



# Epidemiological Highlights

Week 11 (12-18 March) 2023



World Health  
Organization

# EWARS Reporting Updates

Currently, a total of **159 health facilities** are registered in EWARS

- Of those 140 weekly reports were received on time in week 11 in 2023
- Timeliness and completeness of weekly reporting were 88% which is more than the 80% weekly threshold
- Forty-five (45) alerts were triggered
- All alerts were reviewed and verified by the WHO EWARS team; this is an 11% decrease from the previous week (52 alerts in week 10, 2023)

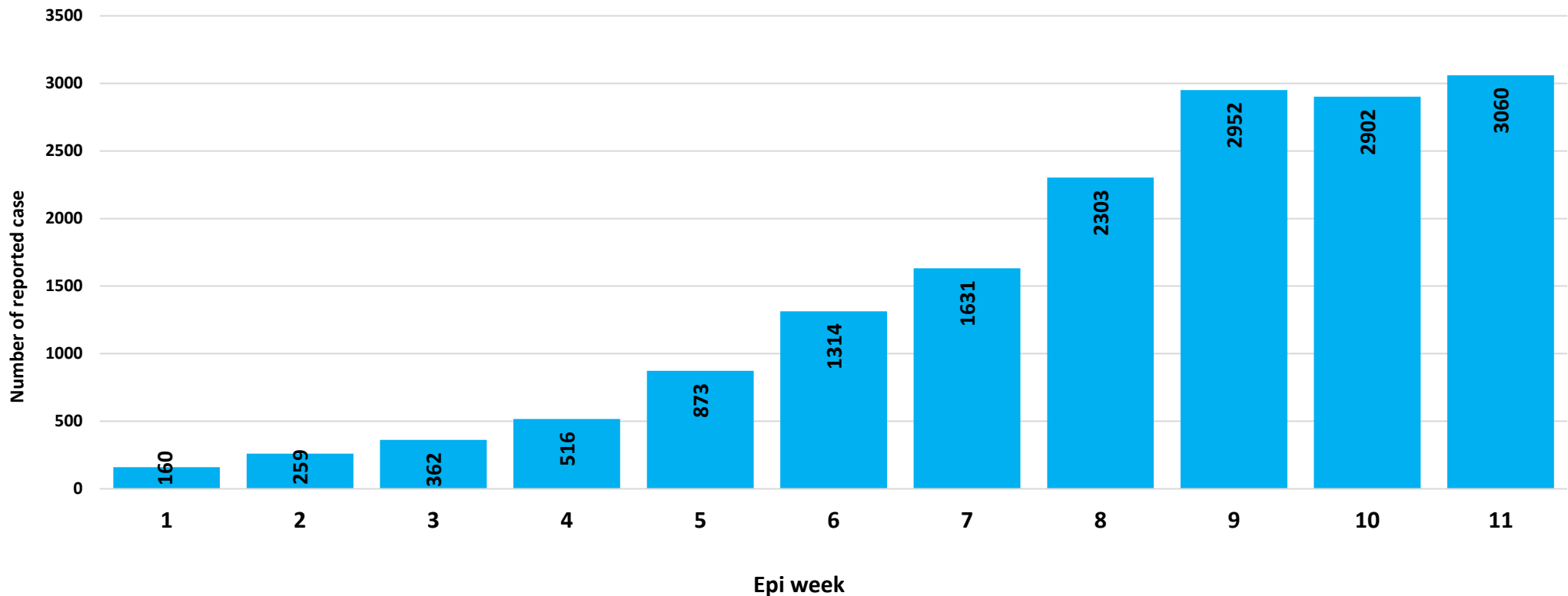
# Highlights: Morbidities and Mortalities

- Acute Respiratory Infections (20.6%), Suspected Varicella (2.9%) and Acute Watery Diarrheal Diseases (2.1%) were the diseases and health conditions with the highest proportional morbidity this week.
- Monitoring of suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020. So far, 21 cases of which none is probable COVID-19 Death, have been reported in 2023
- This Epi week, two (2) new SARI deaths, and upon investigation, none was reported as probable COVID-19 death as highlighted below:

Year	Suspected SARI death reported (current week)	Reclassified as death due to probable COVID-19
2023	21 (0)	0
2022	136	8
2021	96	15
2020	49	2

# Varicella Update

Number of varicella case reported in EWARS from week 1-11, 2023



In 2023, a total of 16,332 cases were reported as of the date and an increasing trend is observed from the earliest week which is a bit higher in comparison with the same time period in the previous year and currently shared 2.9% proportional morbidity among total consultations. No fatalities have been recorded yet.

# Highlights: COVID-19 Surveillance Updates

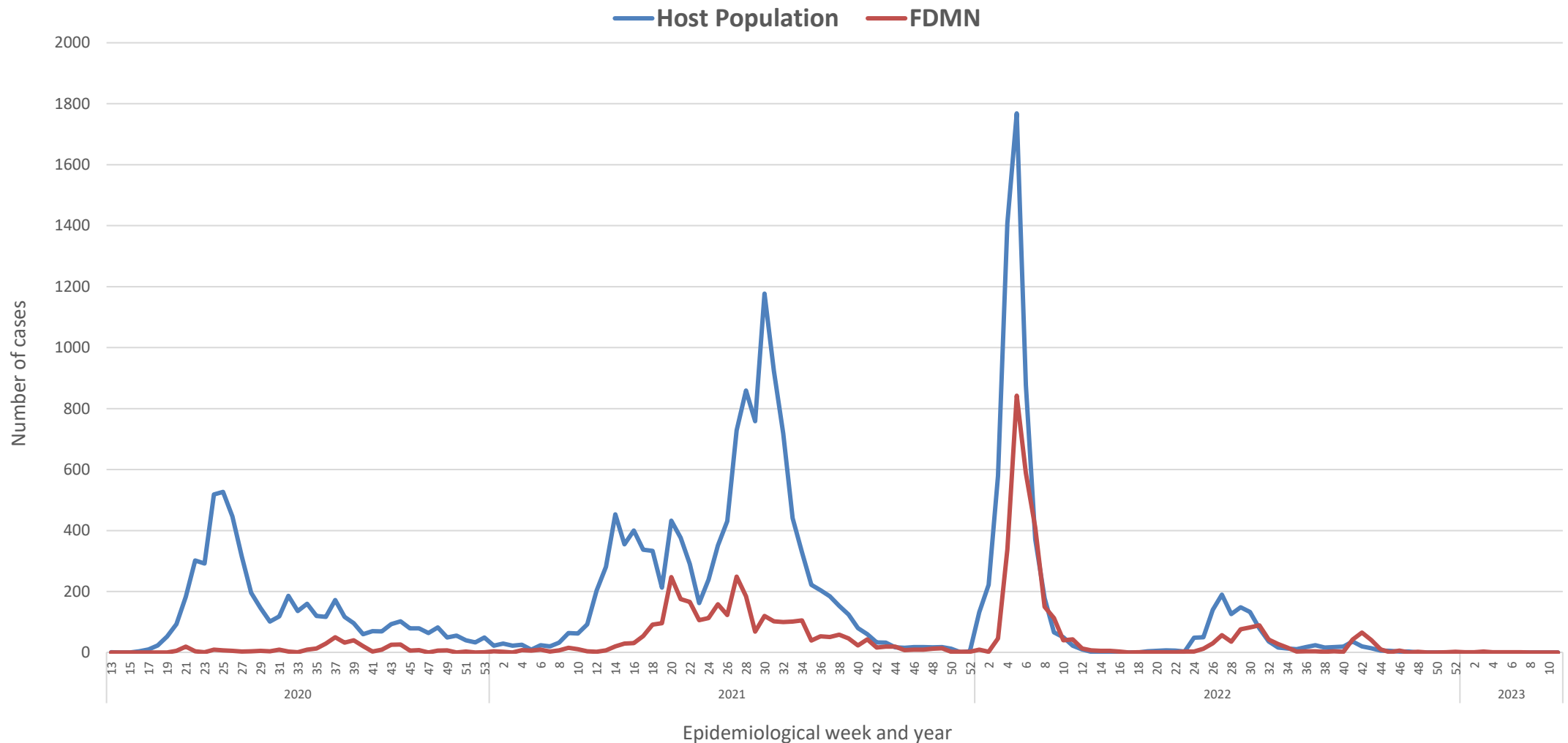
**FDMN: Transmission almost under control (declining testing as caseload heads to 0.3)**

- No (0) new confirmed cases were reported this week
- Weekly TPR and incidence/new infections are zero
- No new death reported, and total deaths stabilized at **45** (CFR- 0.7%) while cumulative cases were steady at **6,597**
- Level of recovery continues to steady at 99%

**Host Population: Steady decline in trends of cases (low weekly testing & zero caseloads)**

- No (0) new confirmed cases were reported this week like last thirteen 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 Surveillance Updates

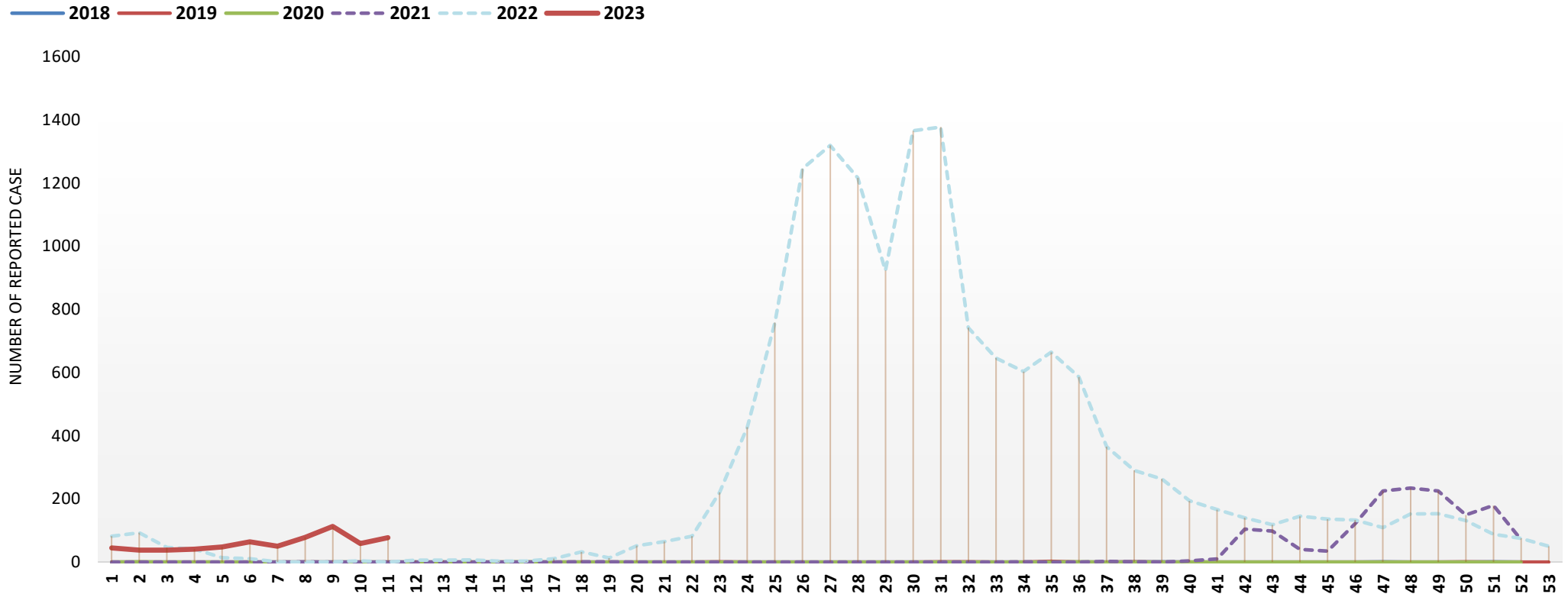


**FDMNs: No (0)** new confirmed case was reported this week, and weekly TPR and case incidence are zero, four weeks in a row.

**Host Population: No (0)** new cases were reported in the week which is like the last three months, weekly TPR and case incidence were steady at zero.

# Dengue Surveillance Updates

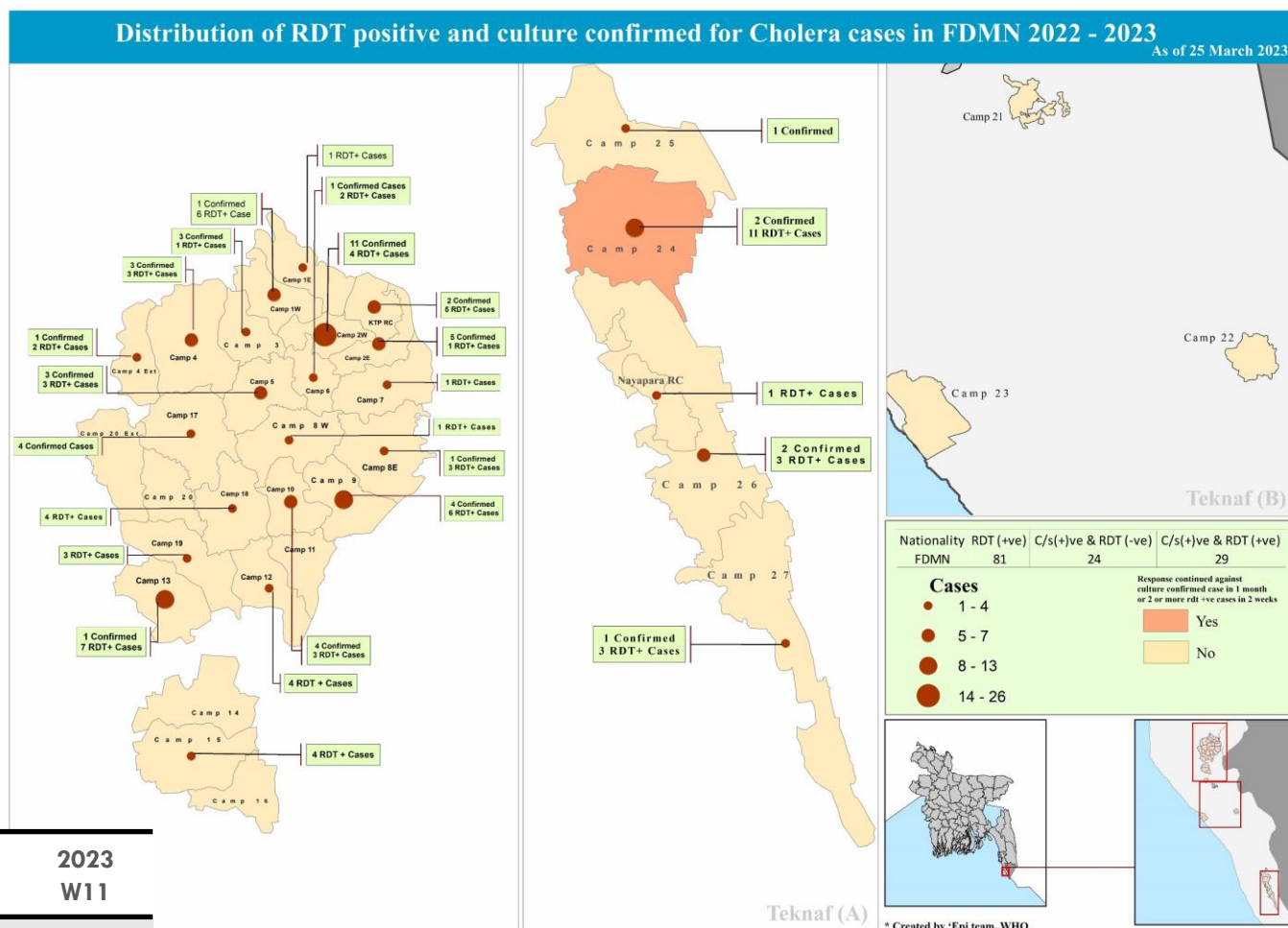
Yearly Trends of Dengue case trend from 2018 – 2023 week 11



- ❑ Cumulative of 651 confirmed dengue cases and 1 death (verified) with a CFR 0.1% have been reported so far in 2023
- ❑ The current transmission is a continuation of that for 2021 and 2022 (possible endemic transmission established )
- ❑ Camp 3 and the surrounding camps continue to bear the greatest burden of the cases so far reported in 2023 similar to 2022

# Cholera/AWD Surveillance Updates

- In this week, there is no one new Cholera case Positive AWD/ suspected Cholera cases were reported from samples sent for testing.
- A total of 19 cases of which thirteen (13) RDT-positive AWD/ cholera suspected cases and six (6) culture-confirmed Cholera cases have so far been reported in (Epi week 1-11) 2023.
- Cumulatively there are 880 RDT AWD cases/Cholera suspects have been reported while 408 cases were culture-confirmed since transmission in 2018.



	2018	2019	2020	2021	2022	2023 W11
<b>RDT positive AWD cases &amp; culture confirmed for Cholera cases</b>	49	258	28	357	170	19
<b>Culture confirmed for Cholera</b>	7	184	5	136	70	6



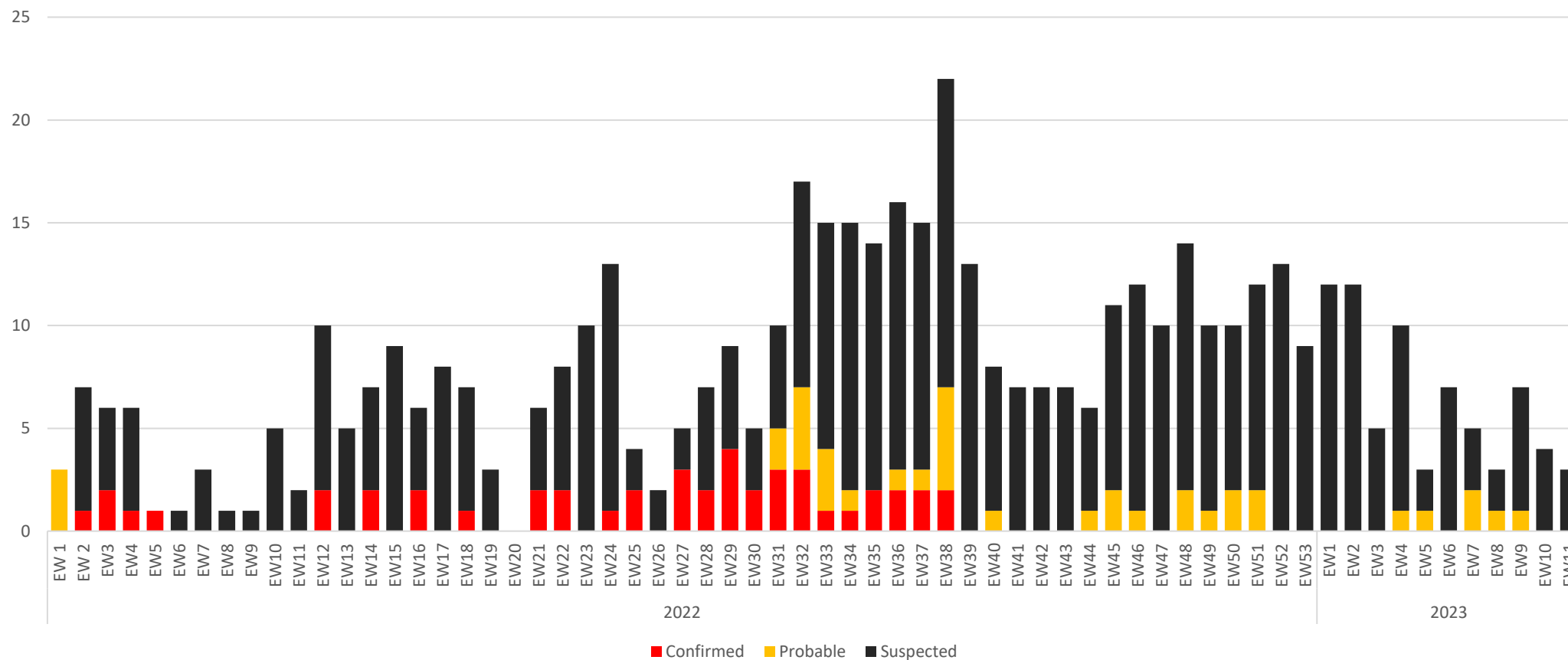
# Diphtheria Surveillance Updates

- Three (3) suspected diphtheria cases were reported in go.data in this Epi week
- The last confirmed case was reported on 14 September 2022 due to a shortage of PCR Test kits
- 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	6
Suspected	1796	3549	523	198	118	355	65
Death	30	14	3	0	5	2	0

# Trends of Diphtheria cases

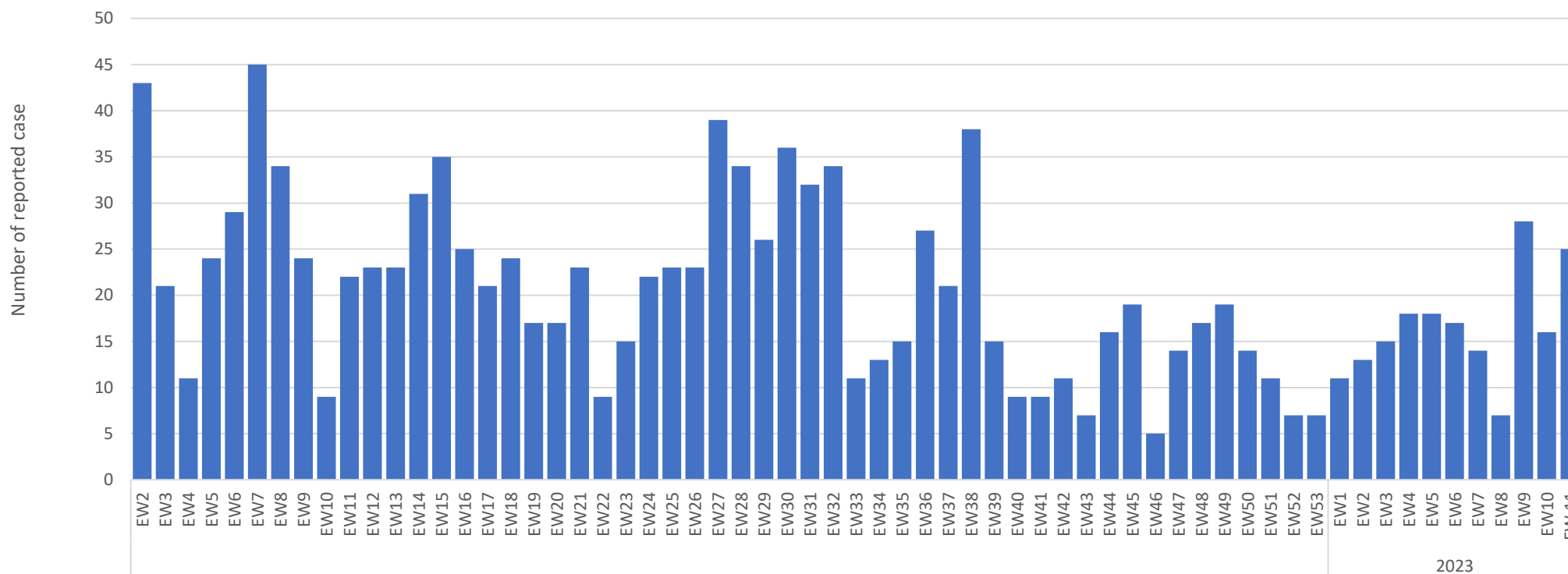
Total number of diphtheria case reported in EWARS from 2022 -week 11, 2023



- Persistent transmission continues to be reported, Diphtheria vaccination campaign concluded in all 33 camps with 92% coverage
- **Three (3) suspected cases** were reported this Epi week; **New RT-PCR Rapid Test kits received by IEDCR from US CDC**
- There are 71 diphtheria cases (6 probable and 65 suspected cases) and zero fatalities so far reported in 2023
- In 2022 total of 431 cases (46 confirmed including 2 deaths, 32 probable, and 353 suspected cases) have so far been reported 2022

# Epi Curve of Suspected Measles Cases

Total number of Measles case reported in EWARS from 2022-2023 W11



- > 25 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 182 reported in 2023
- > About 55% (101/182) of the total suspected measles cases were reported through case-based reporting and samples collected for laboratory confirmation

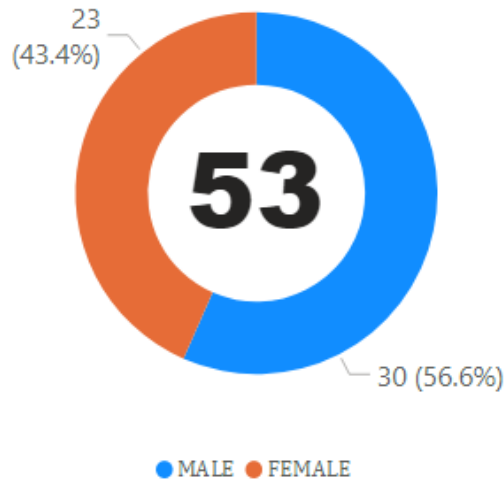
# Community-based Mortality surveillance updates Epi week 11 2023

Probable causes of death	Epi week 11	In 2023
Still Birth	5 (9%)	76 (11%)
Neonatal Death (<28 days old)	10 (19%)	60 (9%)
Infectious Disease	--	16 (2%)
Severe Acute Respiratory Infection (SARI)	2 (4%)	12 (2%)
Injury	1 (2%)	13 (2%)
Maternal Death	1 (2%)	15 (2%)
Acute Malnutrition	--	2 (0%)
Other	34 (64%)	478 (71%)
<b>Total</b>	<b>53 (100%)</b>	<b>674 (100%)</b>

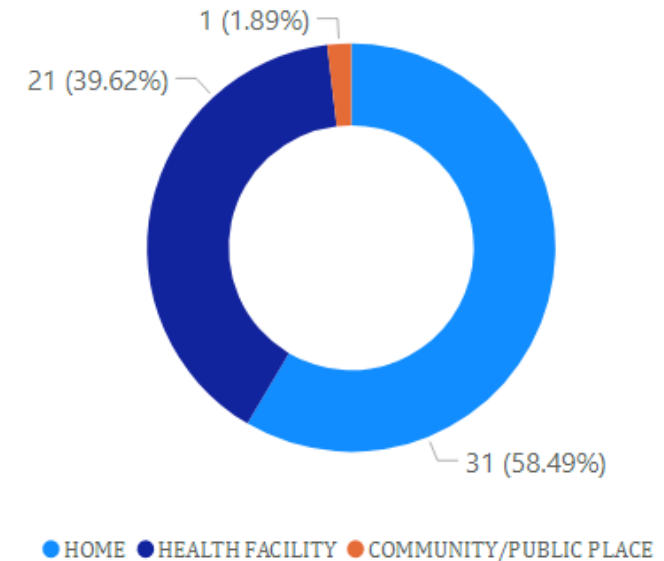
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable

# Community-based Mortality surveillance updates Epi week 11 2023

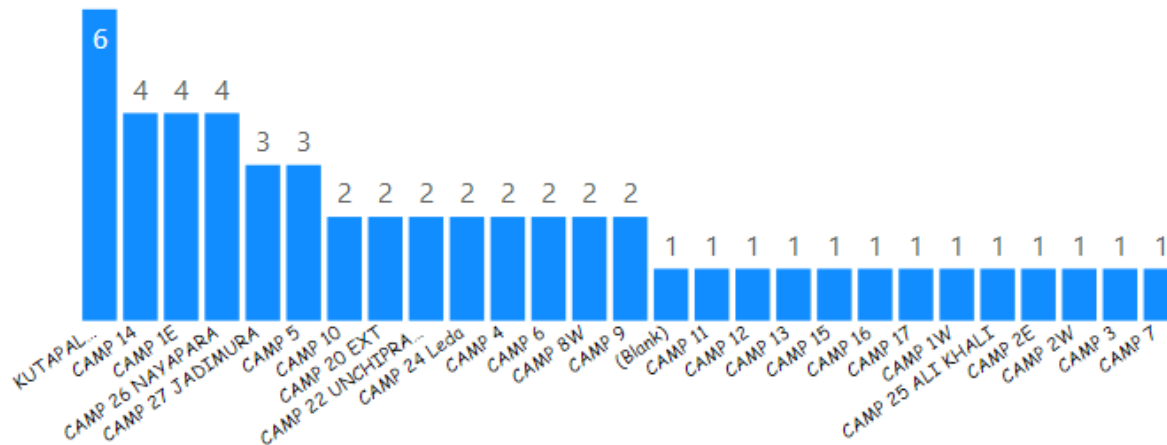
**Gender distribution**



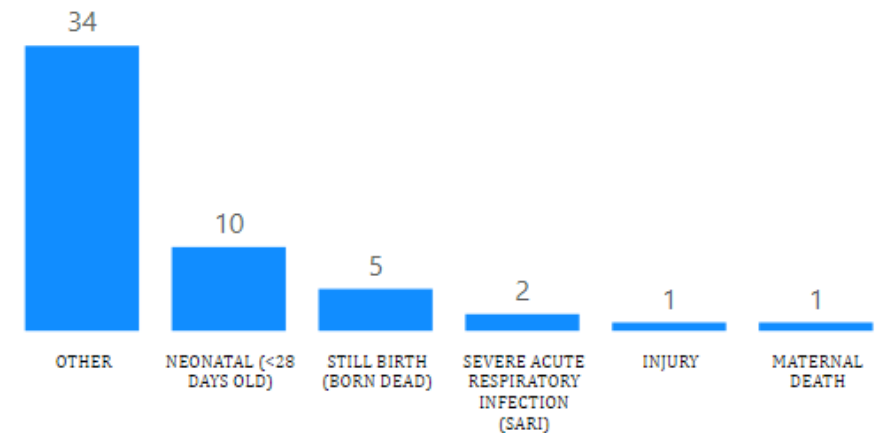
**Place of death**



**Distribution of deceased Camp**



**Distribution of Probable cause of death**



# Bangladesh

Rohingya Emergency Response

Early Warning, Alert and  
Response System (EWARS)

Epidemiological Bulletin W11 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

# Highlights W11 2023

Table 1 | Coverage

#	%	
952,309	-	Estimated total Rohingya population <sup>1</sup>
923,358	97%	Total population under surveillance
165	-	Total number of health facilities
159	96%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W11	Cumulative (2023)	
140	1806	Number of weekly reports received
88%	91%	Completeness
88%	89%	Timeliness

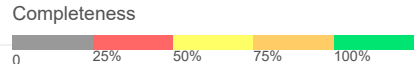
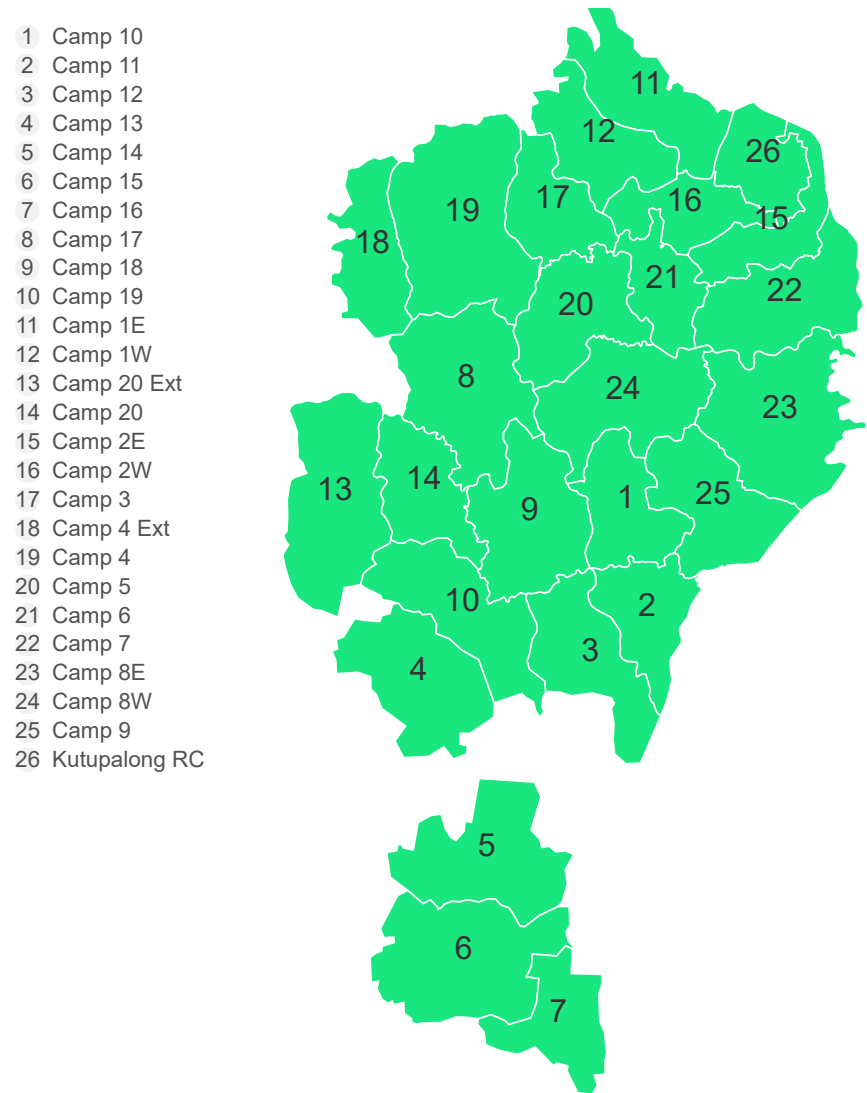
Table 3 Alert performance indicators

W11	Cumulative (2023)	
45	1,006	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

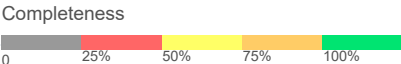
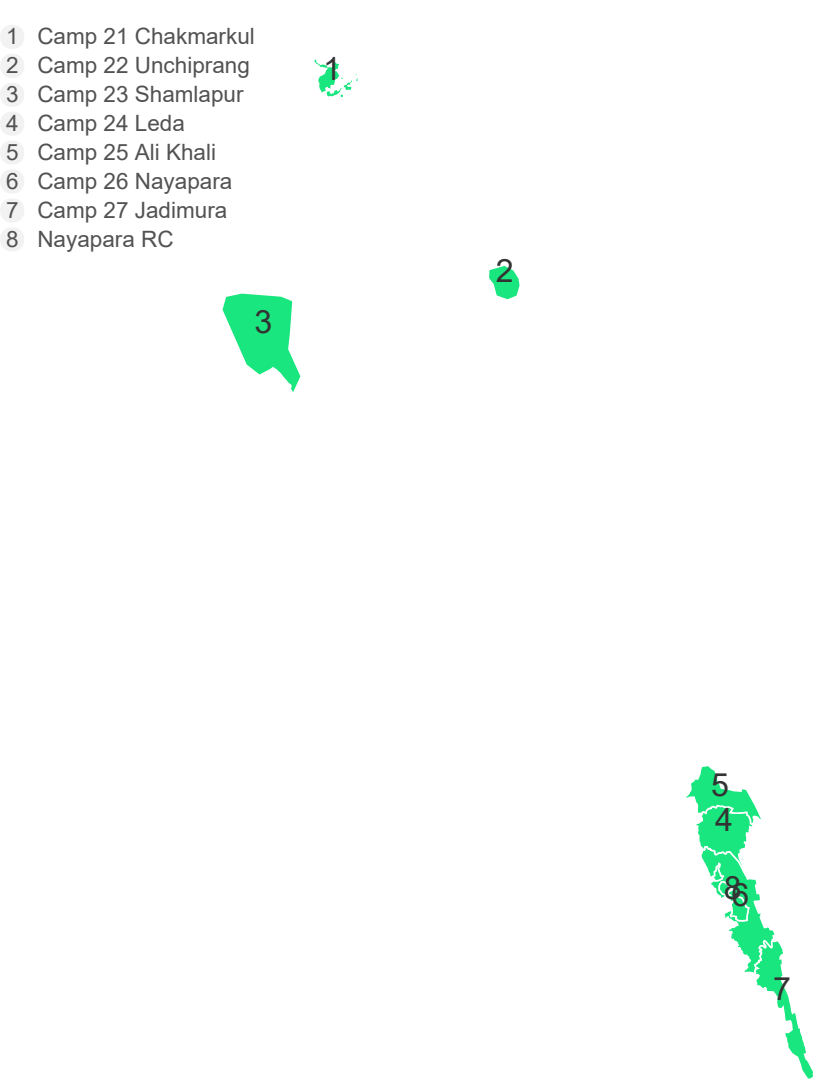


Table 4 | Performance by camp (W11 2023)

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	3	100%	0%
Camp 2W	4	4	100%	0%
Camp 3	5	3	75%	0%
Camp 4	5	5	100%	0%
Camp 4 Ext	1	1	100%	0%
Camp 5	5	4	100%	0%
Camp 6	2	2	100%	0%
Camp 7	5	4	80%	0%
Camp 8E	9	9	100%	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

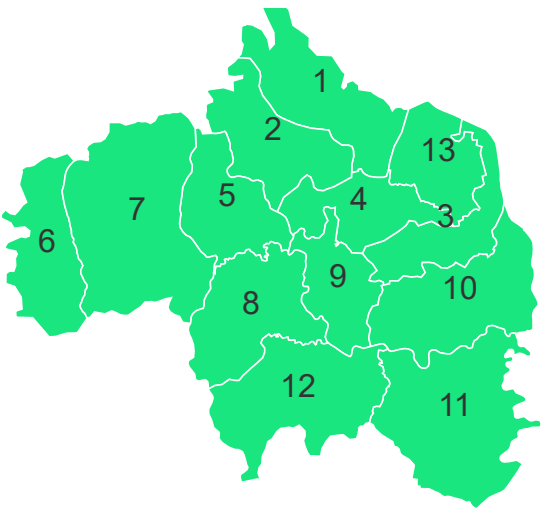


Table 5 | Performance by camp (W11 2023)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	3	75%	0%
Camp 11	6	3	67%	0%
Camp 12	6	6	100%	0%
Camp 13	8	8	100%	0%
Camp 14	6	6	100%	0%
Camp 15	8	7	88%	0%
Camp 16	7	7	100%	0%
Camp 17	5	3	80%	0%
Camp 18	4	4	100%	0%
Camp 19	4	4	100%	0%
Camp 20	4	4	100%	0%
Camp 20 Ext	3	3	100%	0%
Camp 9	6	5	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

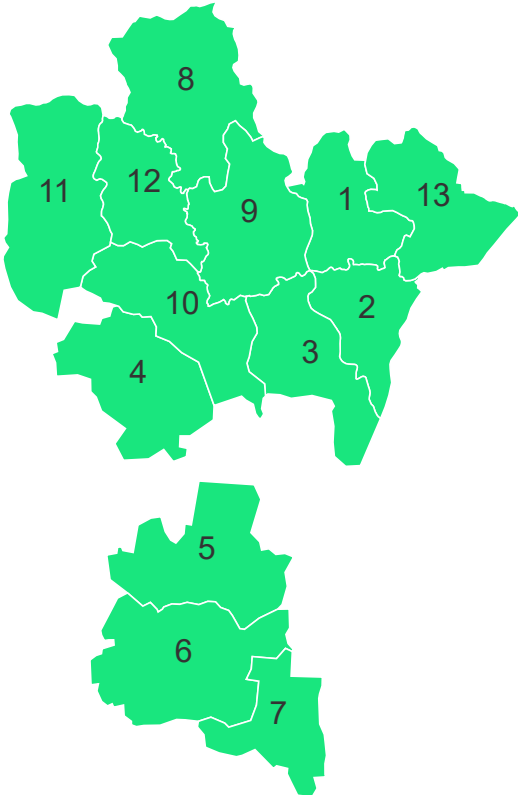
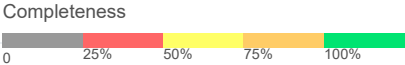
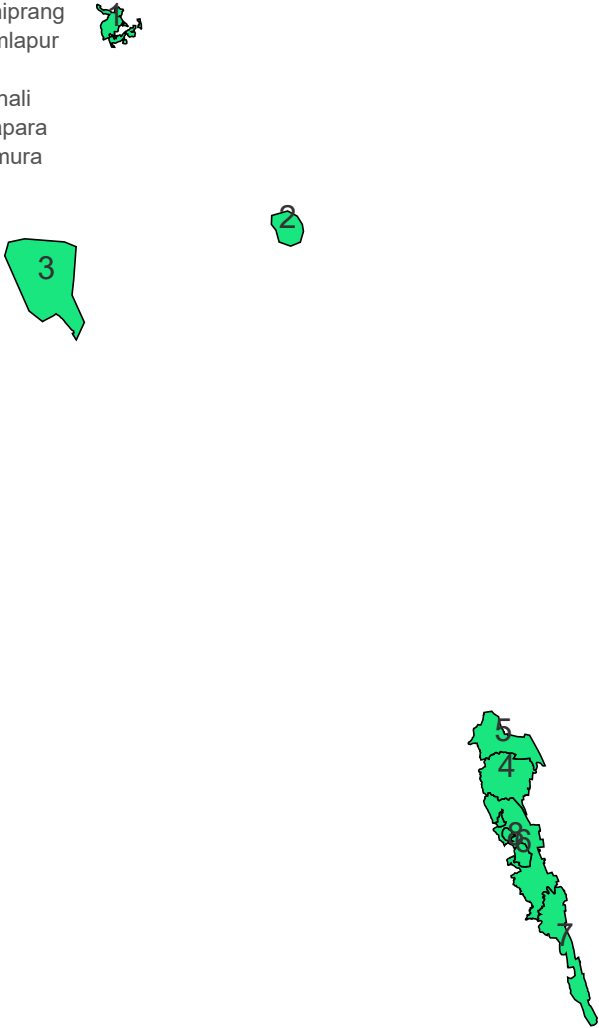


Table 6 | Performance by camp (W11 2023)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	3	3	100%	0%
Camp 22 Unchiprang	5	3	75%	0%
Camp 23 Shamlapur	3	2	67%	0%
Camp 24 Leda	2	2	100%	0%
Camp 25 Ali Khali	3	3	67%	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



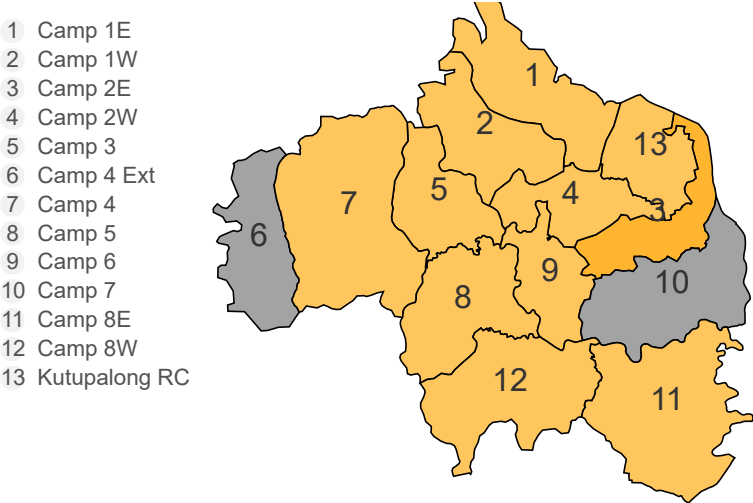
**Table 7** | Performance by partner (W11 2023)

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%	67%	MSF	9	7	0%	0%
BASHMAH	1	1	100%	100%	MoH	12	9	0%	0%
BDRCS	10	9	90%	90%	MHI	1	2	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	10	0%	0%
FRNDS	5	4	0%	0%	RPN	2	2	100%	100%
GK	10	8	0%	0%	RHU	3	3	100%	0%
Global One	1	0	0%	0%	RI	3	1	0%	0%
GUSS	1	1	100%	100%	RTMI	9	8	0%	0%
HAEFA	2	2	100%	100%	SALT	1	1	100%	100%
HAIB	0	0			SCI	6	6	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	0	0%	0%	TdH	2	2	0%	0%
IOM	23	22	0%	0%					

Table 8 | Performance by camp

Northern group	W11		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	1	100%	32	100%
Camp 1W	1	100%	47	100%
Camp 2E	5	100%	72	100%
Camp 2W	2	100%	44	100%
Camp 3	2	100%	63	100%
Camp 4	2	100%	54	100%
Camp 4 Ext	0	0%	6	100%
Camp 5	1	100%	27	100%
Camp 6	2	100%	23	100%
Camp 7	0	0%	24	100%
Camp 8E	2	100%	48	100%
Camp 8W	2	100%	55	100%
Kutupalong RC	2	100%	17	100%

Map 5 | Number of alerts by camp



# of alerts

0

2

5

10

Table 9 | Performance by camp

Southern group	W11		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	2	100%	16	100%
Camp 11	0	0%	11	100%
Camp 12	1	100%	33	100%
Camp 13	3	100%	41	100%
Camp 14	1	100%	38	100%
Camp 15	0	0%	33	100%
Camp 16	1	100%	34	100%
Camp 17	1	100%	18	100%
Camp 18	3	100%	38	100%
Camp 19	0	0%	5	100%
Camp 20	1	100%	20	100%
Camp 20 Ext	0	0%	8	100%
Camp 9	2	100%	45	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

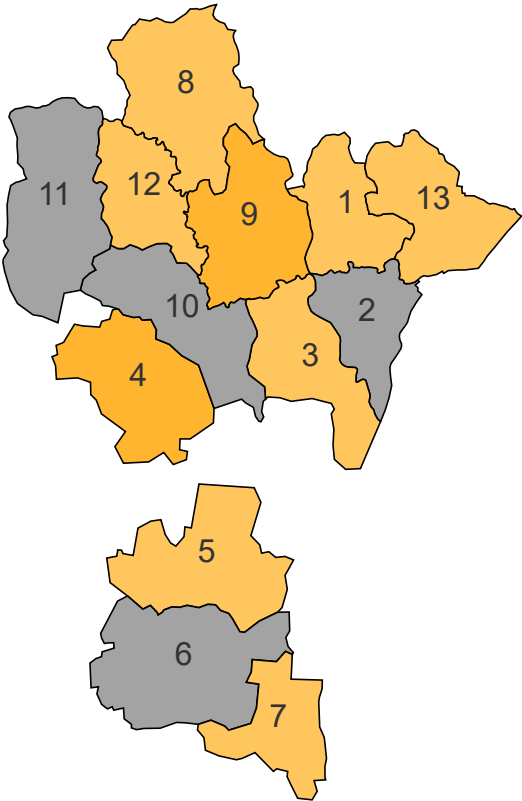


Table 10 | Performance by camp

Teknaf	W11		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	3	100%	18	100%
Camp 22 Unchiprang	2	100%	23	100%
Camp 23 Shamlapur	0	0%	3	100%
Camp 24 Leda	3	100%	56	100%
Camp 25 Ali Khali	0	0%	9	100%
Camp 26 Nayapara	0	0%	15	100%
Camp 27 Jadimura	0	0%	4	100%
Nayapara RC	0	0%	15	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

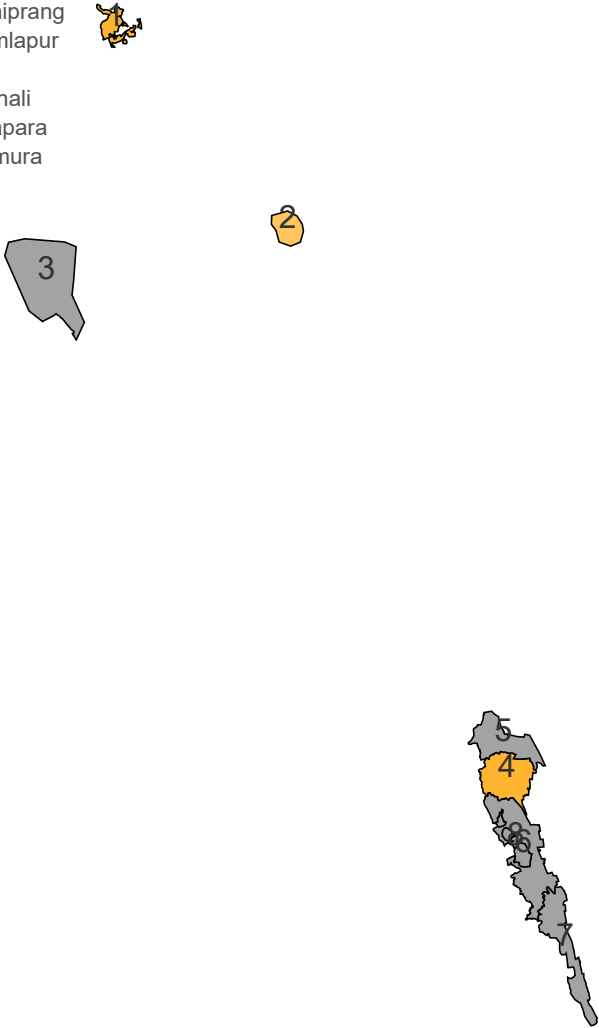




Table 11 | Performance by type of alert

Event	W11		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	0	0%	49	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	8	100%
Meningitis	0	0%	6	100%
Haem. fever (susp.)	0	0%	5	100%
NNT	0	0%	1	100%
Unexp. fever	0	0%	23	100%
AWD	0	0%	15	100%
ARI	0	0%	17	100%
AJS	0	0%	13	100%
Varicella (Susp.)	0	0%	87	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	1	100%	58	100%

Table 12 | Risk assessment

W11	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  
Welfare  
Bangladesh



World Health  
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HEALTH SECTOR  
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Global  
**EWARS**

# Bangladesh

## Rohingya Emergency Response

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

Annex W11 2023



Ministry of Health and Family  
Welfare Bangladesh



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Organization



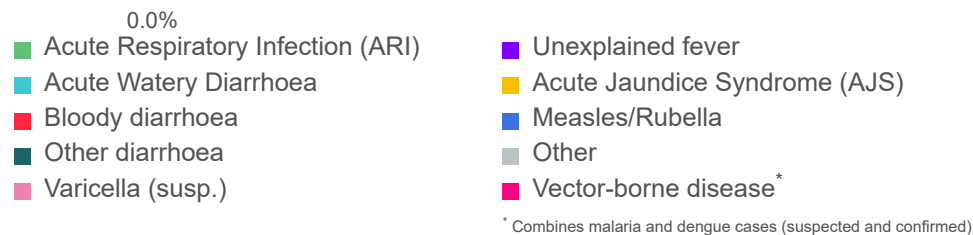
HEALTH SECTOR  
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# Proportional morbidity

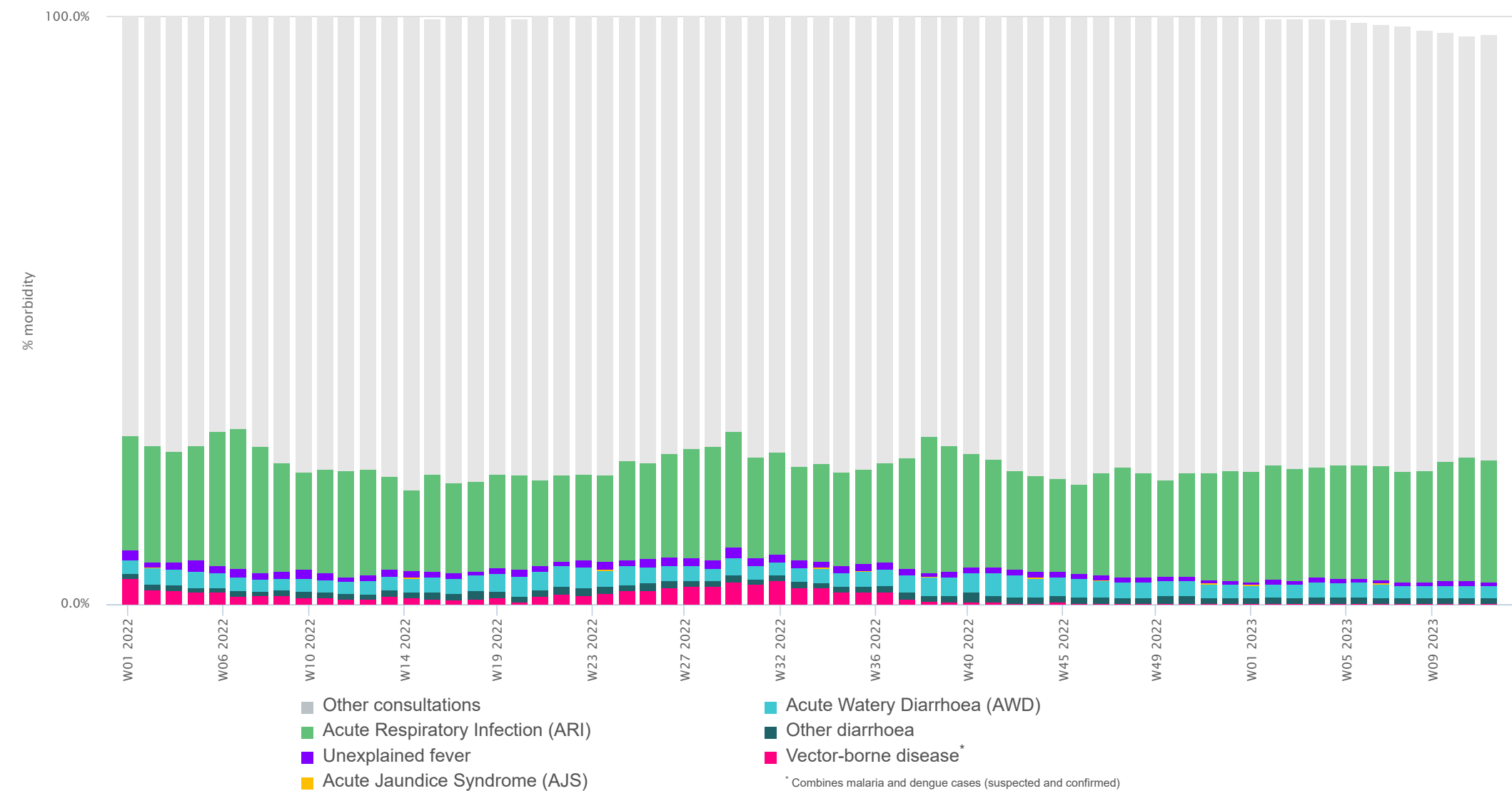
**Figure 1 | Proportional morbidity (W11 2023)**



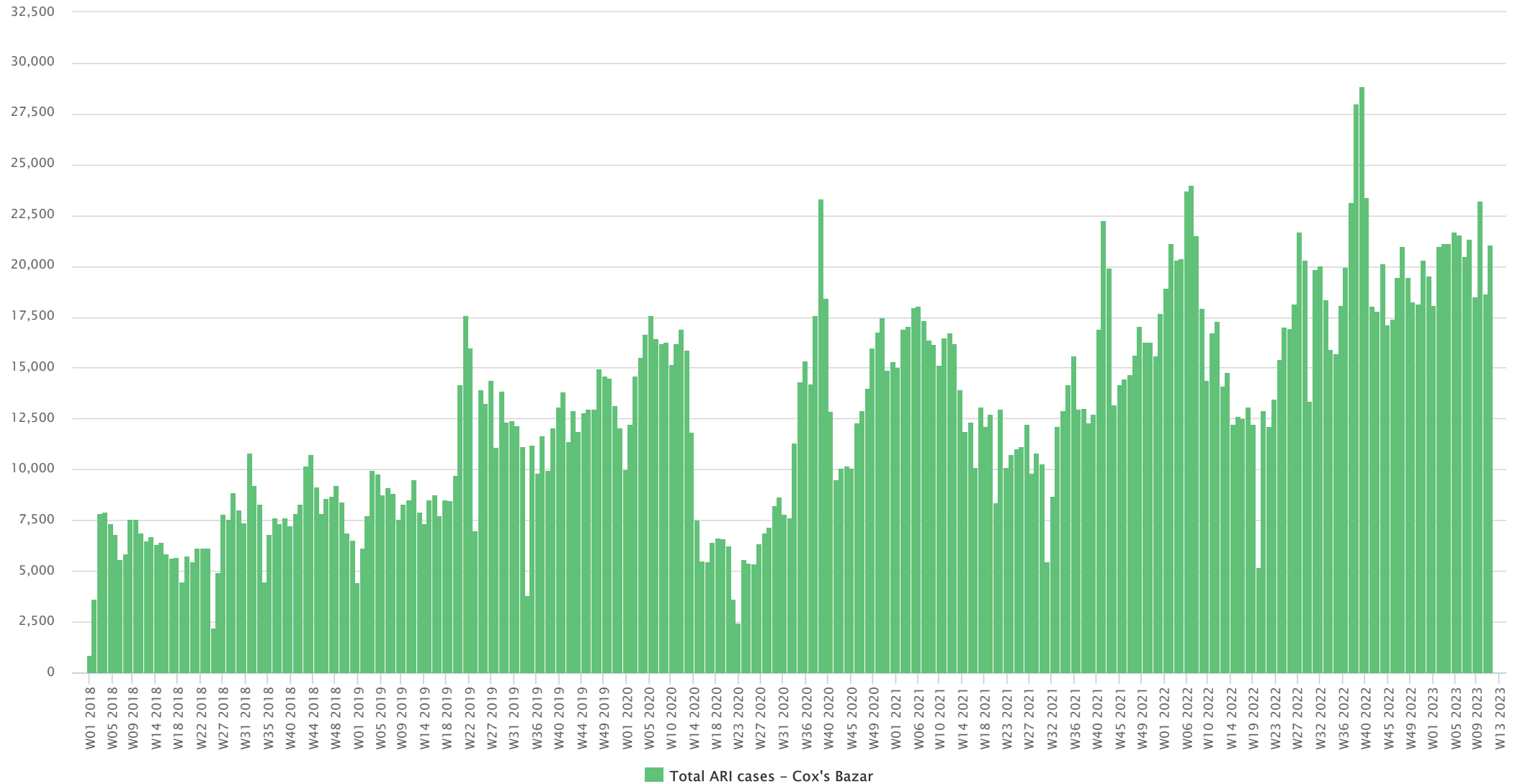
Disease	W11		2023	
	# cases	% morbidity	# cases	% morbidity
AWD	2,236	2.1%	27,898	2.3%
Bloody diarr.	209	0.2%	3,080	0.2%
Other diarr.	1,103	1.0%	13,596	1.1%
Susp. Varicella	3,060	2.9%	17,296	1.4%
ARI	21,745	20.6%	241,397	19.5%
Measles/Rub.	25	0.0%	187	0.0%
AFP	0	0.0%	13	0.0%
Susp. menin.	6	0.0%	43	0.0%
AJS	17	0.0%	224	0.0%
Susp. HF	1	0.0%	49	0.0%
Neo. tetanus	1	0.0%	1	0.0%
Adult tetanus	0	0.0%	3	0.0%
Malaria (conf.)	5	0.0%	19	0.0%
Malaria (susp.)	37	0.0%	506	0.0%
Dengue (conf.)	99	0.1%	939	0.1%
Dengue (susp.)	32	0.0%	287	0.0%
Unexpl. fever	694	0.7%	8,615	0.7%
Sev. Malnut.	54	0.1%	466	0.0%
Inj./Wounds	2,305	2.2%	27,114	2.2%
Other	73,955	70.0%	894,475	72.3%
<b>Total</b>	<b>105,016</b>	<b>100%</b>	<b>1,237,435</b>	<b>100%</b>

# Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W11)

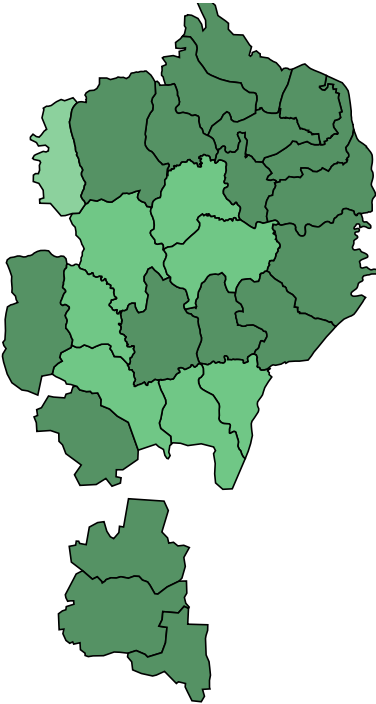


**Figure 3** | Trend in number of cases over time (W38 2017 - W11 2023)



Map 1 | Map of cases by camp (W11 2023)

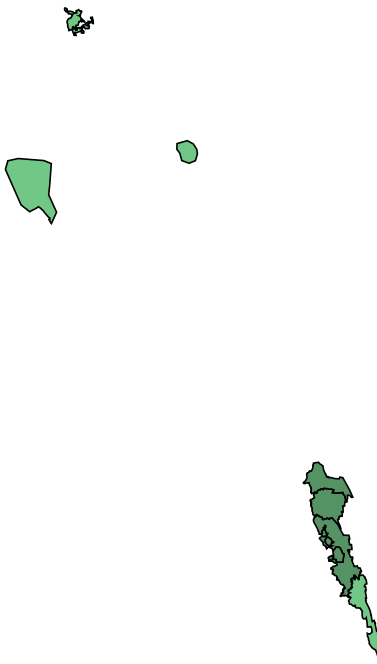
a. Ukhia | Number of cases



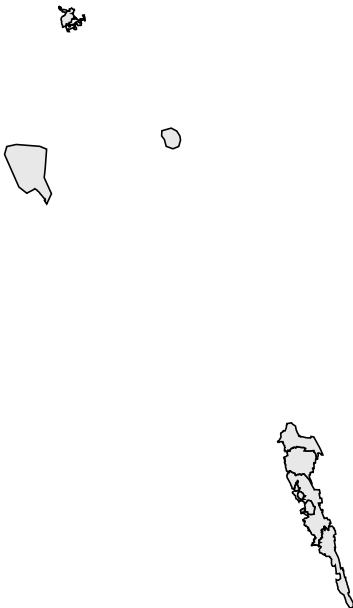
b. Ukhia | Number of alerts



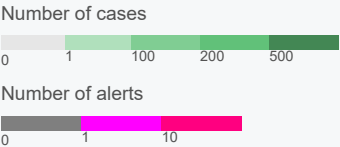
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W11 2023)

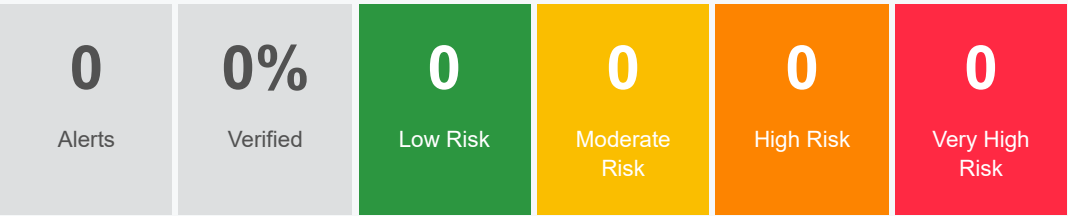
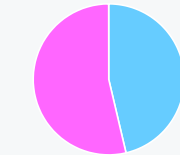
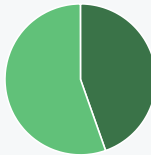


Figure | % sex



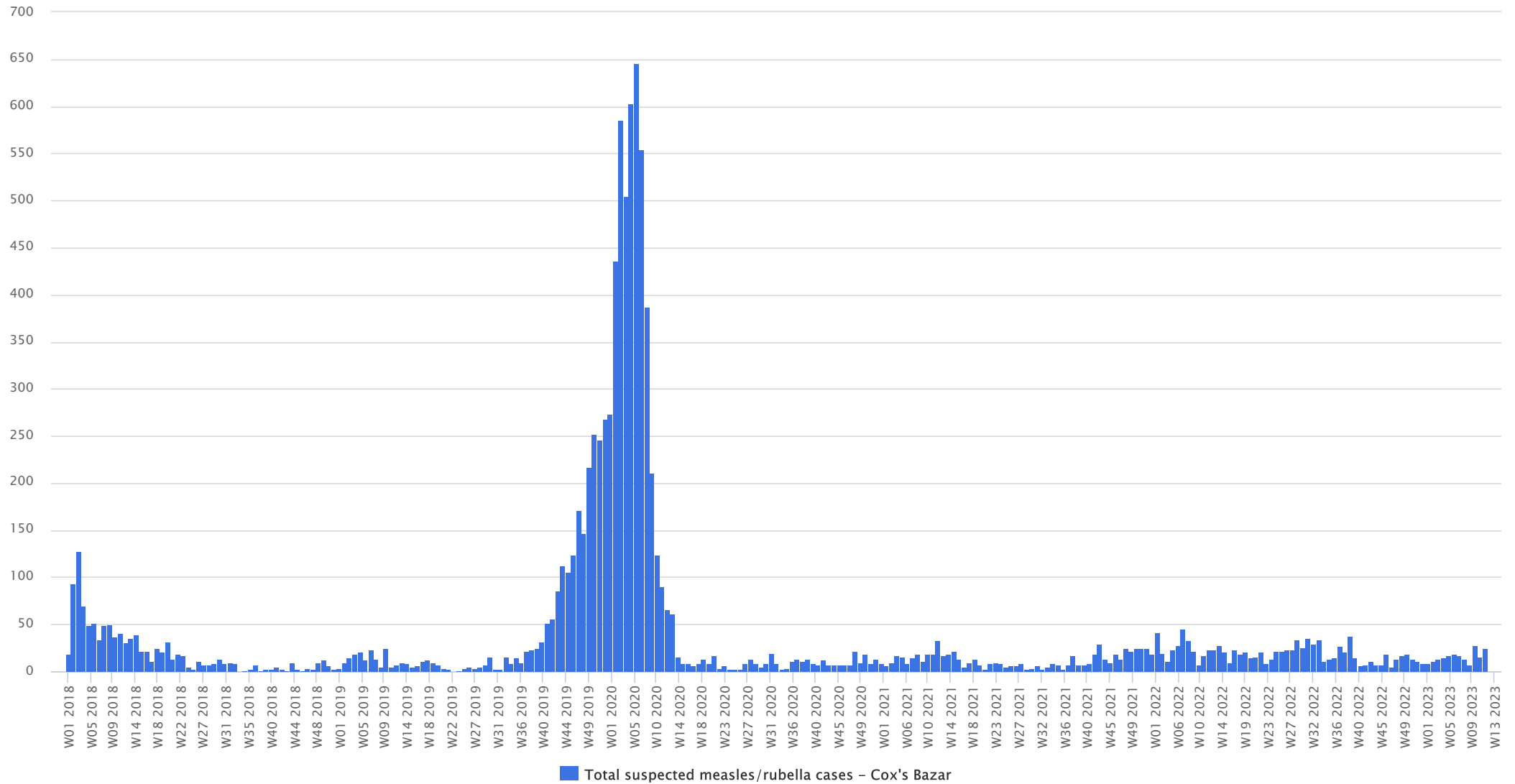
Male Female

Figure | % age



>=5 < 5

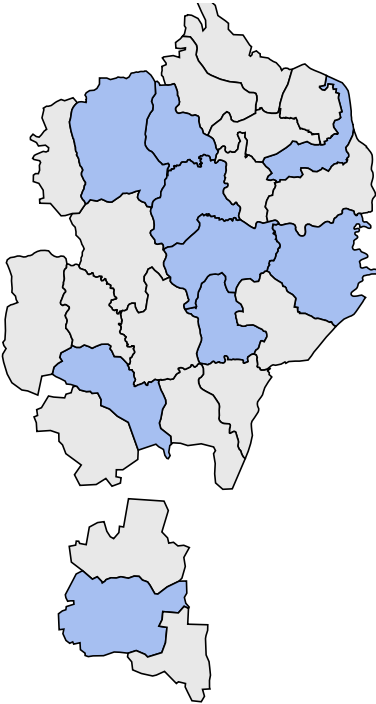
**Figure 4** | Trend in number of suspected cases over time (W38 2017 - W11 2023)





Map 2 | Map of cases by camp (W11 2023)

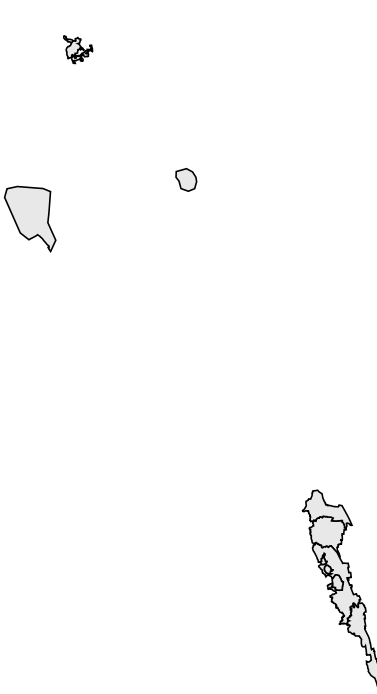
a. Ukhia | Number of cases



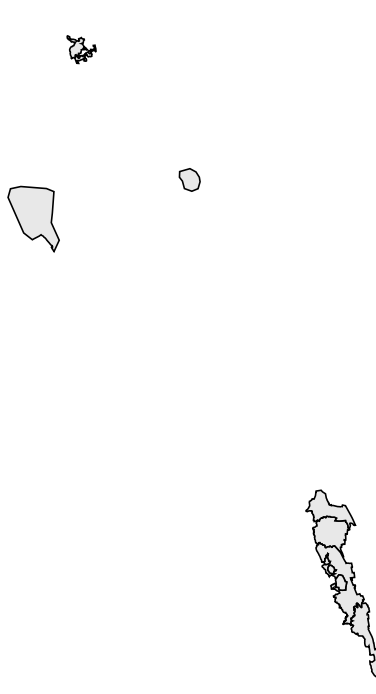
b. Ukhia | Number of alerts



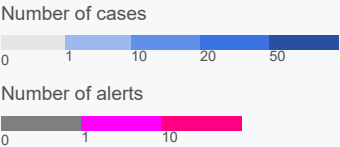
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold  
1 case. Source: IEDCR

Alert management (W11 2023)

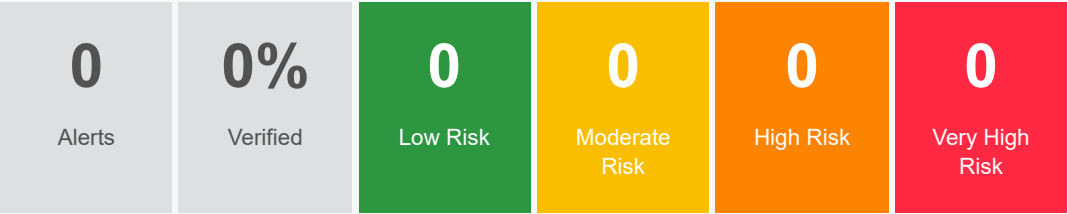


Figure | % sex

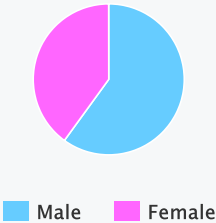
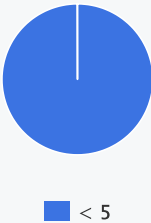
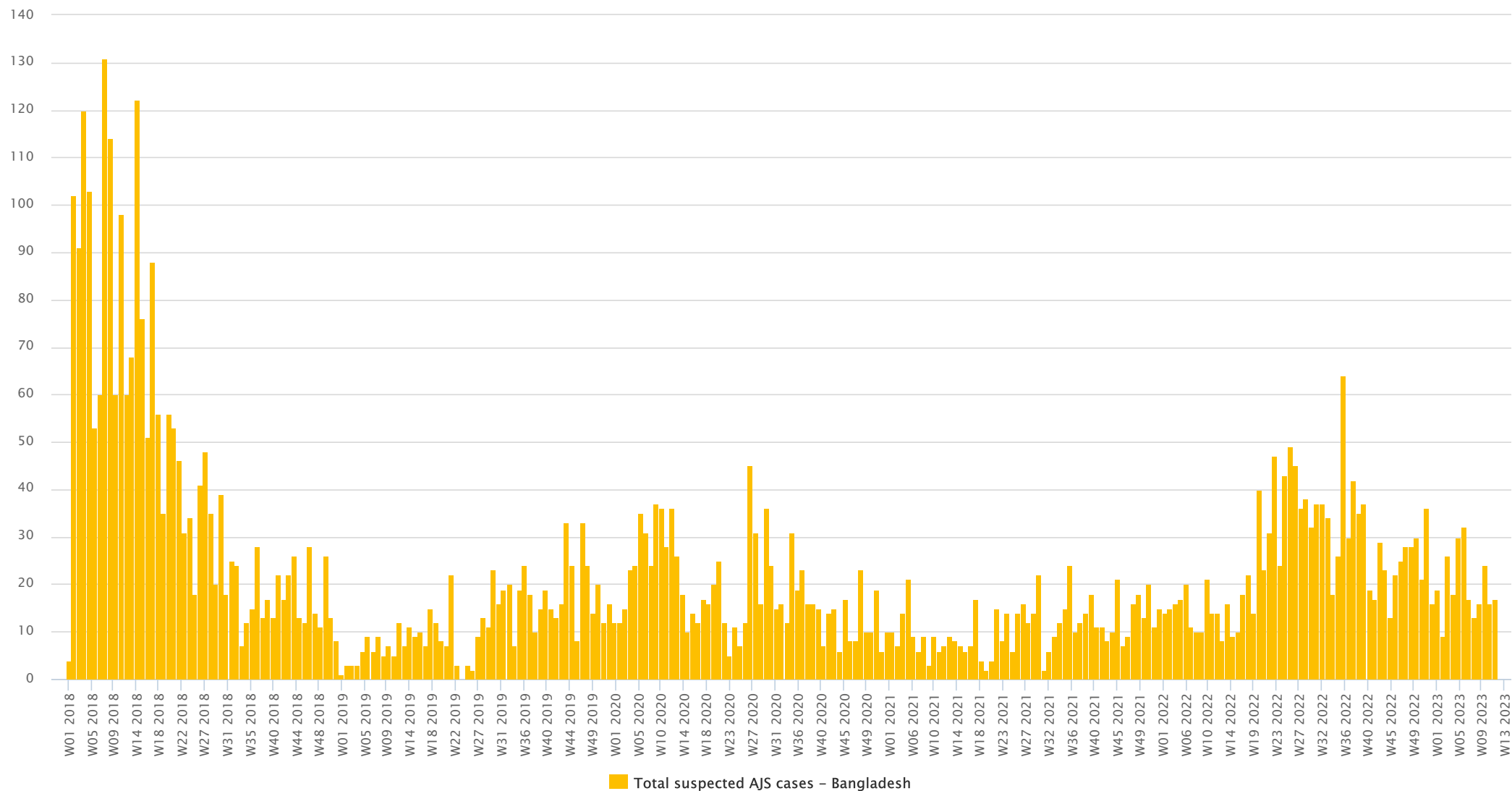


Figure | % age

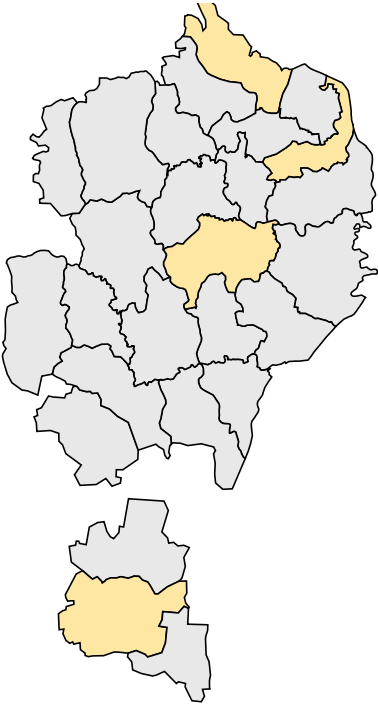


**Figure 5** | Trend in number of cases over time (W38 2017 - W11 2023)



Map 3 | Map of cases by camp (W37 2017 - W11 2023)

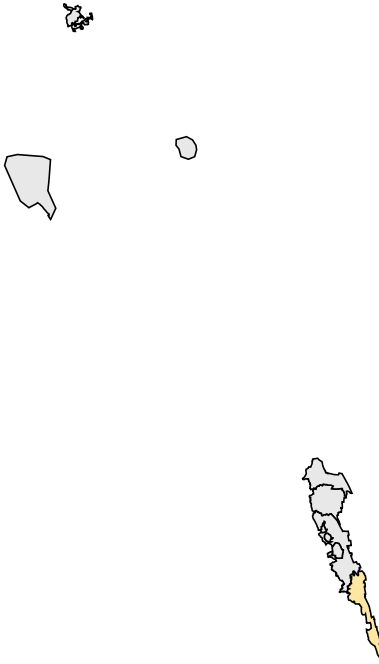
a. Ukhia | Number of cases



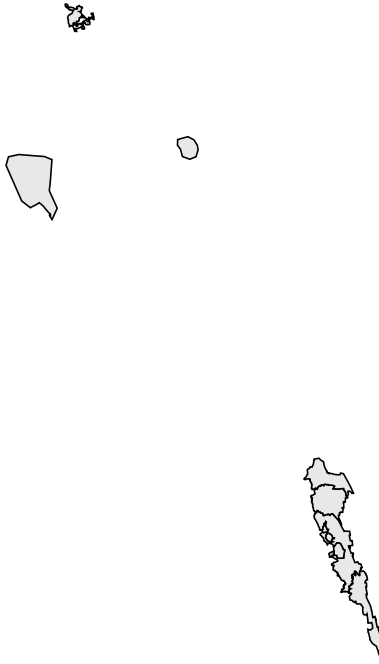
b. Ukhia | Number of alerts



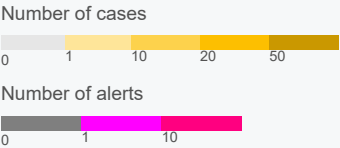
c. Teknaf | Number of cases



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 (W11 2023)

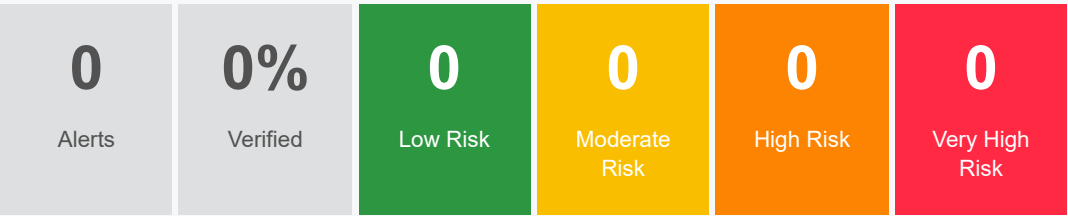


Figure | % sex

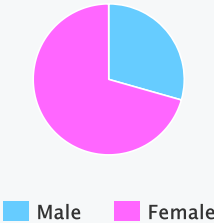
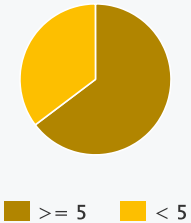
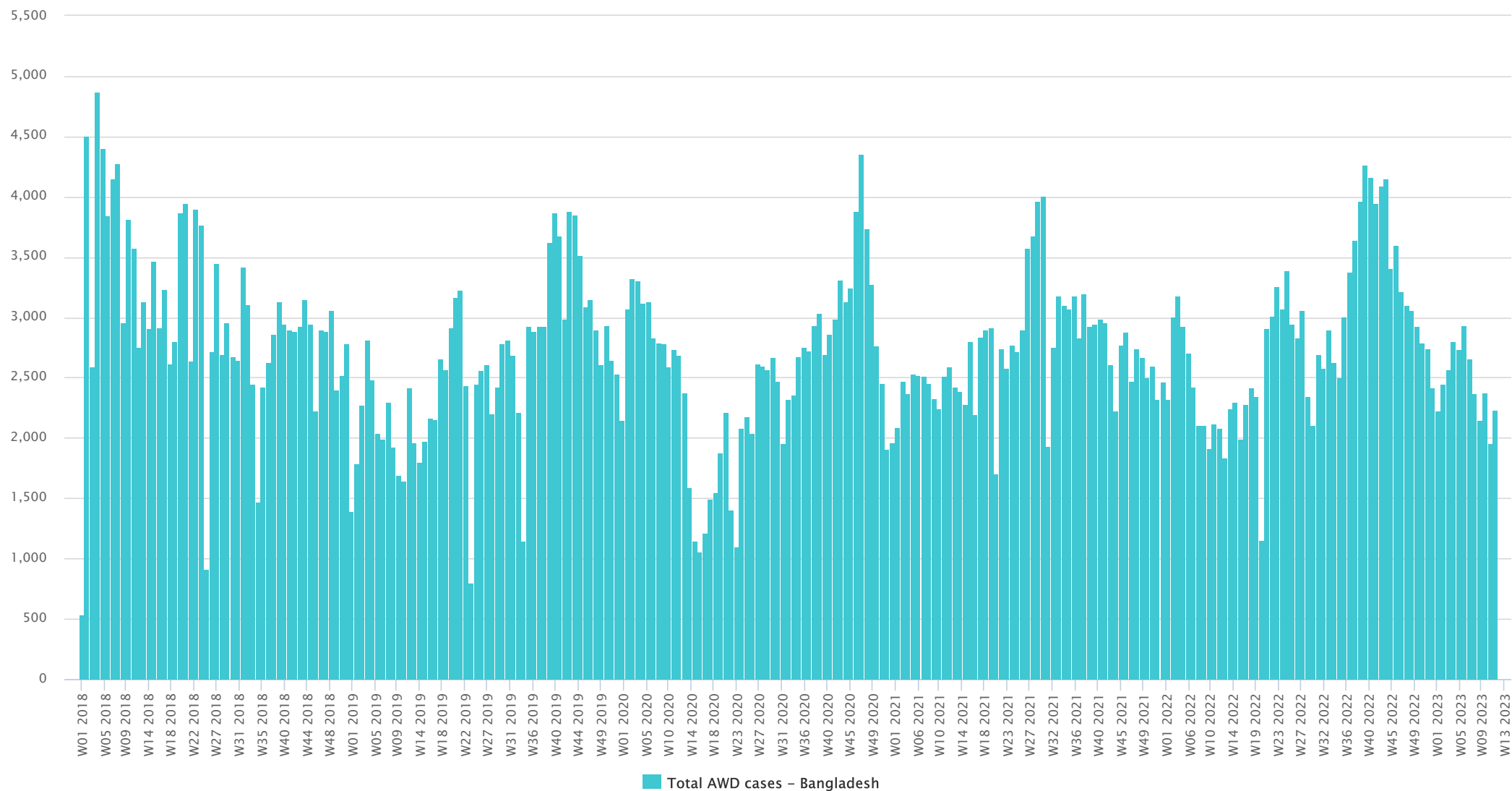


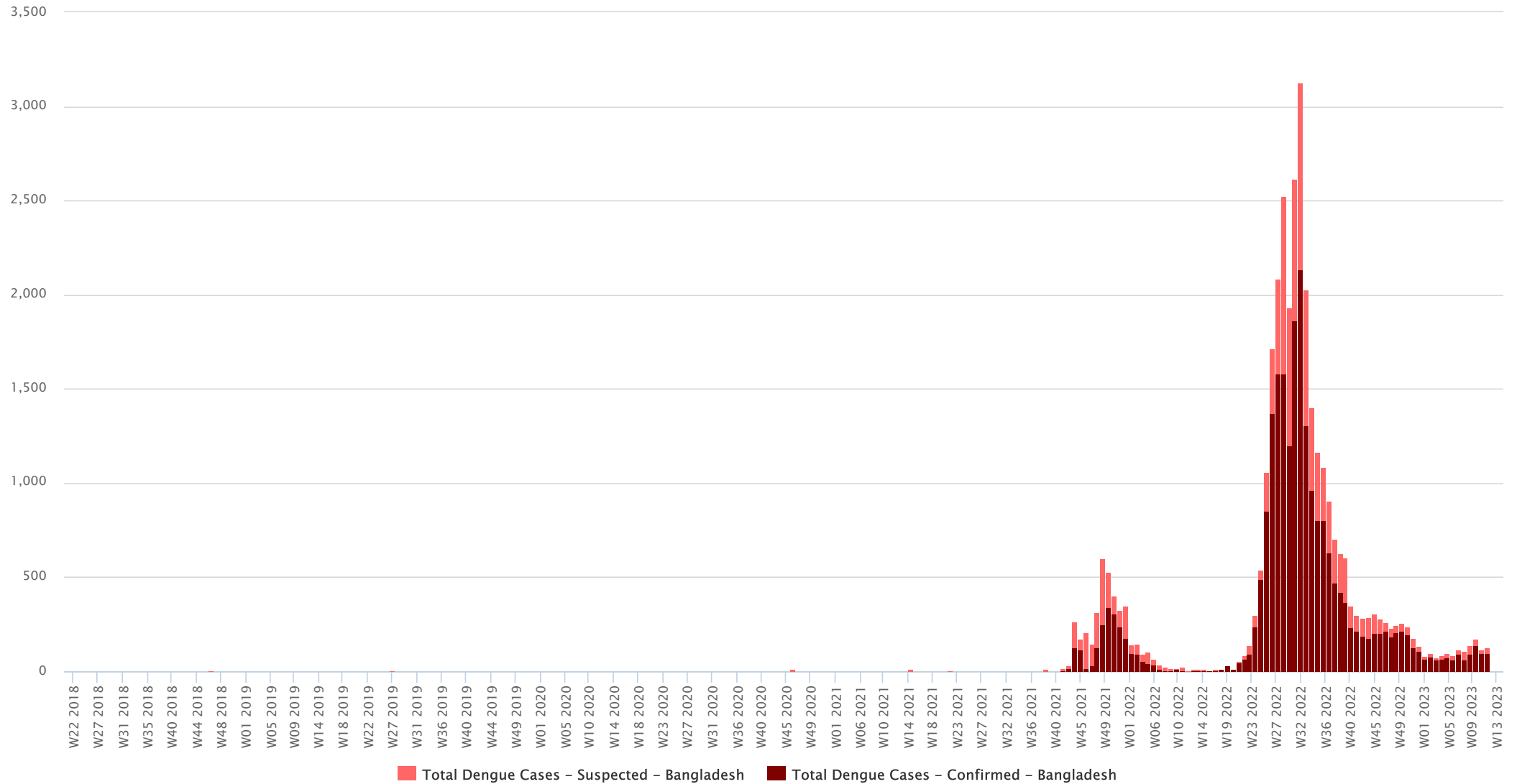
Figure | % age



**Figure 6** | Trend in number of cases over time (W38 2017 - W11 2023)

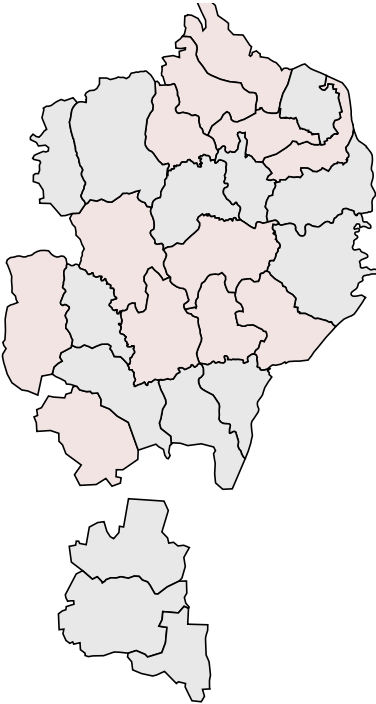


**Figure 7** | Trend in number of cases over time (W38 2017 - W11 2023)



Map 4 | Map of cases by camp (W37 2017 - W11 2023)

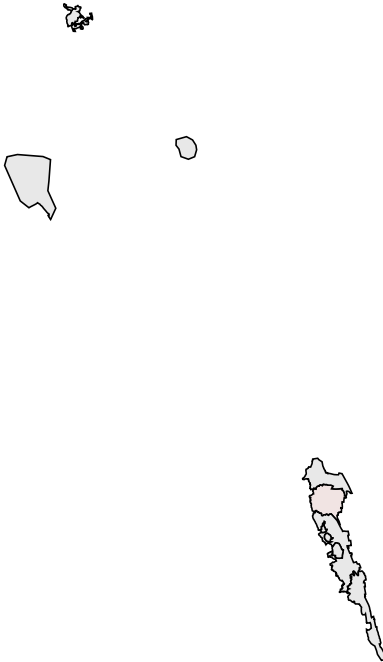
a. Ukhia | Number of cases



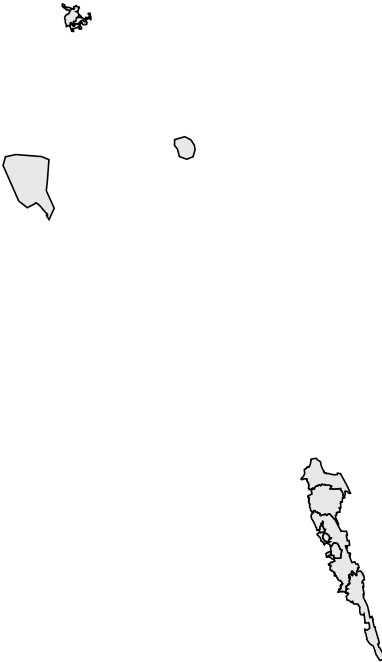
b. Ukhia | Number of alerts



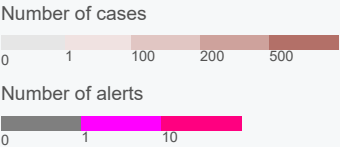
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W11 2023)

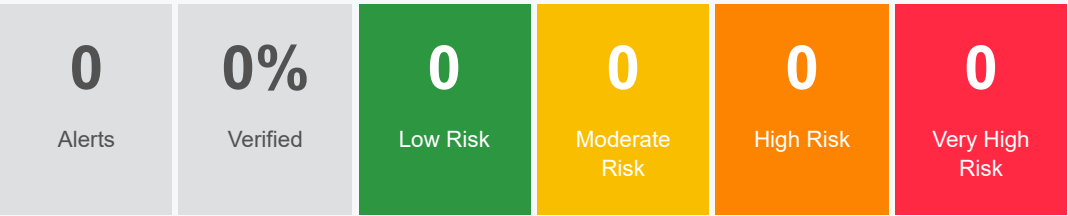


Figure | % sex

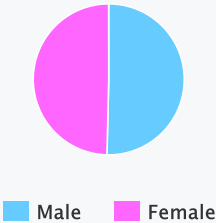
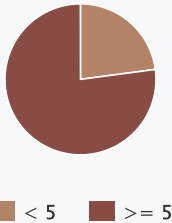
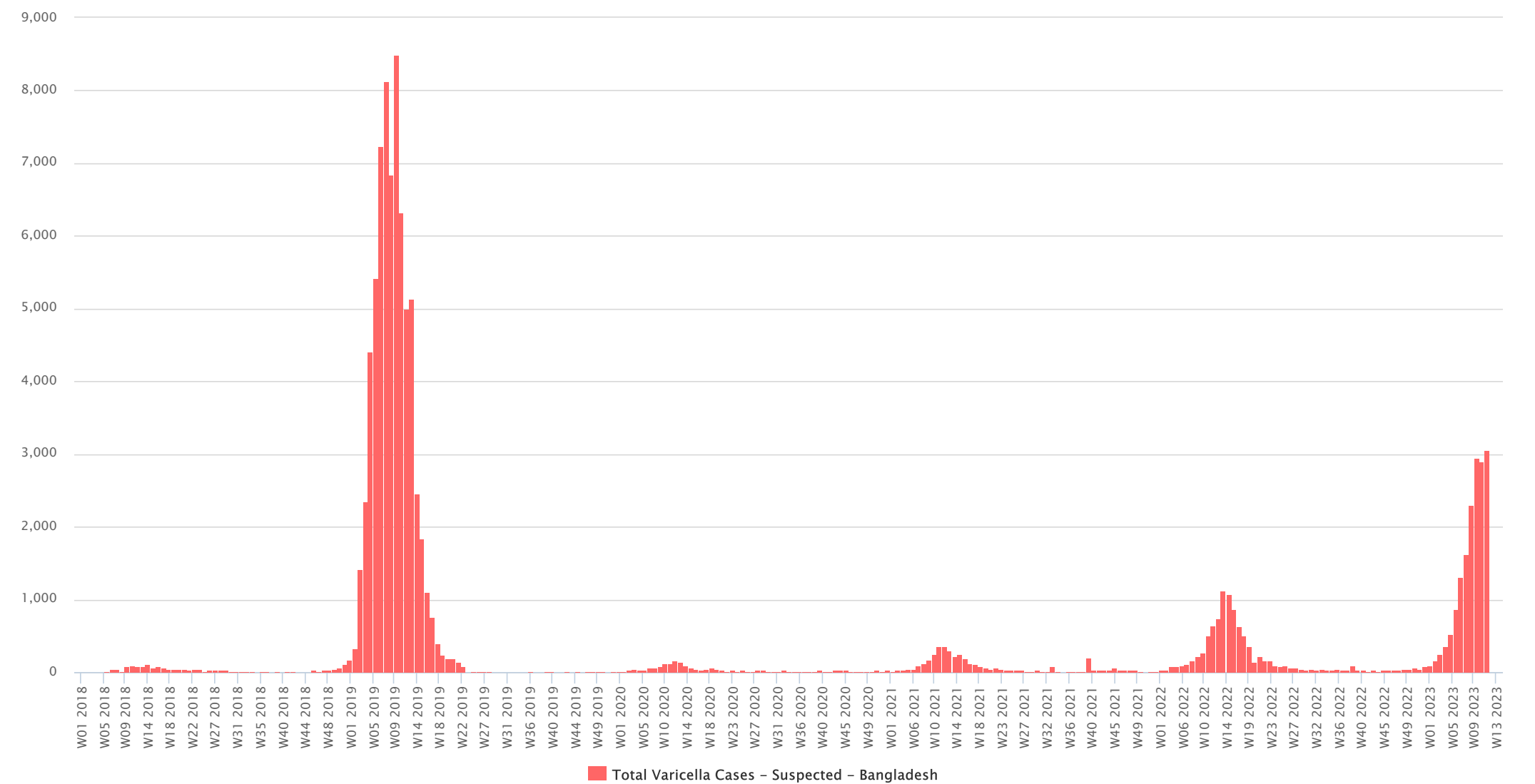


Figure | % age

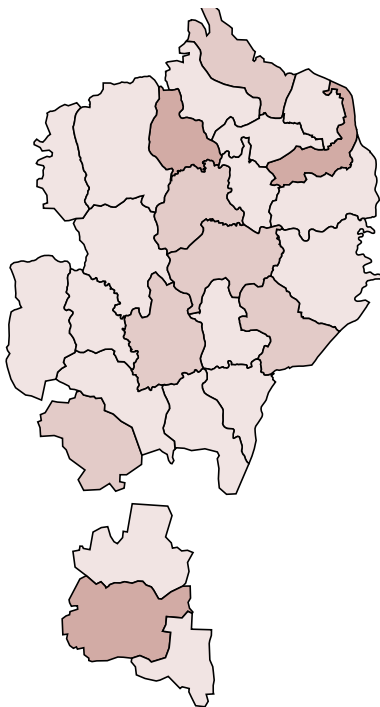


**Figure 7** | Trend in number of cases over time (W38 2017 - W11 2023)

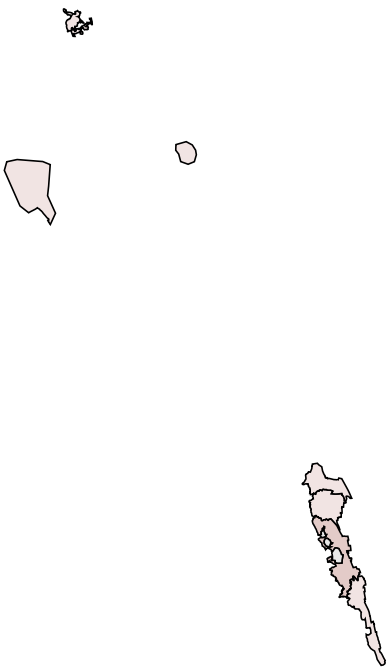


Map 4 | Map of cases by camp (W37 2017 - W11 2023)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

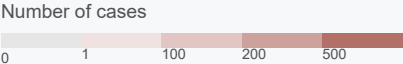


Figure | % sex

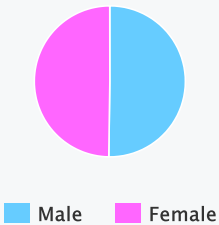
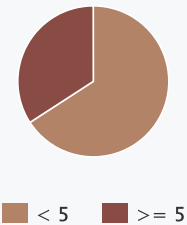


Figure | % age





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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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