



Epidemiological Highlights

Week 13 (26 Mar-1 Apr) 2023



World Health
Organization

EWARS Reporting Updates

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

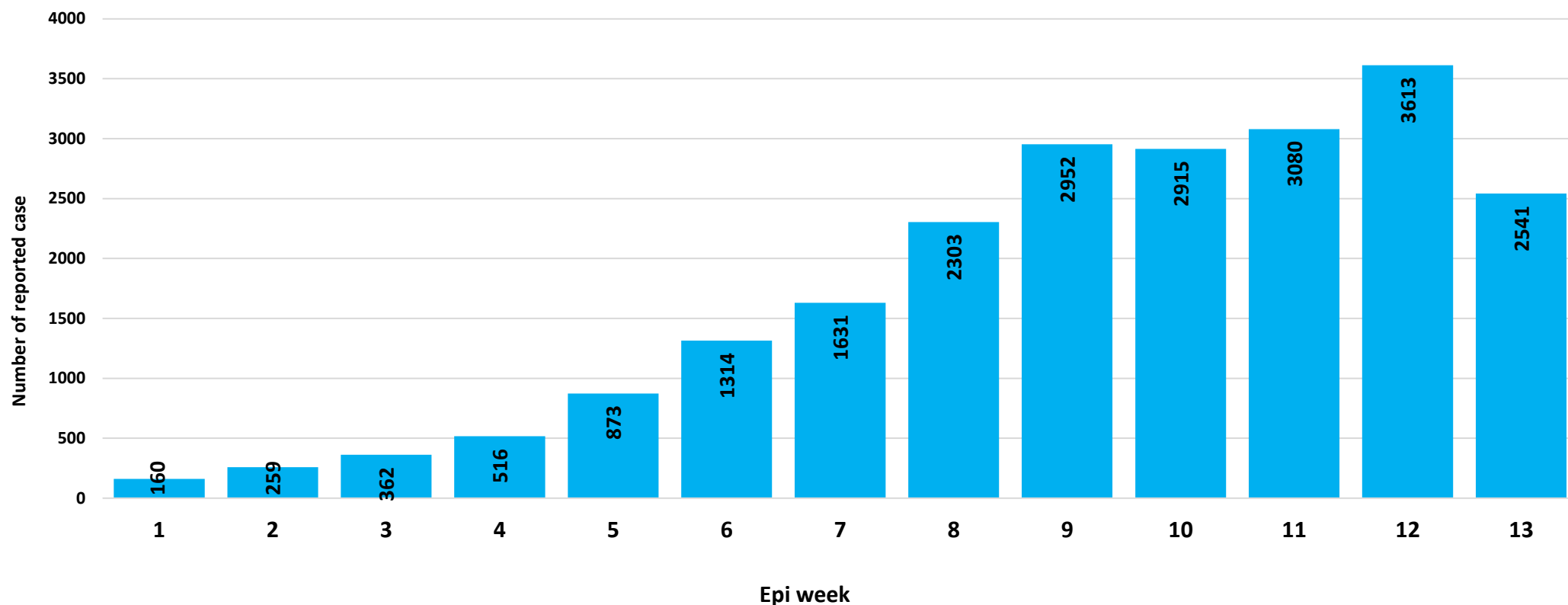
- Of those 137 weekly reports were received on time in week 13 in 2023
- Timeliness and completeness of weekly reporting were 86% which is more than the 80% weekly threshold
- Seventy-seven (77) alerts were triggered
- All alerts were reviewed and verified by the WHO EWARS team; this is a 10% increase from the previous week (69 alerts in week 12, 2023)

Highlights: Morbidities and Mortalities

- Acute Respiratory Infections (18.5%), Suspected Varicella (3.1%) and Acute Watery Diarrheal Diseases (2.4%) 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, 25 cases of which none is probable COVID-19 Death, have been reported in 2023
- This Epi week, 4 new SARI deaths were reported, 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	25 (4)	0
2022	136	8
2021	96	15
2020	49	2

Varicella Update



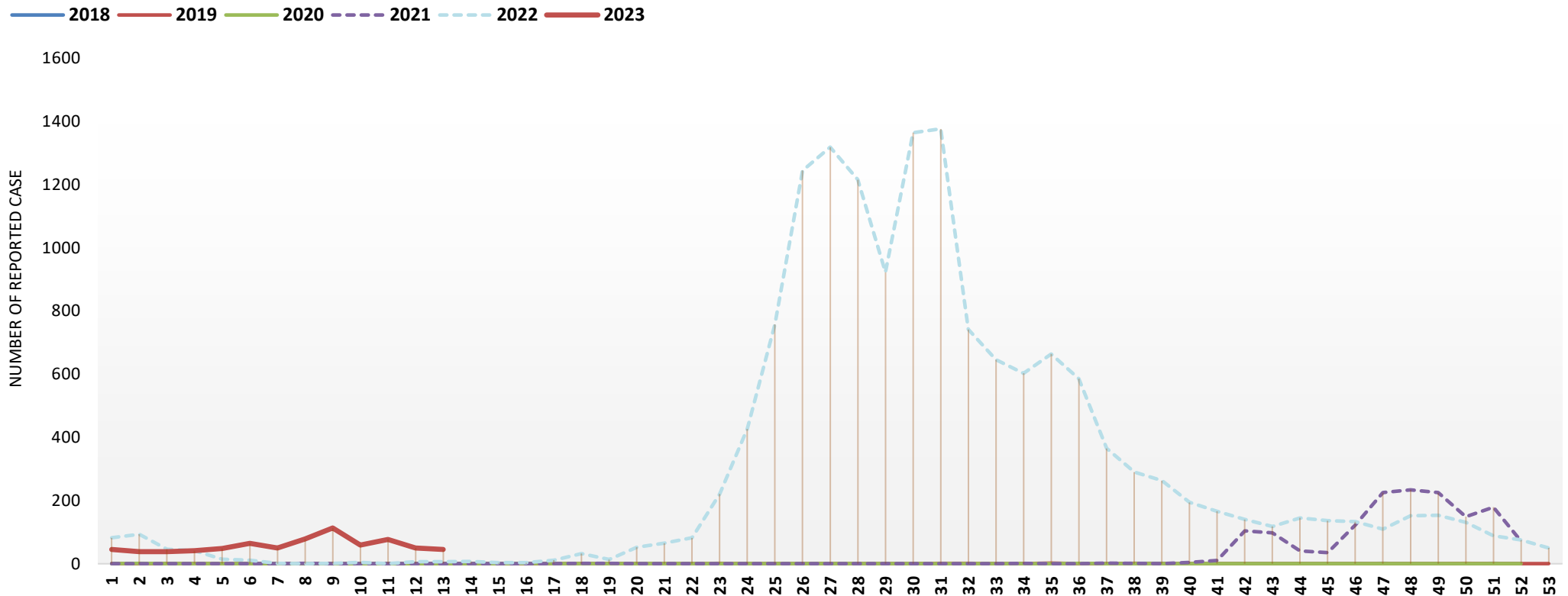
This Epi week 2541 Varicella suspected cases were reported

So far in 2023, a total of 22,483 cases have so far been reported and an exponential trend had been observed this season which is higher in comparison to the same time period in the previous years

This reporting week, Varicella contributes 3.1% proportional morbidity among total consultations. No fatalities have been recorded yet.

Dengue Surveillance Updates

Yearly Trends of Dengue case trend from 2018 – 2023 week 13



- ❑ Cumulative of 766 confirmed dengue cases and 2 death with a CFR 0.2% 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

Highlights: COVID-19 Surveillance Updates

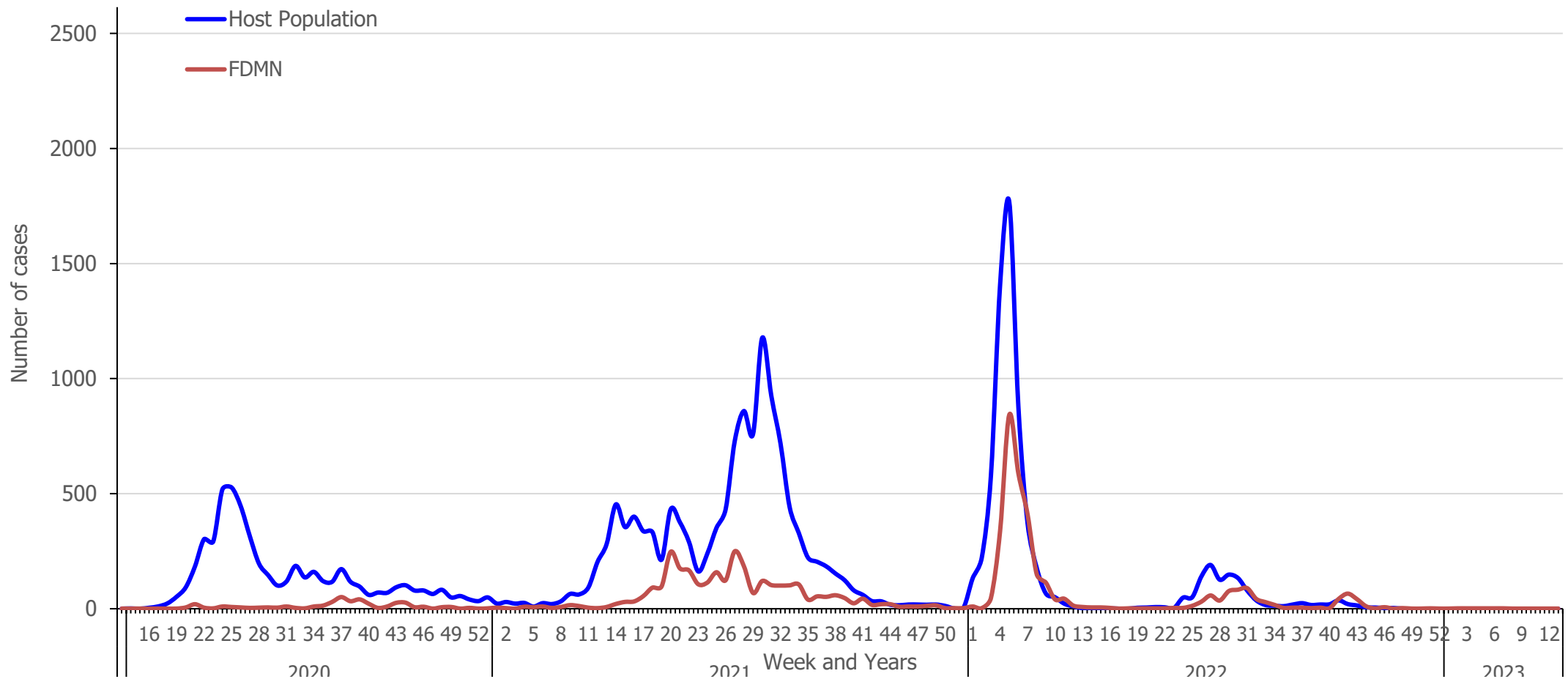
FDMN: Transmission under control

- 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: Transmission under control

- No (0) new confirmed cases were reported this week like **last 13 weeks(so far in 2023)**, and 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%)

Dengue Surveillance Updates



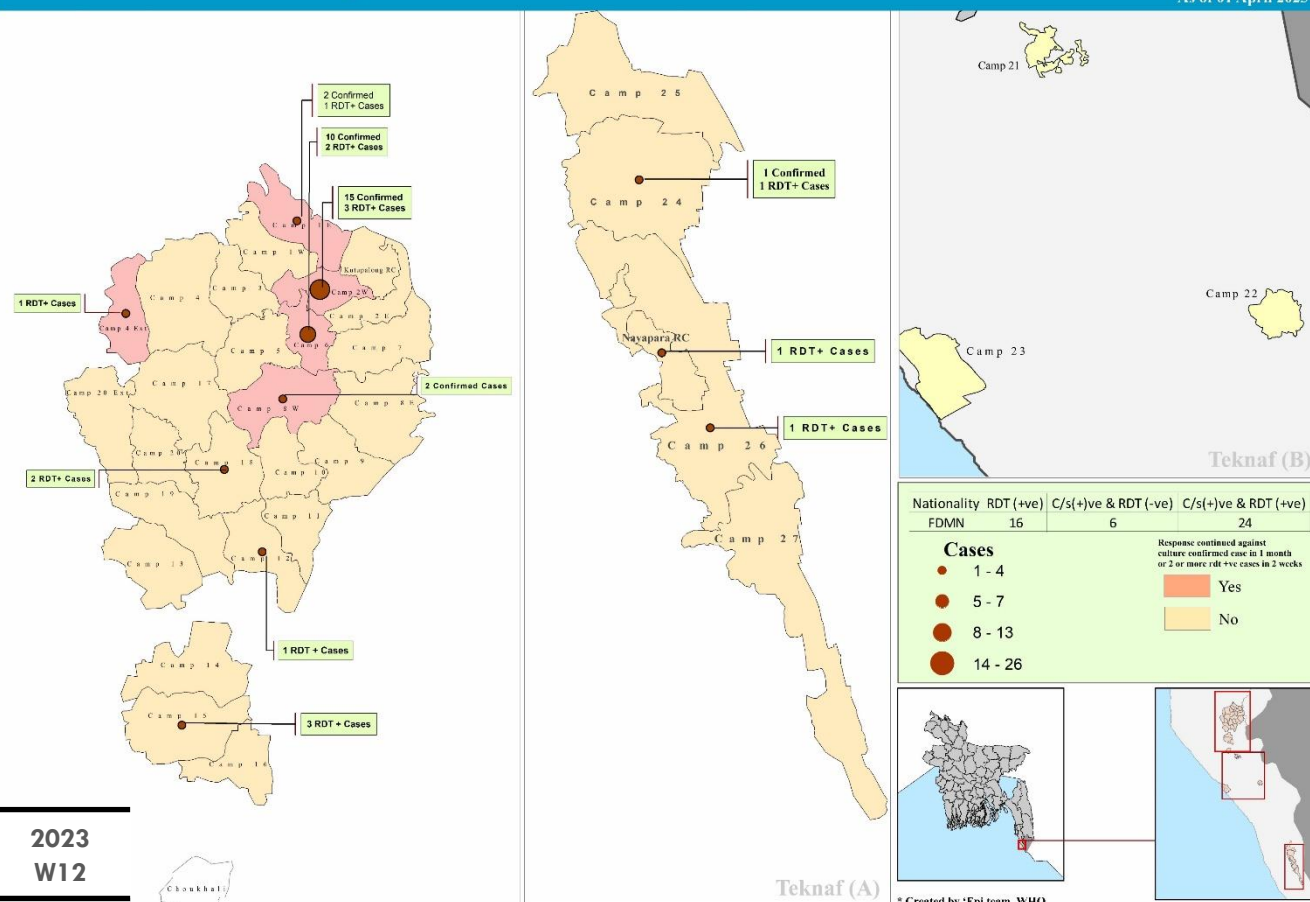
The COVID-19 transmission appears to be under control in population given that there is sustained zero weekly case loads since the year began among host population and for seven weeks now among FDMN

Cholera/AWD Surveillance Updates

- In this week, there are 35 RDT-positive AWD/Cholera suspects and 31 Culture confirmed Cholera cases were reported from samples sent for testing.
- A total of 59 cases of which 19 RDT-positive AWD/cholera suspected cases and 40 culture-confirmed Cholera cases have so far been reported in (Epi week 1-13) 2023.
- Cumulatively there are 921 RDT AWD cases/Cholera suspects have been reported while 442 cases were culture-confirmed since transmission in 2018.

Distribution of RDT positive and culture confirmed for Cholera cases in FDMN 2023

As of 01 April 2023



	2018	2019	2020	2021	2022	2023 W12
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RDT positive AWD cases & culture confirmed for Cholera cases

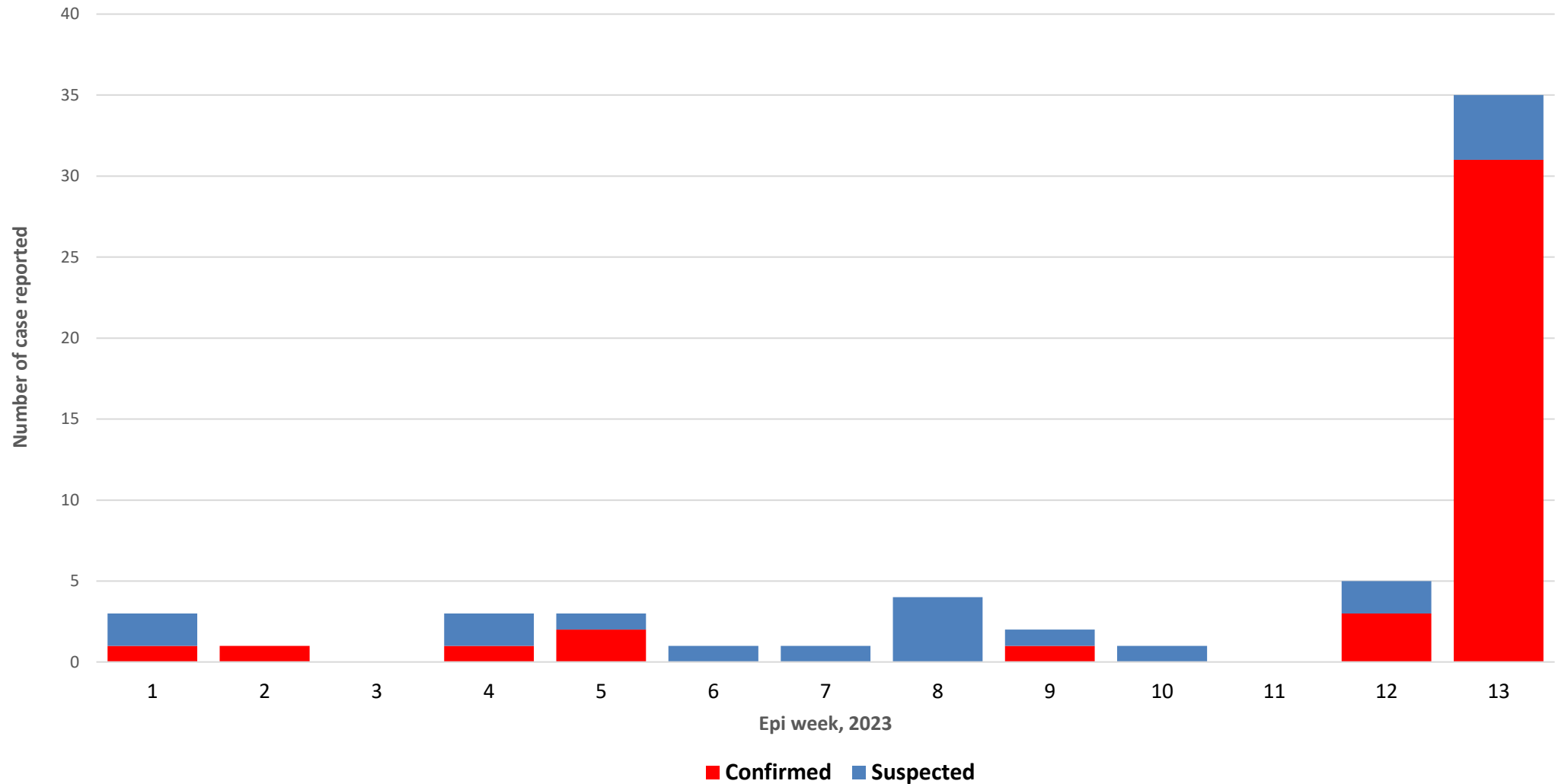
49	258	28	357	170	59
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Culture confirmed for Cholera

7	184	5	136	70	40
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Cholera/AWD Surveillance Updates

Epi curved of the cholera from week 1-13, 2023 (n=59)



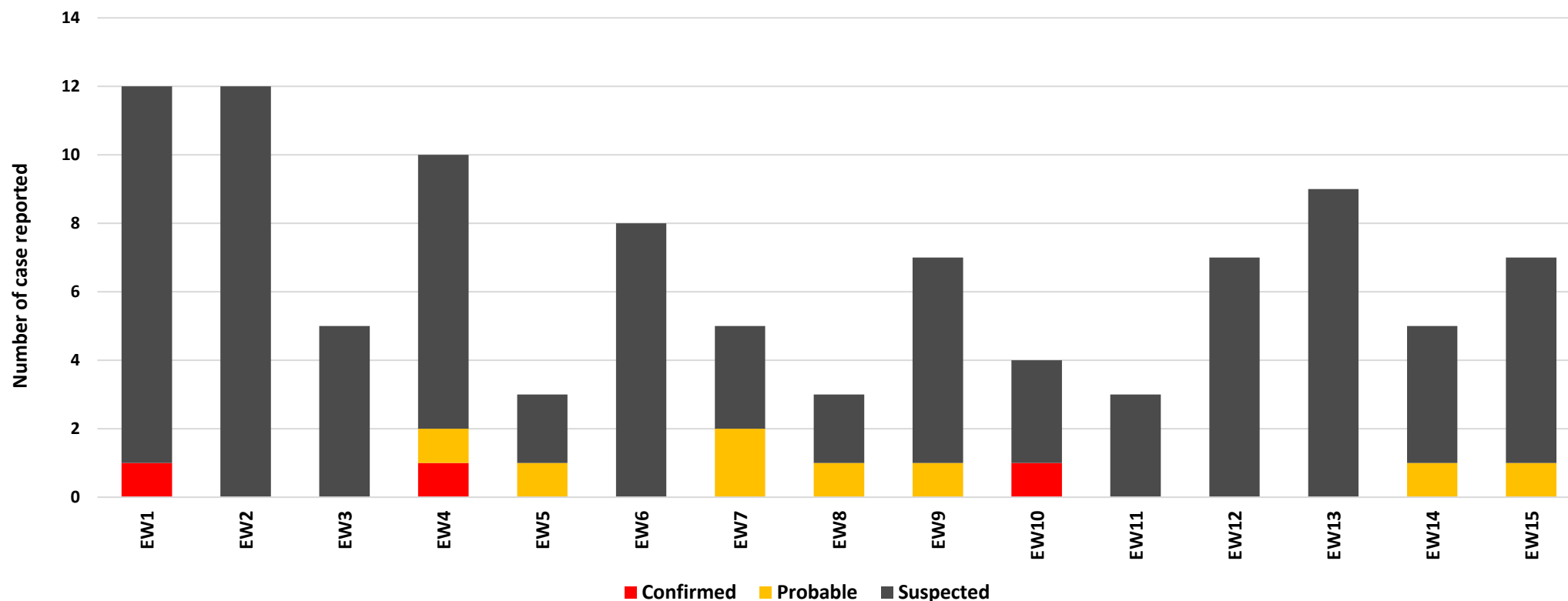
Diphtheria Surveillance Updates

- Nine (9) suspected diphtheria cases were reported in go.data in this Epi week
- The last confirmed case was reported on 5 March 2023
- 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	56	3
Probable	1154	1555	60	9	29	30	6
Suspected	1796	3549	523	198	118	349	79
Death	30	14	3	0	5	2	0

Trends of Diphtheria cases

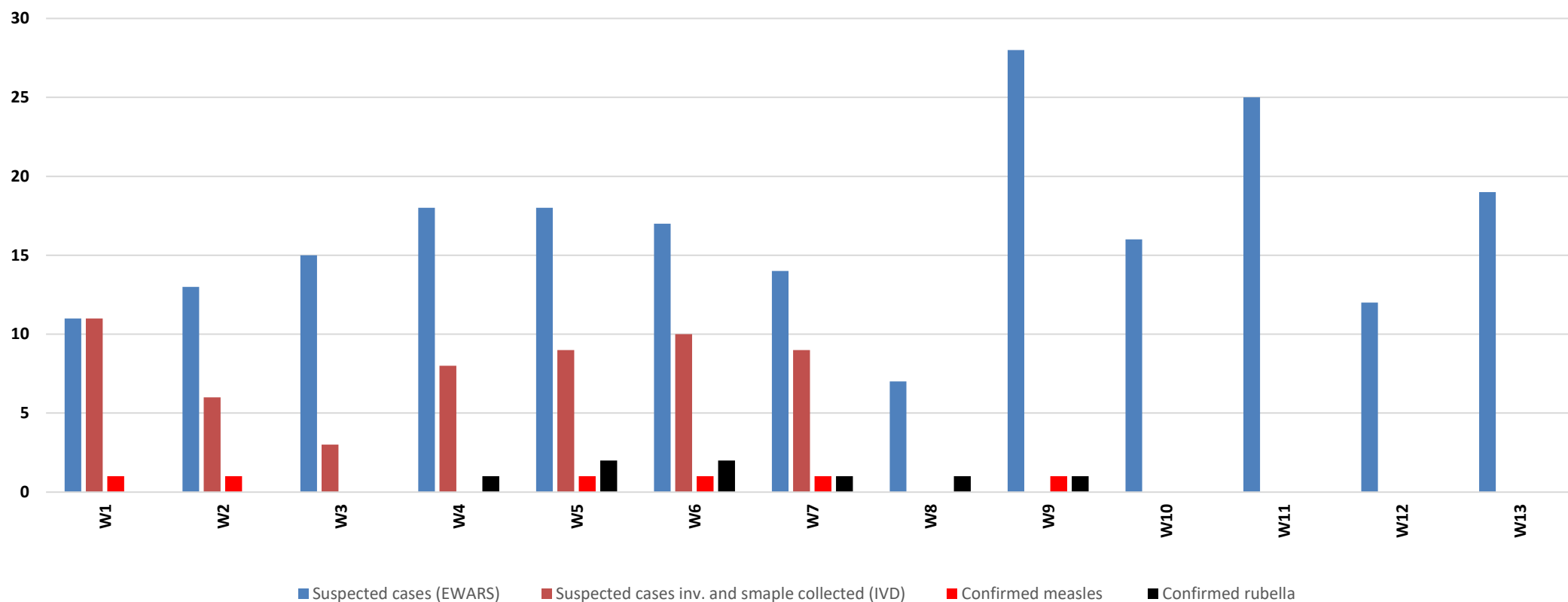
Total number of diphtheria case reported in EWARS from week 1-13, 2023



- Persistent transmission continues to be reported, Diphtheria vaccination campaign concluded in all 33 camps with 92% coverage
- **Nine (9) suspected cases** were reported this Epi week
- There are 88 diphtheria cases (3 confirmed 6 probable and 79 suspected cases) and zero fatalities so far reported in 2023
- In 2022 total of 435 cases (56 confirmed including 2 deaths, 30 probable, and 349 suspected cases) have so far been reported 2022

Epi Curve of Suspected Measles Cases

Weekly suspected measles cases reported through EWARS, IVD and Lab, 2023 (W1-13)



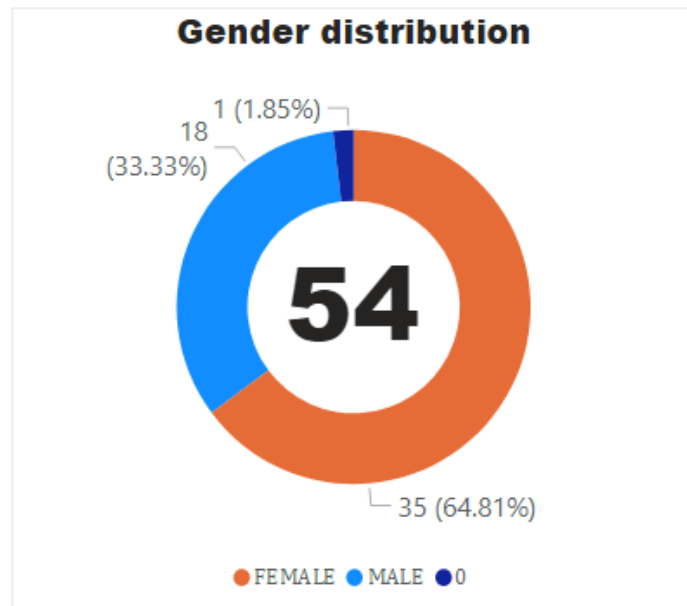
- Total of 213 cases were reported through EWARS, 58 cases were reported through IVD case-based surveillance of which 14 were confirmed through the lab (IgM positive)
- Six (06) confirmed cases were males and 8 were rubella confirmed
- Epidemiology and IVD units undertaking investigations

Community-based Mortality surveillance updates Epi week 13 2023

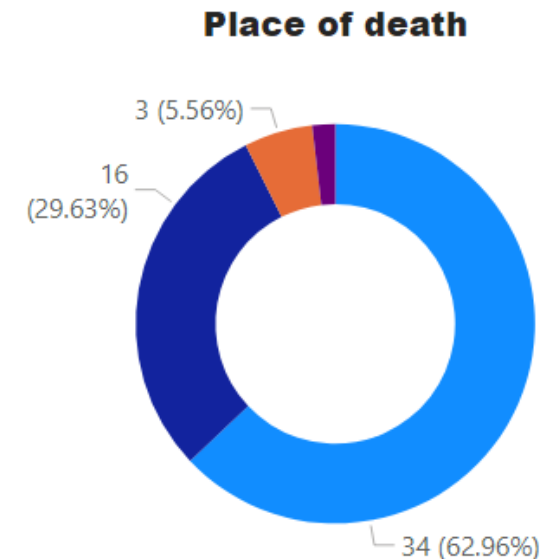
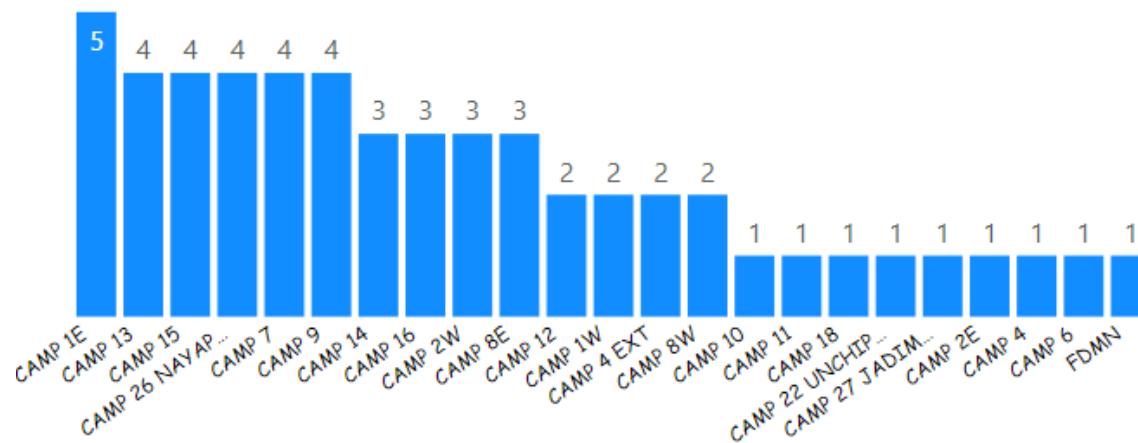
Probable causes of death	Epi week 13	In 2023
Still Birth	4 (7%)	88 (11%)
Neonatal Death (<28 days old)	8 (15%)	77 (10%)
Infectious Disease	1 (2%)	21 (3%)
Severe Acute Respiratory Infection (SARI)	4 (7%)	18 (2%)
Injury	2 (4%)	18 (2%)
Maternal Death	1 (2%)	16 (2%)
Acute Malnutrition	--	2 (0%)
Other	34 (63%)	555 (70%)
Total	54 (100%)	795 (100%)

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

Community-based Mortality surveillance updates Epi week 13 2023

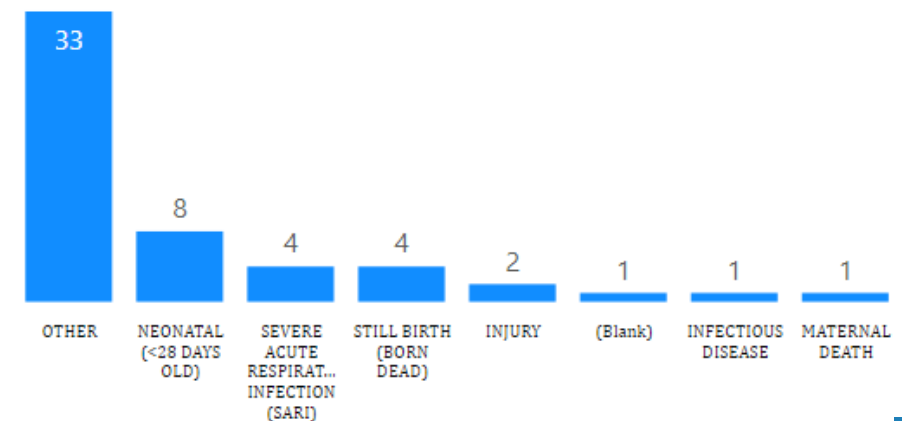


Distribution of deceased Camp



● HOME ● HEALTH FACILITY ● COMMUNITY/PUBLIC PLACE ● (Blank)

Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W13 2023



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



HEALTH SECTOR
COX'S BAZAR



Printed: 03:12 Sunday, 16 April 2023 UTC

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Sources of data

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

Highlights W13 2023

Table 1 | Coverage

#	%	
952,309	-	Estimated total Rohingya population ¹
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

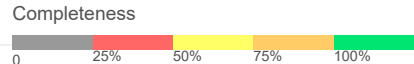
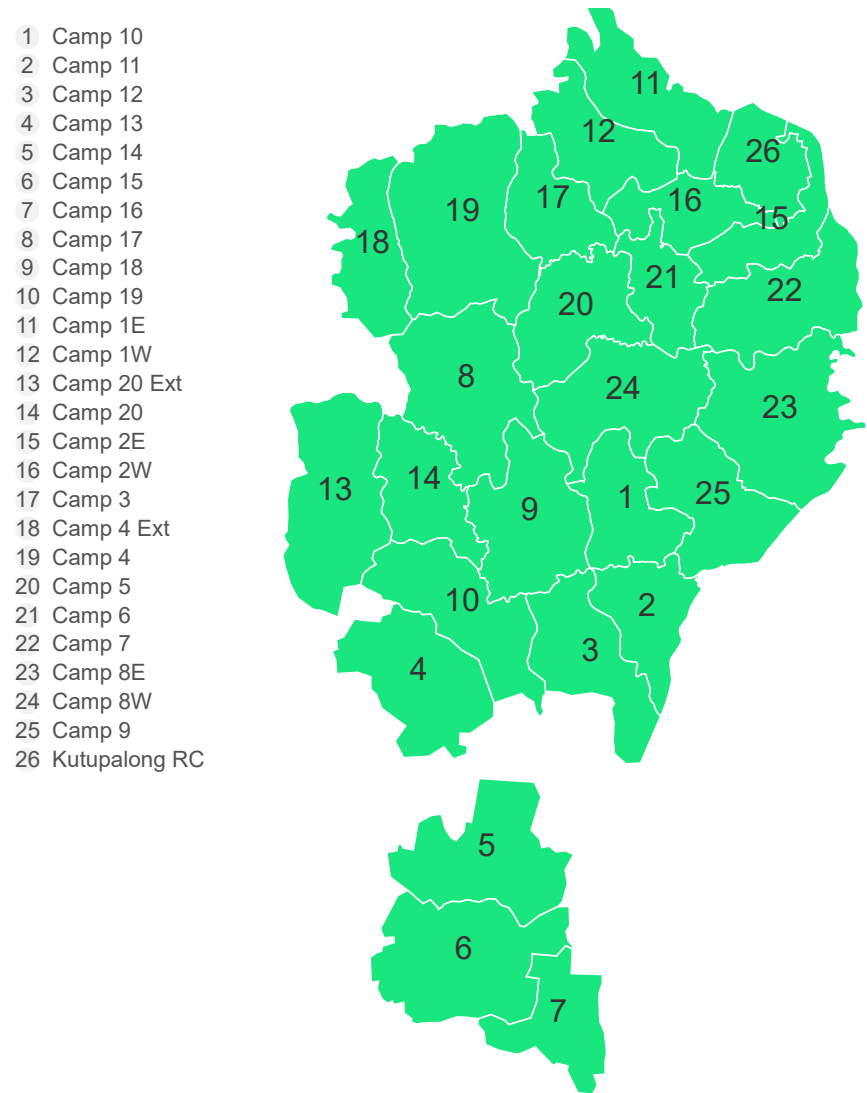
W13	Cumulative (2023)	
137	2201	Number of weekly reports received
86%	91%	Completeness
86%	90%	Timeliness

Table 3 Alert performance indicators

W13	Cumulative (2023)	
77	1,205	Total alerts raised
100%	100%	% verified
0%	0%	% auto-discarded
0%	0%	% undergoing risk assessment
0%	0%	% completed risk assessment

¹ Source: UNHCR. Bangladesh: Joint Government of Bangladesh- UNHCR Population Factsheet. 31 December 2021.

Map 1a | Ukhia completeness by camp



Map 1b | Teknaf completeness by camp

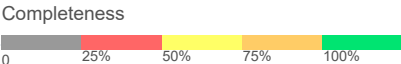
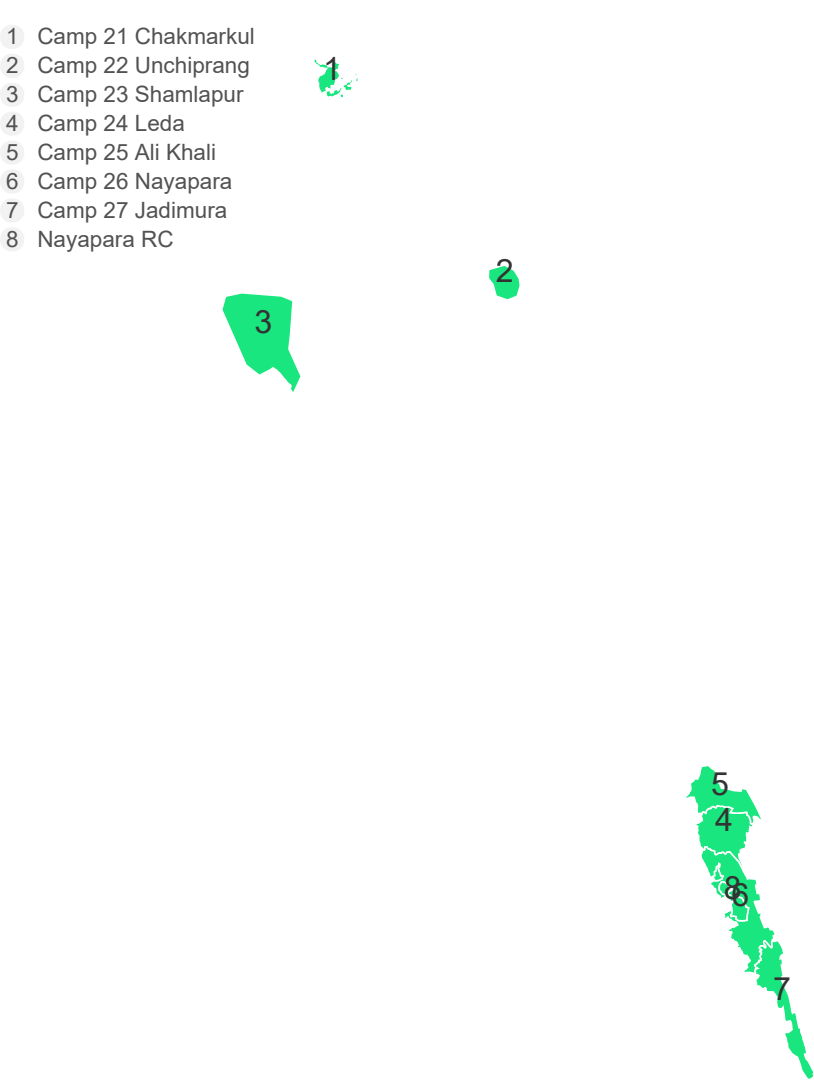


Table 4 | Performance by camp (W13 2023)

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	67%	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	80%	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

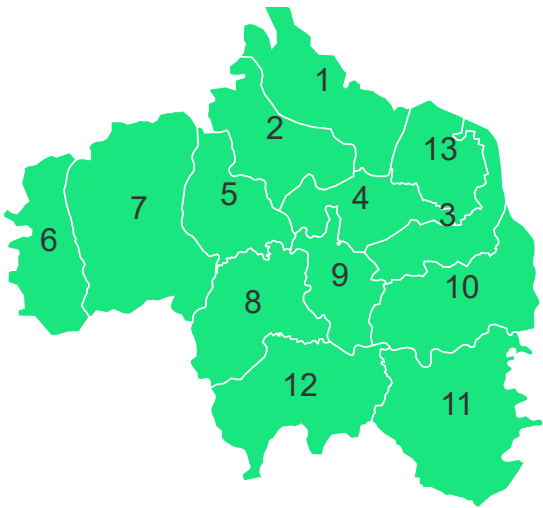
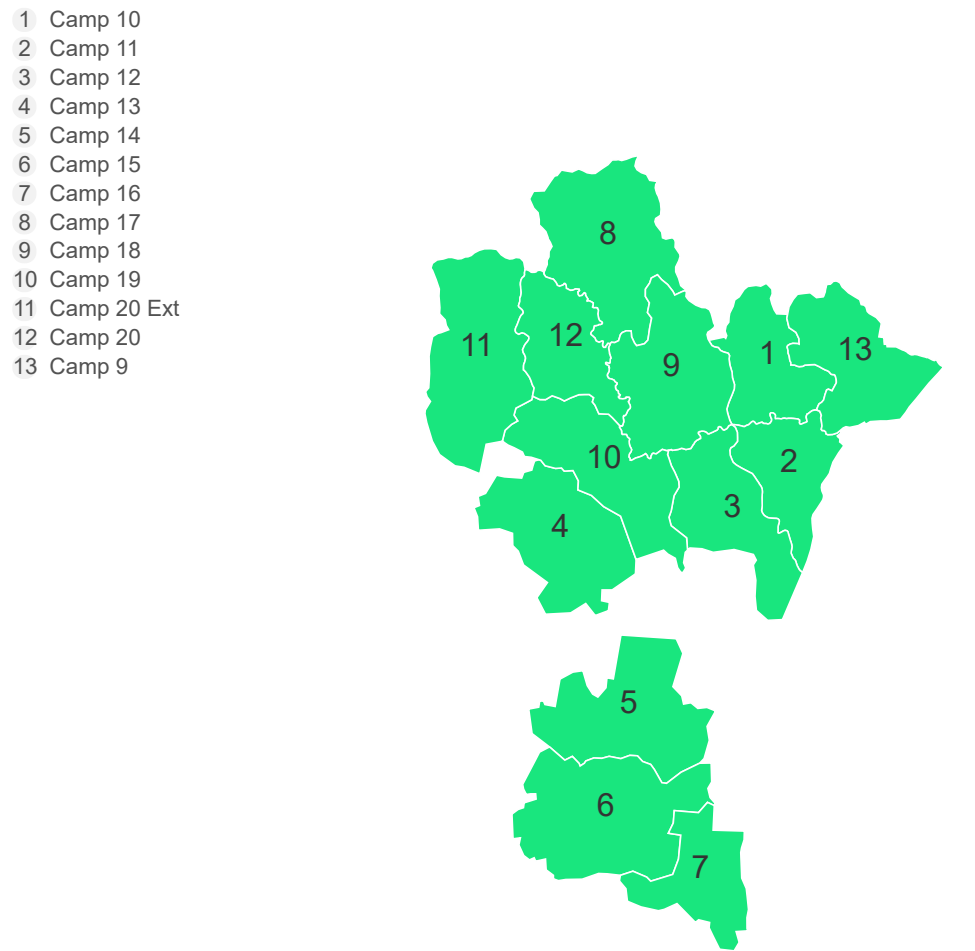


Table 5 | Performance by camp (W13 2023)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	3	125%	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	100%	0%
Camp 16	7	5	100%	0%
Camp 17	5	3	60%	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	4	83%	0%

Map 3 | Completeness by camp



Completeness

0

25%

50%

75%

100%

Table 6 | Performance by camp (W13 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	100%	0%
Camp 26 Nayapara	5	4	75%	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

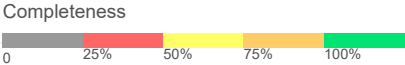
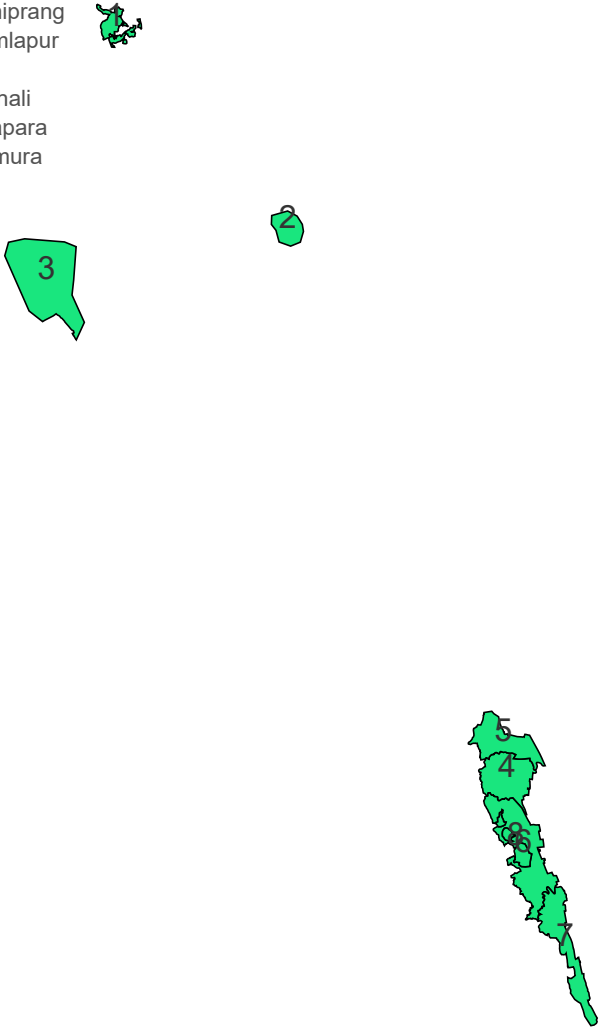


Table 7 | Performance by partner (W13 2023)

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	7	0%	0%
BASHMAH	1	0	0%	-100%	MoH	12	11	0%	0%
BDRCS	10	8	80%	80%	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	1	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	9	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	7	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%	0%
ICRC	1	0	0%	0%	TdH	2	2	0%	0%
IOM	23	23	0%	0%					

Table 8 | Performance by camp

Northern group	W13		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	6	100%	44	100%
Camp 1W	3	100%	58	100%
Camp 2E	14	93%	114	96%
Camp 2W	10	100%	70	96%
Camp 3	0	0%	65	100%
Camp 4	2	100%	58	98%
Camp 4 Ext	1	100%	10	100%
Camp 5	0	0%	29	100%
Camp 6	1	100%	28	93%
Camp 7	2	100%	28	100%
Camp 8E	5	100%	55	98%
Camp 8W	4	100%	65	100%
Kutupalong RC	0	0%	17	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

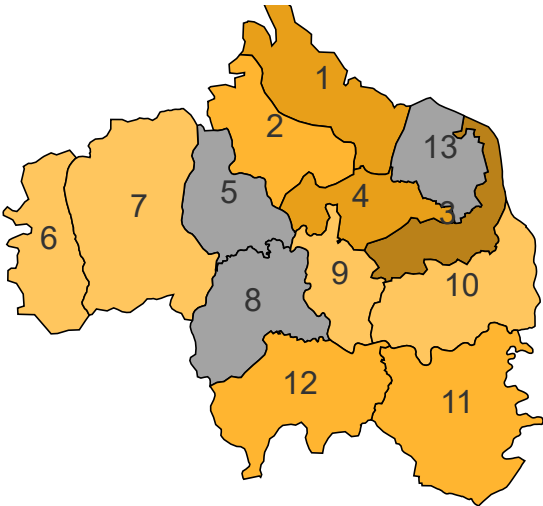


Table 9 | Performance by camp

Southern group	W13		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	2	100%	20	95%
Camp 11	1	100%	13	100%
Camp 12	2	100%	37	100%
Camp 13	4	100%	50	100%
Camp 14	3	100%	44	95%
Camp 15	4	100%	39	97%
Camp 16	3	100%	41	98%
Camp 17	1	0%	22	82%
Camp 18	2	100%	45	96%
Camp 19	1	100%	7	100%
Camp 20	0	0%	23	100%
Camp 20 Ext	1	100%	10	100%
Camp 9	1	100%	47	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

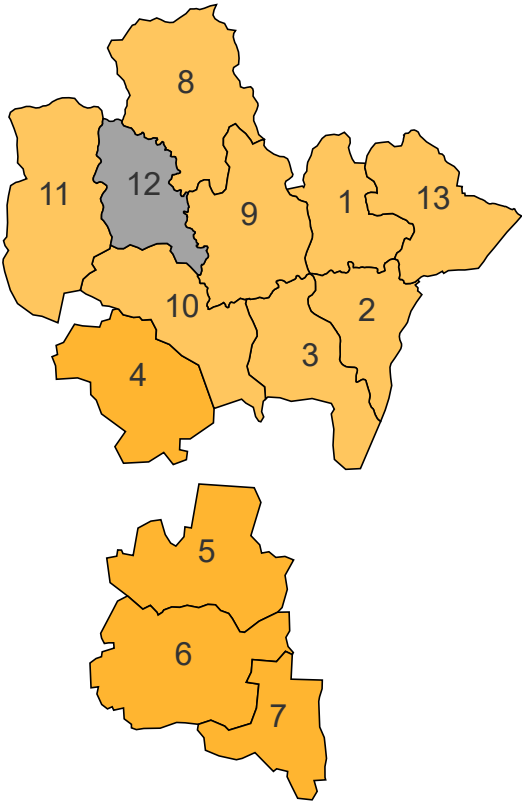


Table 10 | Performance by camp

Teknaf	W13		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	1	100%	22	91%
Camp 22 Unchiprang	1	100%	27	96%
Camp 23 Shamlapur	0	0%	3	100%
Camp 24 Leda	2	100%	60	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

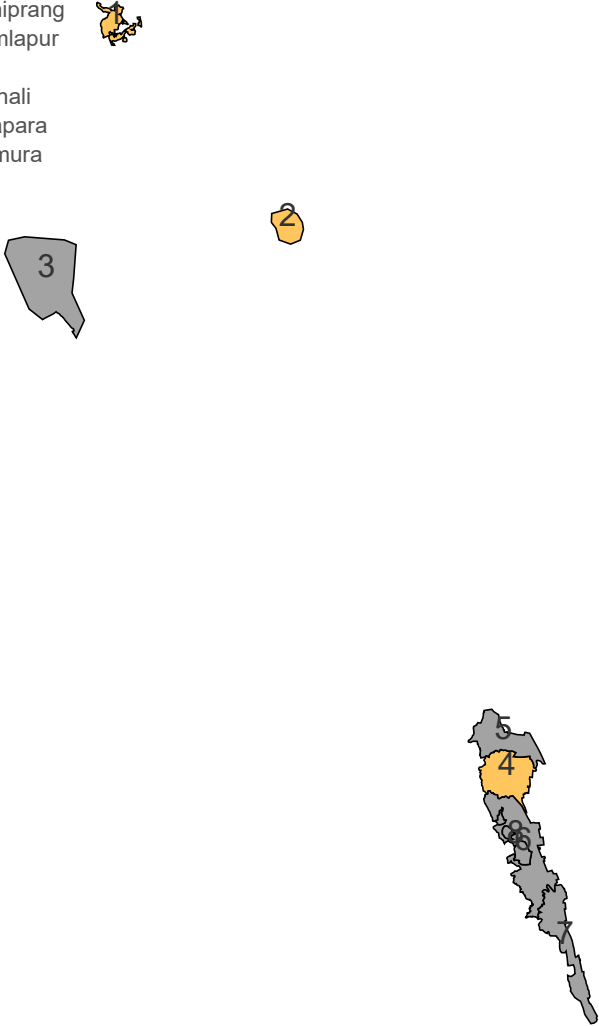


Table 11 | Performance by type of alert

Event	W13		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%	7	100%
Haem. fever (susp.)	0	0%	5	100%
NNT	0	0%	1	100%
Unexp. fever	0	100%	24	100%
AWD	0	0%	19	89%
ARI	0	100%	18	100%
AJS	0	100%	15	100%
Varicella (Susp.)	0	100%	91	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	8	88%	79	96%

Table 12 | Risk assessment

W13	Cumulative (2023)	
0	0	Low risk
0	0	Moderate risk
0	0	High risk
0	0	Very high risk

For more help and support, please contact:

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Notes

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

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

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

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



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HEALTH SECTOR
COX'S BAZAR



Global
EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W13 2023



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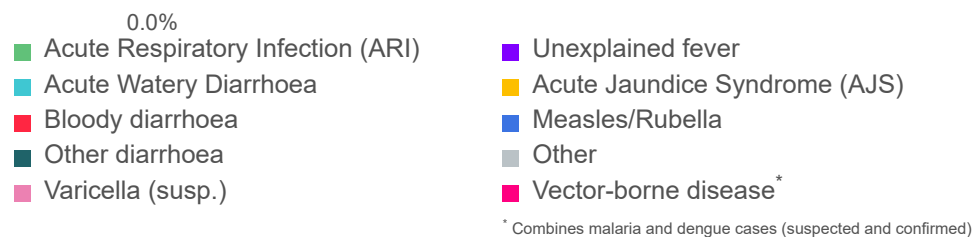
HEALTH SECTOR
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Printed: 03:49 Monday, 17 April 2023 UTC

Proportional morbidity

Figure 1 | Proportional morbidity (W13 2023)



Disease	W13		2023	
	# cases	% morbidity	# cases	% morbidity
AWD	1,980	2.4%	34,741	2.3%
Bloody diarr.	204	0.2%	3,771	0.2%
Other diarr.	836	1.0%	16,820	1.1%
Susp. Varicella	2,541	3.1%	25,391	1.7%
ARI	15,144	18.5%	294,118	19.3%
Measles/Rub.	19	0.0%	228	0.0%
AFP	0	0.0%	14	0.0%
Susp. menin.	5	0.0%	52	0.0%
AJS	20	0.0%	280	0.0%
Susp. HF	0	0.0%	52	0.0%
Neo. tetanus	0	0.0%	1	0.0%
Adult tetanus	0	0.0%	4	0.0%
Malaria (conf.)	0	0.0%	23	0.0%
Malaria (susp.)	60	0.1%	691	0.0%
Dengue (conf.)	68	0.1%	1,182	0.1%
Dengue (susp.)	25	0.0%	372	0.0%
Unexpl. fever	600	0.7%	10,977	0.7%
Sev. Malnut.	34	0.0%	586	0.0%
Inj./Wounds	2,010	2.5%	33,579	2.2%
Other	58,266	71.1%	1,095,988	72.1%
Total	81,358	100%	1,520,529	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W13)

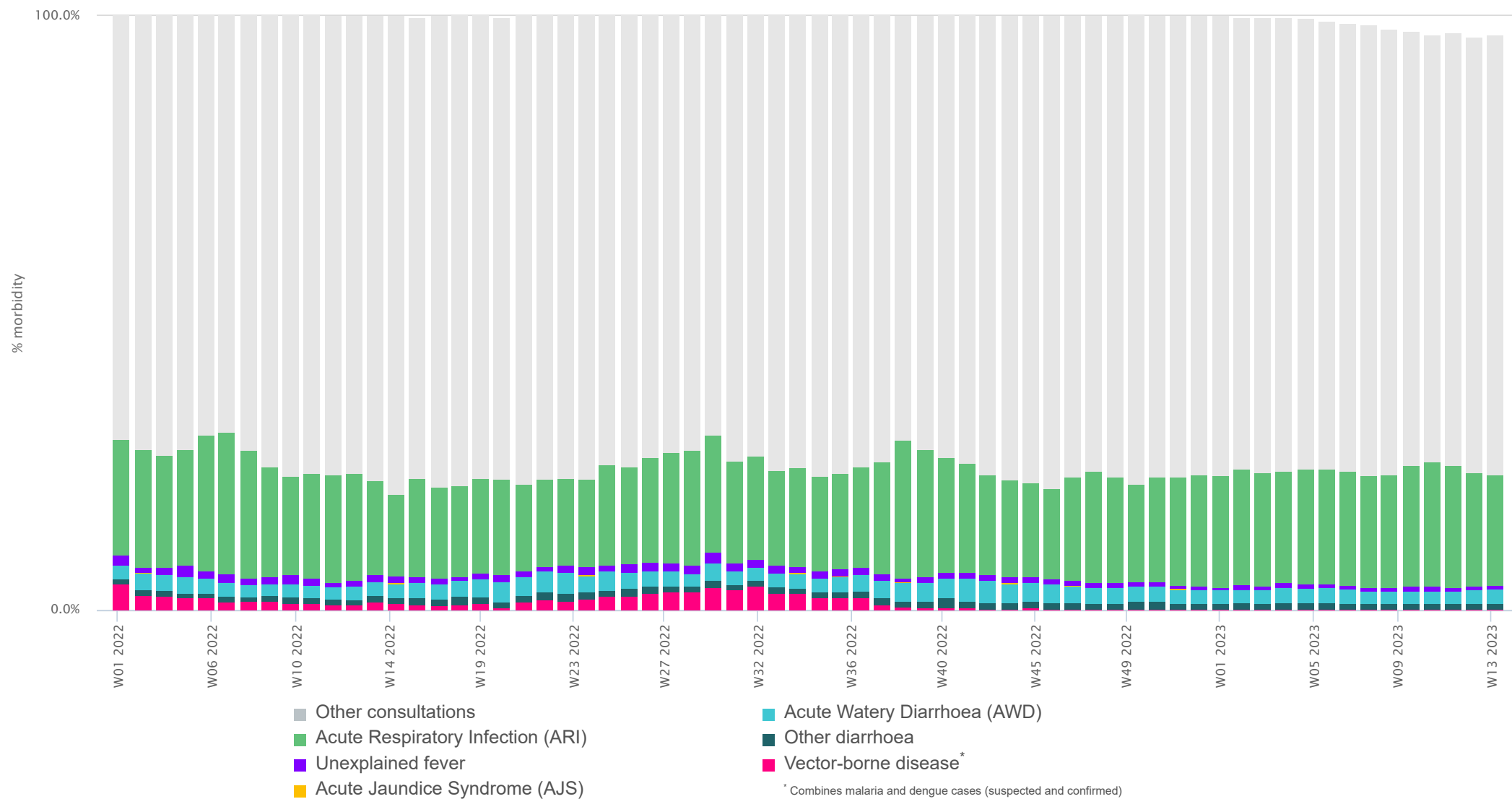
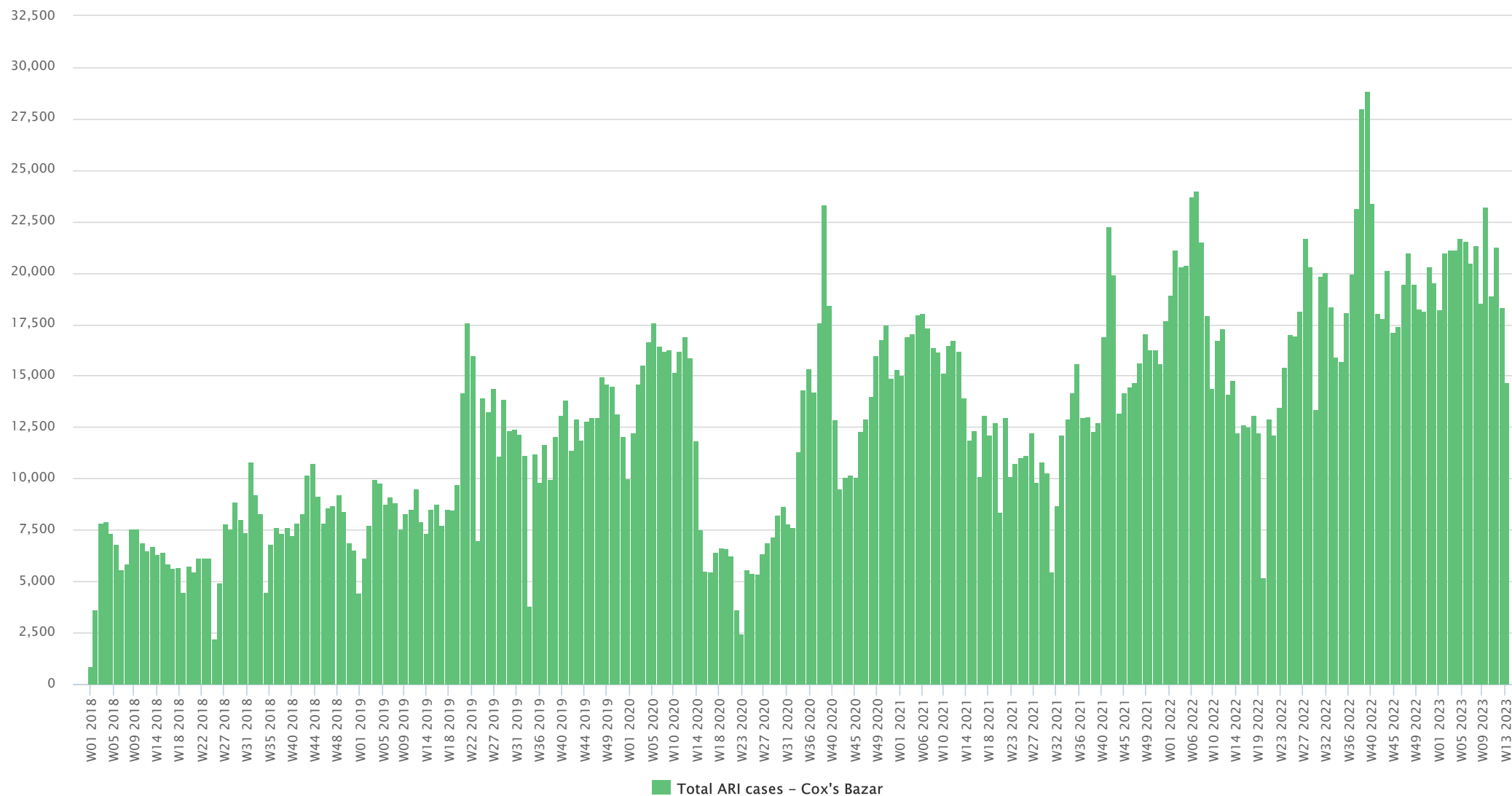
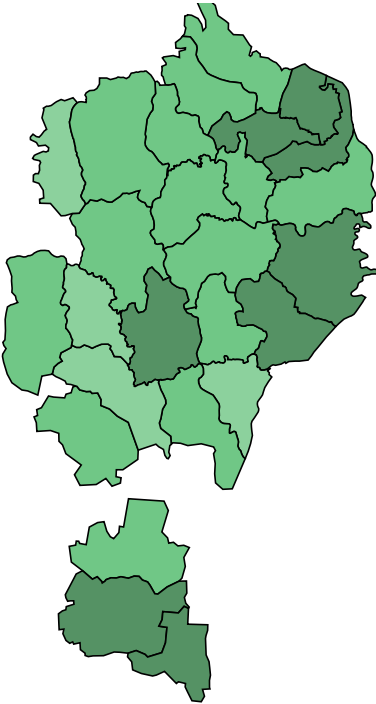


Figure 3 | Trend in number of cases over time (W38 2017 - W13 2023)



Map 1 | Map of cases by camp (W13 2023)

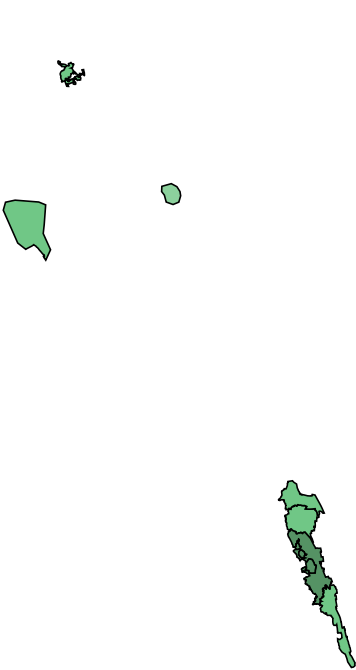
a. Ukhia | Number of cases



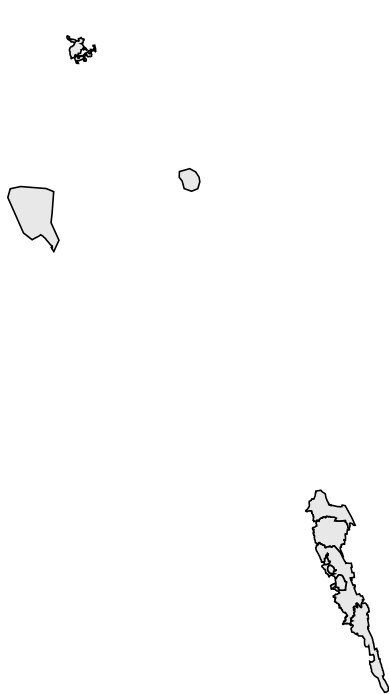
b. Ukhia | Number of alerts



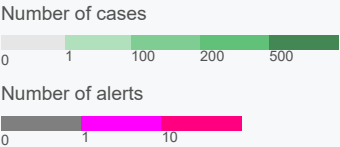
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W13 2023)

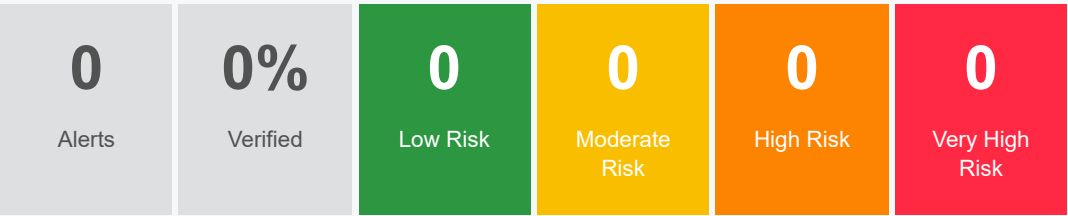
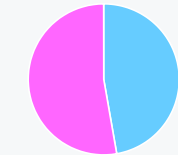
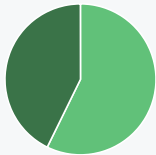


Figure | % sex



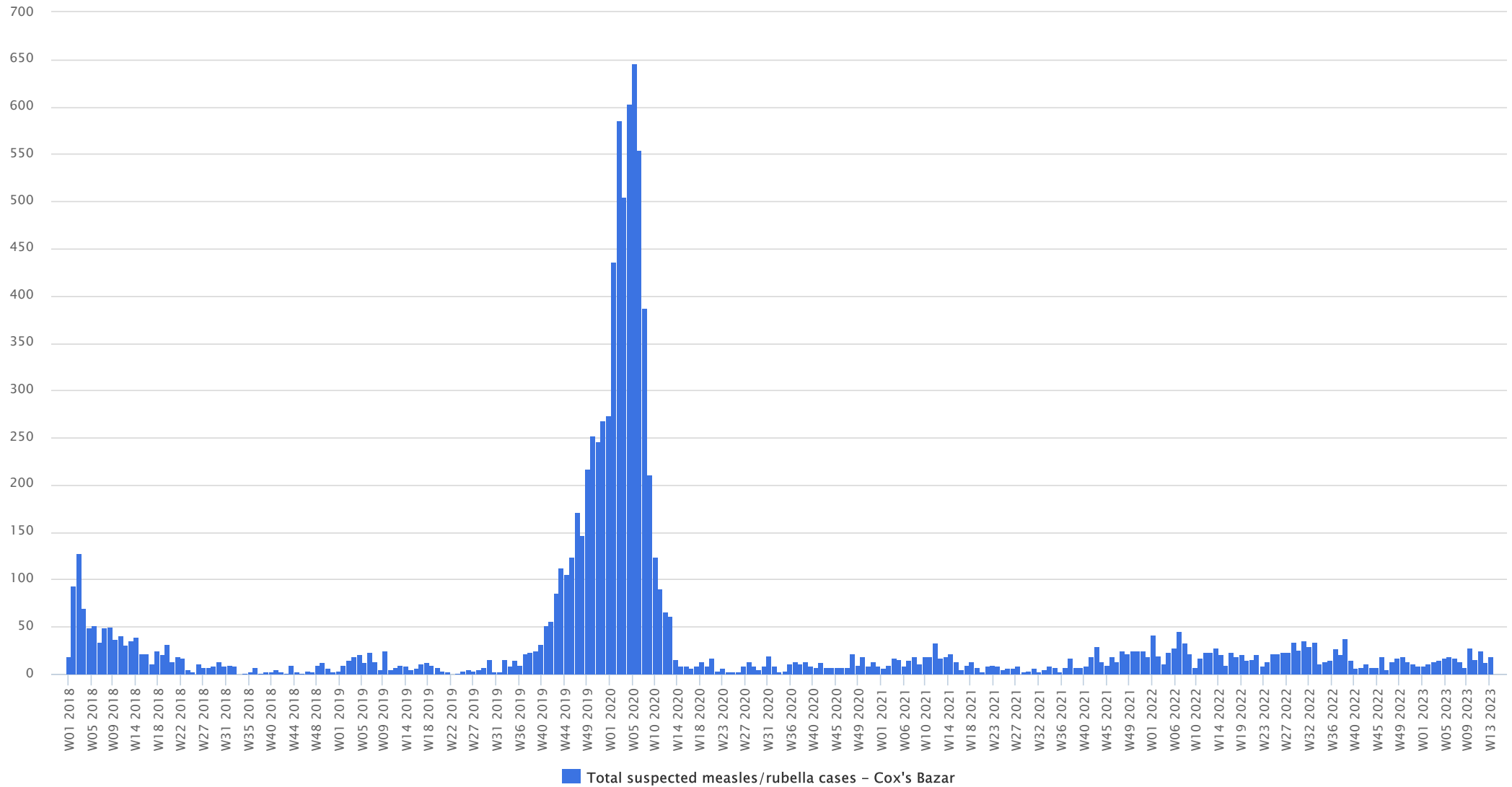
Male Female

Figure | % age



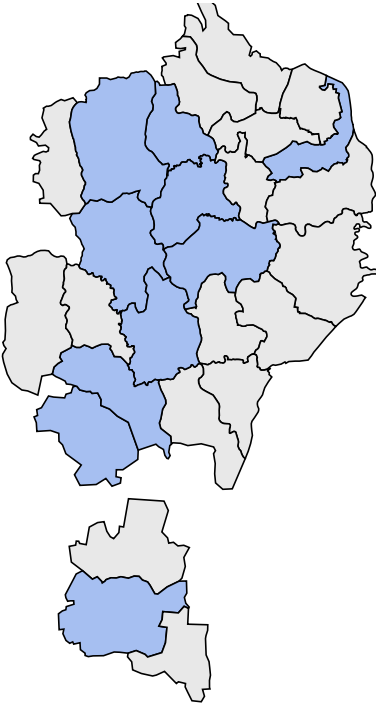
< 5 >= 5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W13 2023)



Map 2 | Map of cases by camp (W13 2023)

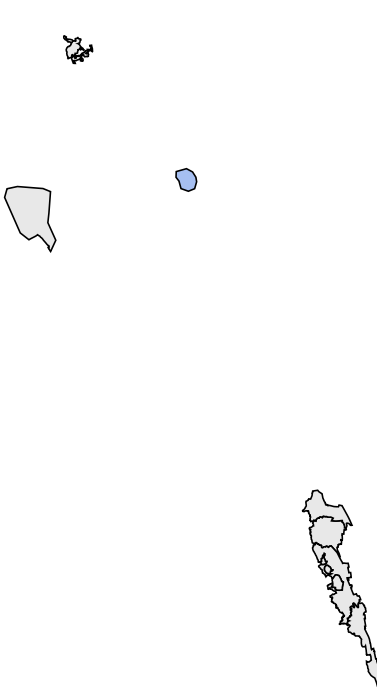
a. Ukhia | Number of cases



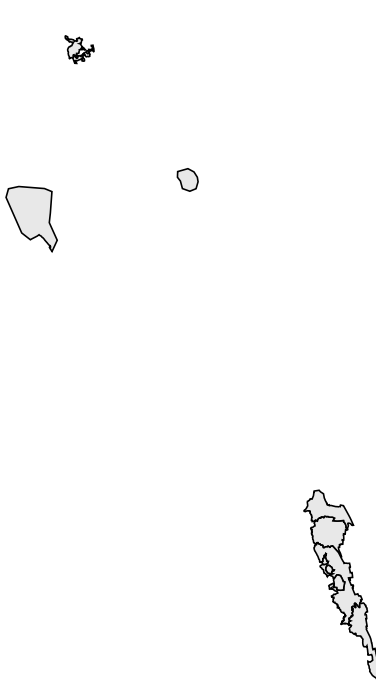
b. Ukhia | Number of alerts



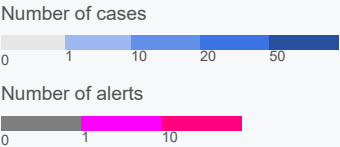
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W13 2023)

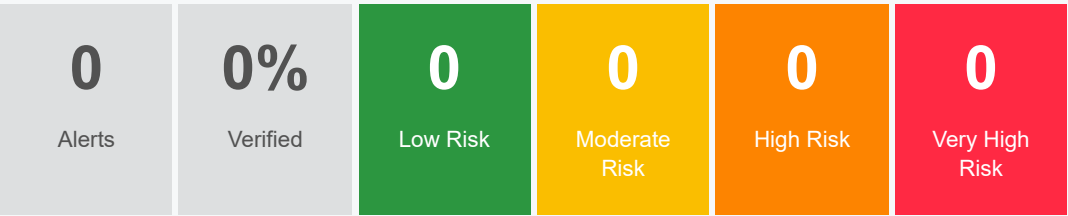


Figure | % sex

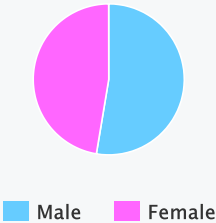
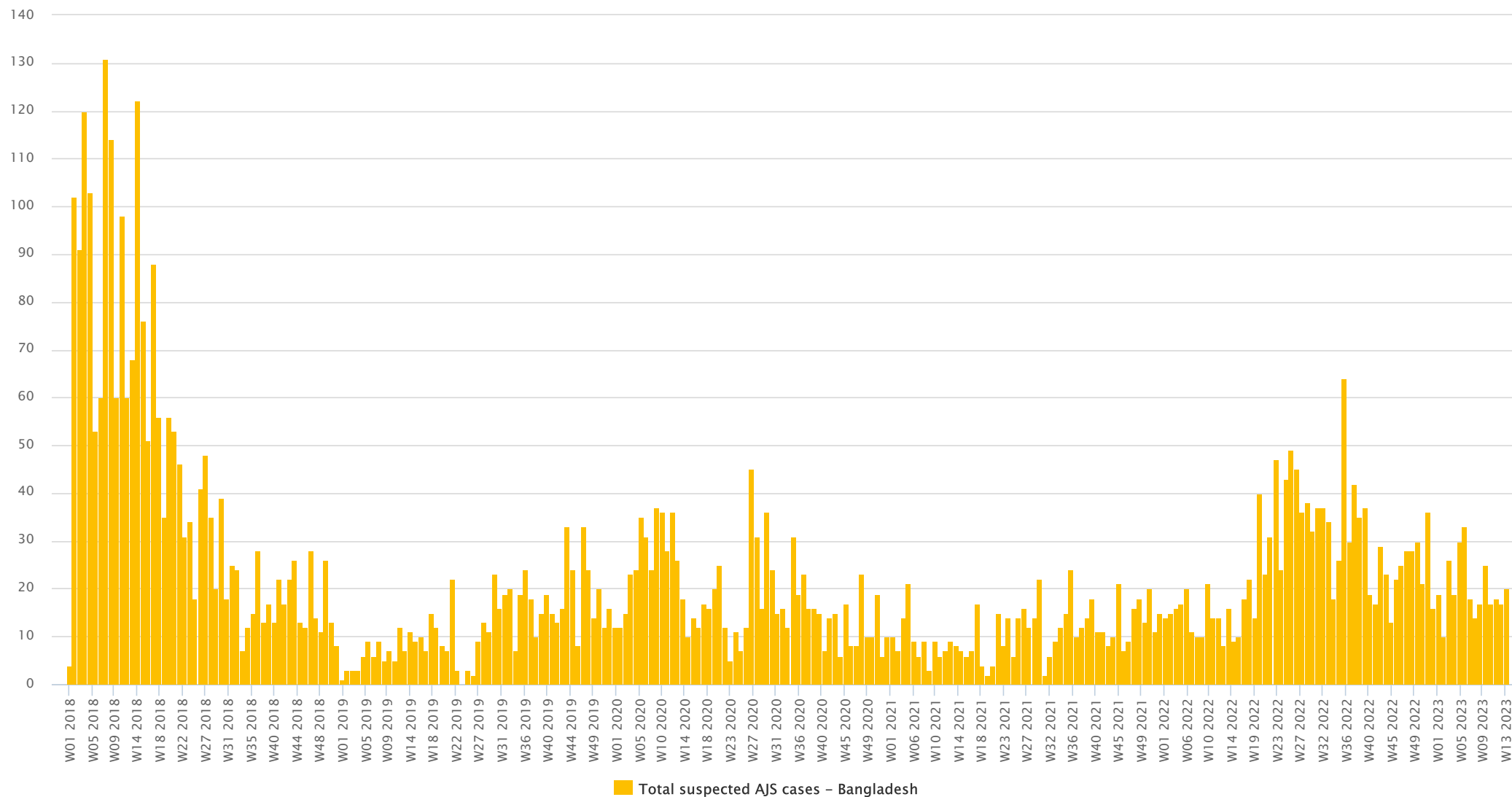


Figure | % age

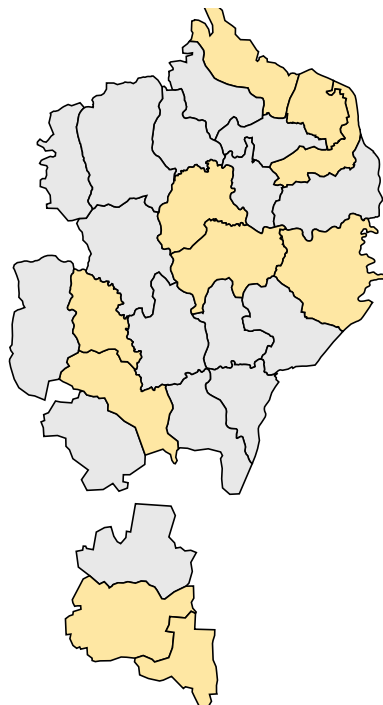


Figure 5 | Trend in number of cases over time (W38 2017 - W13 2023)

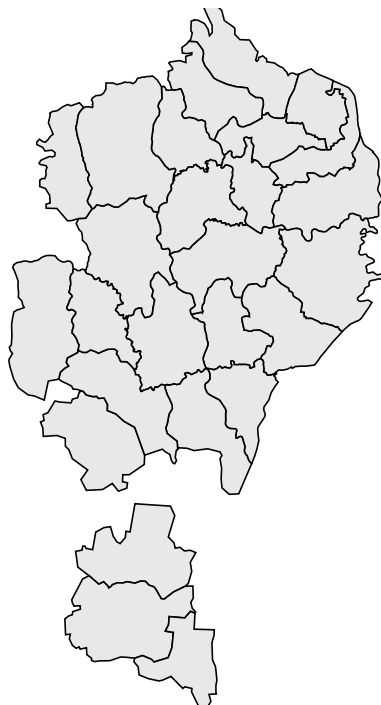


Map 3 | Map of cases by camp (W37 2017 - W13 2023)

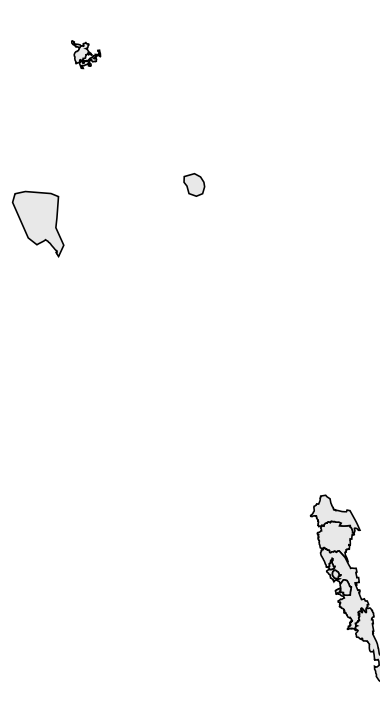
a. Ukhia | Number of cases



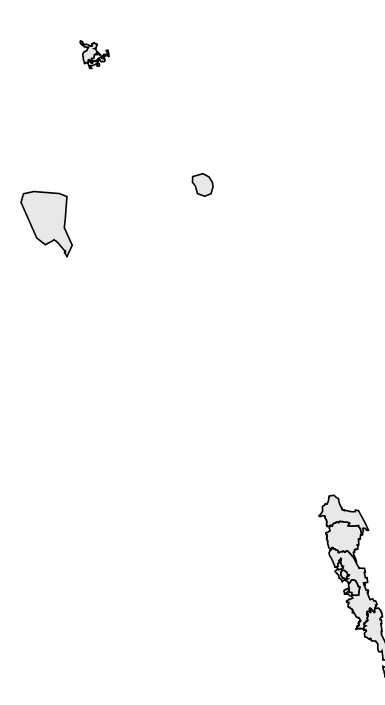
b. Ukhia | Number of alerts



c. Teknaf | Number of cases

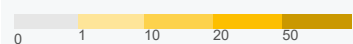


d. Teknaf | Number of alerts



Map legend

Number of cases



Number of alerts



Alert threshold

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

Alert management (W13 2023)

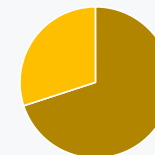


Figure | % sex



Male Female

Figure | % age



>= 5 < 5

Figure 6 | Trend in number of cases over time (W38 2017 - W13 2023)

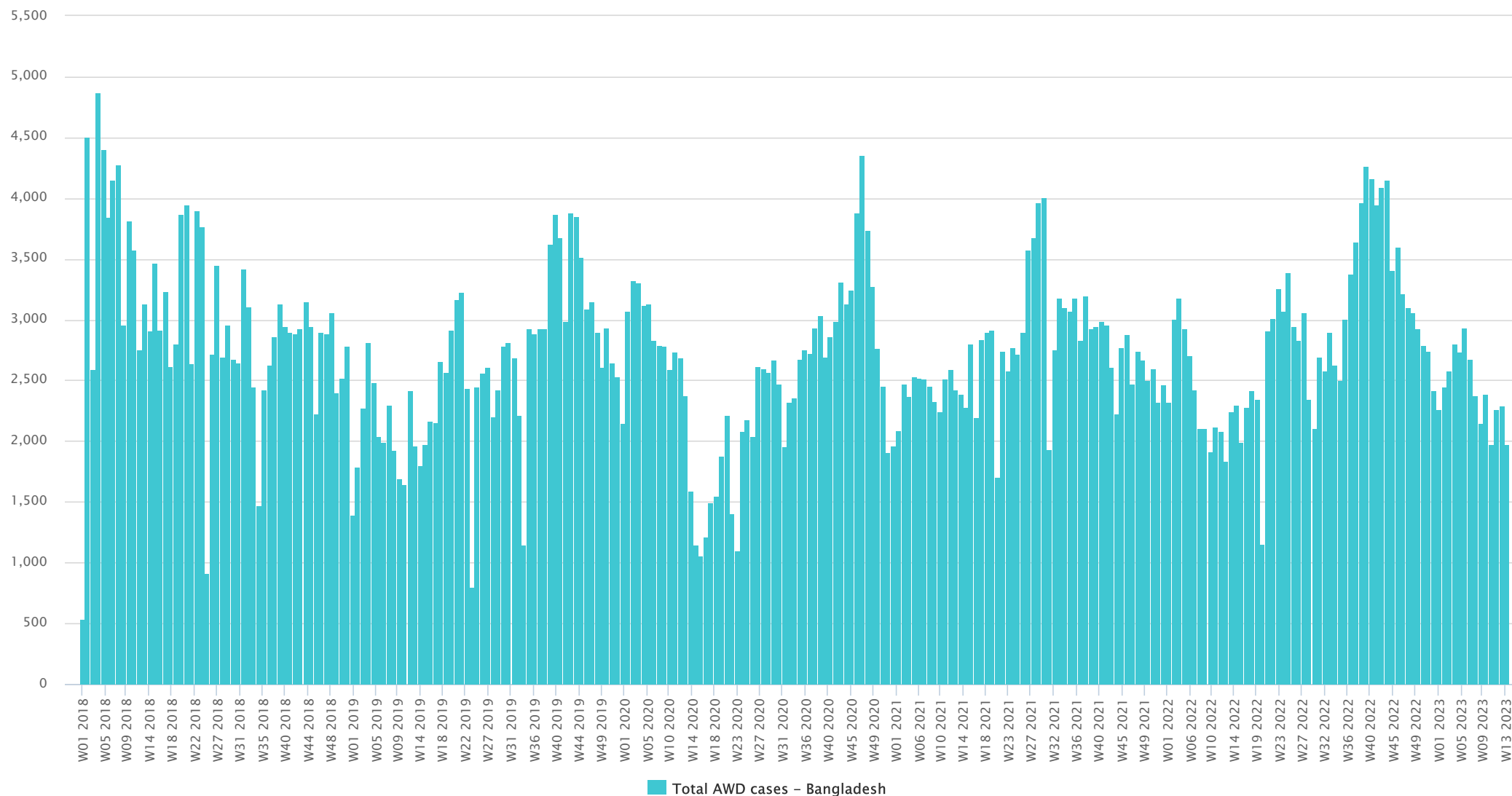
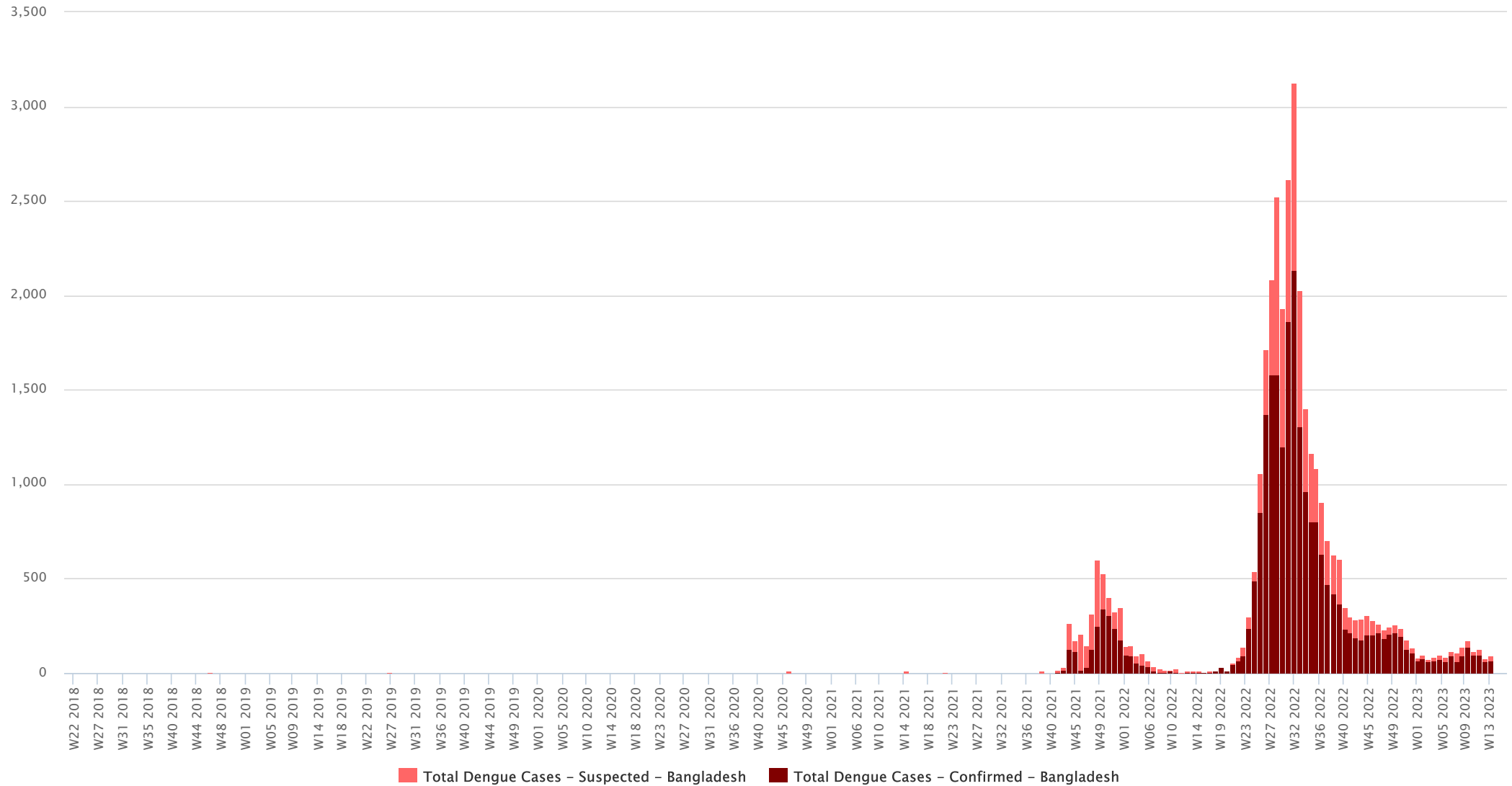
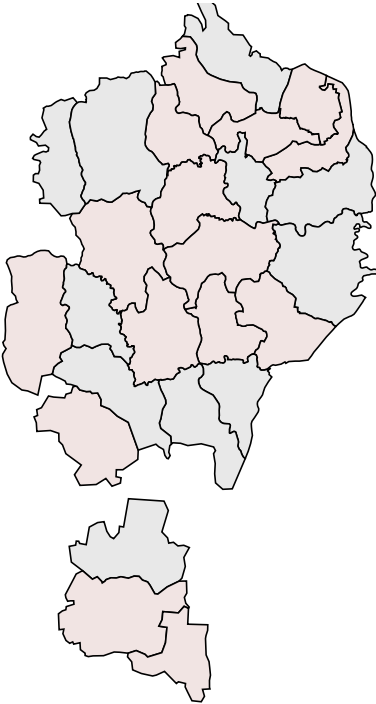


Figure 7 | Trend in number of cases over time (W38 2017 - W13 2023)



Map 4 | Map of cases by camp (W37 2017 - W13 2023)

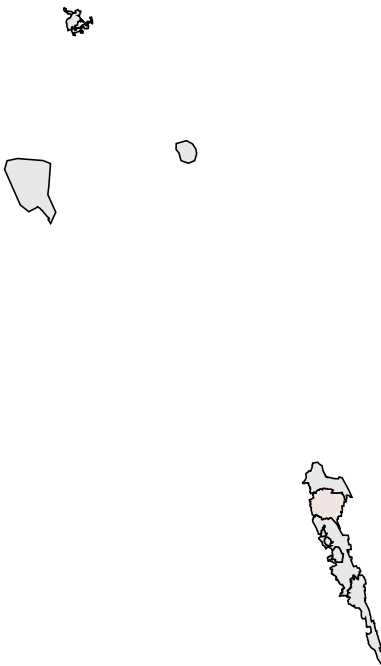
a. Ukhia | Number of cases



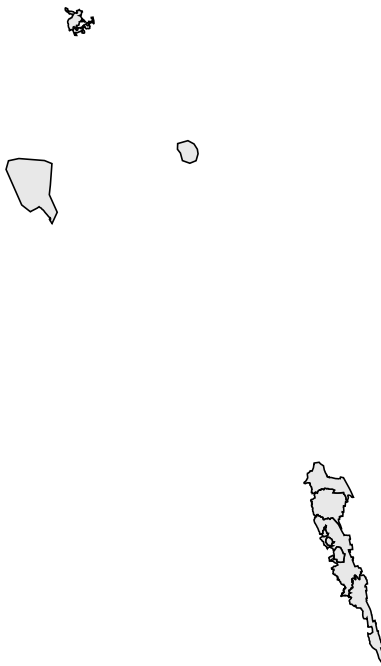
b. Ukhia | Number of alerts



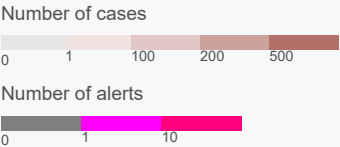
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W13 2023)

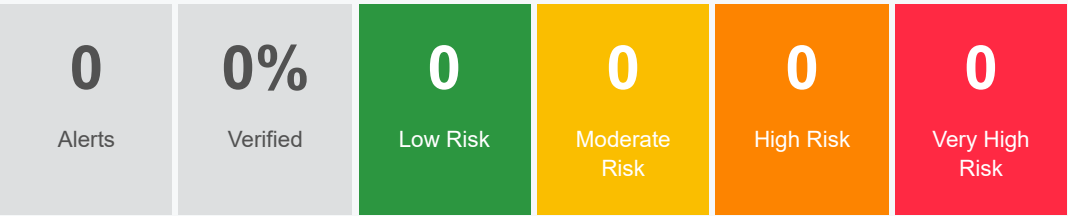


Figure | % sex

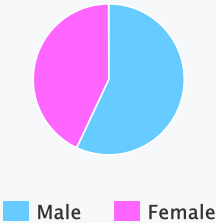


Figure | % age

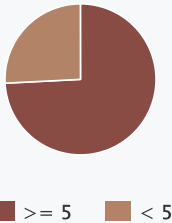
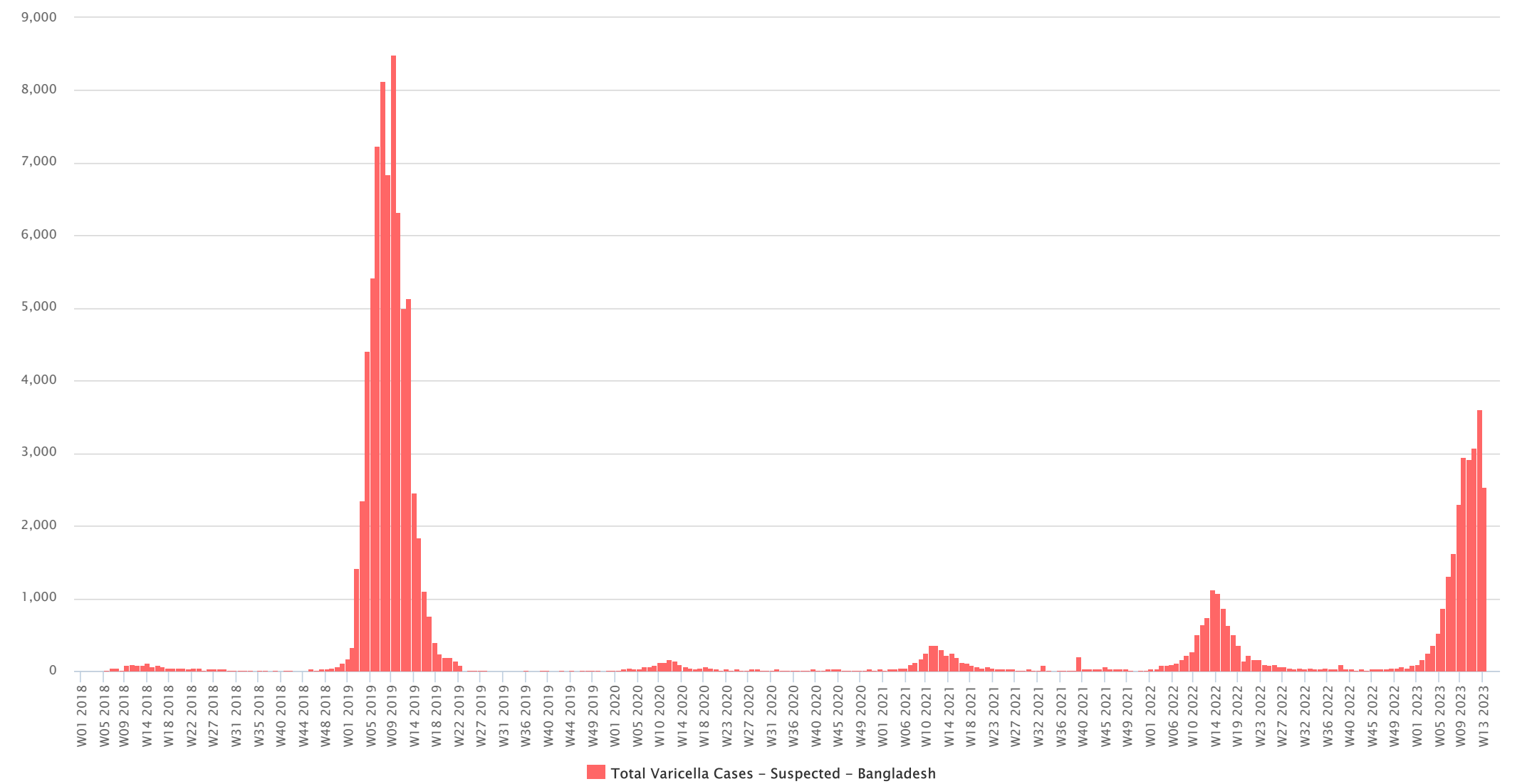
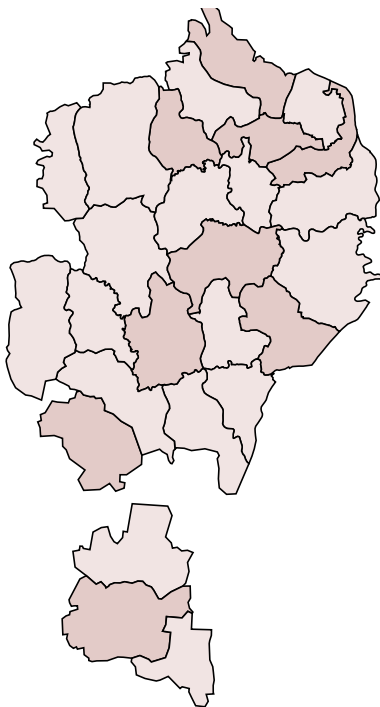


Figure 7 | Trend in number of cases over time (W38 2017 - W13 2023)

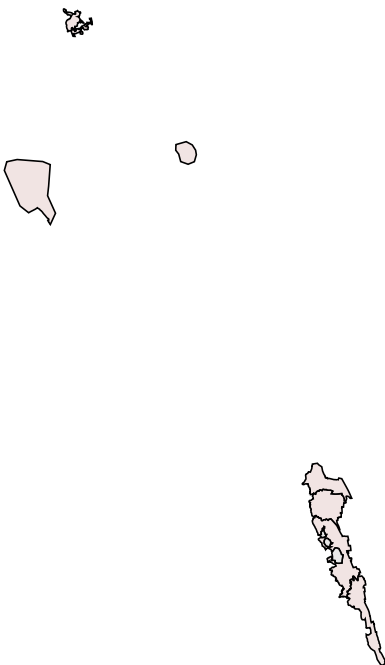


Map 4 | Map of cases by camp (W37 2017 - W13 2023)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

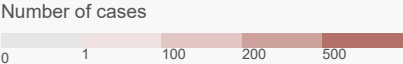


Figure | % sex

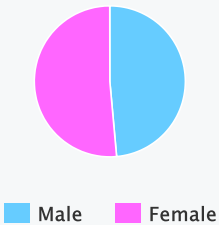
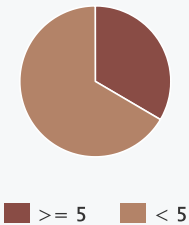


Figure | % age



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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>

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