



Epidemiological Highlights

Week 16 (16-22 Apr) 2023



World Health
Organization

EWARS Reporting Updates for Epi week 16, 2023

Currently, a total of **158 health facilities** are registered in EWARS

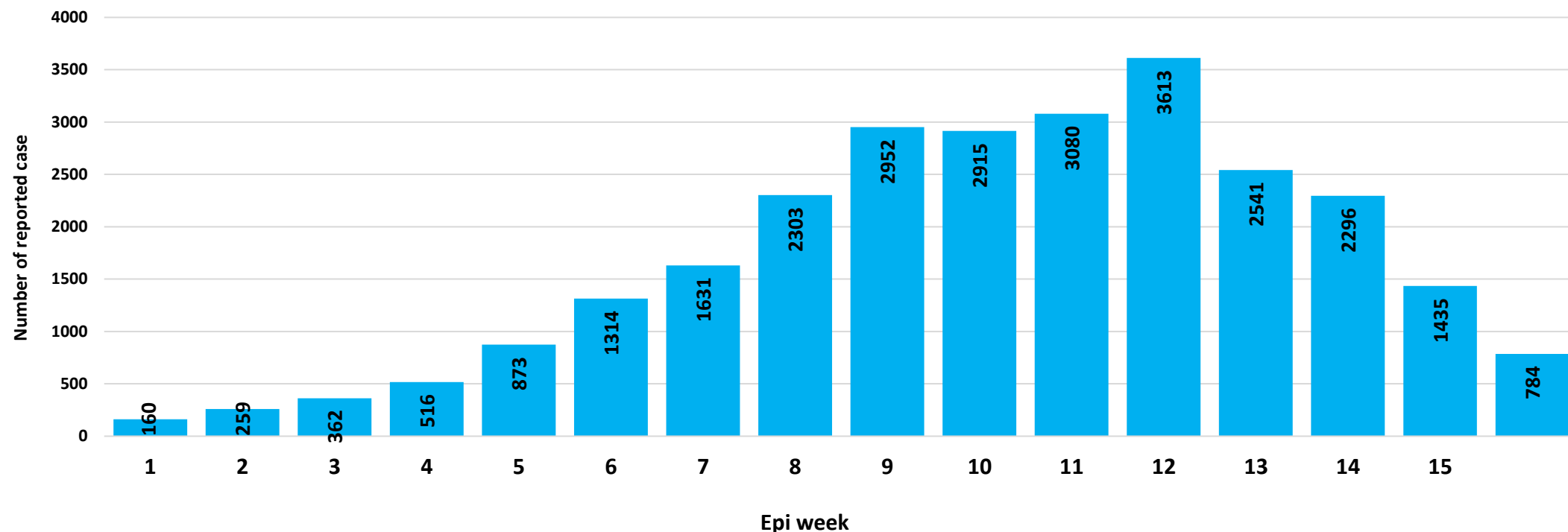
- Of those 134 weekly reports were received on time in week 16 in 2023
- Timeliness and completeness of weekly reporting were 85% which is above the national weekly threshold
- Thirty-five (35) alerts were triggered
- All alerts were reviewed and verified by the WHO EWARS team; this is a 35% decrease from the previous week (54 alerts in week 15, 2023)

Weekly Proportionate Morbidity and SARI Mortality among the FDMN population from 2020-Epi 16, 2023

- Acute Respiratory Infections (18.2%), Acute Watery Diarrheal Diseases (3.1%), and Injury and wounds (3.4%) 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, No new SARI deaths were 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	25 (0)	0
2022	136	8
2021	96	15
2020	49	2

Weekly Trends of suspected Varicella Cases in FDMN Camps from Epi week 1-16, 2023



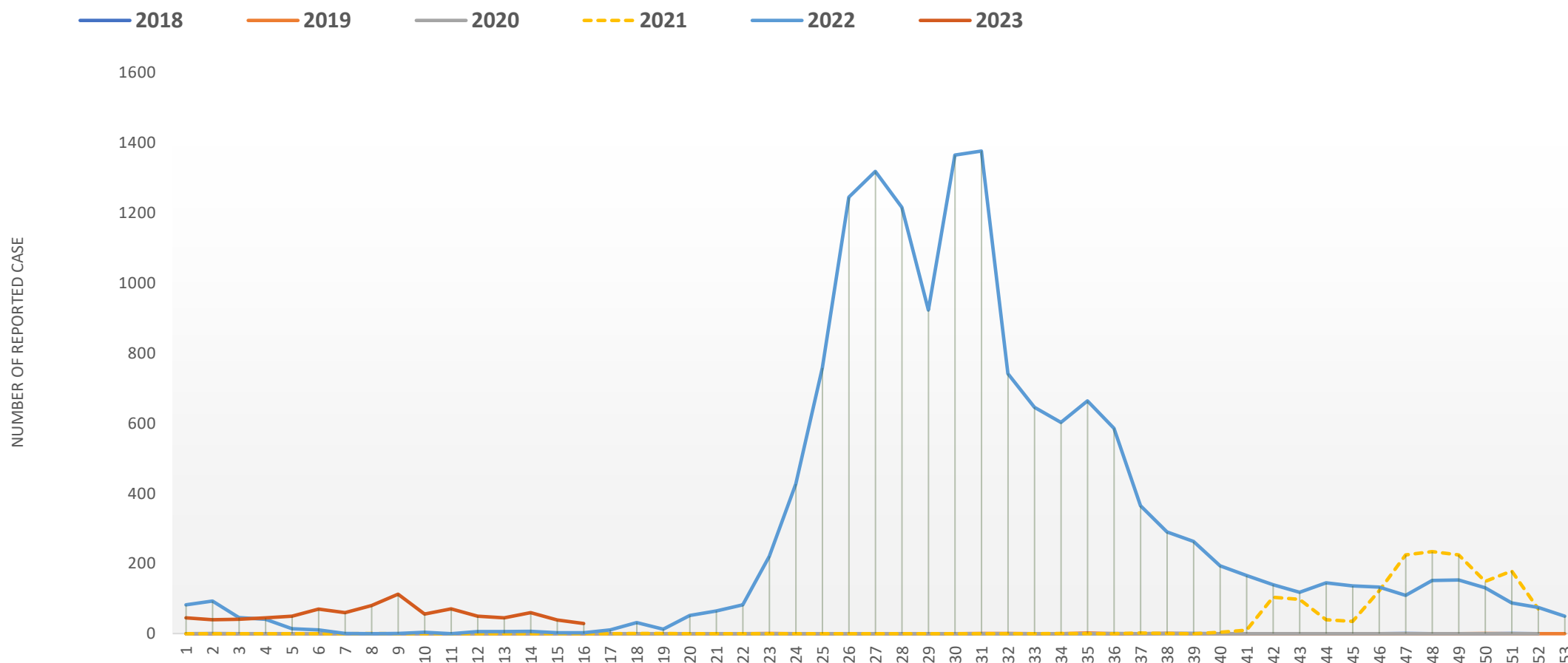
This reporting week, 784 new suspected cases of Varicella were reported through EWARS

So far In 2023, a cumulate total of 27,034 suspected Varicella cases have been reported with trends beginning to decline in Epi week 13 upon peaking in Epi week 12 as shown above

There has been an exponential increase in the number of suspected varicella cases reported in most weeks of 2023 compared to a similar period in the previous years

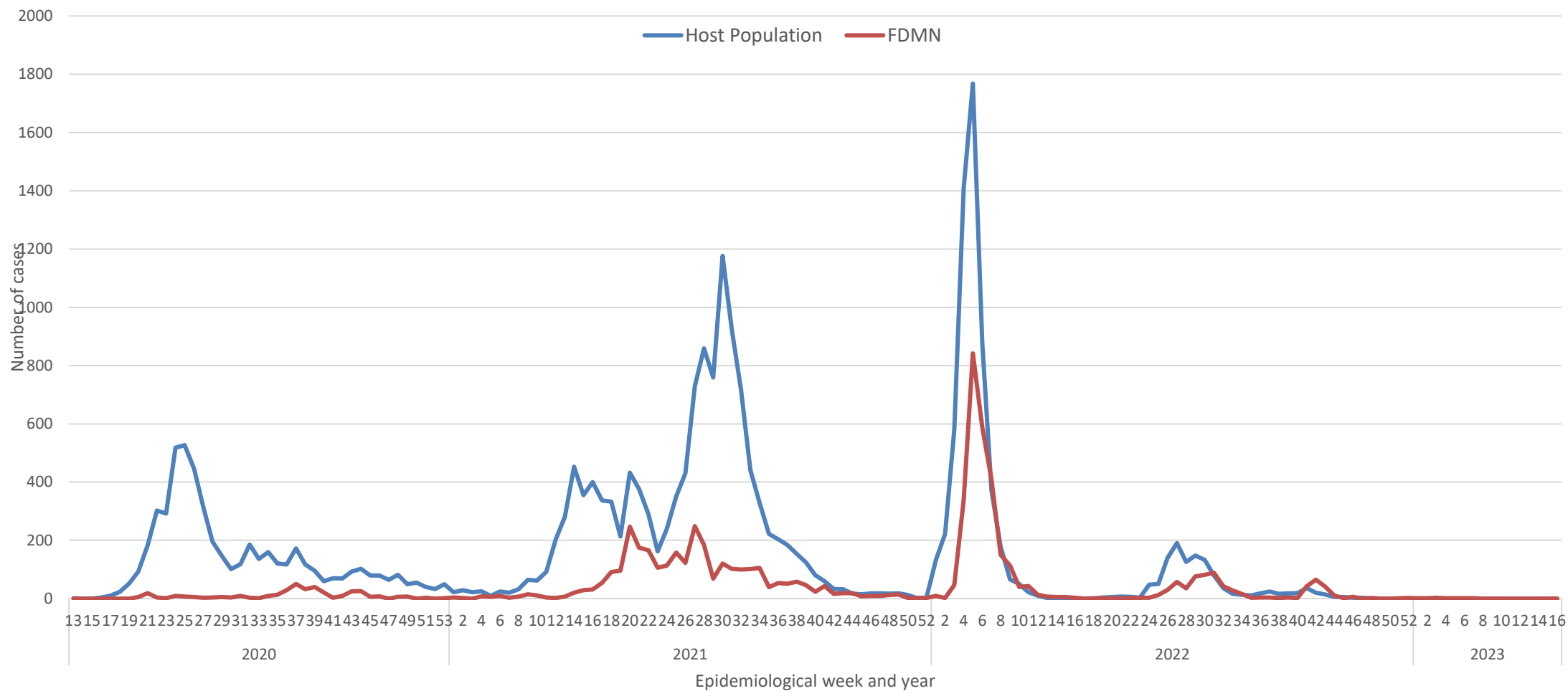
Varicella contributes 1.4 % of weekly proportional morbidity among total consultations. No fatalities reported yet

Annual trends of confirmed Dengue cases among FDMN and host population in Cox's Bazar from 2018 to Epi Week 16, 2023



- ❑ This Epidemiological week, 28 confirmed Dengue fever cases were reported from mainly in Rohingya Refugees FDMN camps
- ❑ Cumulative of 892 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

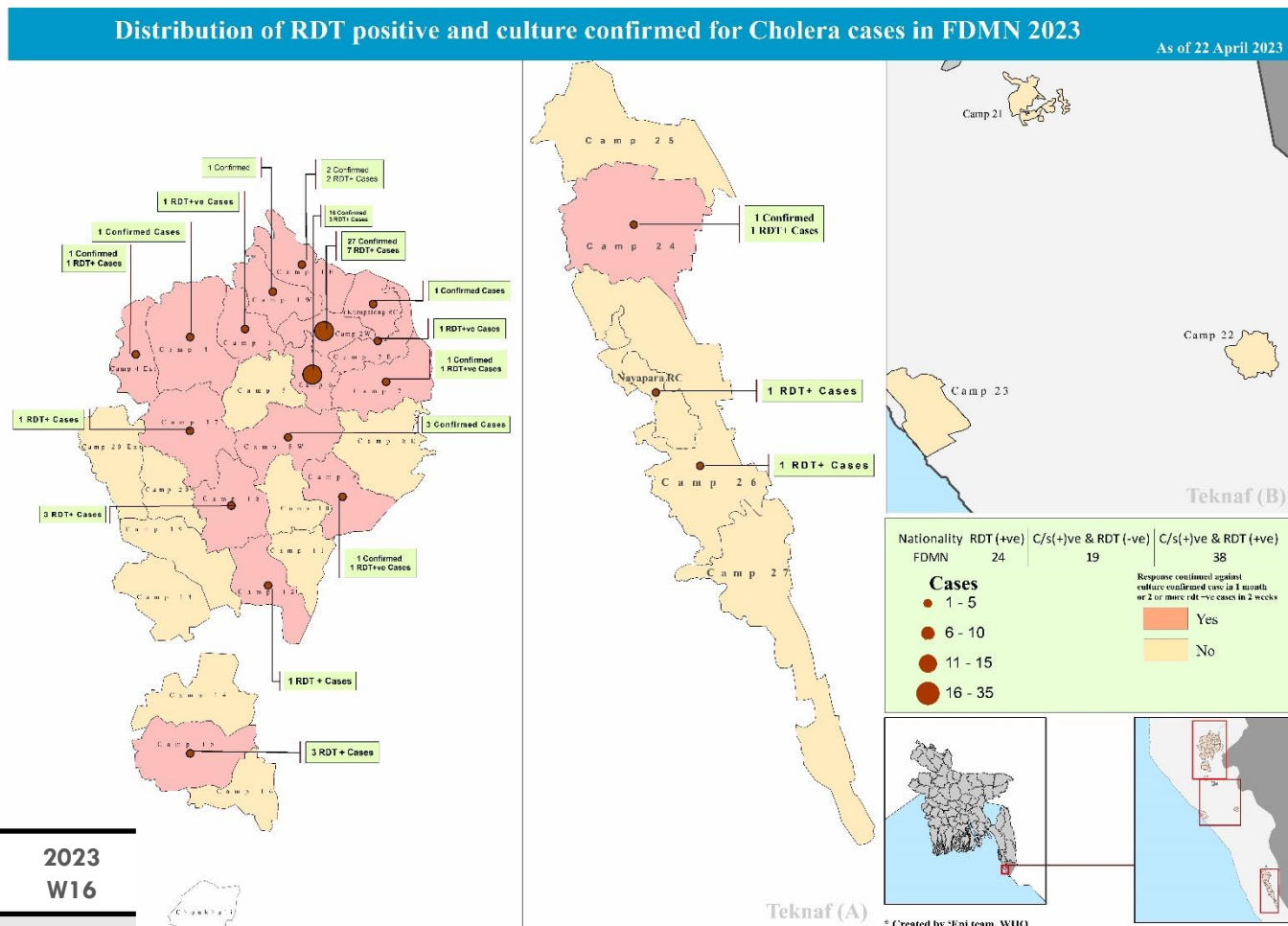
Weekly Trends of COVID-19 Cases among FDMN and Host population in Cox's Bazar District from Epi week 13,2020- Epi week 16, 2023



The COVID-19 transmission appears to be under control in the two populations and zero weekly caseloads has been sustained so far in 2023 among host population and for **Nine(09)** weeks among FDMN population.

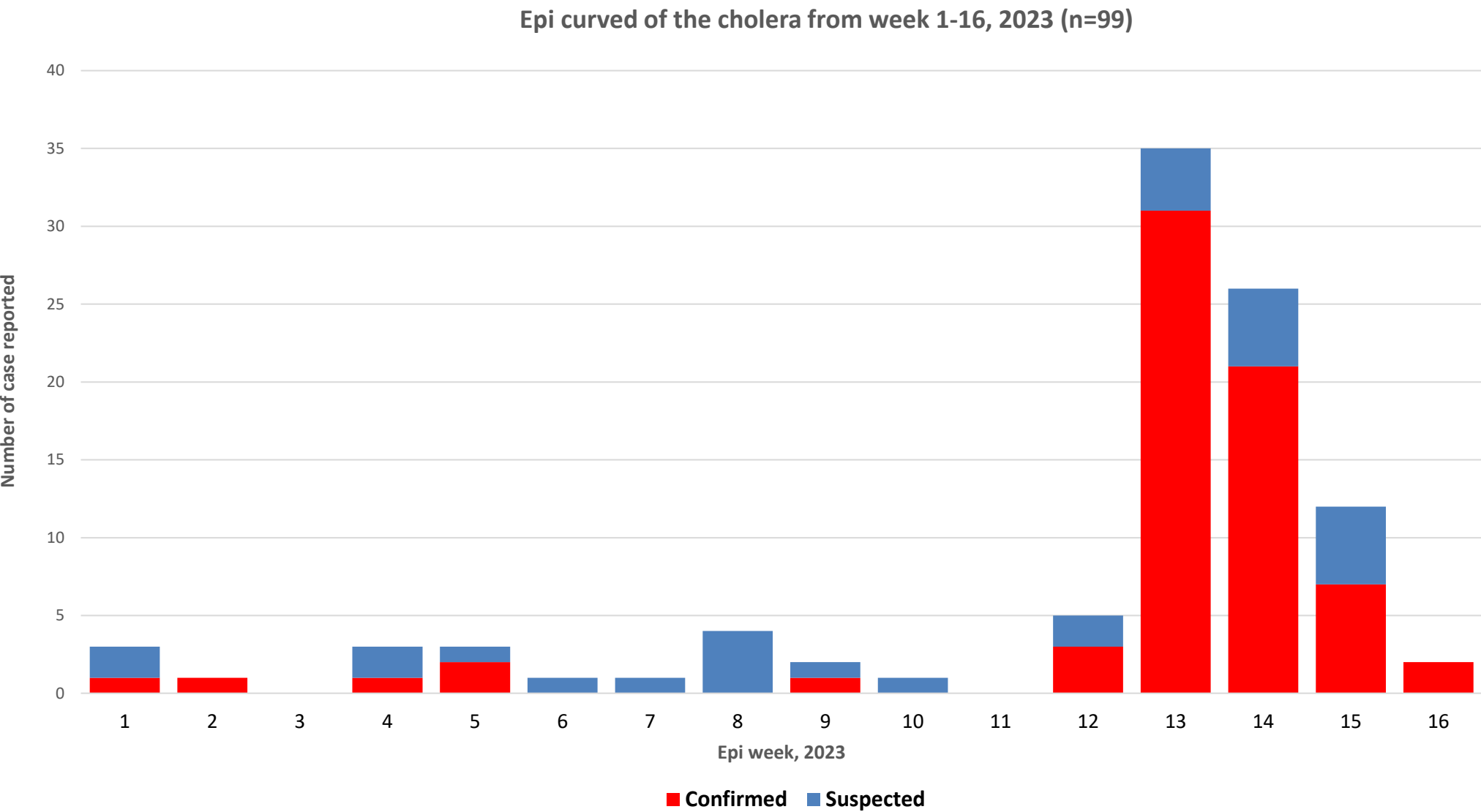
Cholera/AWD Surveillance Updates

- In this week, there are 2 culture-confirmed cases were reported
- A total of 99 cases of which 29 RDT-positive AWD/cholera suspected cases and 70 culture-confirmed Cholera cases have so far been reported in (Epi week 1-16) 2023.
- Cumulatively there are 961 RDT AWD cases/Cholera suspects have been reported while 472 cases were culture-confirmed since transmission in 2018.



	2018	2019	2020	2021	2022	2023 W16
RDT positive AWD cases & culture confirmed for Cholera cases	49	258	28	357	170	99
Culture confirmed for Cholera	7	184	5	136	70	70

Weekly trends of suspected and confirmed cholera cases from Week 1-16



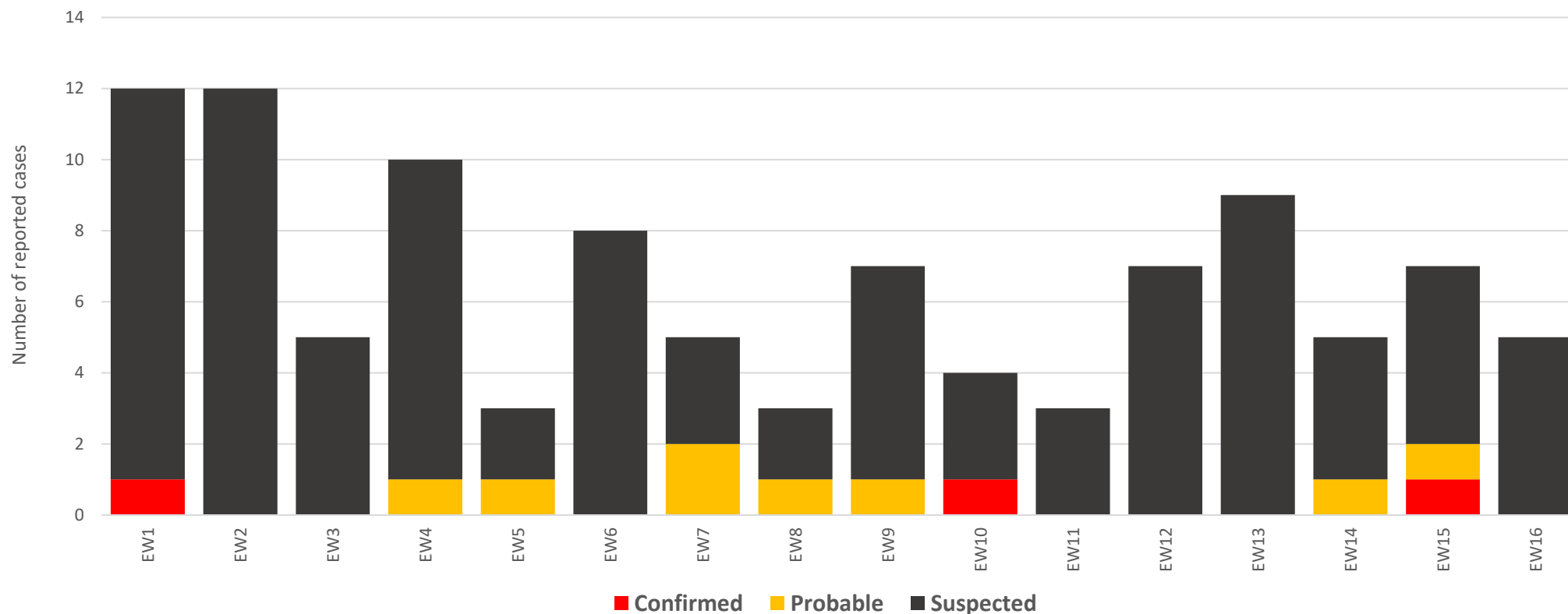
Weekly and annual Diphtheria Surveillance Updates from 2017- Epi week 16, 2023

- Five (5) suspected diphtheria cases were reported in go.data in this Epi week
- The last confirmed case was reported on 13 April 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	3	8
Suspected	1796	3549	523	198	118	349	94
Death	30	14	3	0	5	2	0

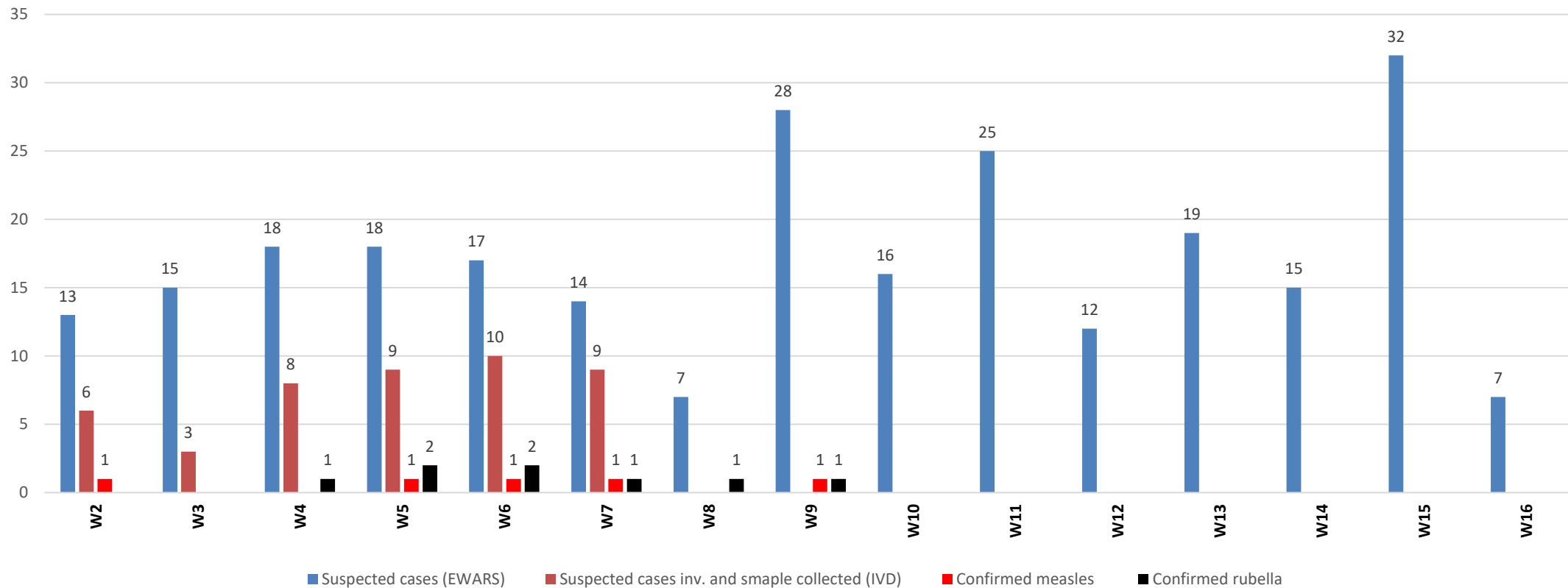
Weekly trends of Diphtheria cases from week 1-16, 2023

Total number of diphtheria case reported in EWARS from week 1-16, 2023



- Persistent transmission continues to be reported, Diphtheria vaccination campaign concluded in all 33 camps with 92% coverage
- There are 105 diphtheria cases (3 confirmed 8 probable and 94 suspected cases) and zero fatalities so far reported in 2023

Epi Curve of Weekly Suspected Measles Cases week 1-16,2023



- **Seven (7)** suspected measles cases were reported this Epi week
- Total of 267 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 measles and 8 were rubella confirmed
- Epidemiology and IVD units undertaking investigations

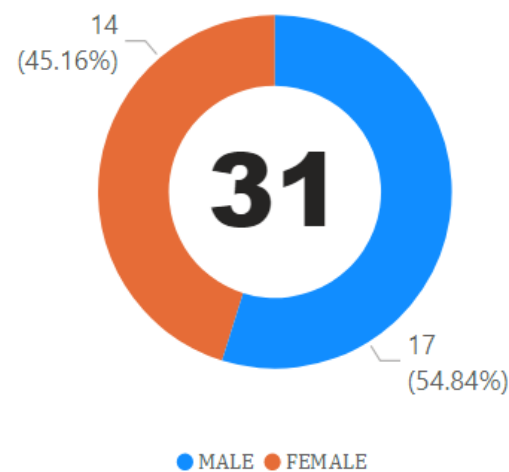
Community-based Mortality surveillance updates Epi week 16, 2023

Probable causes of death	Epi week 16	In 2023
Still Birth	1 (3%)	95 (11%)
Neonatal Death (<28 days old)	5 (16%)	92 (10%)
Infectious Disease	--	24 (3%)
Severe Acute Respiratory Infection (SARI)	--	18 (2%)
Injury	4 (13%)	23 (3%)
Maternal Death	2 (6%)	18 (2%)
Acute Malnutrition	--	2 (0%)
Other	19 (61%)	622 (70%)
Total	31 (100%)	894 (100%)

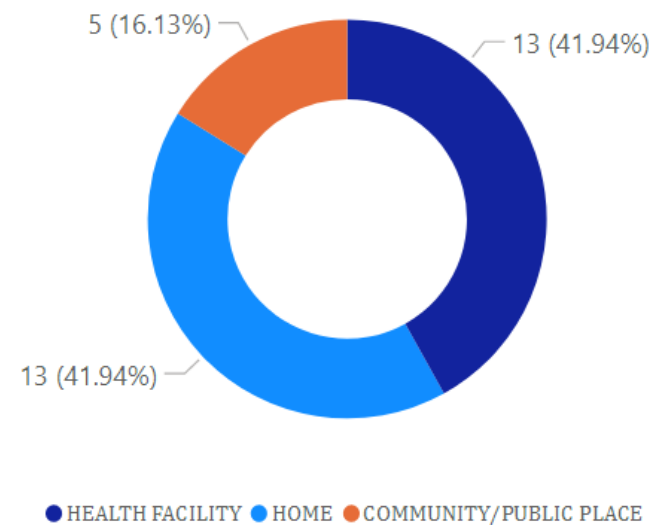
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable

Community-based Mortality Surveillance updates Epi week 16, 2023

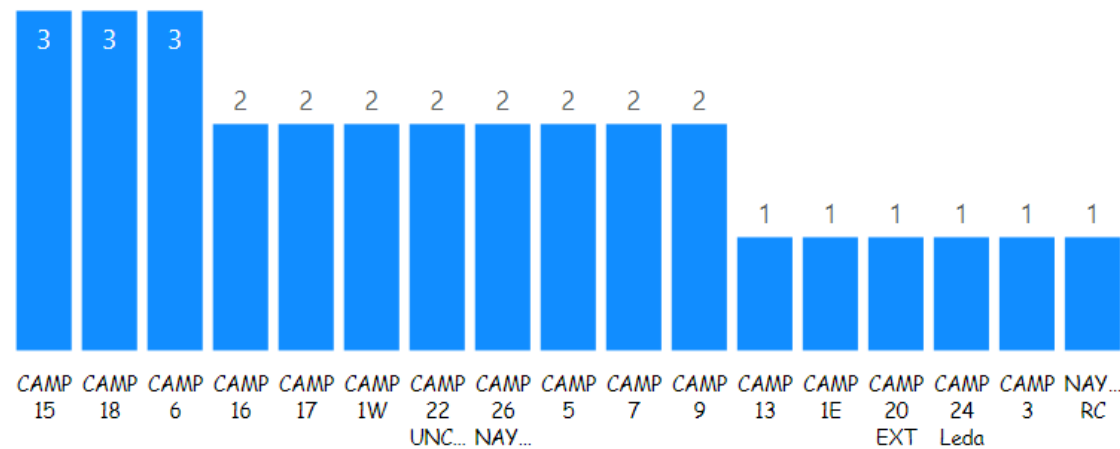
Gender distribution



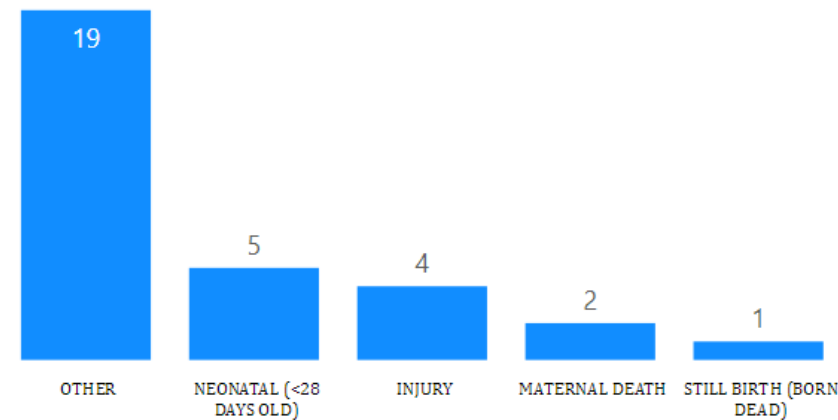
Place of death



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W16 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 W16 2023

Table 1 | Coverage

#	%	
952,309	-	Estimated total Rohingya population ¹
923,358	97%	Total population under surveillance
165	-	Total number of health facilities
158	96%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

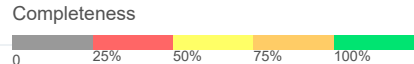
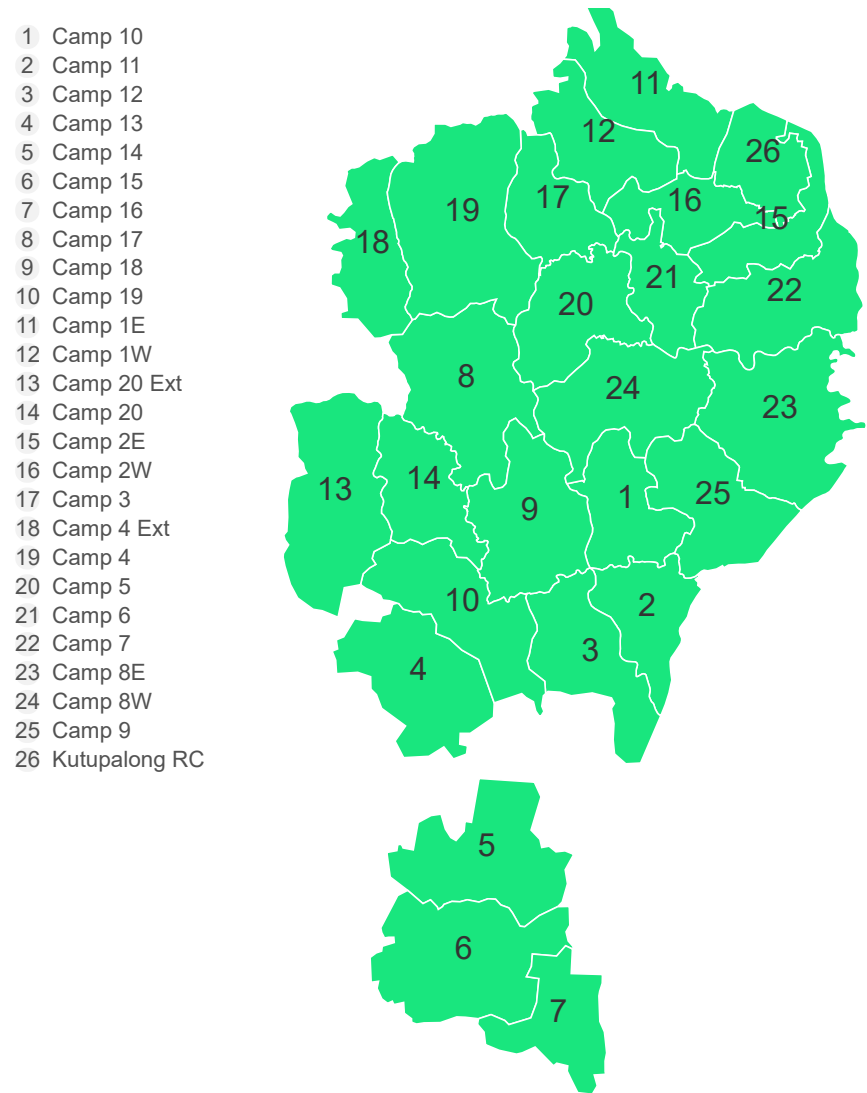
W16	Cumulative (2023)	
134	2722	Number of weekly reports received
85%	90%	Completeness
85%	88%	Timeliness

Table 3 Alert performance indicators

W16	Cumulative (2023)	
35	1,417	Total alerts raised
0%	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

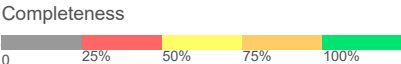
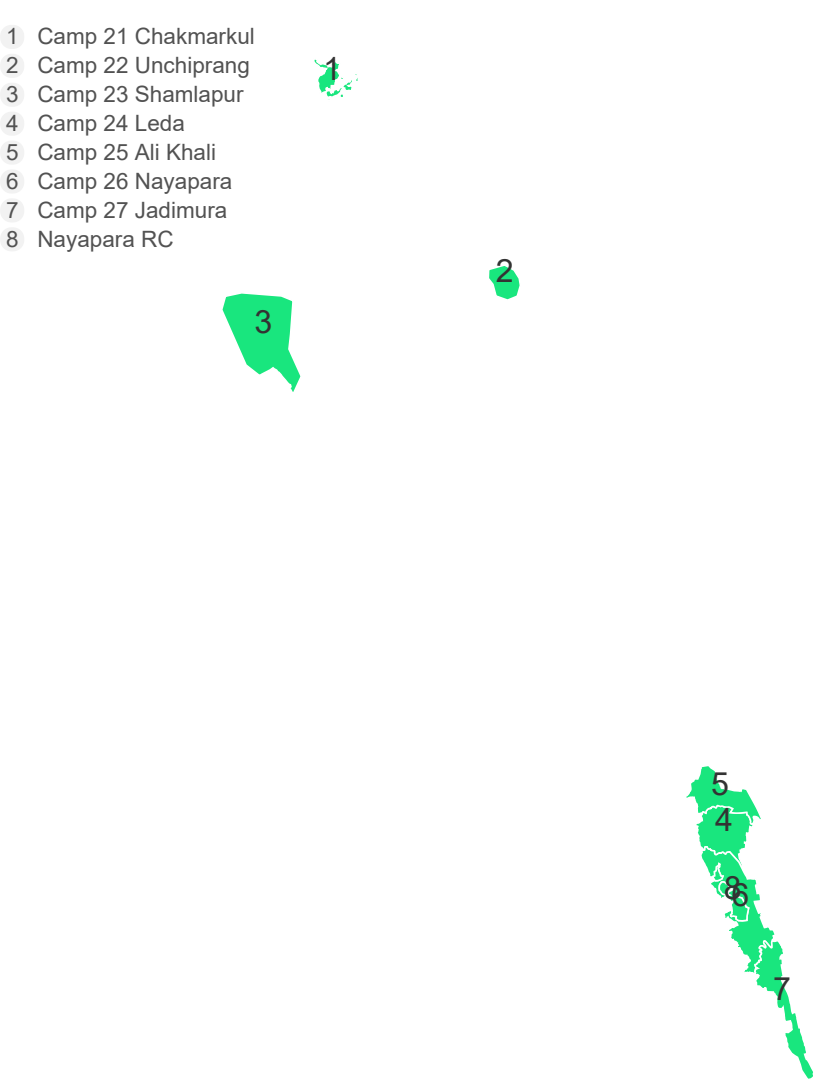


Table 4 | Performance by camp (W16 2023)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	4	100%	0%
Camp 1W	5	4	80%	10%
Camp 2E	3	3	100%	0%
Camp 2W	4	3	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	4	4	100%	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

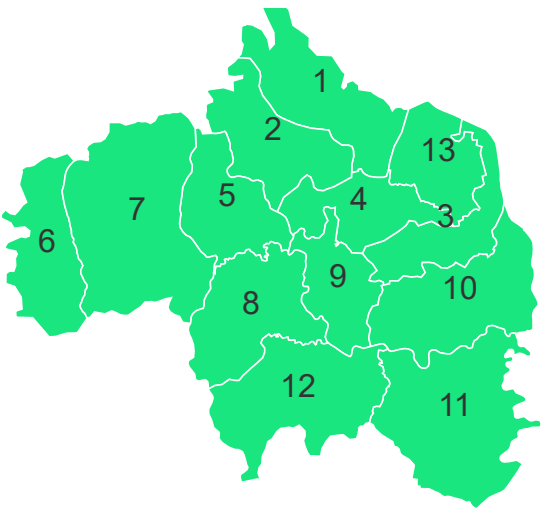


Table 5 | Performance by camp (W16 2023)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	0%
Camp 11	6	3	50%	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	71%	0%
Camp 17	5	3	60%	0%
Camp 18	4	4	100%	0%
Camp 19	4	3	75%	0%
Camp 20	4	3	75%	0%
Camp 20 Ext	3	2	67%	0%
Camp 9	6	5	83%	8%

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

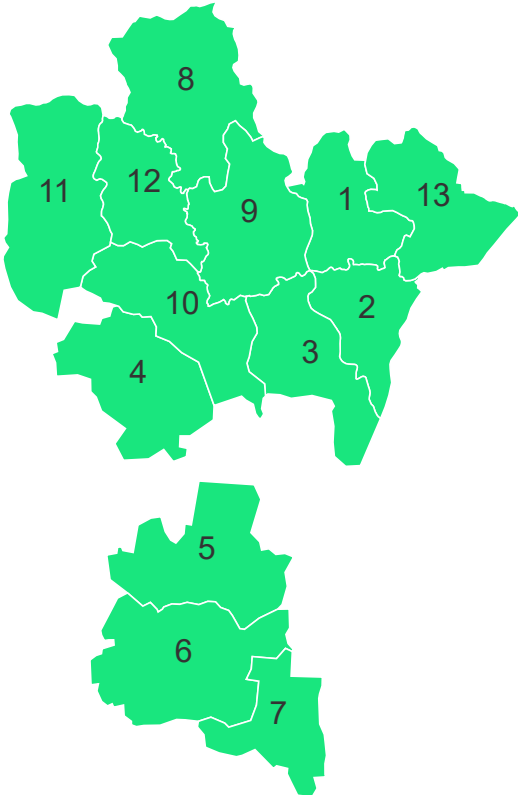


Table 6 | Performance by camp (W16 2023)

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	1	33%	0%
Camp 24 Leda	2	1	50%	0%
Camp 25 Ali Khali	3	3	100%	0%
Camp 26 Nayapara	5	3	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

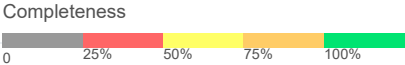
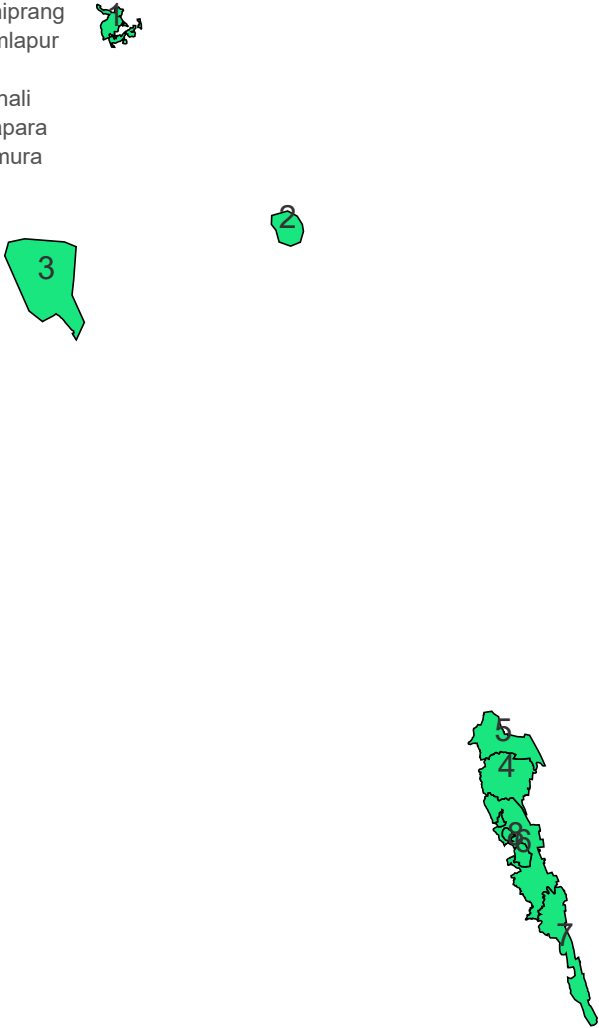


Table 7 | Performance by partner (W16 2023)

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	1	100%	100%	MoH	12	10	0%	0%
BDRCS	10	9	90%	80%	MHI	1	2	0%	0%
BRAC	0	10	91%	0%	Medair	0	0		
CARE	4	4	100%	0%	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	4	4	0%	0%	RPN	2	2	100%	0%
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	18	0%	0%					

Table 8 | Performance by camp

Northern group	W16		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	1	100%	49	100%
Camp 1W	2	100%	67	100%
Camp 2E	5	100%	150	100%
Camp 2W	1	100%	83	100%
Camp 3	3	100%	77	100%
Camp 4	0	0%	69	100%
Camp 4 Ext	0	0%	12	100%
Camp 5	1	100%	37	100%
Camp 6	1	100%	32	100%
Camp 7	1	100%	31	97%
Camp 8E	0	0%	56	100%
Camp 8W	1	100%	78	100%
Kutupalong RC	0	0%	19	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

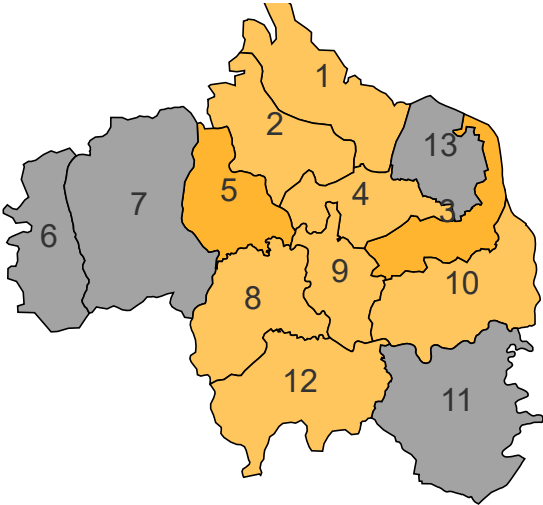


Table 9 | Performance by camp

Southern group	W16		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	0	0%	22	100%
Camp 11	0	0%	18	100%
Camp 12	0	0%	40	100%
Camp 13	1	100%	57	100%
Camp 14	1	100%	50	100%
Camp 15	4	100%	50	100%
Camp 16	0	0%	47	98%
Camp 17	1	100%	25	100%
Camp 18	2	100%	55	100%
Camp 19	0	0%	8	100%
Camp 20	1	100%	27	100%
Camp 20 Ext	0	0%	12	100%
Camp 9	1	100%	50	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

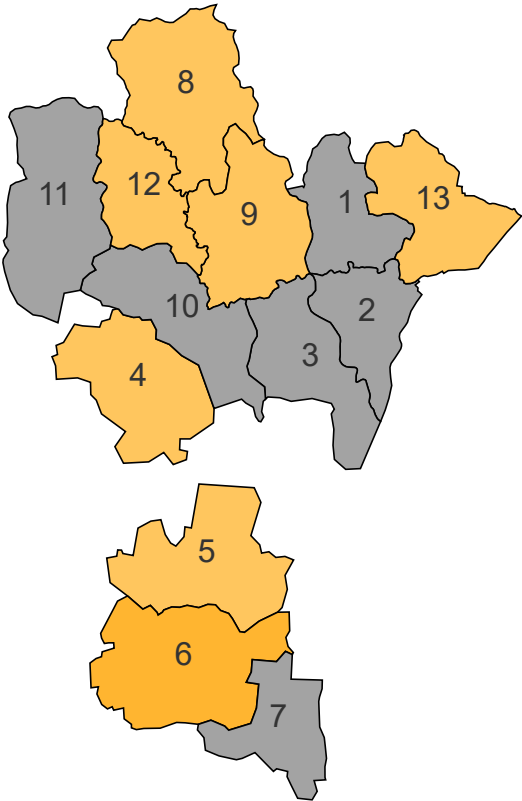


Table 10 | Performance by camp

Teknaf	W16		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	2	100%	30	100%
Camp 22 Unchiprang	1	100%	31	100%
Camp 23 Shamlapur	0	0%	3	100%
Camp 24 Leda	2	100%	71	100%
Camp 25 Ali Khali	0	0%	10	100%
Camp 26 Nayapara	2	100%	17	100%
Camp 27 Jadimura	0	0%	5	100%
Nayapara RC	1	100%	18	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

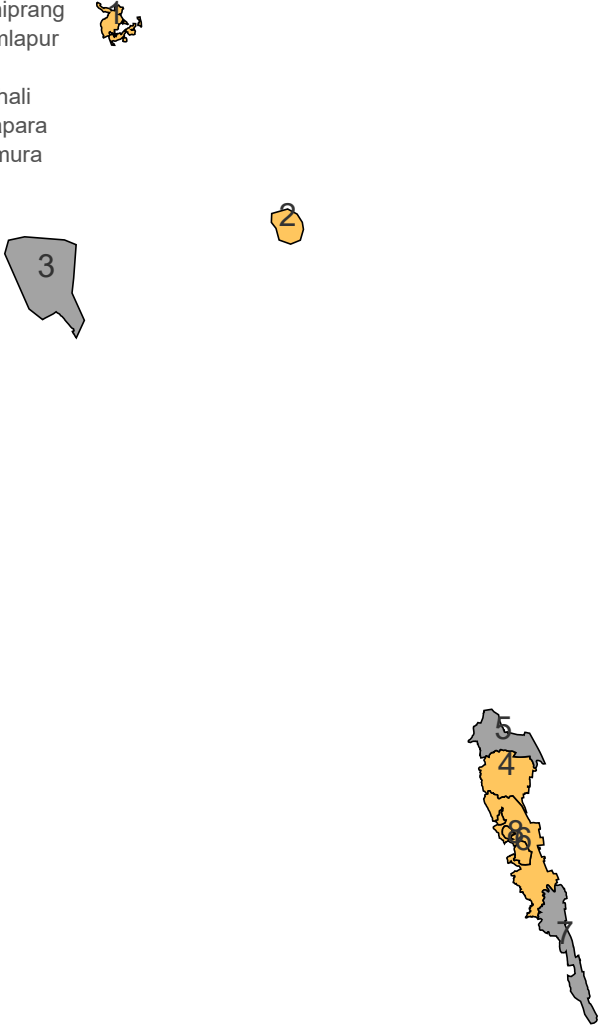


Table 11 | Performance by type of alert

Event	W16		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	1	100%	54	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	8	100%
Meningitis	0	0%	8	88%
Haem. fever (susp.)	0	0%	7	100%
NNT	0	0%	1	100%
Unexp. fever	0	0%	26	100%
AWD	0	0%	23	100%
ARI	0	0%	20	100%
AJS	0	100%	18	100%
Varicella (Susp.)	0	0%	91	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	5	100%	105	100%

Table 12 | Risk assessment

W16	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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Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W16 2023



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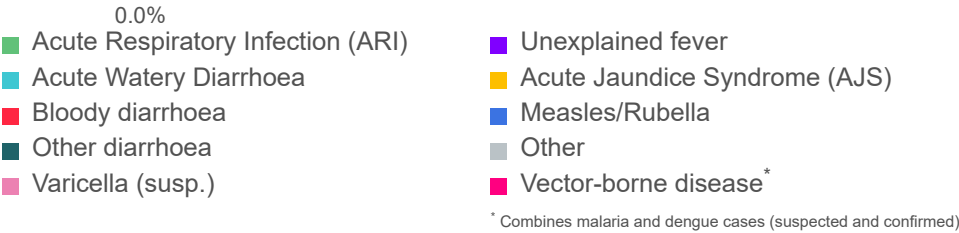
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Proportional morbidity

Figure 1 | Proportional morbidity (W16 2023)



Disease	W16		2023	
	# cases	% morbidity	# cases	% morbidity
AWD	1,600	3.1%	43,179	2.4%
Bloody diarr.	152	0.3%	4,521	0.3%
Other diarr.	788	1.5%	20,555	1.2%
Susp. Varicella	748	1.4%	27,957	1.6%
ARI	9,501	18.2%	344,927	19.5%
Measles/Rub.	13	0.0%	290	0.0%
AFP	0	0.0%	117	0.0%
Susp. menin.	5	0.0%	77	0.0%
AJS	7	0.0%	326	0.0%
Susp. HF	8	0.0%	64	0.0%
Neo. tetanus	0	0.0%	1	0.0%
Adult tetanus	0	0.0%	4	0.0%
Malaria (conf.)	1	0.0%	25	0.0%
Malaria (susp.)	53	0.1%	993	0.1%
Dengue (conf.)	40	0.1%	1,407	0.1%
Dengue (susp.)	20	0.0%	522	0.0%
Unexpl. fever	637	1.2%	13,364	0.8%
Sev. Malnut.	22	0.0%	732	0.0%
Inj./Wounds	1,755	3.4%	41,092	2.3%
Other	36,692	70.4%	1,270,180	71.7%
Total	51,509	100%	1,772,366	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W16)

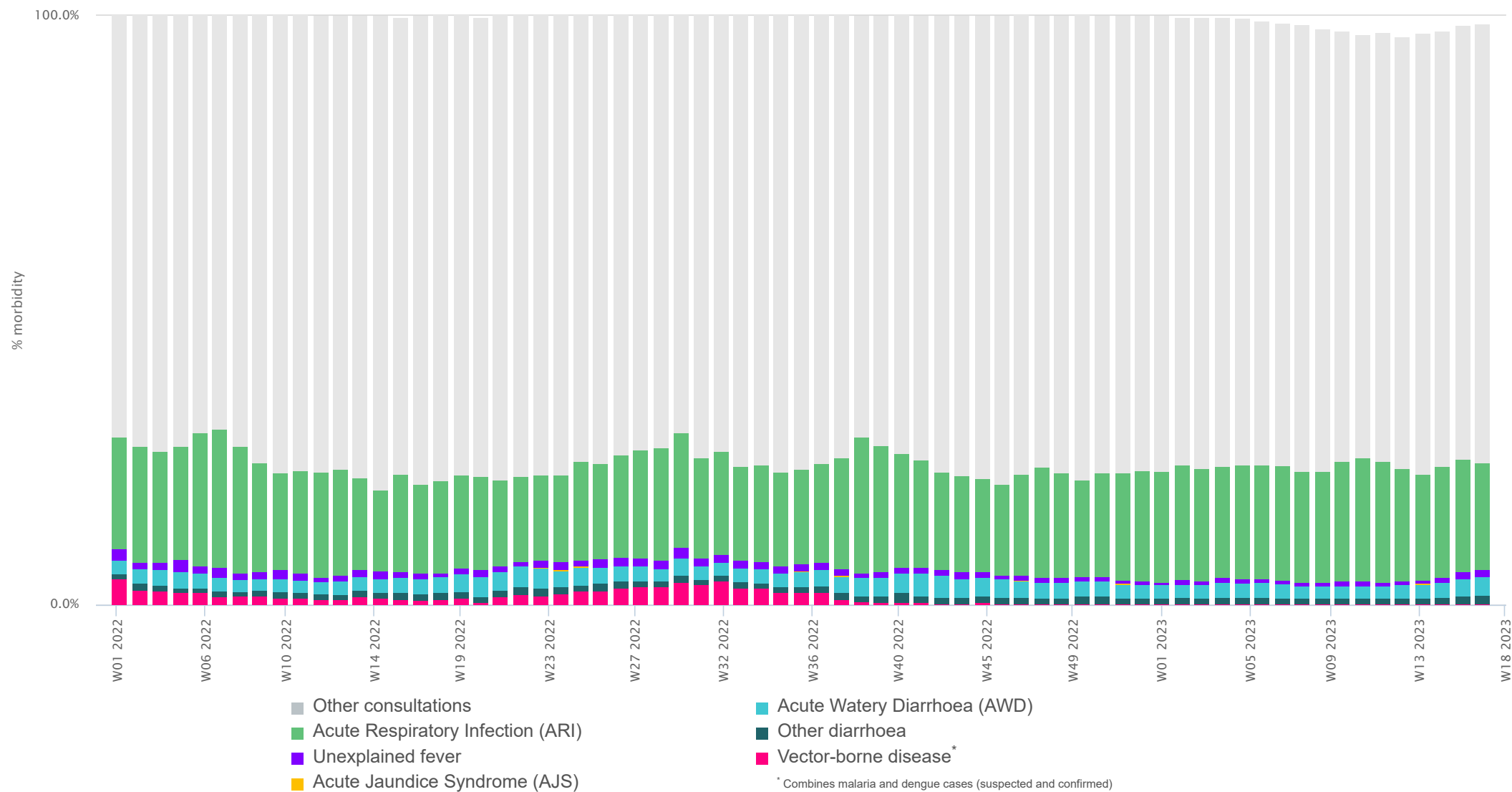
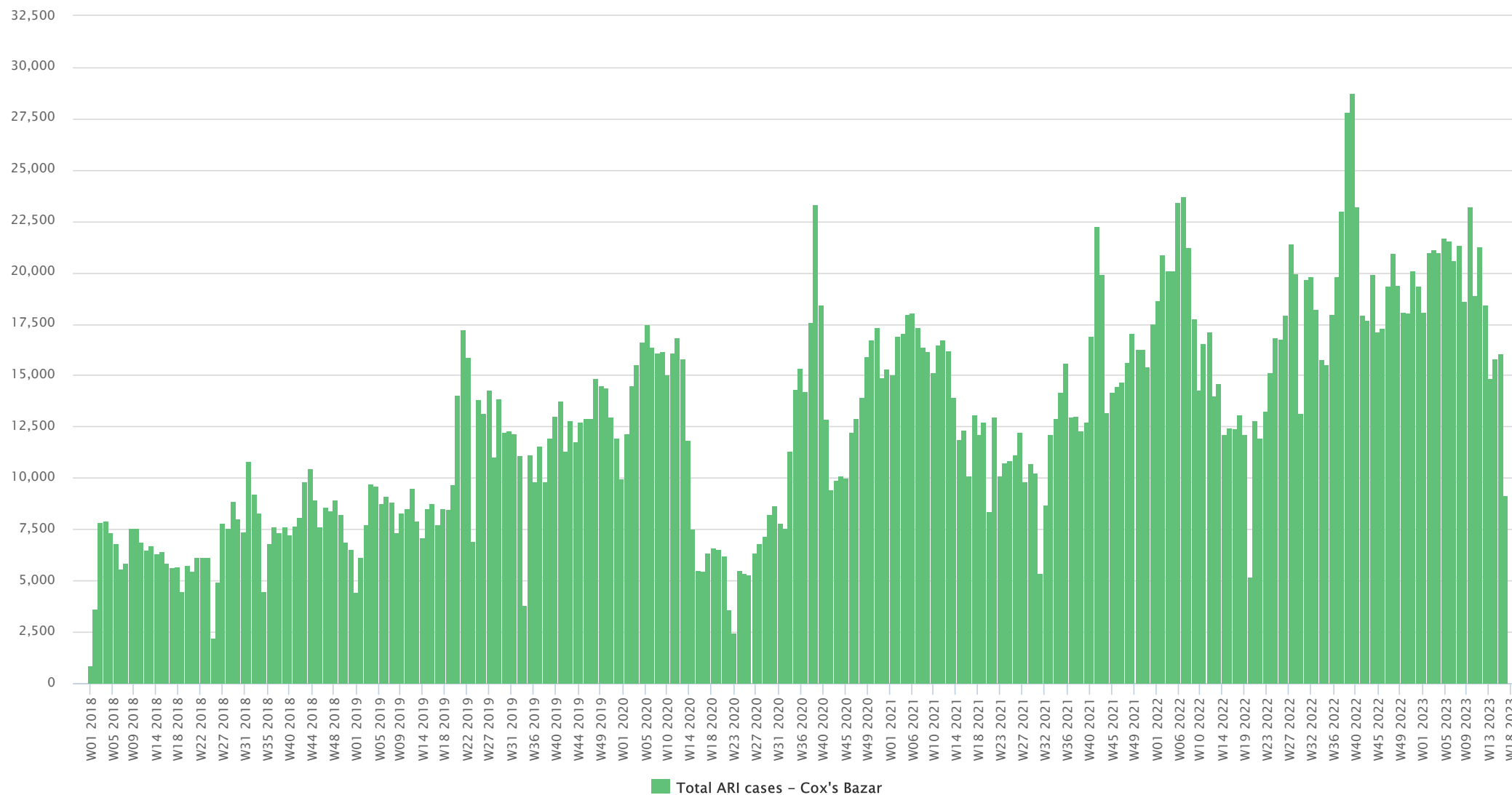
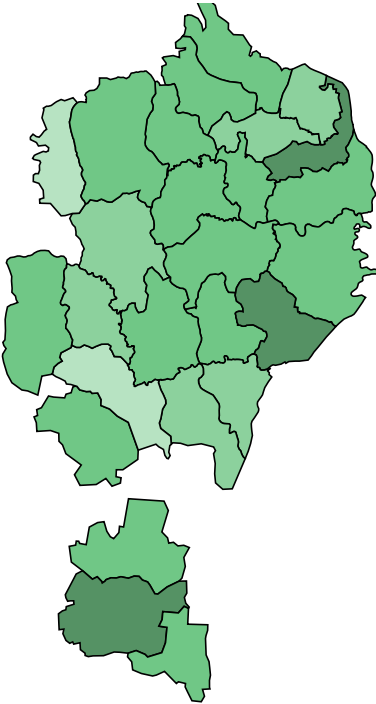


Figure 3 | Trend in number of cases over time (W38 2017 - W16 2023)



Map 1 | Map of cases by camp (W16 2023)

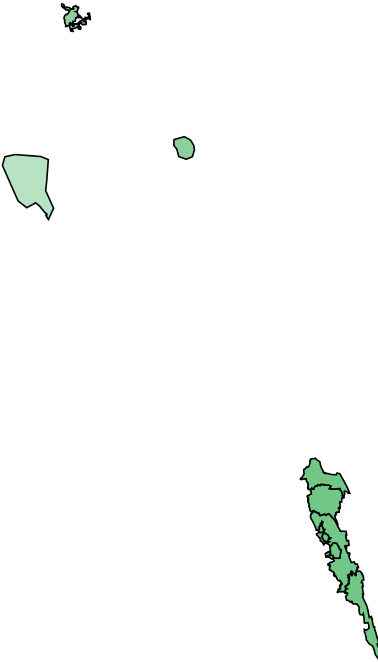
a. Ukhia | Number of cases



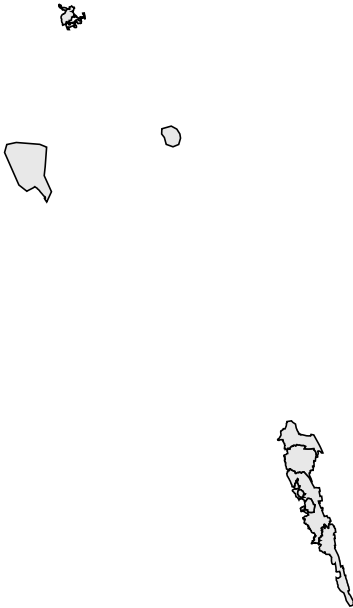
b. Ukhia | Number of alerts



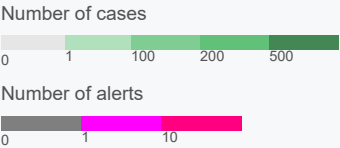
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W16 2023)

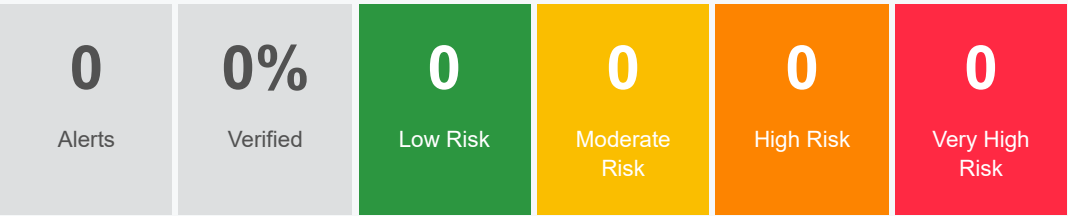


Figure | % sex

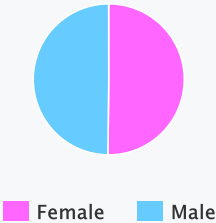


Figure | % age

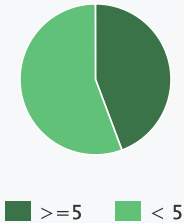
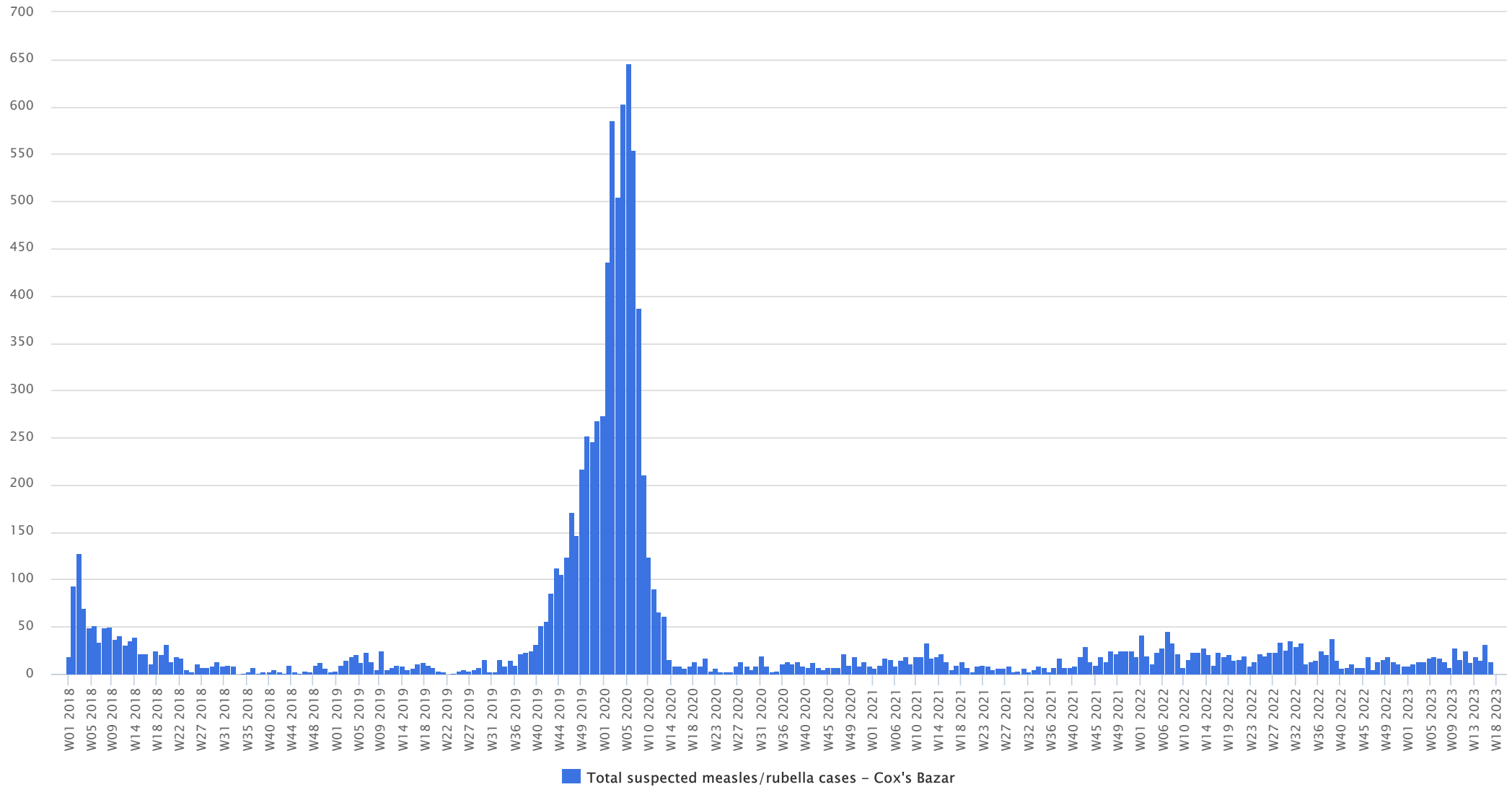
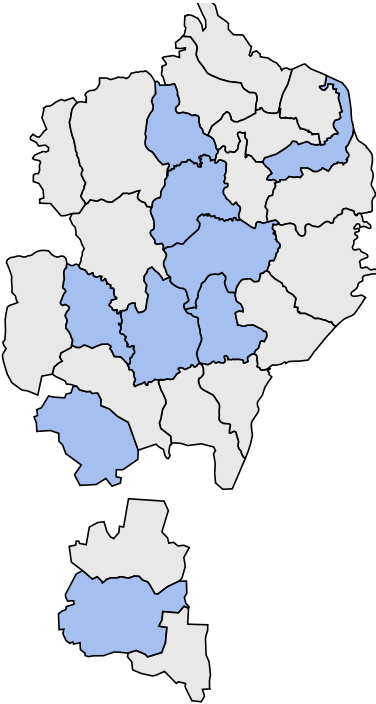


Figure 4 | Trend in number of suspected cases over time (W38 2017 - W16 2023)



Map 2 | Map of cases by camp (W16 2023)

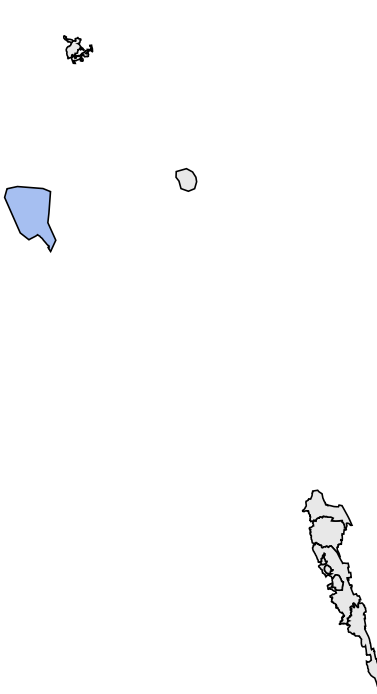
a. Ukhia | Number of cases



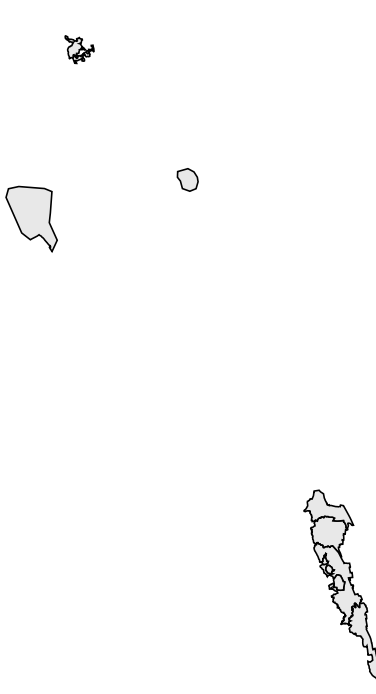
b. Ukhia | Number of alerts



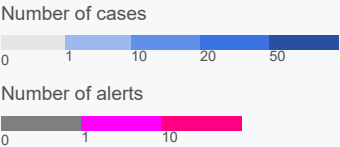
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W16 2023)

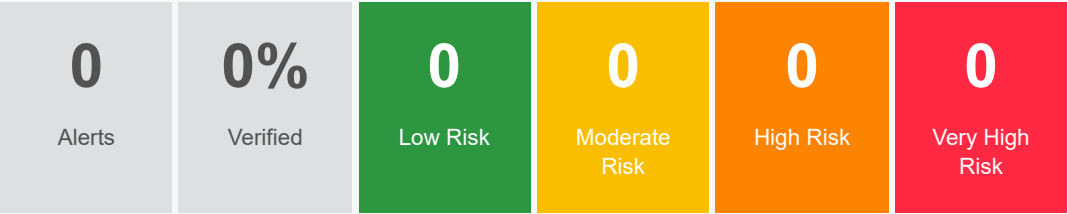


Figure | % sex

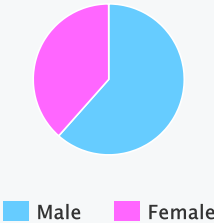


Figure | % age

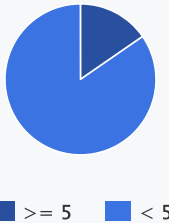
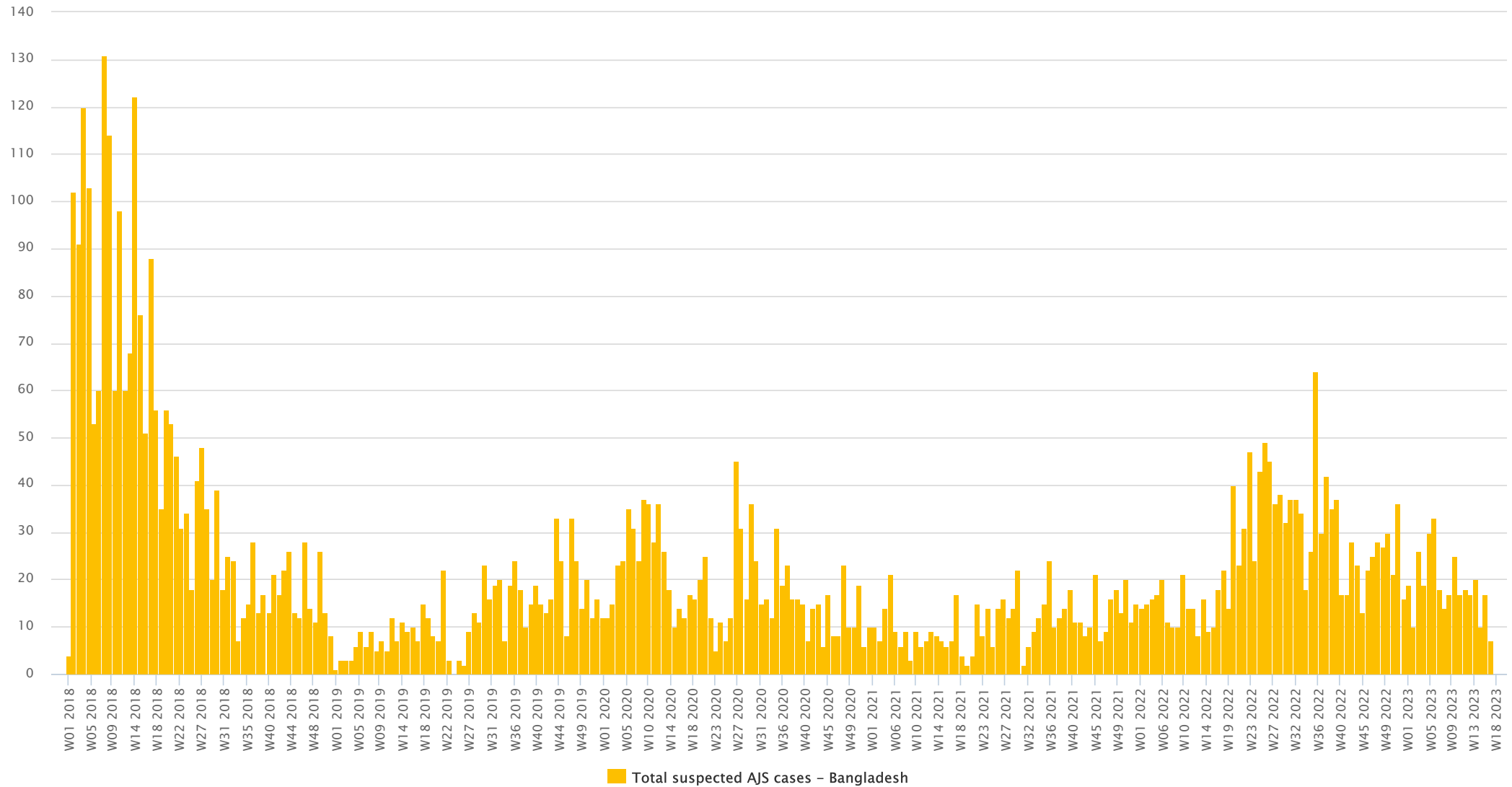
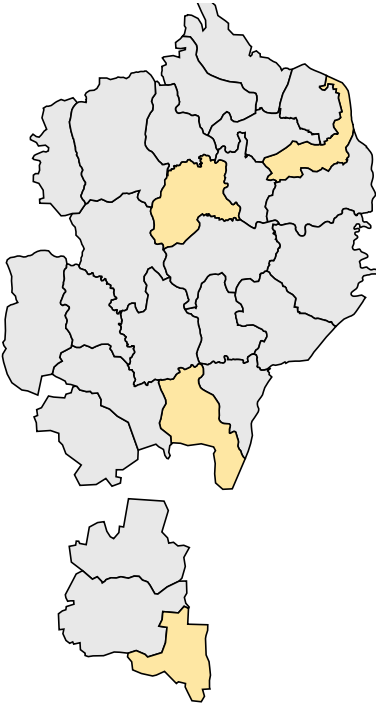


Figure 5 | Trend in number of cases over time (W38 2017 - W16 2023)



Map 3 | Map of cases by camp (W37 2017 - W16 2023)

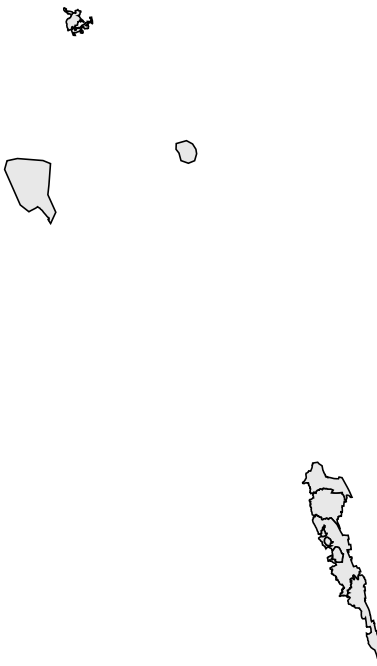
a. Ukhia | Number of cases



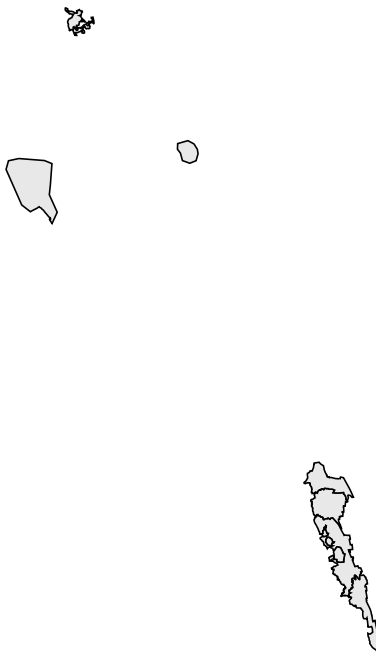
b. Ukhia | Number of alerts



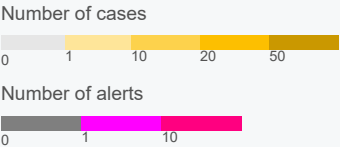
c. Teknaf | Number of cases



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 (W16 2023)

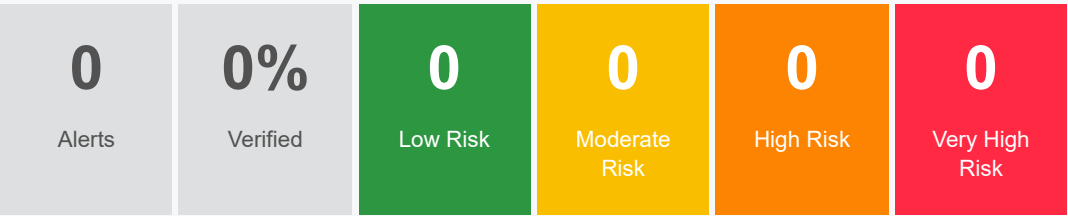


Figure | % sex

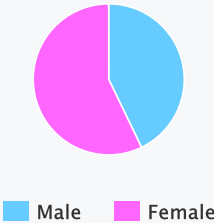


Figure | % age

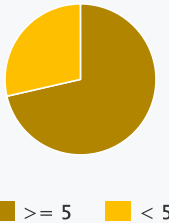


Figure 6 | Trend in number of cases over time (W38 2017 - W16 2023)

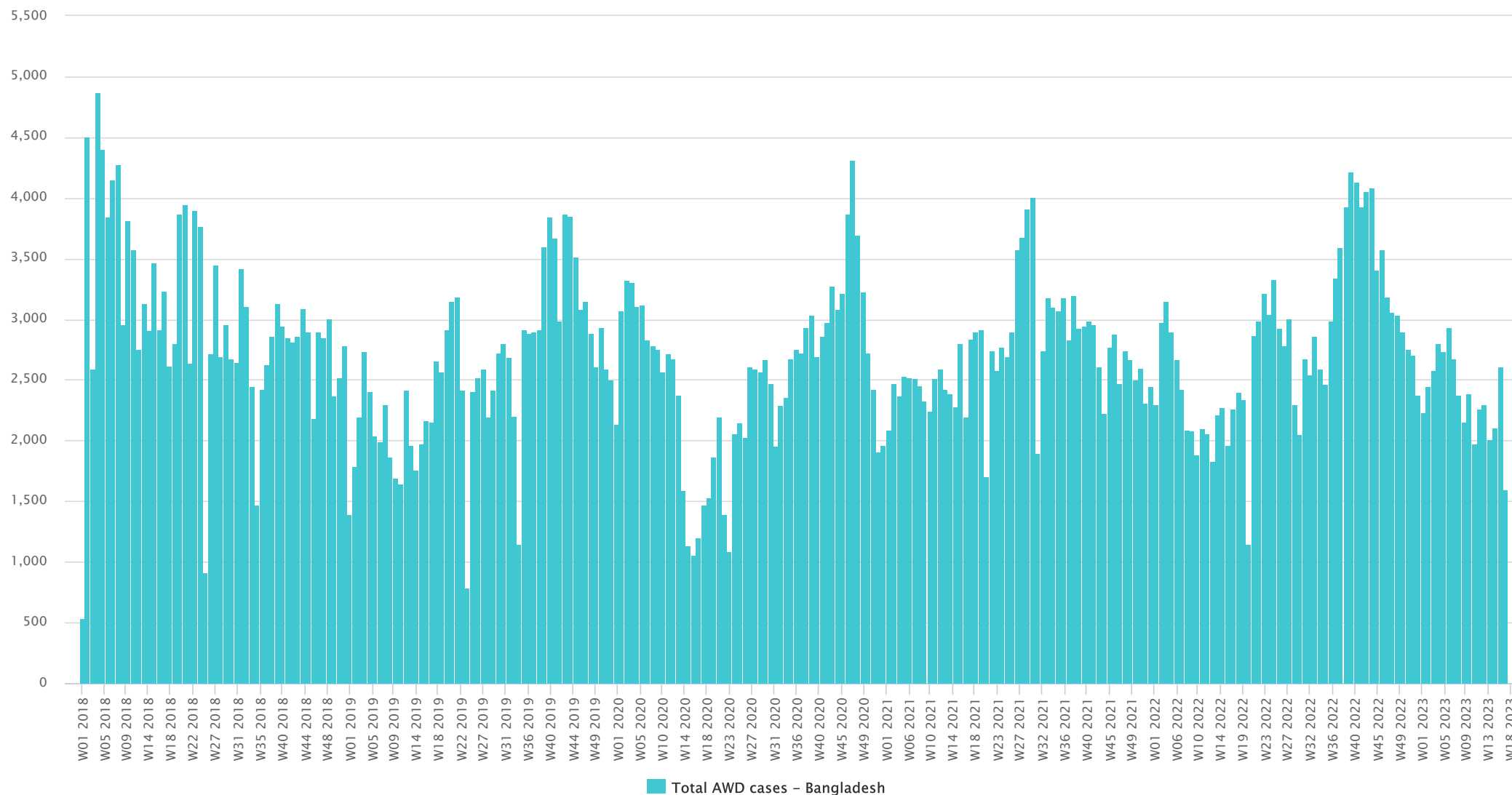
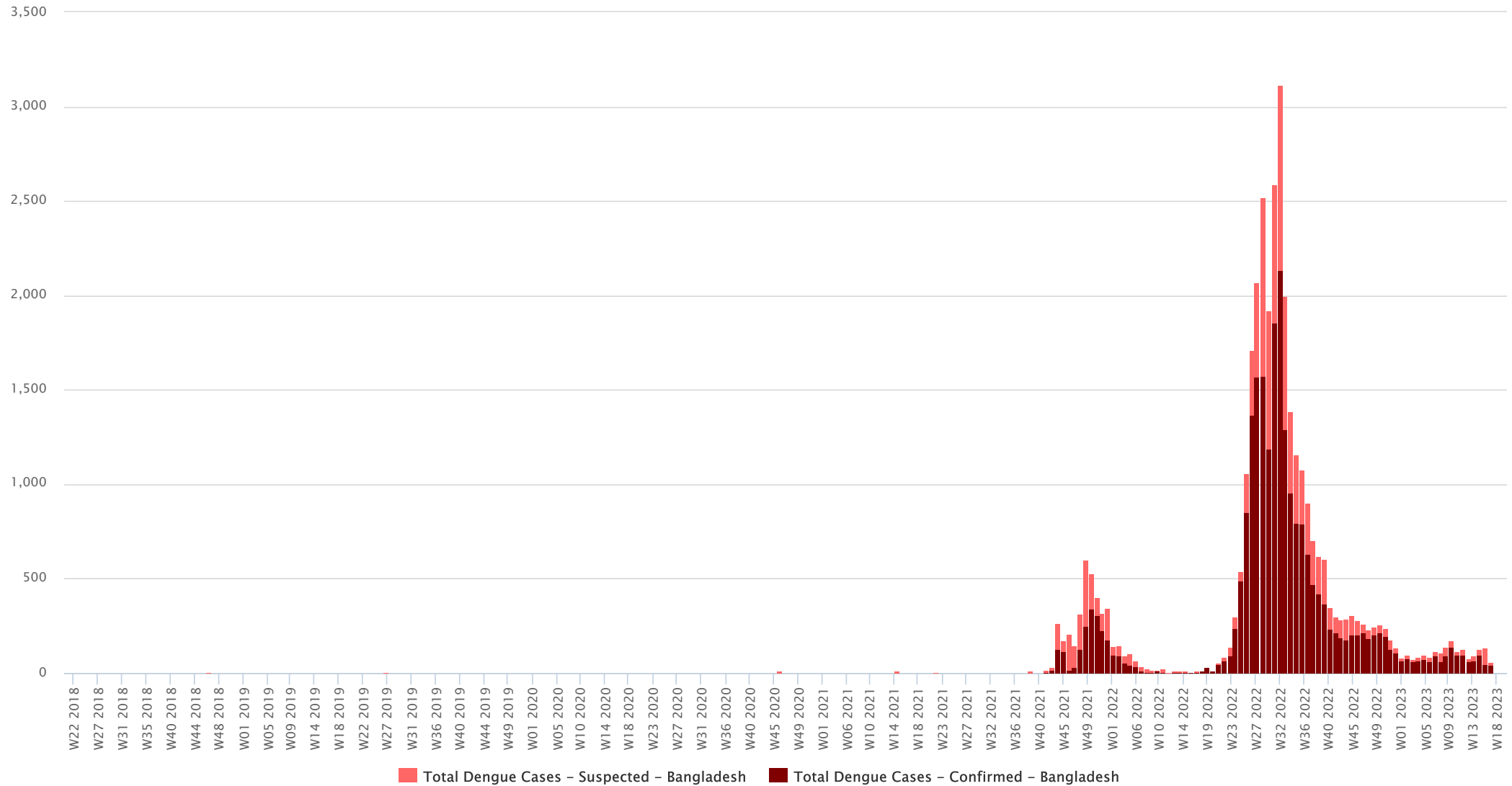
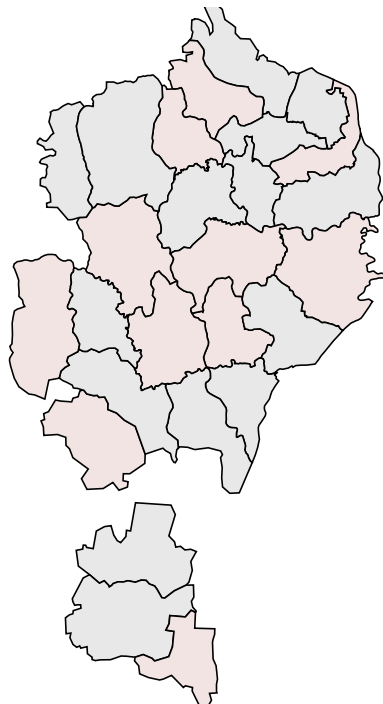


Figure 7 | Trend in number of cases over time (W38 2017 - W16 2023)

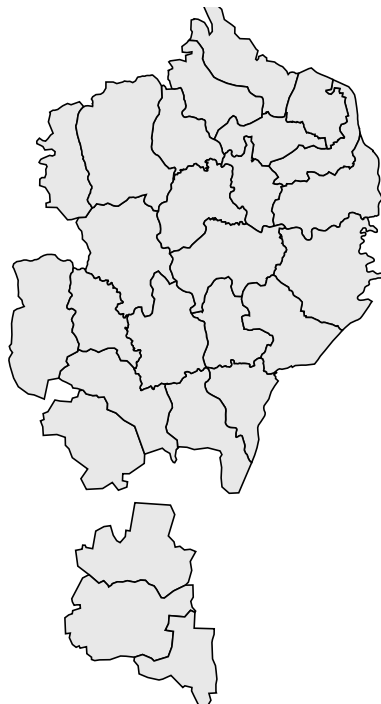


Map 4 | Map of cases by camp (W37 2017 - W16 2023)

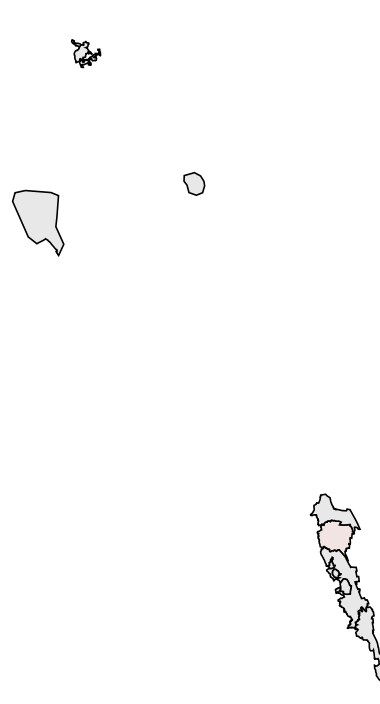
a. Ukhia | Number of cases



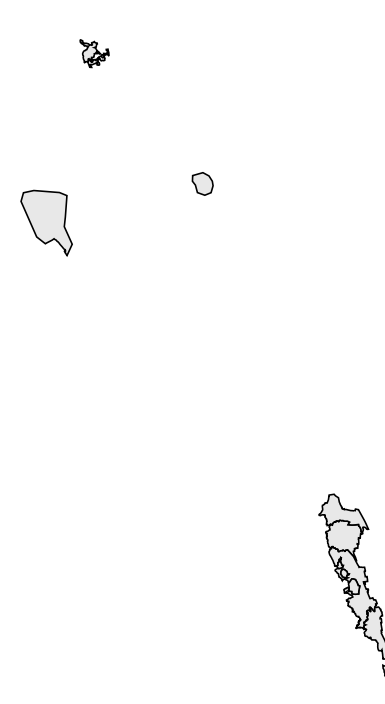
b. Ukhia | Number of alerts



c. Teknaf | Number of cases

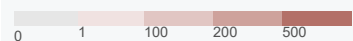


d. Teknaf | Number of alerts



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 (W16 2023)



Figure | % sex

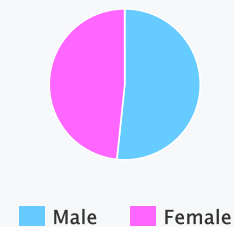


Figure | % age

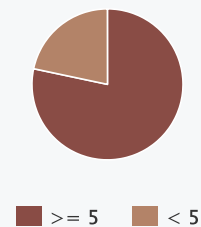
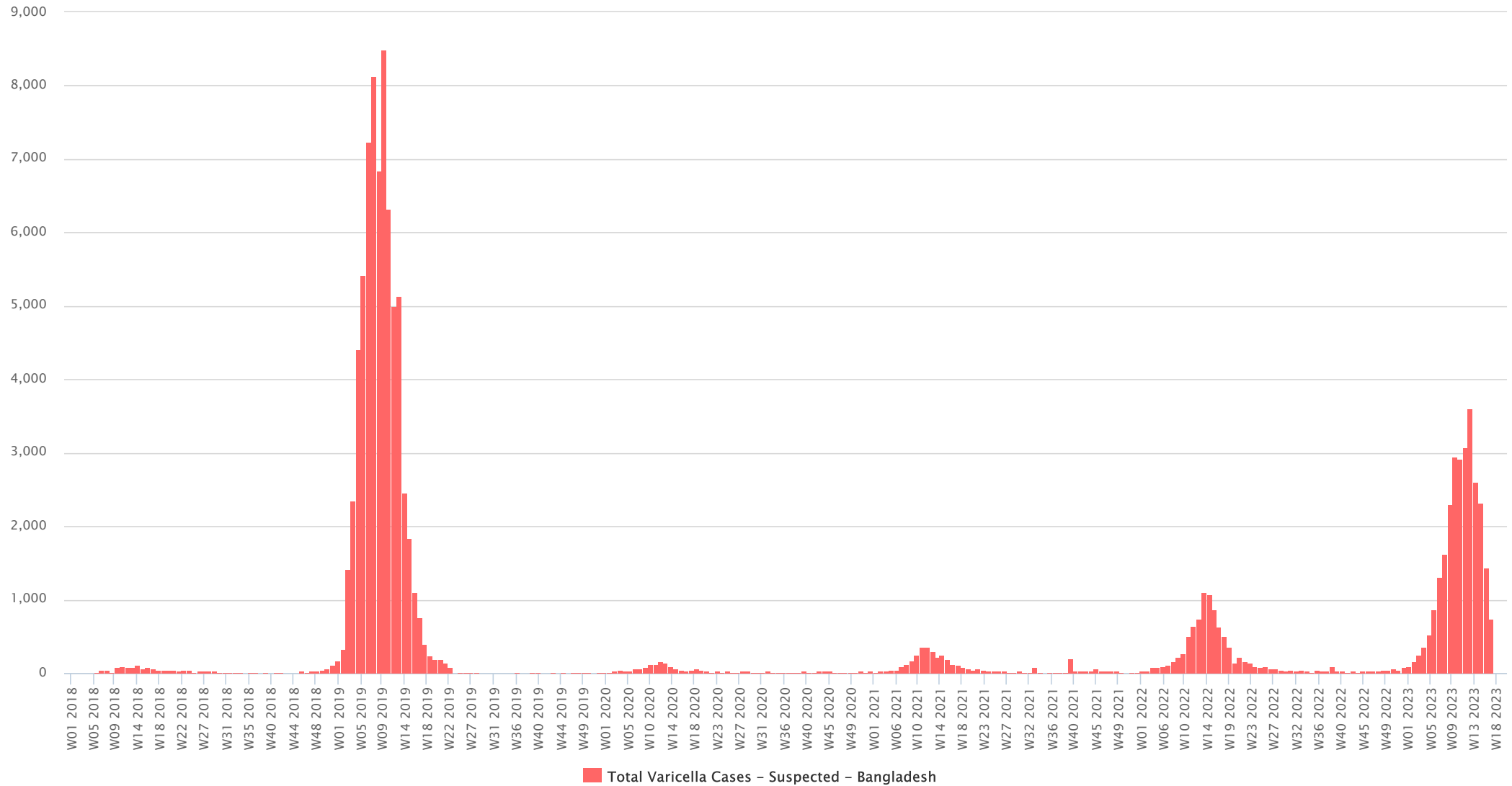
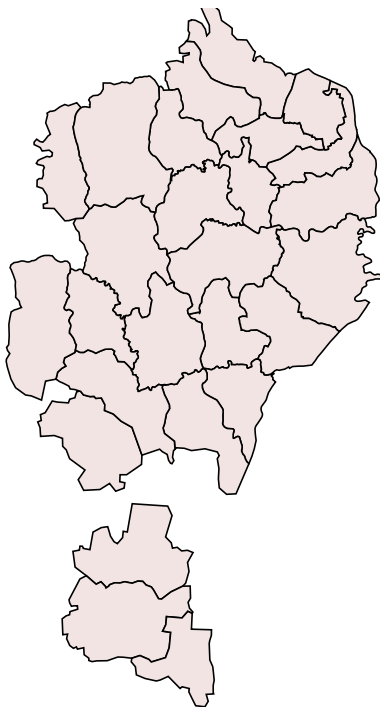


Figure 7 | Trend in number of cases over time (W38 2017 - W16 2023)

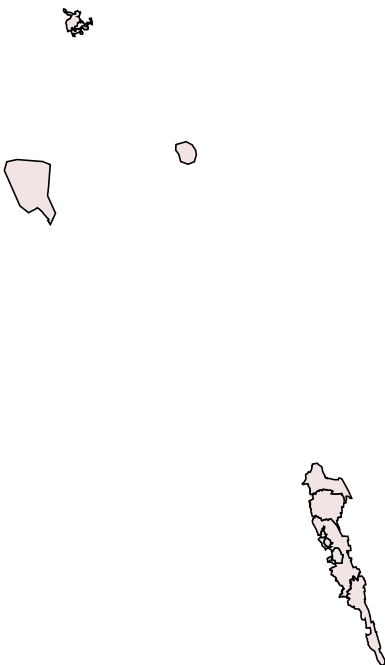


Map 4 | Map of cases by camp (W37 2017 - W16 2023)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

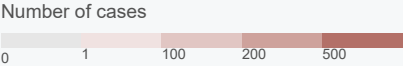


Figure | % sex

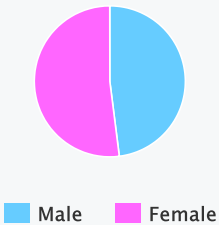
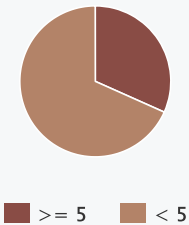


Figure | % age



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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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