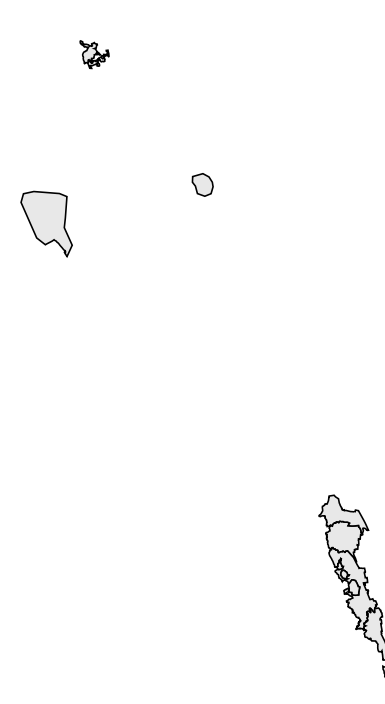
**b. Ukhia | Number of alerts**



**c. Teknaf | Number of cases**



**d. Teknaf | Number of alerts**



## Map legend

Number of cases



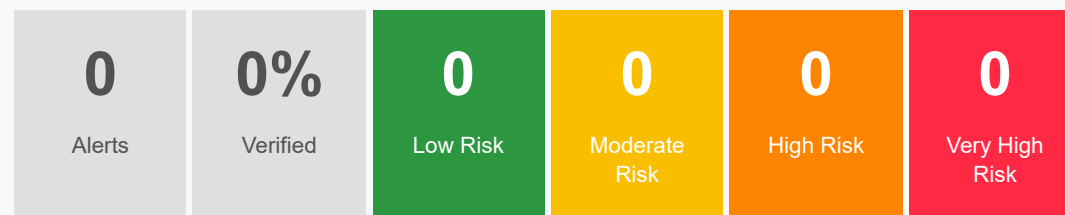
Number of alerts



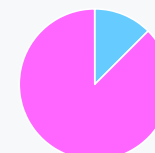
## Alert threshold

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

## Alert management (W53 2022)

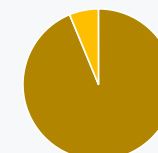


## Figure | % sex



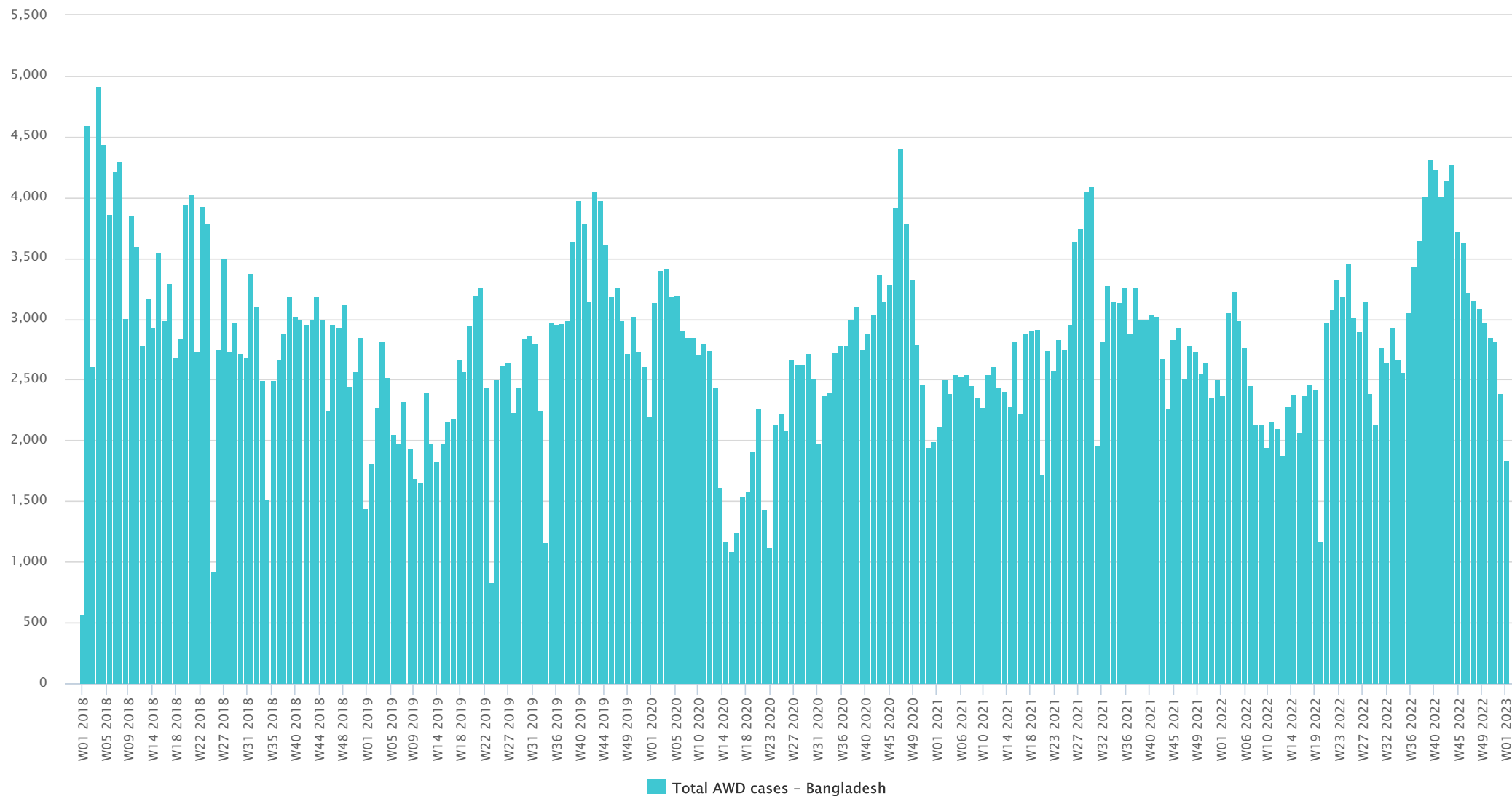
Male Female

## Figure | % age

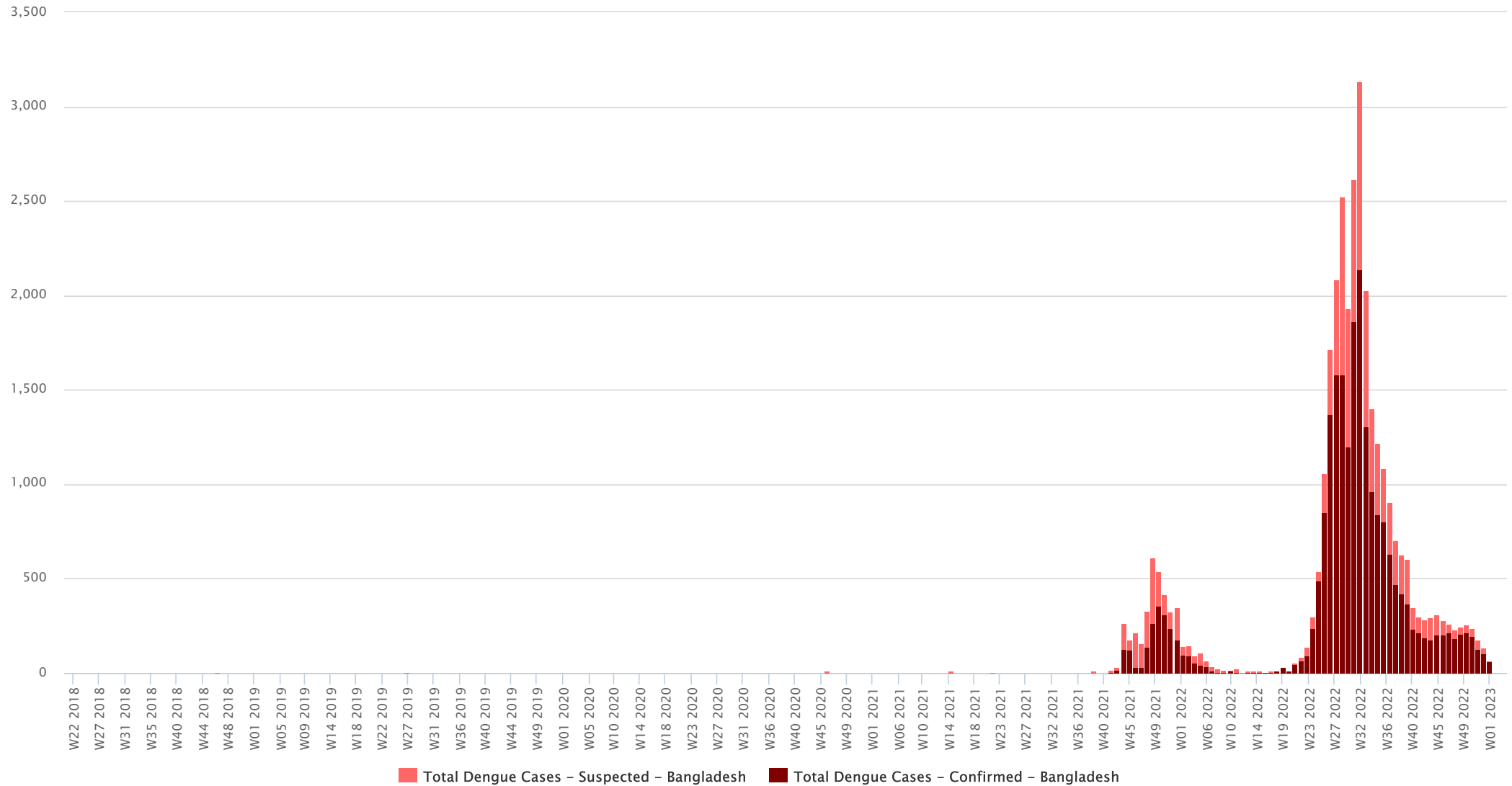


>= 5 < 5

**Figure 6** | Trend in number of cases over time (W38 2017 - W53 2022)

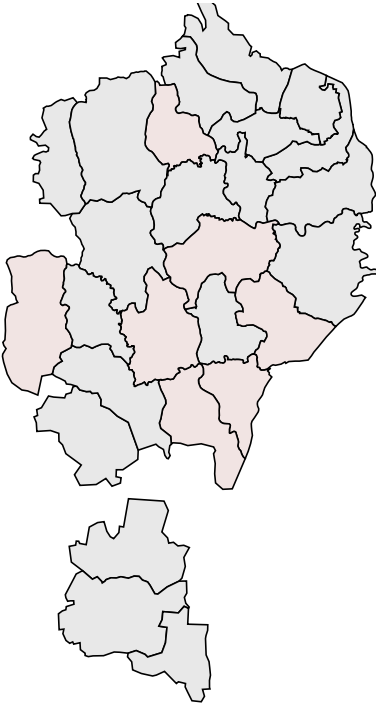


**Figure 7** | Trend in number of cases over time (W38 2017 - W53 2022)



Map 4 | Map of cases by camp (W37 2017 - W53 2022)

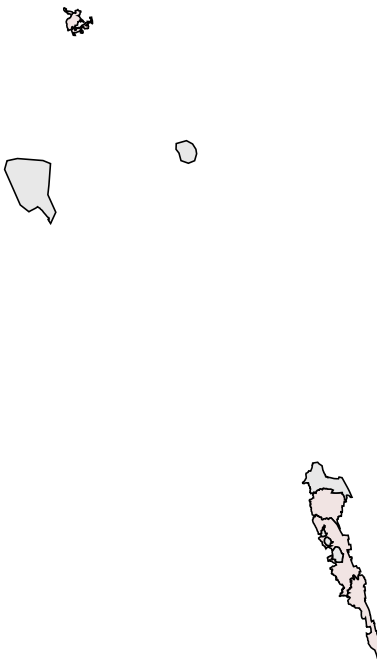
a. Ukhia | Number of cases



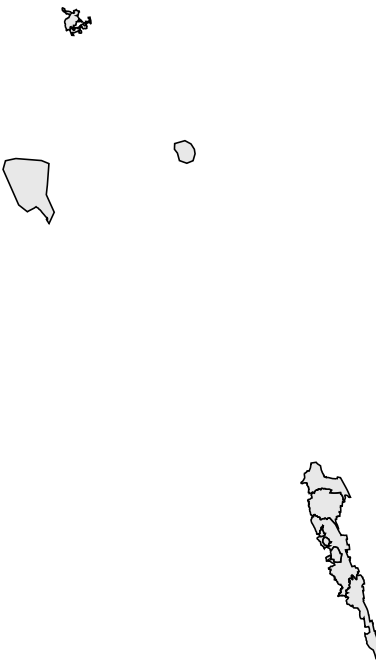
b. Ukhia | Number of alerts



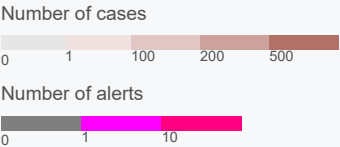
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W53 2022)

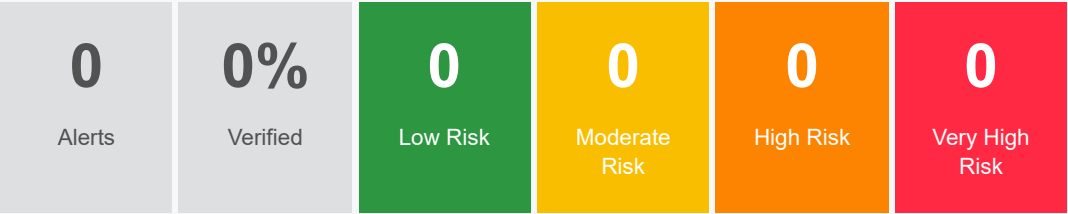


Figure | % sex

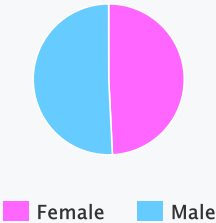


Figure | % age

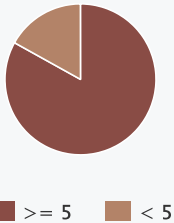
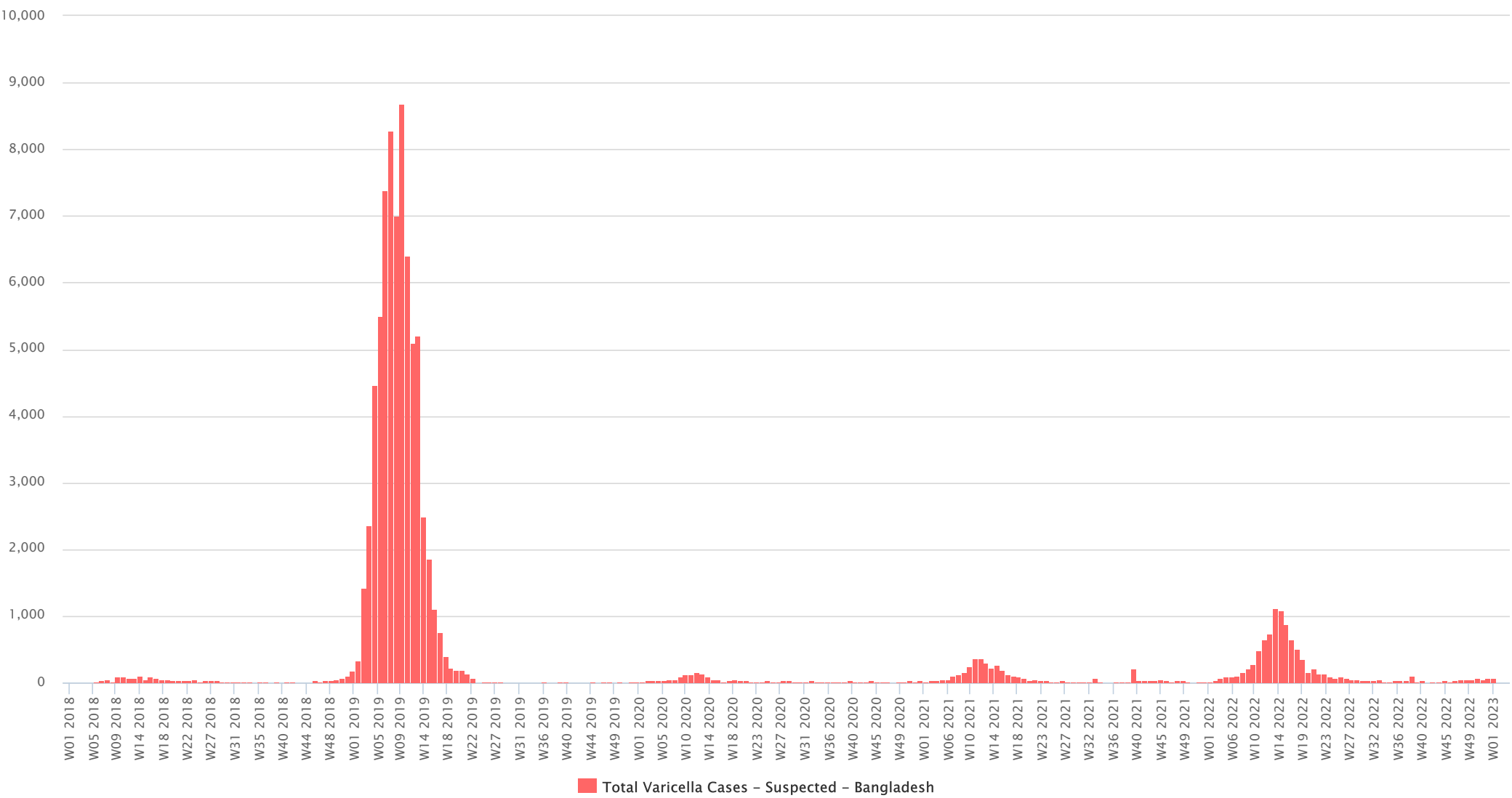
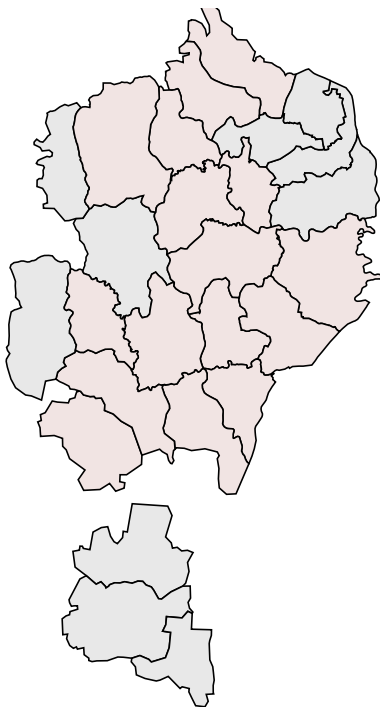


Figure 7 | Trend in number of cases over time (W38 2017 - W53 2022)

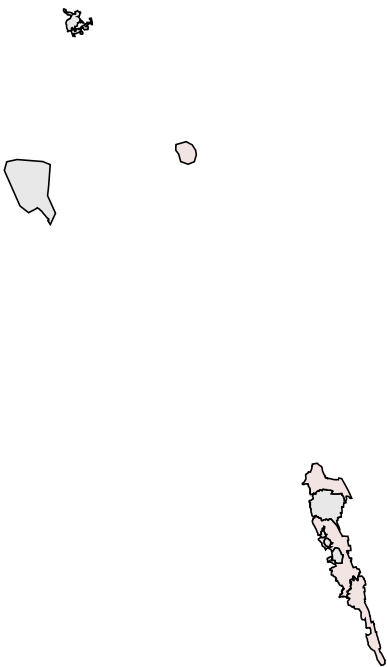


Map 4 | Map of cases by camp (W37 2017 - W53 2022)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

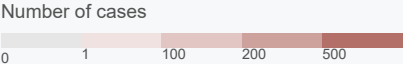


Figure | % sex

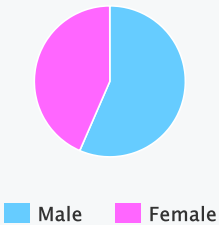
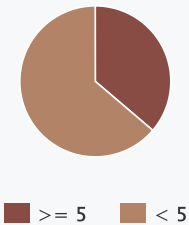


Figure | % age



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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>

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