



Epidemiological Highlights

Week 28 (9-15 July) 2023



World Health
Organization

EWARS Reporting Updates for Epi week 28, 2023

Currently, a total of **141 health facilities** are registered in EWARS

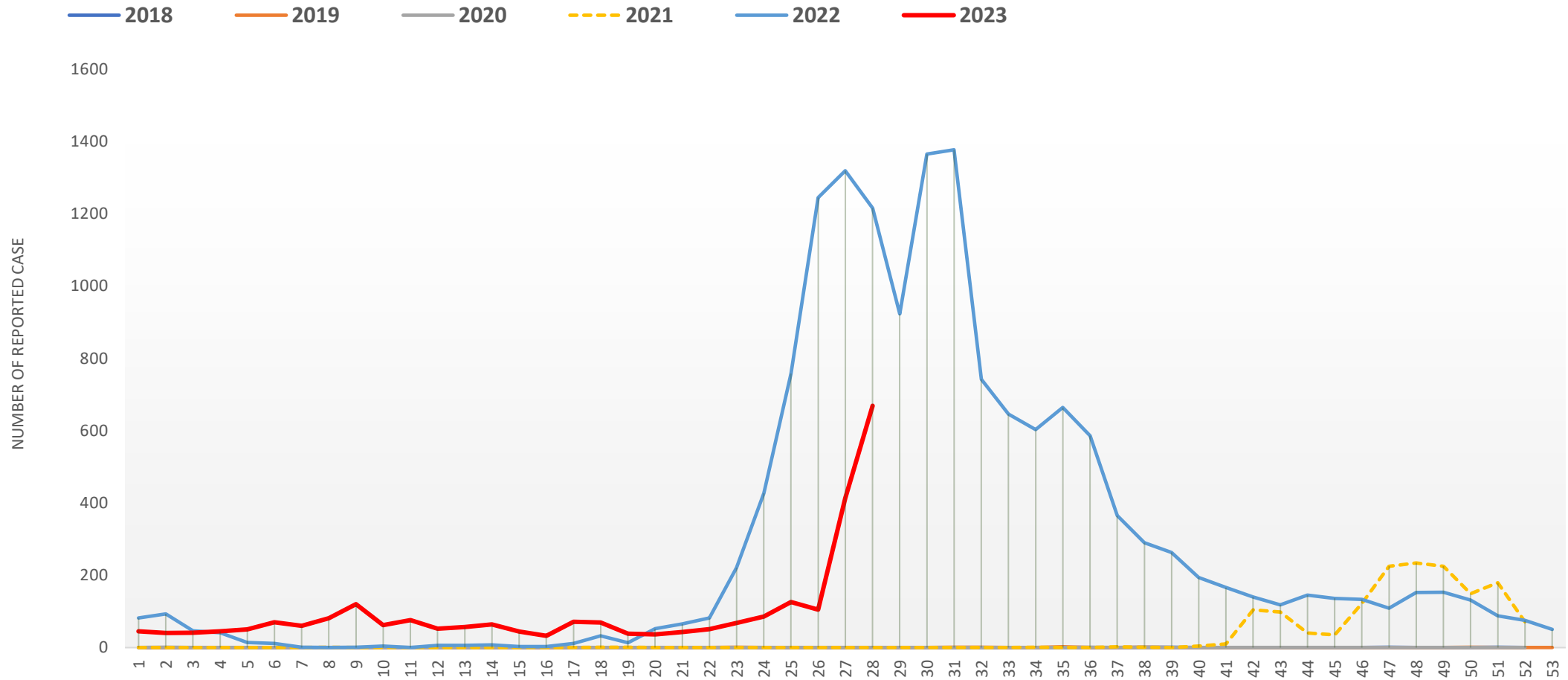
- Of those 132 weekly reports were received on time this Epi week
- Timeliness and completeness of weekly reporting were 94% which is beyond the global and national weekly threshold
- Seventy-one (71) alerts were triggered
- All alerts were reviewed and verified by the WHO EWARS team; this is a 16% rise from the previous week (61 alerts in week 27, 2023)

Weekly Proportionate Morbidity and SARI Mortality among the FDMN population from 2020-Epi 1-28, 2023

- Acute Respiratory Infections (17.3%), Acute Watery Diarrhoea (2.4%), and Injury and wounds (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, 26 cases of which none is probable COVID-19 Death, have been reported in 2023
- This Epi week, no new SARI death was reported, and upon investigation, none met reclassification as probable COVID-19 death as highlighted below:

Year	Suspected SARI death reported (current week)	Reclassified as death due to probable COVID-19
2023	26 (0)	0
2022	136	8
2021	96	15
2020	49	2

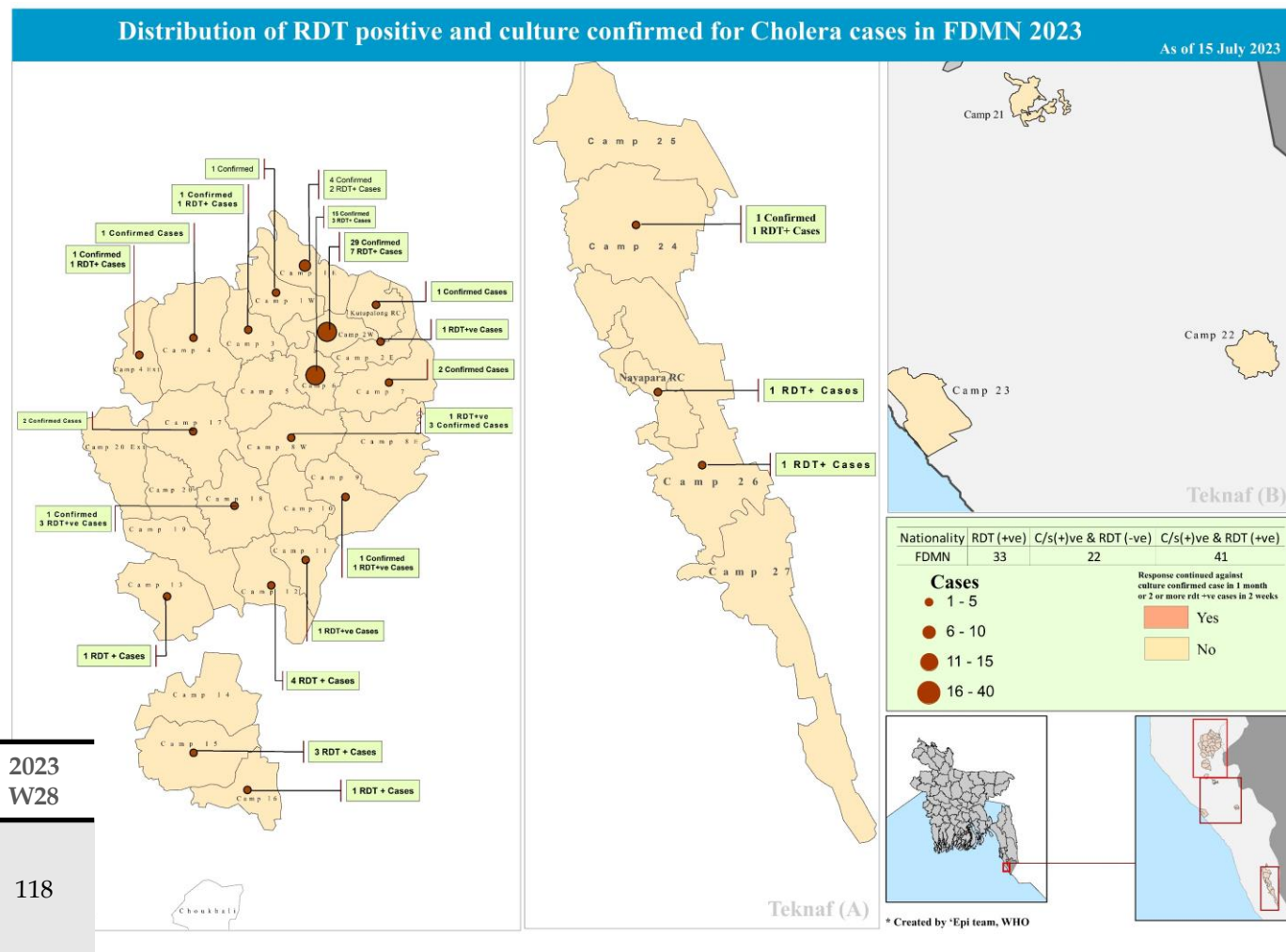
Annual trends of confirmed Dengue cases among FDMN and host population in Cox's Bazar from 2018 to Epi Week 28, 2023



- ❑ Cumulative of 2,669 confirmed dengue cases including five (5) deaths (CFR 0.2%) have so far been reported 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

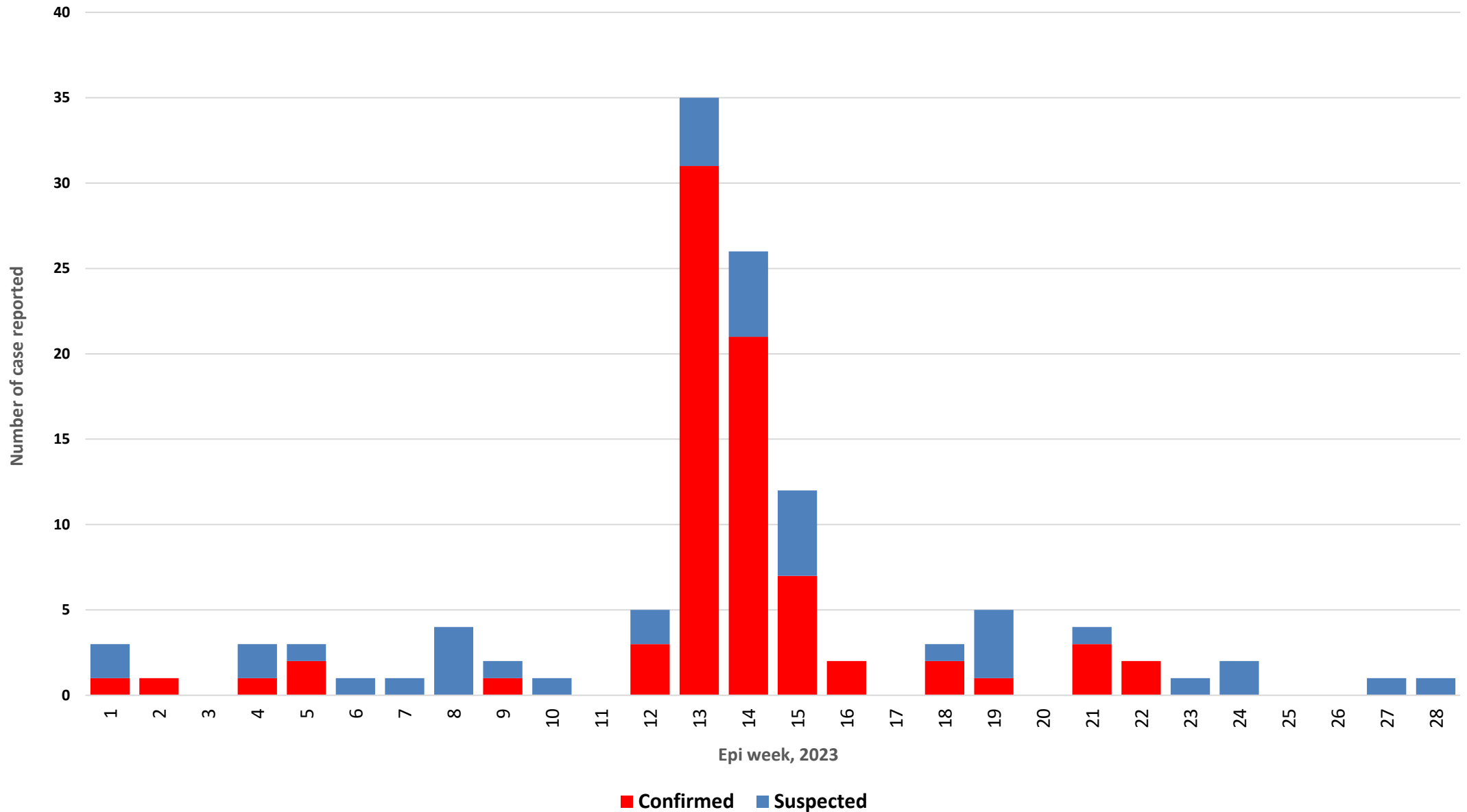
Cholera/AWD Surveillance Updates

- In this week, one (1) cholera-suspected case was reported
- A total of 118 cases of which 39 RDT-positive AWD/cholera suspected cases and 78 culture-confirmed Cholera cases have so far been reported in (Epi week 1-28) 2023.
- Cumulatively there are 980 RDT AWD cases/Cholera suspects reported while 480 cases were culture-confirmed since transmission in 2018.

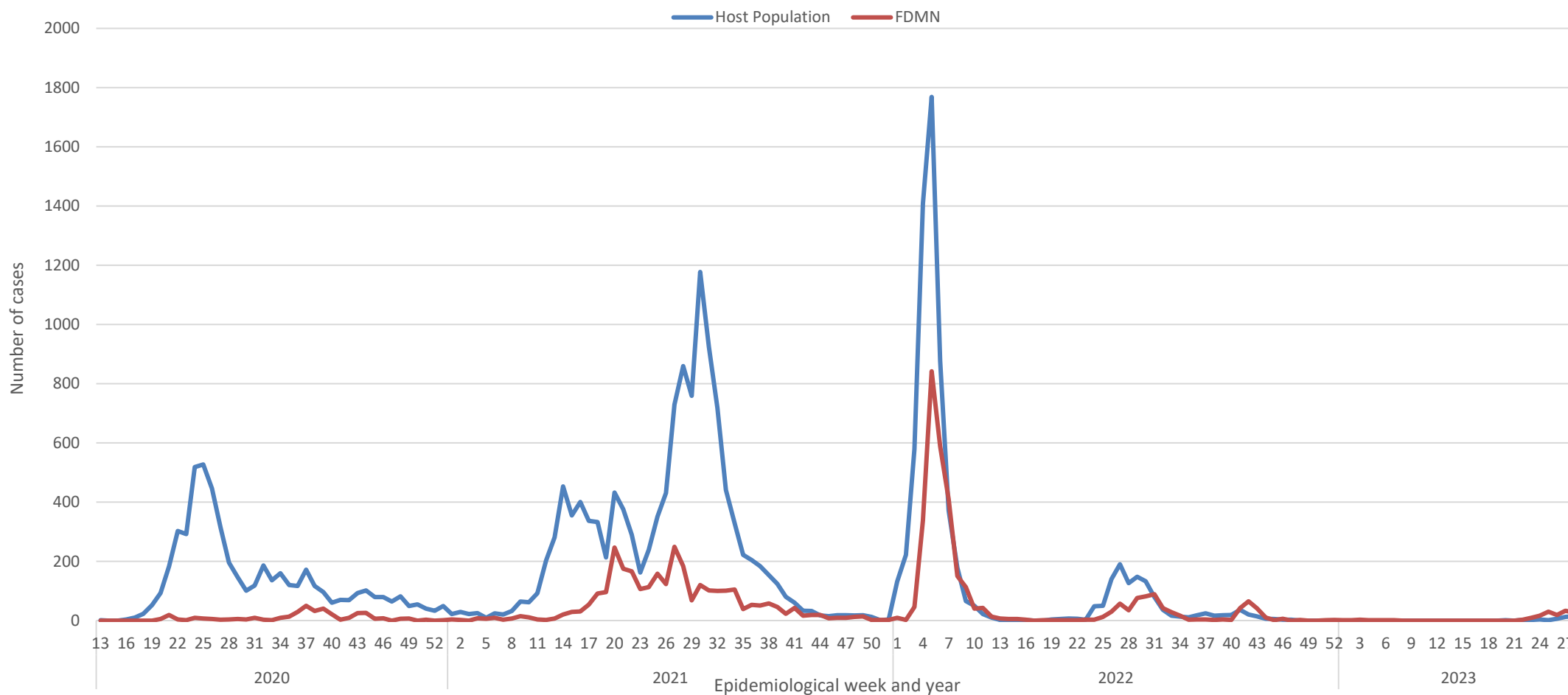


	2018	2019	2020	2021	2022	2023 W28
RDT positive AWD cases/Cholera suspects	49	258	28	357	170	118
Culture confirmed for Cholera	7	184	5	136	70	78

Weekly trends of suspected and confirmed cholera cases from Epi Week 1-28



Weekly Trends of COVID-19 Cases among FDMN and Host Population in Cox's Bazar District from Epi Week 13, 2020- Epi Week 28, 2023



FDMNs: Twenty-Seven (27) new confirmed cases were reported this week from FDMN Camps, weekly TPR is 14.9% and case incidence was 29.2 cases/1million pop.

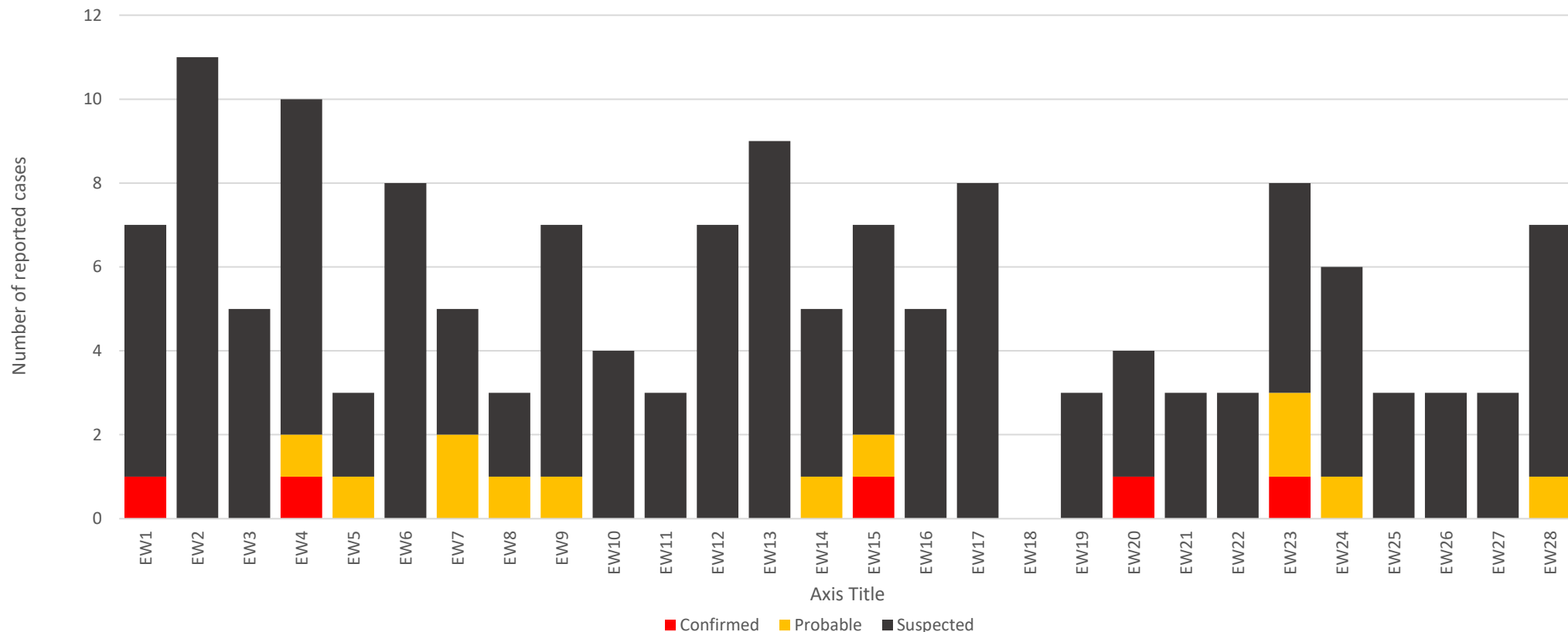
Host Population: Fifteen (15) new confirmed cases were reported this week from the Host community, weekly TPR is 10.1% and case incidence were 5.3 cases/1m pop.

Weekly and annual Diphtheria Surveillance Updates from 2017- Epi week 28, 2023

- One (1) probable and six (6) suspected diphtheria case was reported in go.data in this Epi week
- The last confirmed case was reported on 6 June 2023
- About 150 cases (5 confirmed, 12 probable and 133 suspected) of which there was one (1) death reported so far reported in 2023.
- In total 54 deaths have so far been reported since 2017, with the last death reported on 18 October 2022

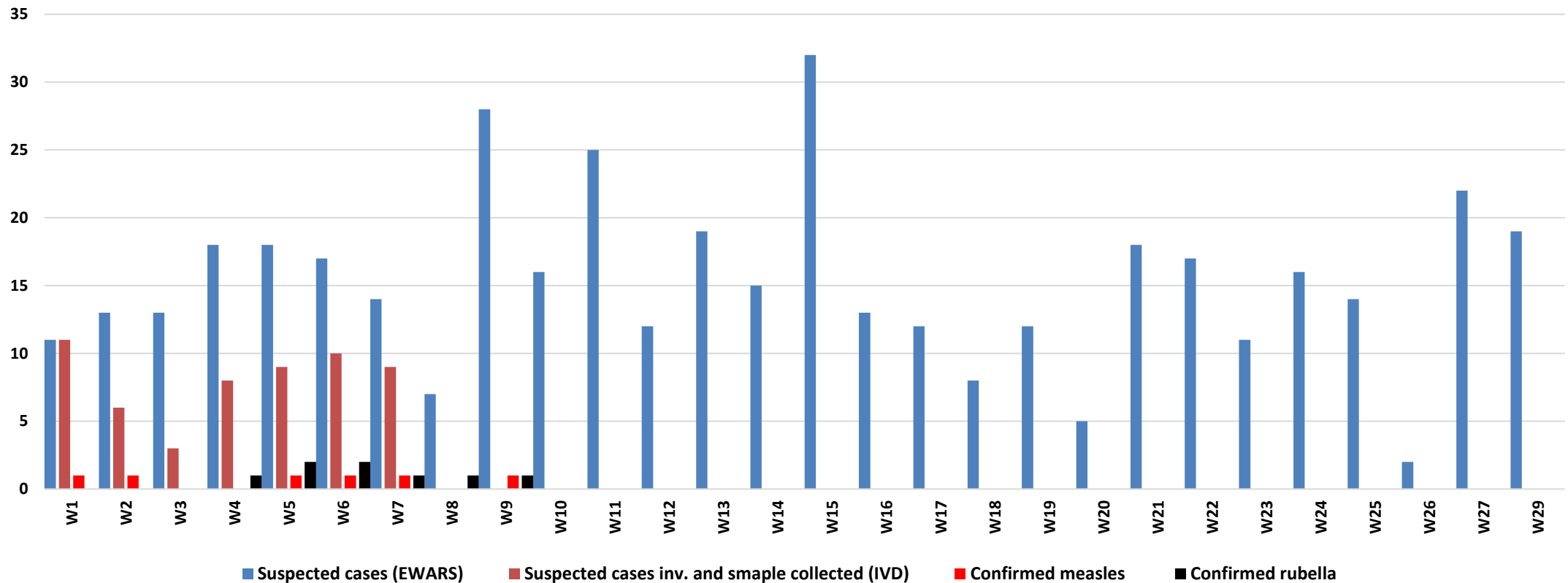
Classification	2017	2018	2019	2020	2021	2022	2023
Confirmed	66	226	31	19	30	56	6
Probable	1154	1555	60	9	29	3	11
Suspected	1796	3549	523	198	118	349	133
Death	30	14	3	0	5	2	1

Weekly trends of Diphtheria cases from Epi week 1-28, 2023



- Persistent transmission continues to be reported, Diphtheria vaccination campaign concluded in all 33 camps with 92% coverage

Epi Curve of Weekly Suspected Measles Cases week 1-28, 2023



- Nineteen (19) suspected measles cases were reported this Epi week
- Total of 427 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 (6) confirmed cases were measles and 8 were rubella confirmed
- Epidemiology and IVD units undertaking investigations

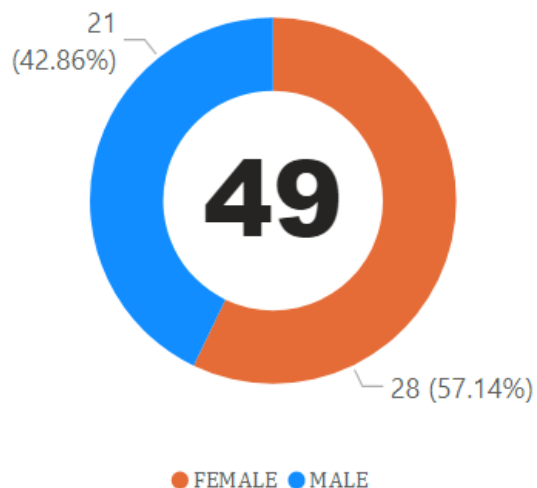
Proportionate Mortality updates Epi week 28, 2023

Probable causes of death	Epi week 28	In 2023
Still Birth	9 (18%)	168 (11%)
Neonatal Death (<28 days old)	6 (12%)	154 (11%)
Infectious Disease	--	38 (3%)
Severe Acute Respiratory Infection (SARI)	--	19 (1%)
Injury	1 (2%)	34 (2%)
Maternal Death	2 (4%)	26 (2%)
Acute Malnutrition	--	2 (0%)
Other	31 (63%)	1007 (69%)
Total	49 (100%)	1450 (100%)

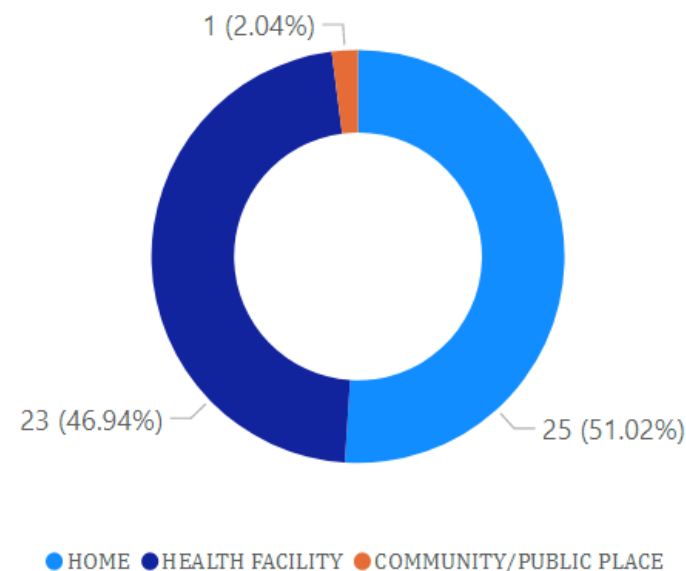
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable

Community-based Mortality Surveillance updates Epi week 28, 2023

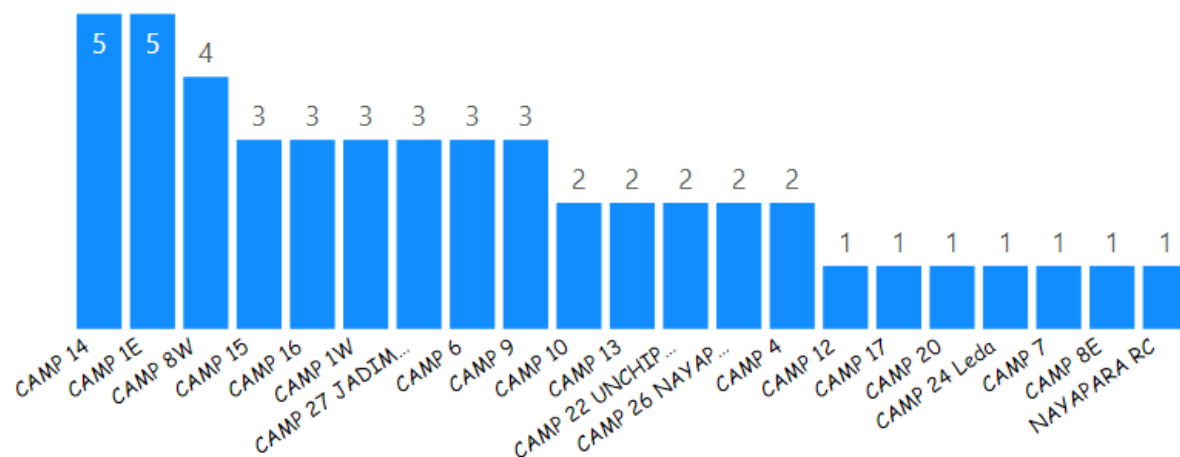
Gender distribution



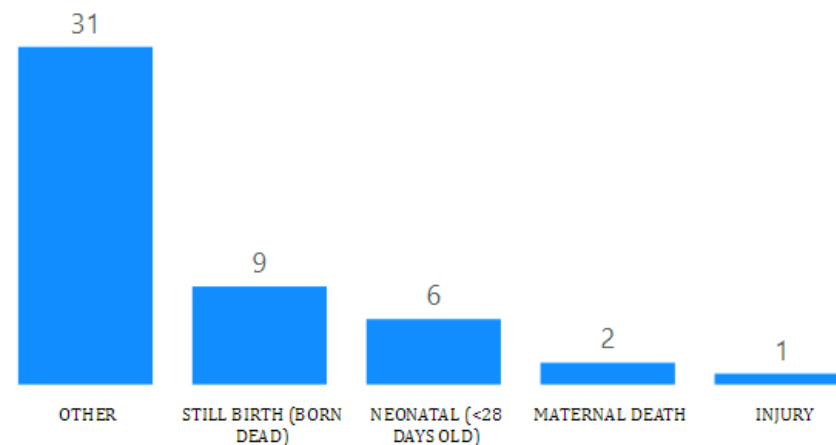
Place of death



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W28 2023



Ministry of Health and Family
Welfare Bangladesh



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Sources of data

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

Highlights W28 2023

Table 1 | Coverage

#	%	
952,309	-	Estimated total Rohingya population ¹
923,358	97%	Total population under surveillance
152	-	Total number of health facilities
141	93%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

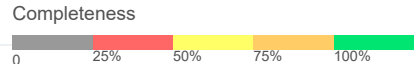
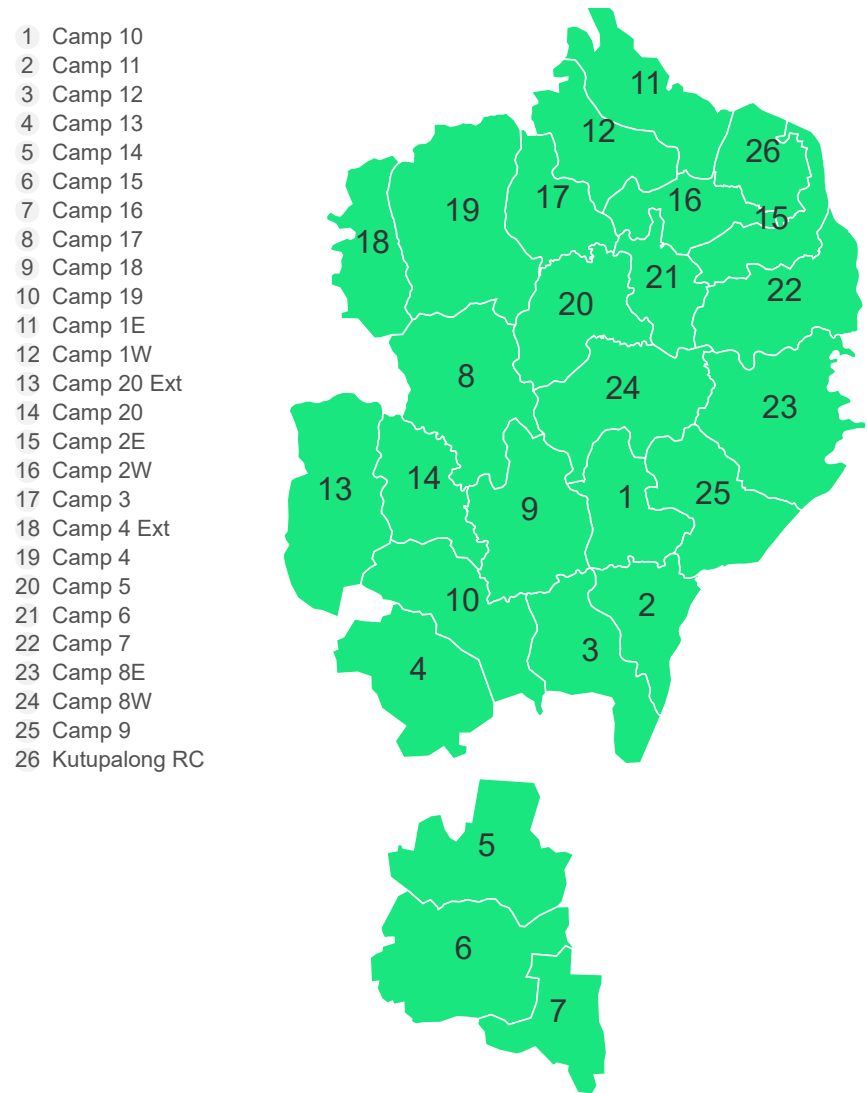
W28	Cumulative (2023)	
132	4345	Number of weekly reports received
94%	95%	Completeness
94%	87%	Timeliness

Table 3 Alert performance indicators

W28	Cumulative (2023)	
71	2,178	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

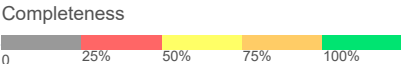
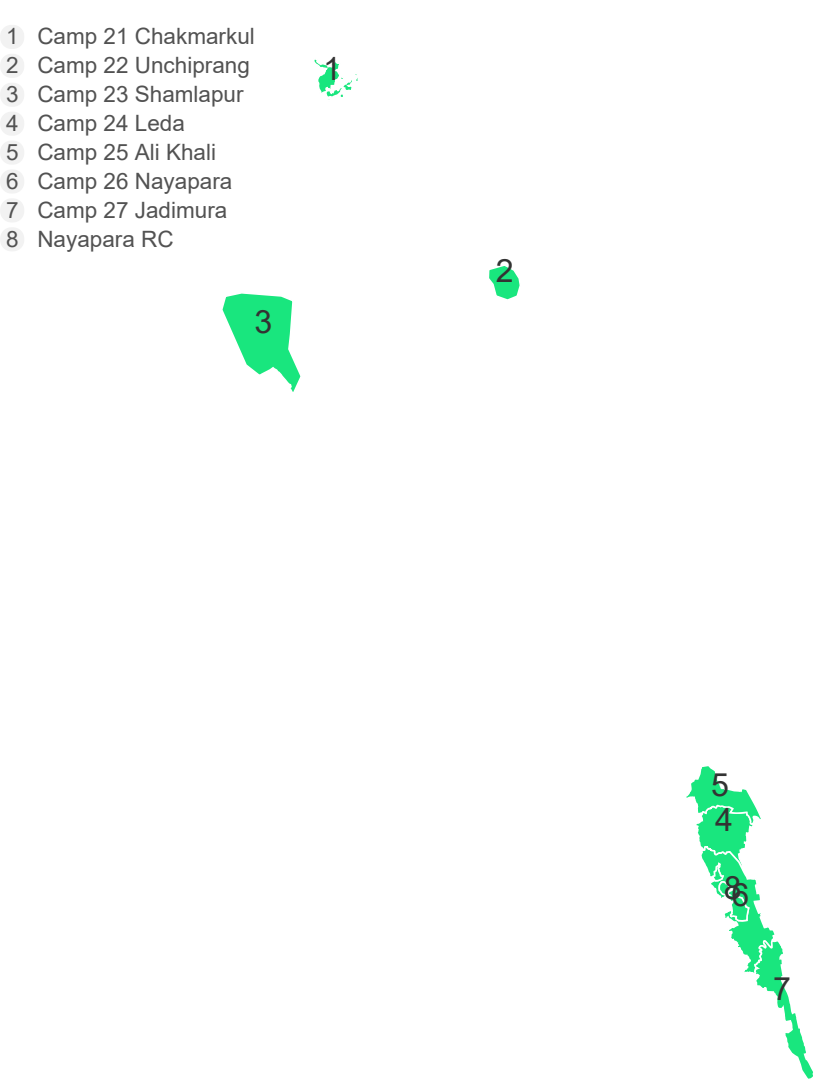
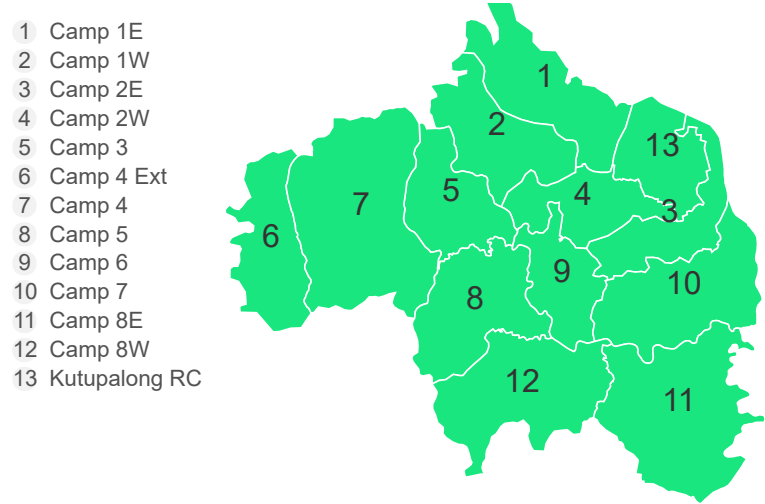


Table 4 | Performance by camp (W28 2023)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	4	100%	100%
Camp 1W	4	4	100%	100%
Camp 2E	3	3	100%	100%
Camp 2W	4	3	75%	75%
Camp 3	3	2	67%	67%
Camp 4	5	5	100%	90%
Camp 4 Ext	1	1	100%	100%
Camp 5	4	4	100%	100%
Camp 6	2	2	100%	100%
Camp 7	4	4	100%	75%
Camp 8E	9	9	100%	100%
Camp 8W	3	3	100%	100%
Kutupalong RC	2	2	100%	100%

Map 2 | Completeness by camp



Completeness

0

25%

50%

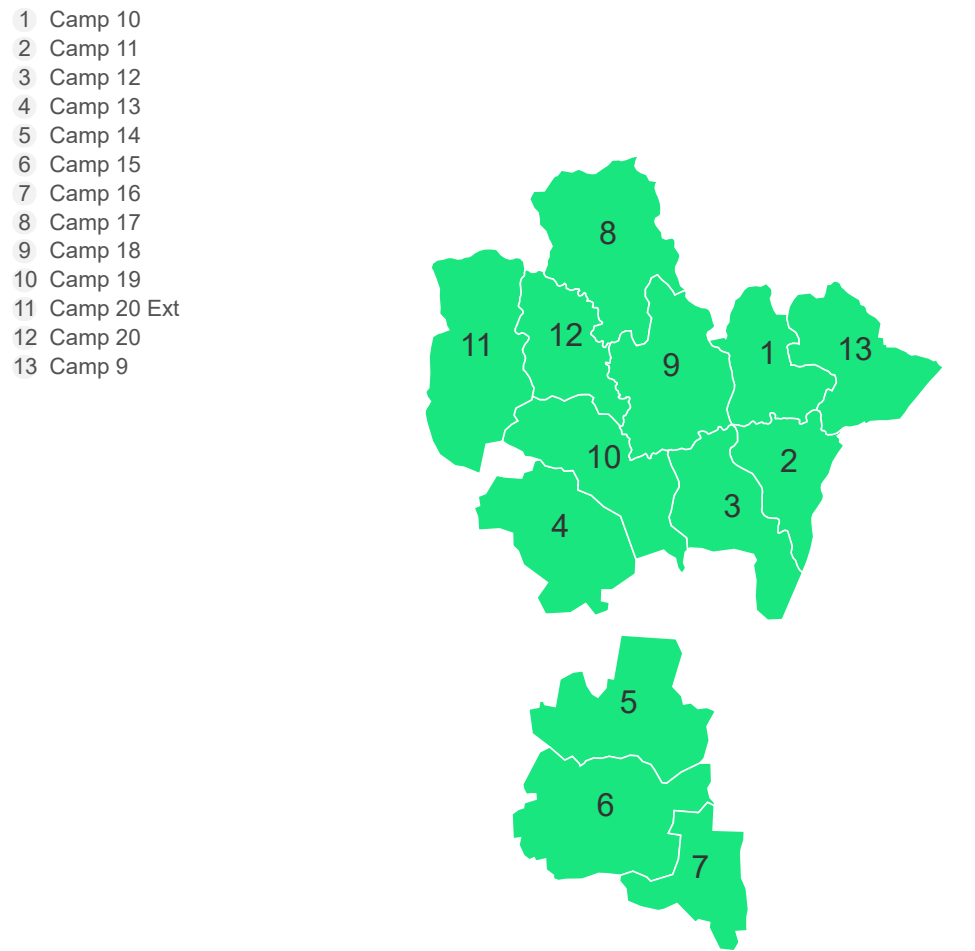
75%

100%

Table 5 | Performance by camp (W28 2023)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	88%
Camp 11	3	3	100%	100%
Camp 12	5	5	100%	60%
Camp 13	7	7	100%	79%
Camp 14	6	6	100%	75%
Camp 15	8	7	88%	88%
Camp 16	7	6	86%	86%
Camp 17	3	2	67%	67%
Camp 18	4	3	75%	75%
Camp 19	3	3	100%	100%
Camp 20	3	3	100%	100%
Camp 20 Ext	2	2	100%	100%
Camp 9	5	5	100%	100%

Map 3 | Completeness by camp



Completeness

0

25%

50%

75%

100%

Table 6 | Performance by camp (W28 2023)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	3	3	100%	83%
Camp 22 Unchiprang	4	3	75%	75%
Camp 23 Shamlapur	2	2	100%	75%
Camp 24 Leda	2	2	100%	100%
Camp 25 Ali Khali	3	3	100%	100%
Camp 26 Nayapara	4	4	100%	88%
Camp 27 Jadimura	2	2	100%	100%
Nayapara RC	2	2	100%	100%

Map 4 | Completeness by camp

- 1 Camp 21 Chakmarkul
- 2 Camp 22 Unchiprang
- 3 Camp 23 Shamlapur
- 4 Camp 24 Leda
- 5 Camp 25 Ali Khali
- 6 Camp 26 Nayapara
- 7 Camp 27 Jadimura
- 8 Nayapara RC

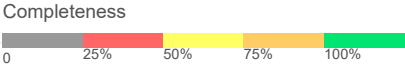
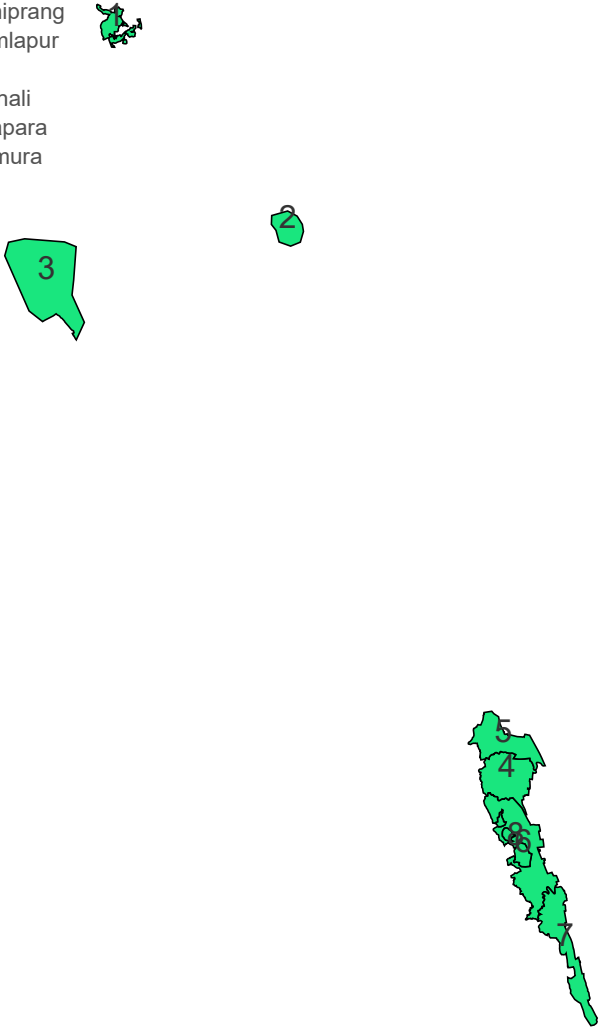


Table 7 | Performance by partner (W28 2023)

Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	2	1	50%	50%	IRC	6	3	100%	100%
AWARD	12	6	50%	50%	MSF	16	7	88%	88%
BASHMAH	2	1	50%	0%	MoH	24	10	83%	83%
BDRCS	18	9	50%	44%	MHI	2	1	100%	100%
BRAC	10	10	50%	50%	Medair	0	0		
CARE	8	4	50%	0%	FH/MTI	8	4	100%	100%
GH/CPI	2	1	50%	50%	PRANTIC	2	1	50%	50%
DBC	2	1	50%	50%	PULSE	2	1	50%	50%
DSK	2	0	0%	0%	QC	2	1	50%	50%
DCHT-PWJ	2	1	50%	50%	PHD	16	6	75%	75%
FRNDS	8	4	100%	100%	RPN	4	2	50%	50%
GK	20	9	90%	90%	RHU	6	3	50%	100%
Global One	0	0			RI	0	0		
GUSS	2	1	50%	50%	RTMI	14	7	100%	100%
HAEFA	4	2	50%	50%	SALT	2	1	50%	50%
HAIB	0	0			SCI	12	6	100%	100%
HMBDF	4	2	100%	100%	DCHT-MM	2	1	50%	50%
HOPE	2	1	50%	50%	Turkish Government	2	1	50%	50%
ICRC	0	0			TdH	4	2	100%	100%
IOM	38	19	100%	95%					

Table 8 | Performance by camp

Northern group	W28		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	3	67%	73	93%
Camp 1W	2	100%	105	93%
Camp 2E	10	50%	267	90%
Camp 2W	4	75%	127	98%
Camp 3	2	100%	102	99%
Camp 4	0	0%	99	91%
Camp 4 Ext	0	0%	21	95%
Camp 5	2	0%	53	85%
Camp 6	2	50%	48	94%
Camp 7	1	100%	45	91%
Camp 8E	1	0%	67	96%
Camp 8W	4	50%	114	95%
Kutupalong RC	1	0%	35	89%

Map 5 | Number of alerts by camp

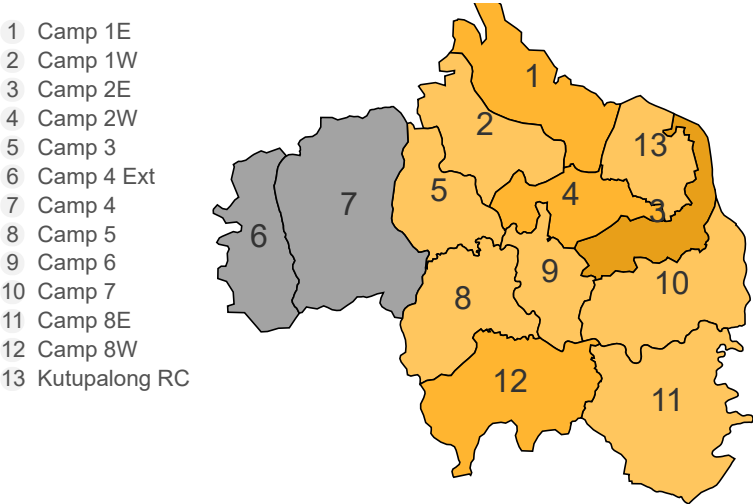
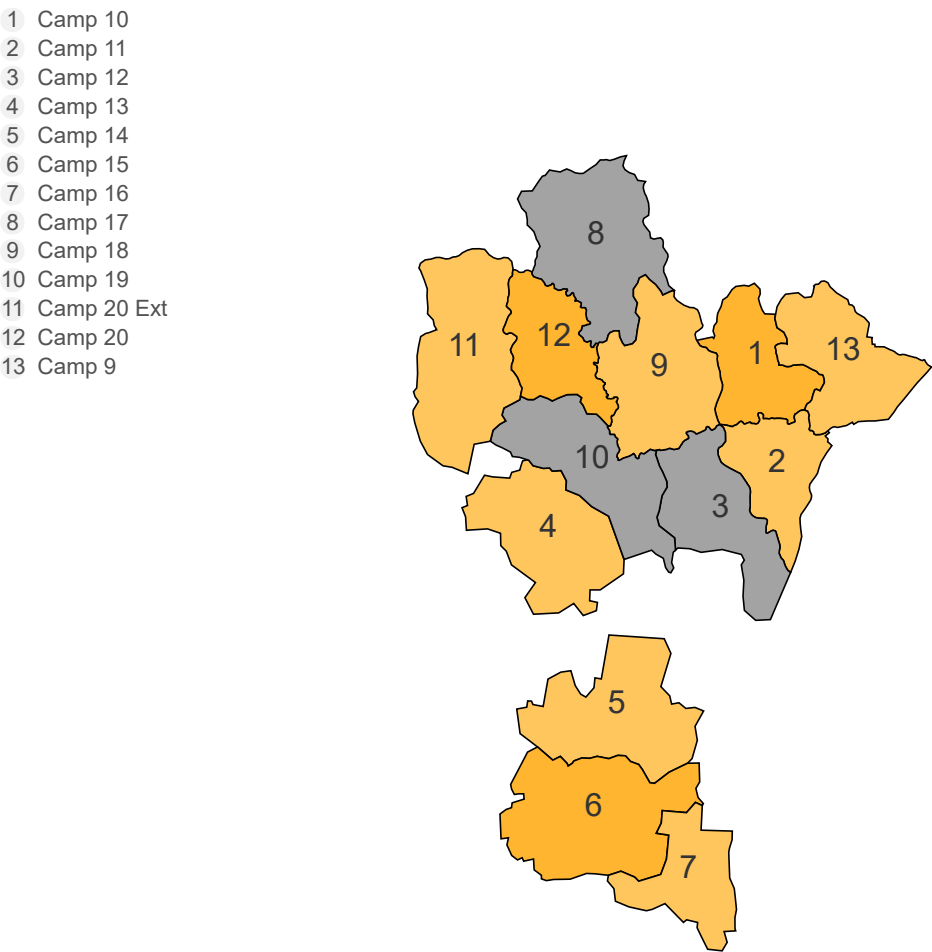


Table 9 | Performance by camp

Southern group	W28		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	3	33%	41	88%
Camp 11	1	100%	35	97%
Camp 12	0	0%	51	94%
Camp 13	1	0%	76	95%
Camp 14	1	100%	69	97%
Camp 15	4	25%	75	93%
Camp 16	1	100%	62	98%
Camp 17	0	0%	32	97%
Camp 18	2	0%	97	92%
Camp 19	0	0%	12	100%
Camp 20	3	67%	44	86%
Camp 20 Ext	1	100%	14	100%
Camp 9	2	100%	67	91%

Map 6 | Number of alerts by camp



of alerts

0

2

5

10

Table 10 | Performance by camp

Teknaf	W28		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	4	100%	60	100%
Camp 22 Unchiprang	3	67%	60	93%
Camp 23 Shamlapur	0	0%	3	100%
Camp 24 Leda	6	67%	138	94%
Camp 25 Ali Khali	0	0%	11	91%
Camp 26 Nayapara	2	0%	20	90%
Camp 27 Jadimura	2	100%	7	100%
Nayapara RC	0	0%	28	93%

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

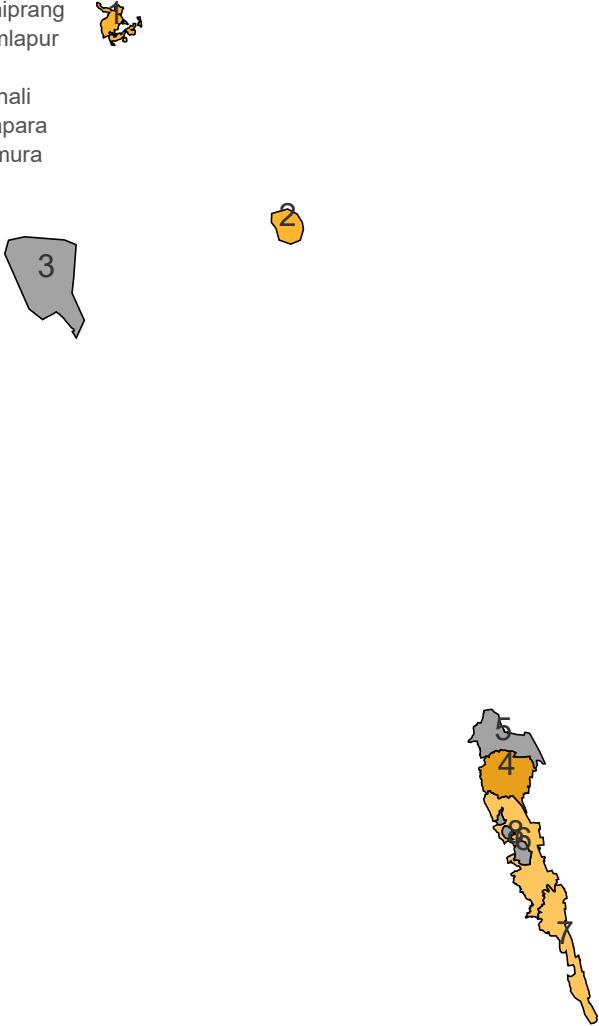


Table 11 | Performance by type of alert

Event	W28		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	3	100%	64	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	9	89%
Meningitis	0	0%	12	92%
Haem. fever (susp.)	0	0%	9	78%
NNT	0	0%	1	100%
Unexp. fever	0	100%	33	100%
AWD	0	100%	30	100%
ARI	0	0%	27	100%
AJS	0	0%	21	95%
Varicella (Susp.)	0	0%	92	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	7	0%	168	77%

Table 12 | Risk assessment

W28	Cumulative (2023)	
0	0	Low risk
0	0	Moderate risk
0	0	High risk
0	0	Very high risk

For more help and support, please contact:

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Notes

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

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

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

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



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Global
EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Annex W28 2023



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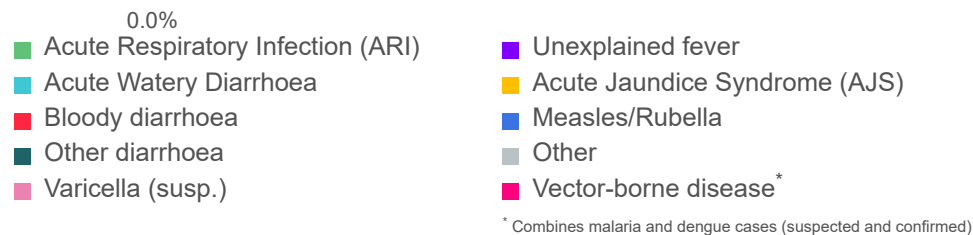
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Proportional morbidity

Figure 1 | Proportional morbidity (W28 2023)



Disease	W28		2023	
	# cases	% morbidity	# cases	% morbidity
AWD	2,654	2.4%	73,712	2.6%
Bloody diarr.	254	0.2%	7,276	0.3%
Other diarr.	1,185	1.1%	35,756	1.2%
Susp. Varicella	74	0.1%	28,889	1.0%
ARI	18,795	17.3%	531,200	18.5%
Measles/Rub.	19	0.0%	467	0.0%
AFP	0	0.0%	128	0.0%
Susp. menin.	4	0.0%	139	0.0%
AJS	27	0.0%	516	0.0%
Susp. HF	3	0.0%	207	0.0%
Neo. tetanus	0	0.0%	3	0.0%
Adult tetanus	0	0.0%	7	0.0%
Malaria (conf.)	8	0.0%	114	0.0%
Malaria (susp.)	128	0.1%	2,208	0.1%
Dengue (conf.)	933	0.9%	6,510	0.2%
Dengue (susp.)	272	0.3%	2,502	0.1%
Unexpl. fever	1,475	1.4%	24,435	0.8%
Sev. Malnut.	71	0.1%	1,928	0.1%
Inj./Wounds	2,634	2.4%	72,133	2.5%
Other	79,743	73.6%	2,084,763	72.5%
Total	106,917	100%	2,876,419	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W28)

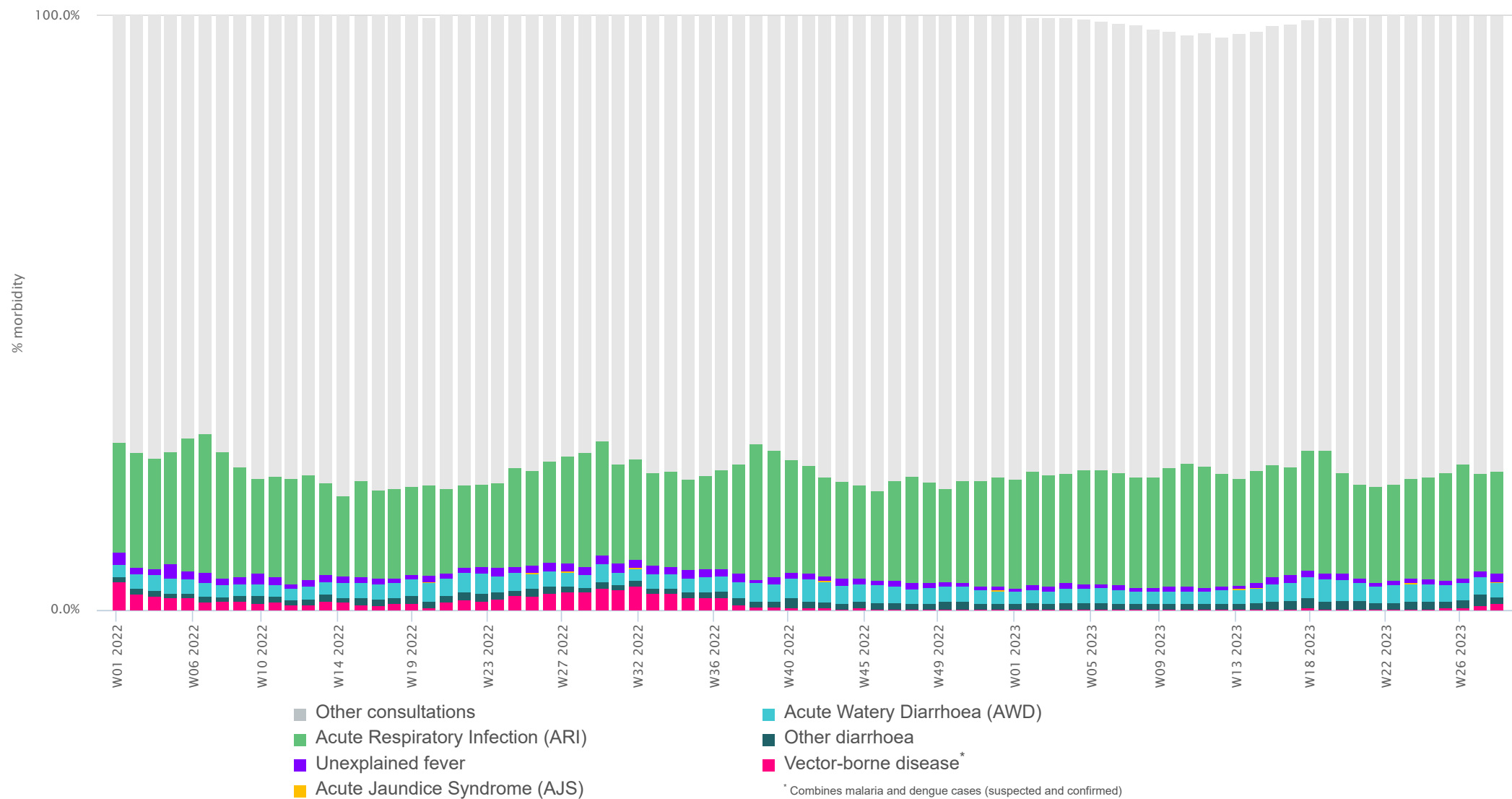
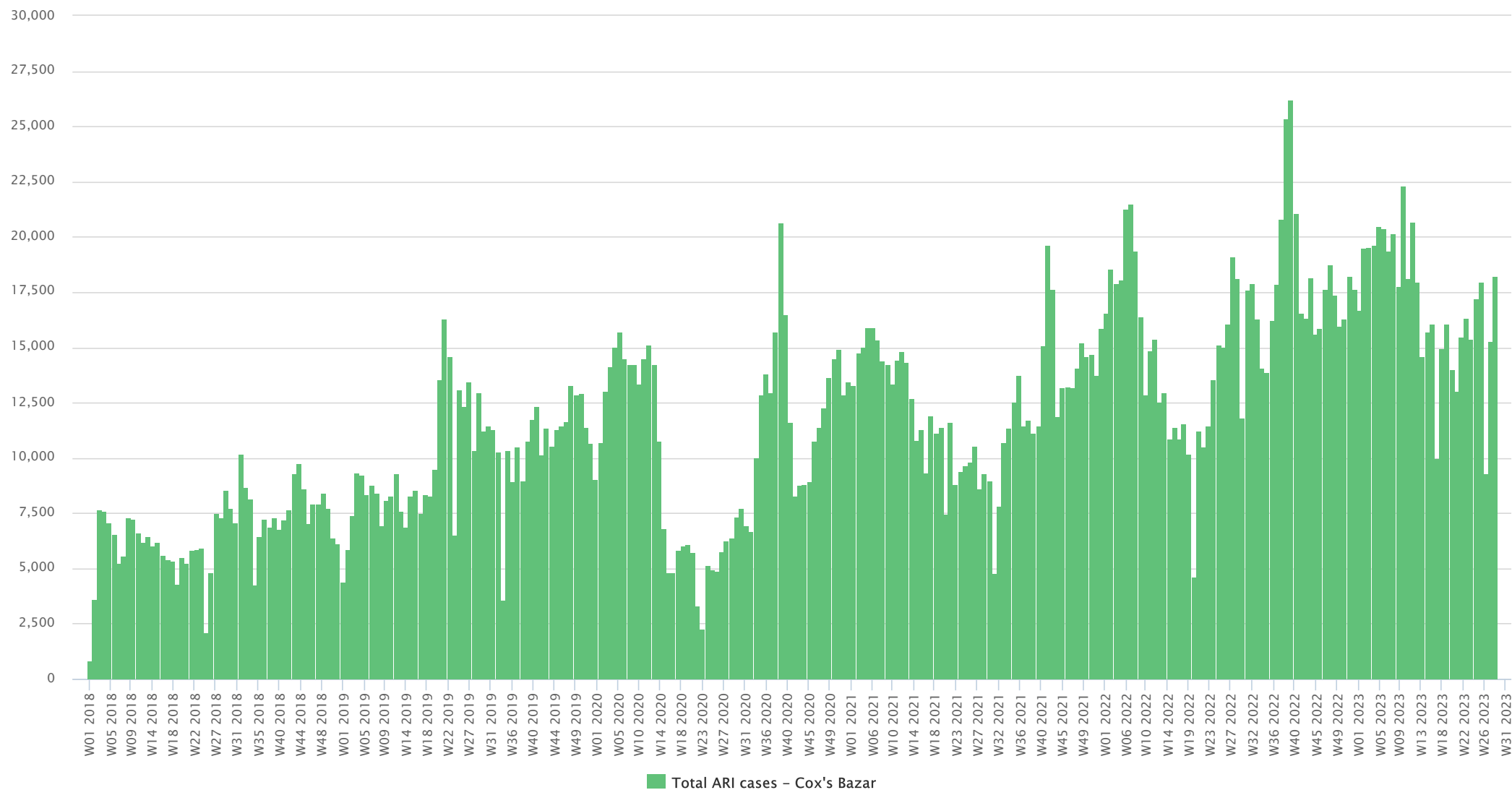
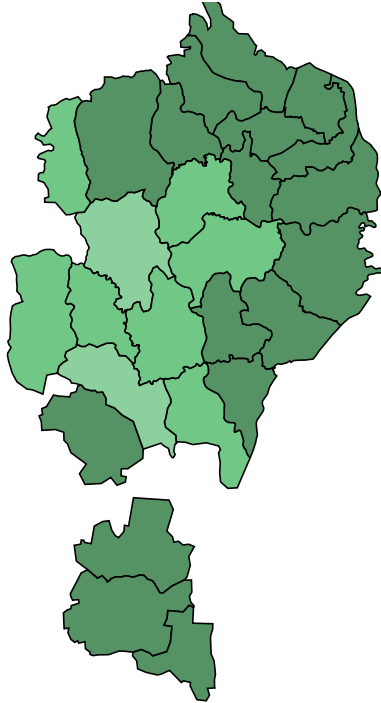


Figure 3 | Trend in number of cases over time (W38 2017 - W28 2023)

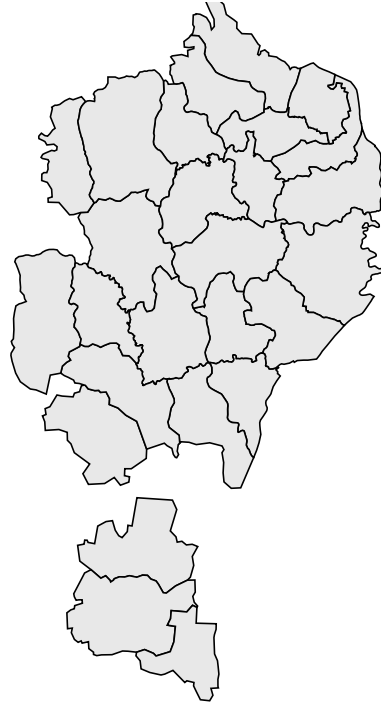


Map 1 | Map of cases by camp (W28 2023)

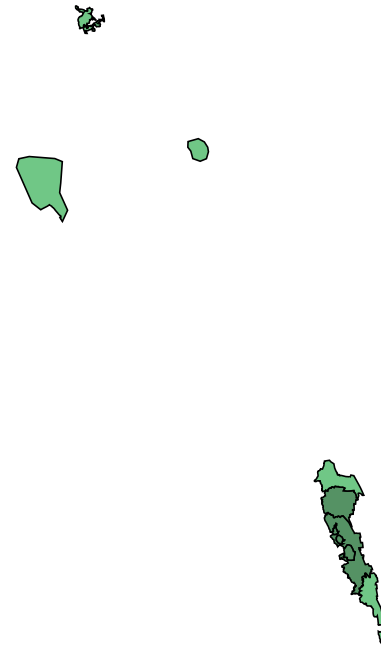
a. Ukhia | Number of cases



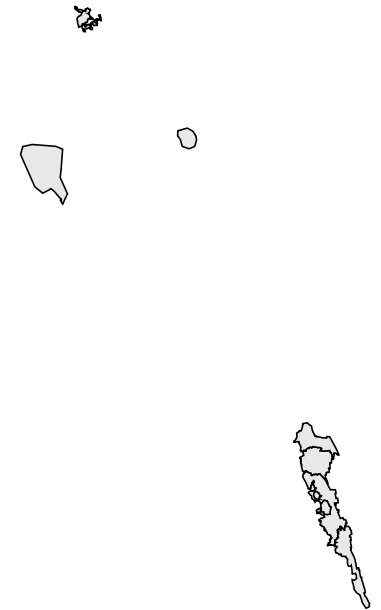
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts

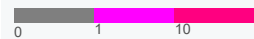


Map legend

Number of cases



Number of alerts



Alert threshold

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

Alert management (W28 2023)

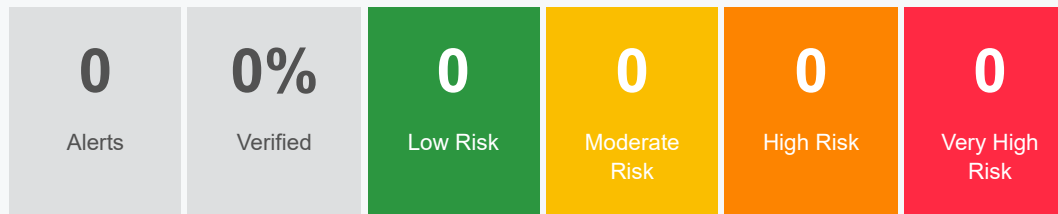
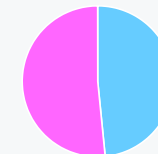
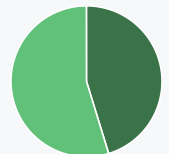


Figure | % sex



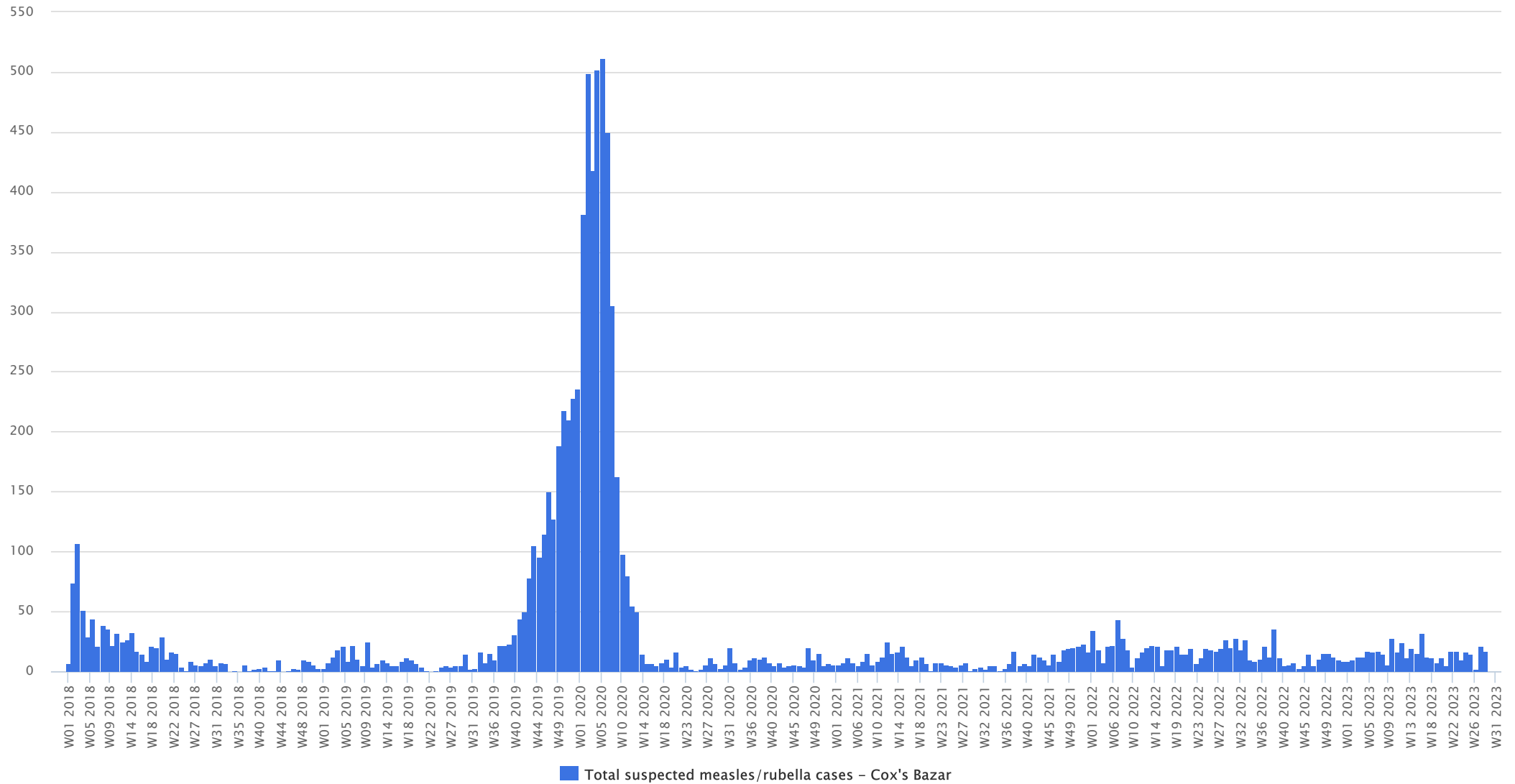
Male Female

Figure | % age



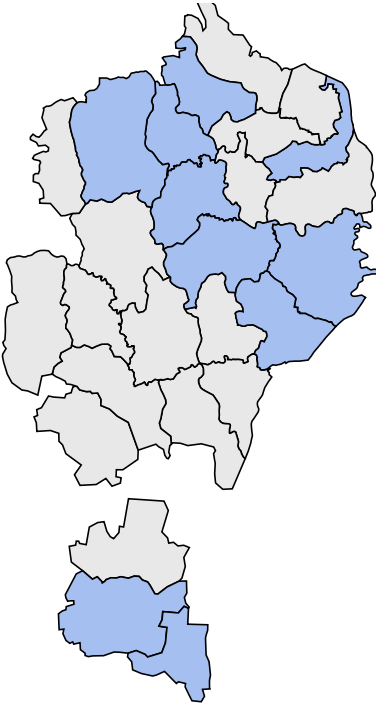
>=5 < 5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W28 2023)



Map 2 | Map of cases by camp (W28 2023)

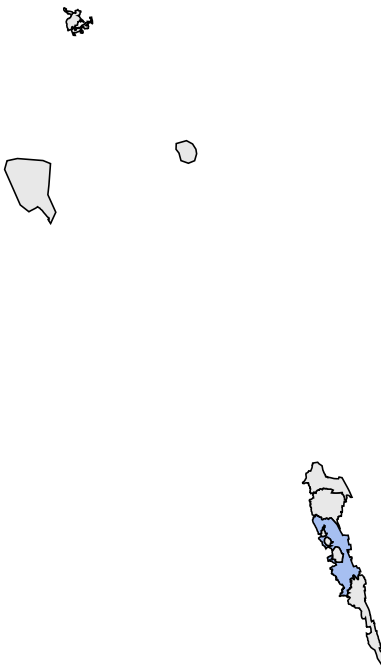
a. Ukhia | Number of cases



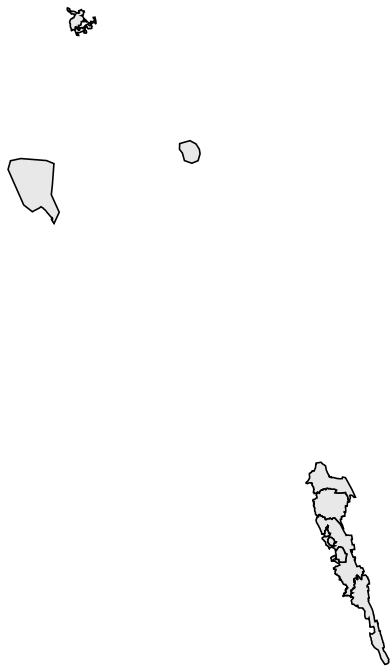
b. Ukhia | Number of alerts



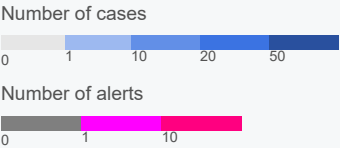
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W28 2023)

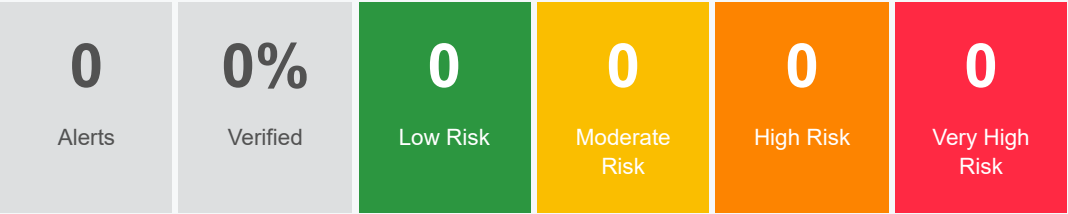


Figure | % sex

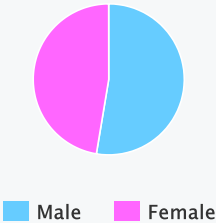


Figure | % age

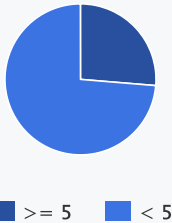
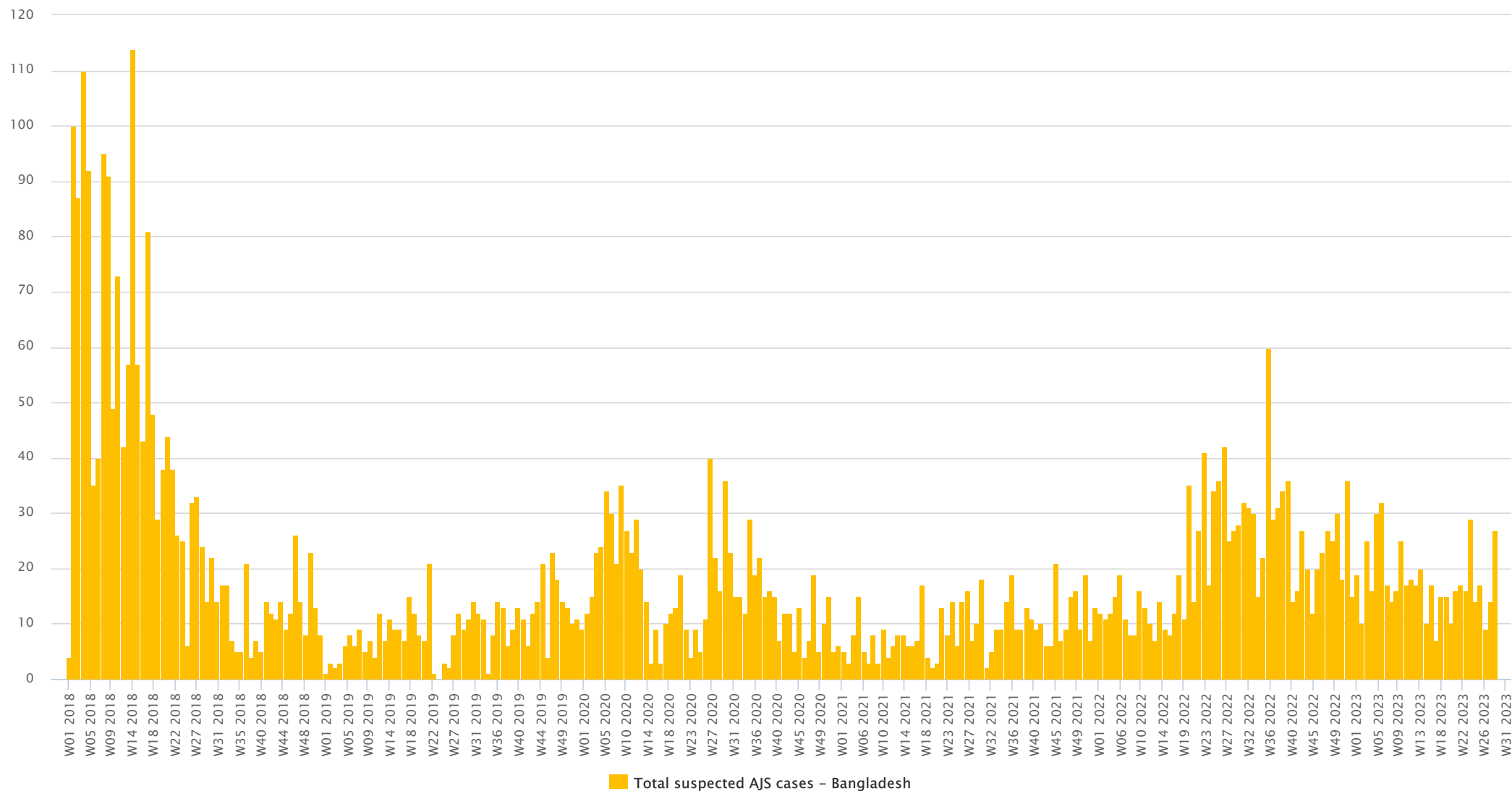
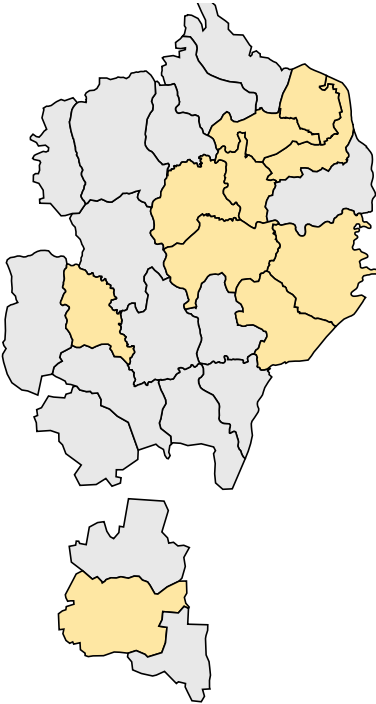


Figure 5 | Trend in number of cases over time (W38 2017 - W28 2023)



Map 3 | Map of cases by camp (W37 2017 - W28 2023)

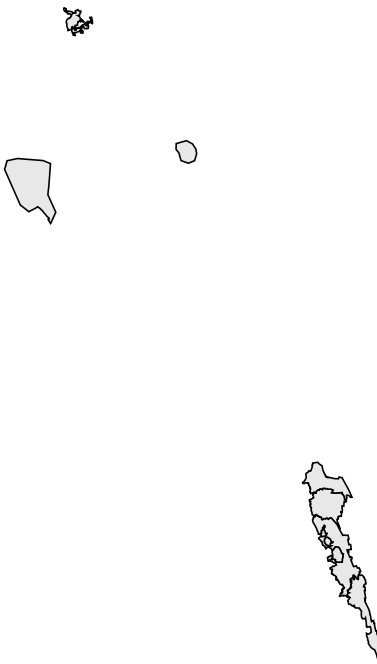
a. Ukhia | Number of cases



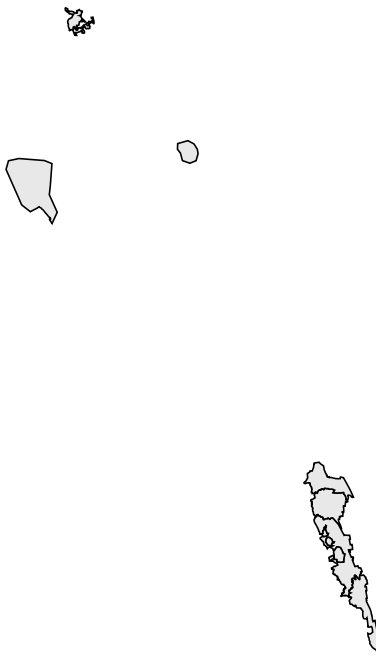
b. Ukhia | Number of alerts



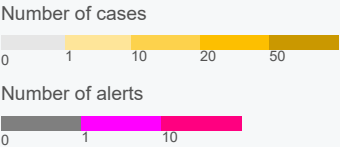
c. Teknaf | Number of cases



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 (W28 2023)

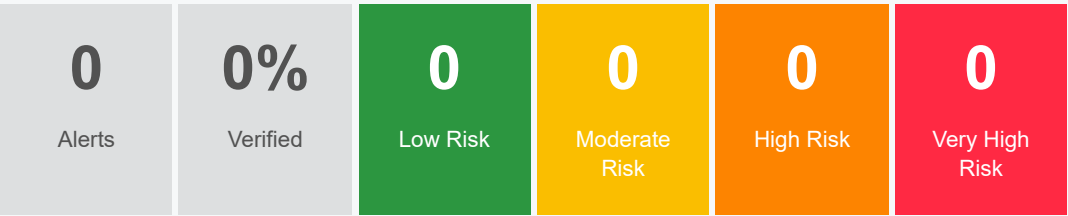


Figure | % sex

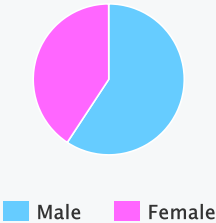


Figure | % age

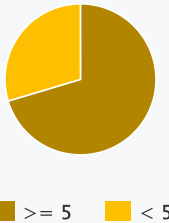


Figure 6 | Trend in number of cases over time (W38 2017 - W28 2023)

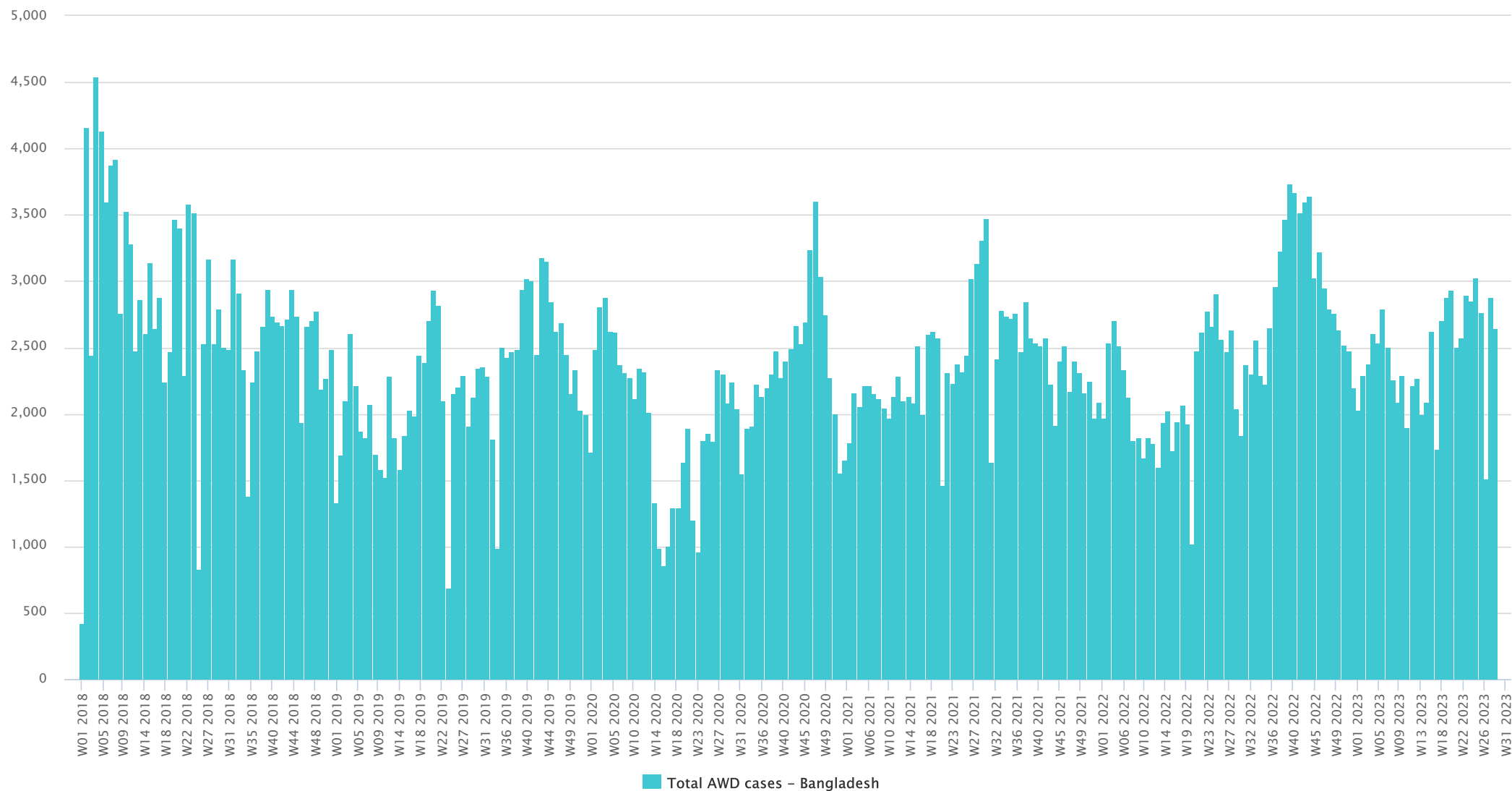
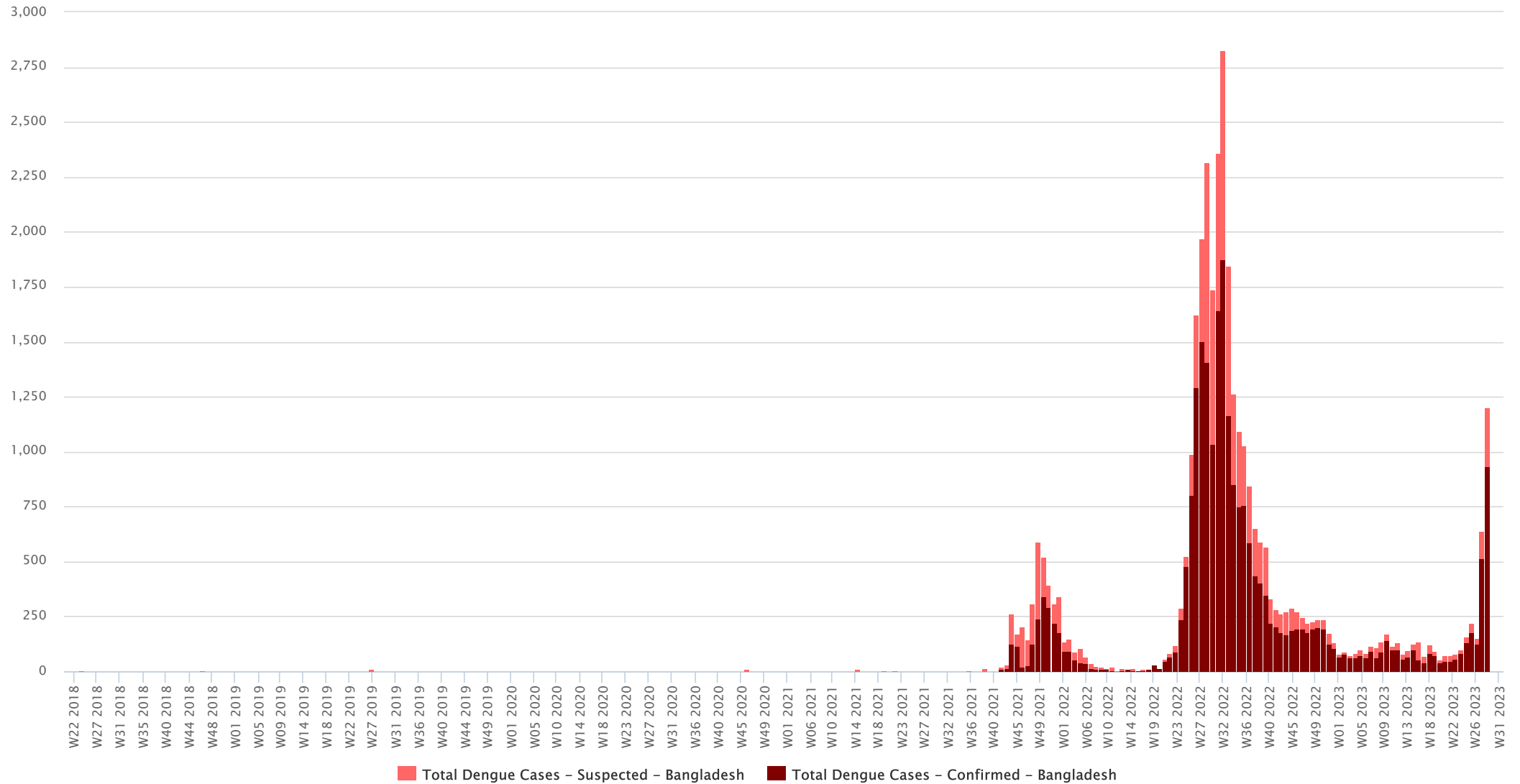
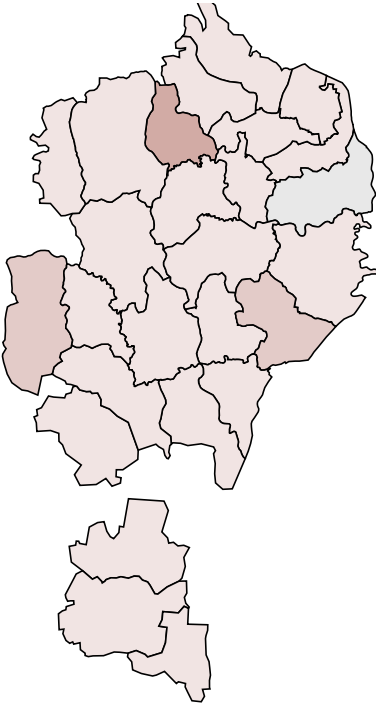


Figure 7 | Trend in number of cases over time (W38 2017 - W28 2023)



Map 4 | Map of cases by camp (W37 2017 - W28 2023)

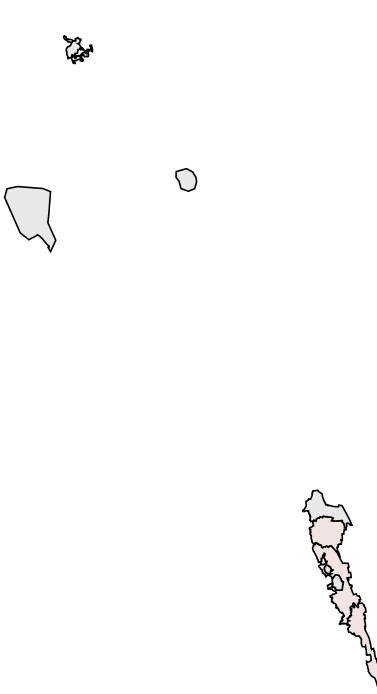
a. Ukhia | Number of cases



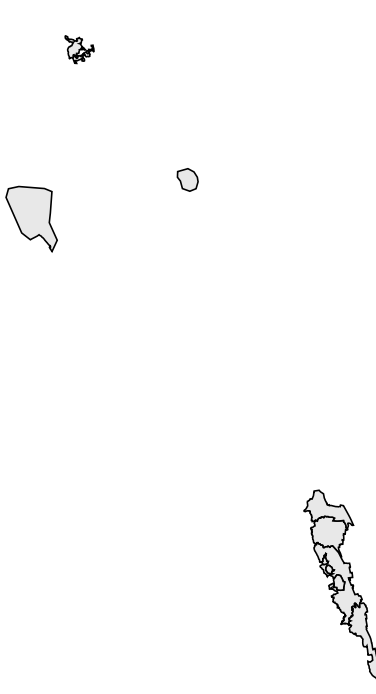
b. Ukhia | Number of alerts



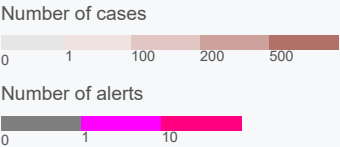
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W28 2023)

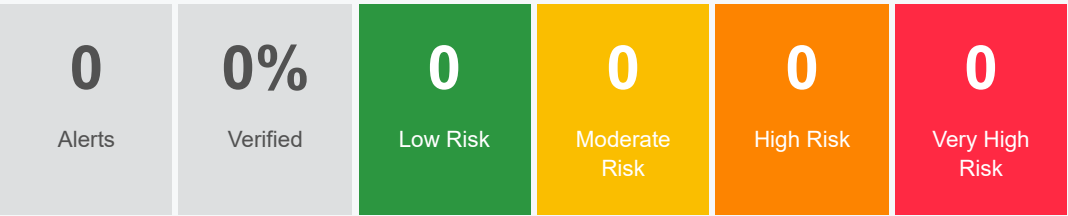


Figure | % sex

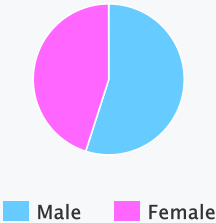


Figure | % age

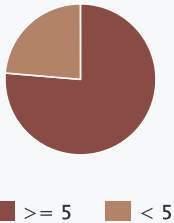
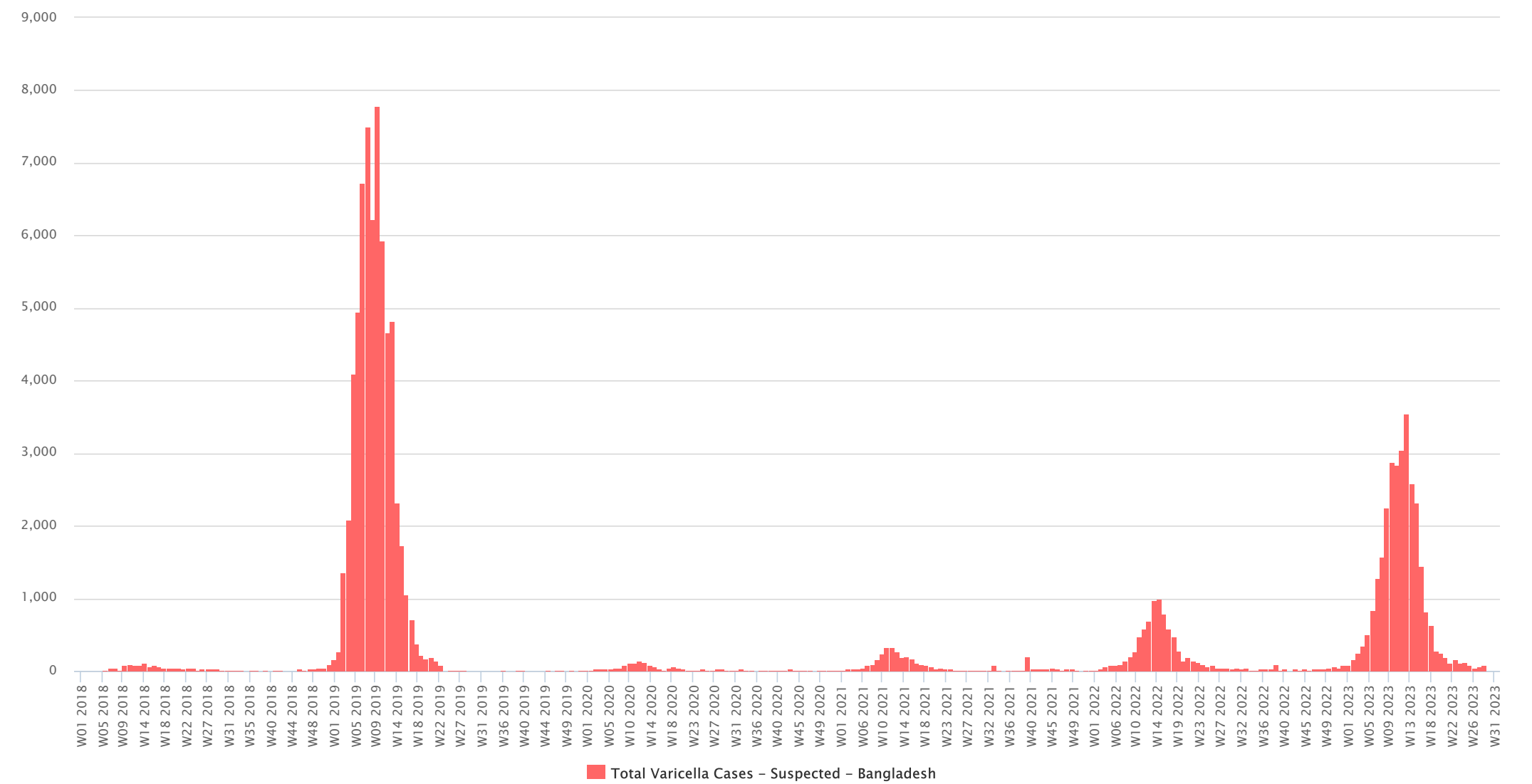
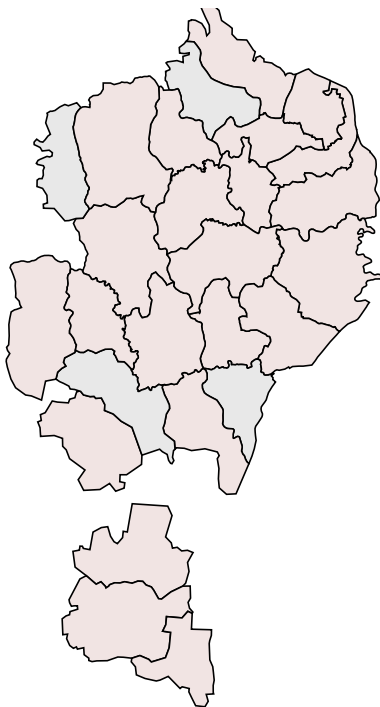


Figure 7 | Trend in number of cases over time (W38 2017 - W28 2023)

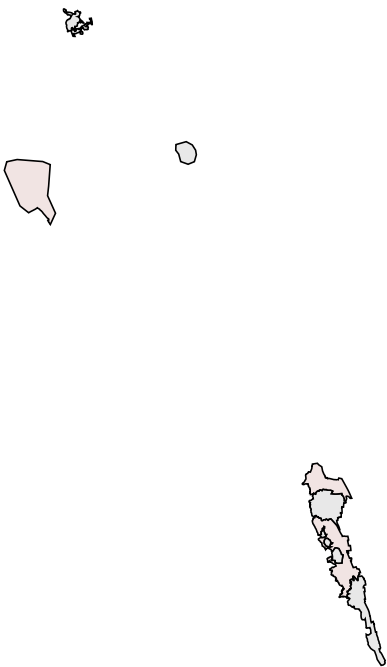


Map 4 | Map of cases by camp (W37 2017 - W28 2023)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

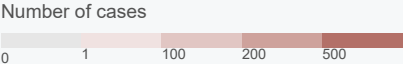


Figure | % sex

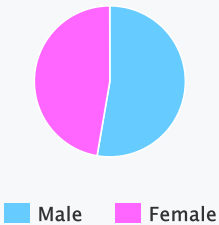
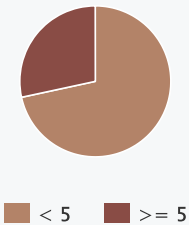


Figure | % age



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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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