

Epidemiological Highlights

Week 49 (3-9 December) 2023

Currently, a total of **135 health facilities** are registered in EWARS

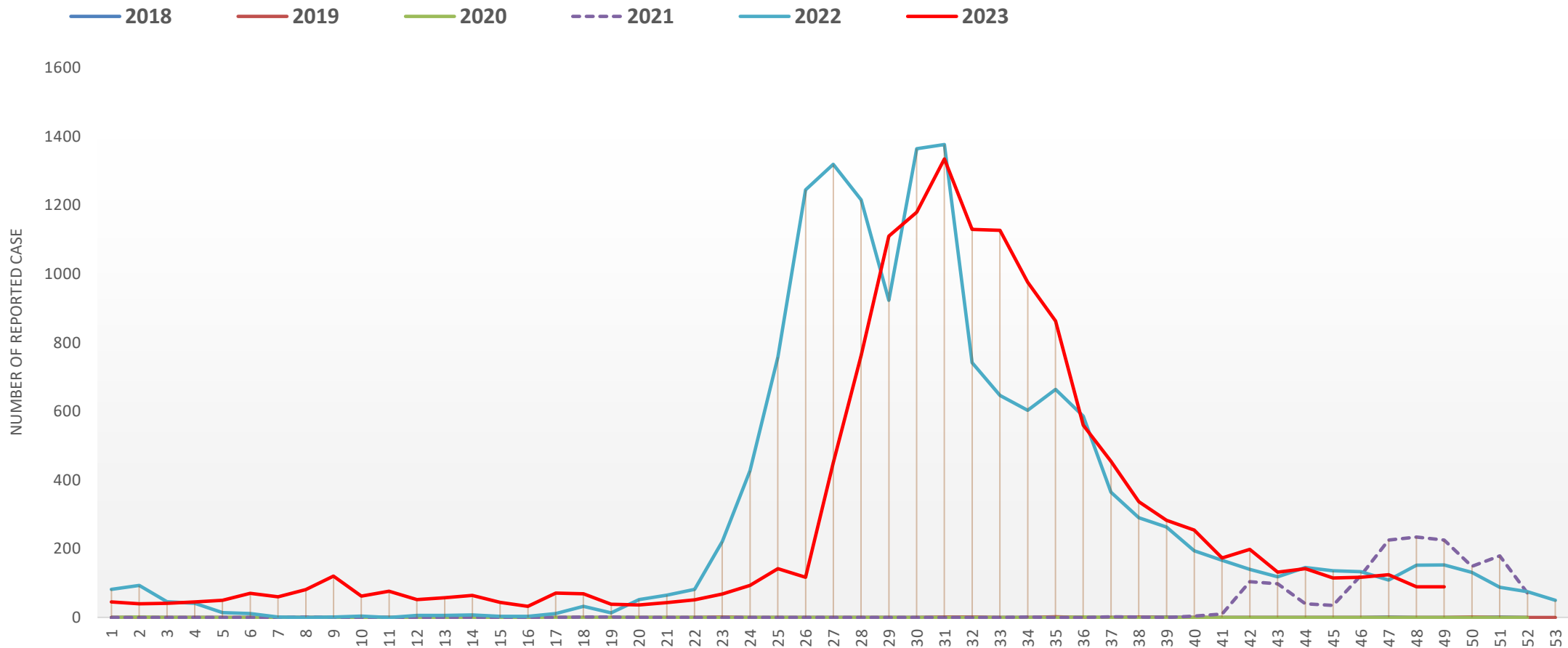
- A total of 122 out of 135 registered health facilities submitted weekly reports on time this week
- Timeliness and completeness of weekly reporting were 90% which is above the global and national weekly threshold
- Seventy-four (74) alerts were triggered; this is a 12% increase from the previous week (66 alerts in week 48, 2023)
- All alerts were reviewed and verified by the WHO EWARS team

Weekly Proportionate Morbidity and SARI Mortality among Rohingya Refugees from 2020-Epi 1-49

- Acute Respiratory Infections (16.8%), Acute Watery Diarrhoea (4.8%), and Injury and wounds (2.9%) were the diseases and health conditions with the highest proportional morbidity this week.
- Monitoring of suspected SARI deaths under enhanced Community-based mortality surveillance has been continued since week 28, 2020. So far, 42 cases of which none is probable COVID-19 Death, have been reported in 2023
- This Epi week, one (1) new SARI death was reported, investigated but non met criteria for reclassification as probable COVID-19 death was required

Year	Suspected SARI death reported (current week)	Reclassified as death due to probable COVID-19
2023	42 (1)	0
2022	136	8
2021	96	15
2020	49	2

Weekly trends of confirmed Dengue cases among Rohingya Refugees and host population in Cox's Bazar from 2018 to Epi Week 49, 2023

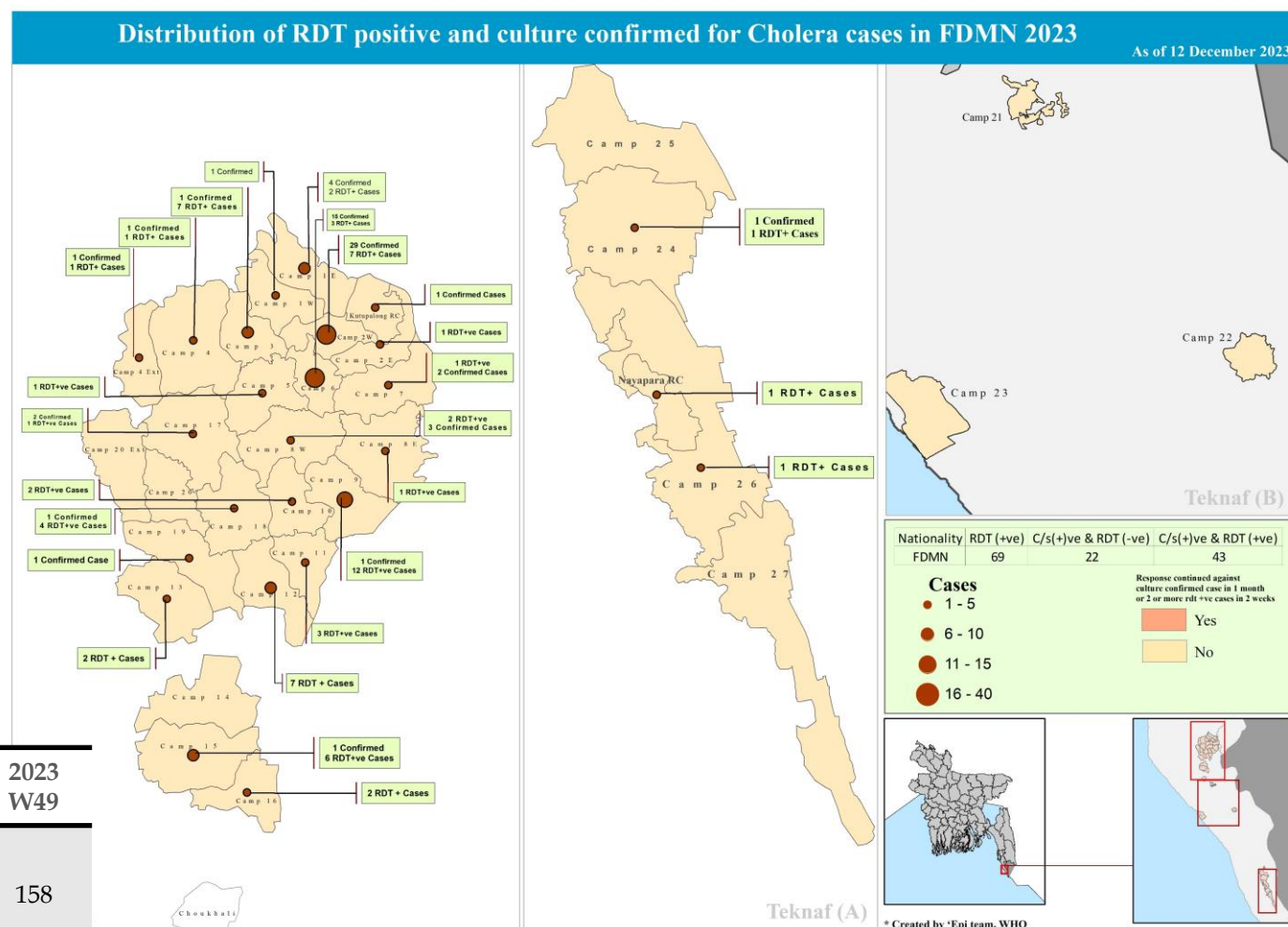


- ❑ Weekly trends of dengue fever cases continue to decline since peaking in Epi week 31 (the current surge began in Epi 26 2023)
- ❑ This week, 89 confirmed dengue cases were reported, a marginal increase (7%) from the previous week
- ❑ A cumulative of 13,660 confirmed dengue cases including 18 deaths (CFR 0.1%) have so far been reported in 2023
- ❑ The current transmission is a continuation of that for 2021 and 2022 (possible endemic transmission established)

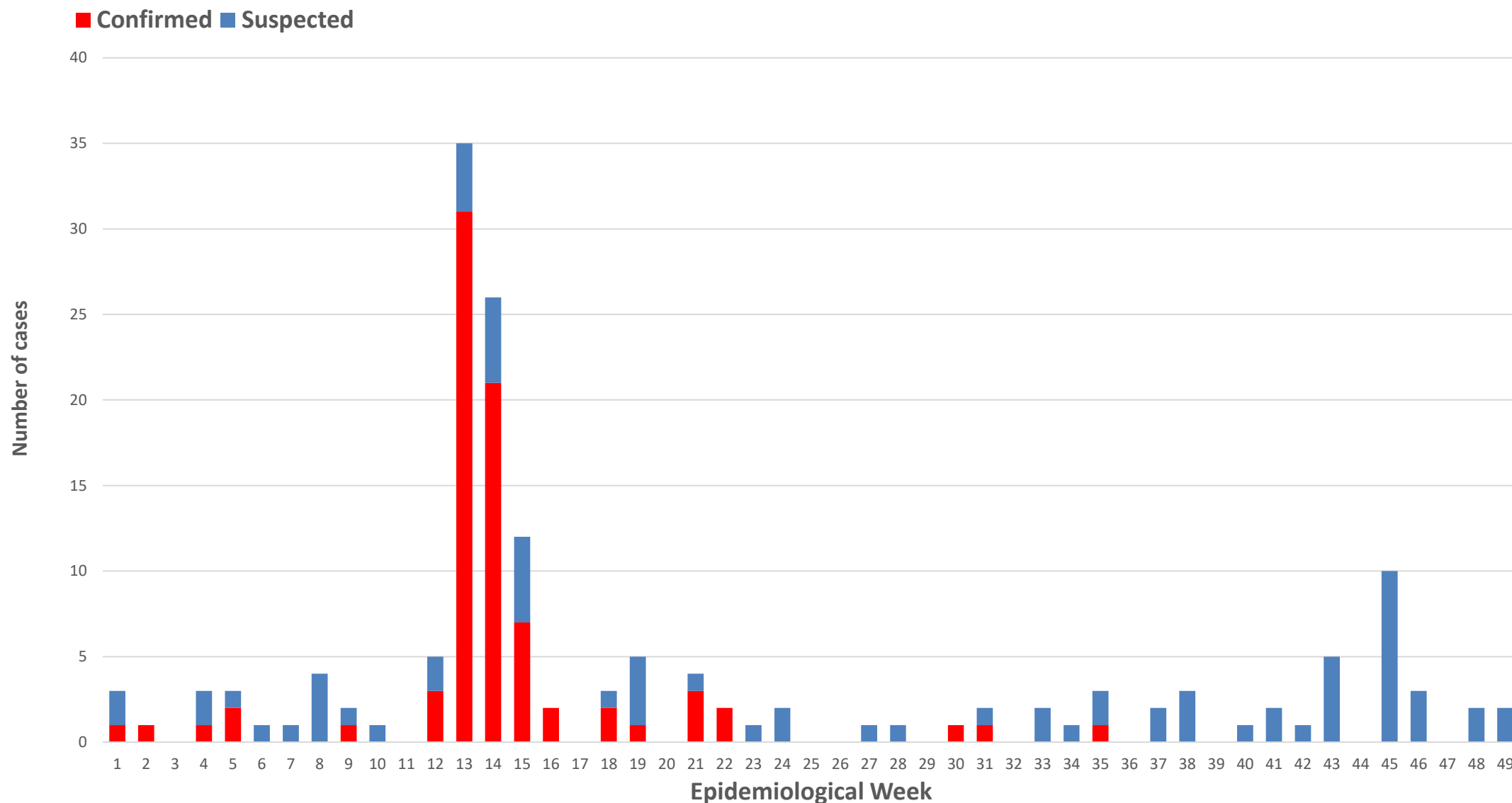
Cholera/AWD Surveillance Updates

- In this week, two (2) new cholera cases were reported
- A total of 158 cases of which 77 RDT-positive AWD/cholera suspected cases and 81 culture-confirmed Cholera cases have so far been reported in (Epi week 1-49) 2023.
- Cumulatively there are 1020 RDT AWD cases/Cholera suspects reported while 483 cases were culture-confirmed since transmission in 2018.

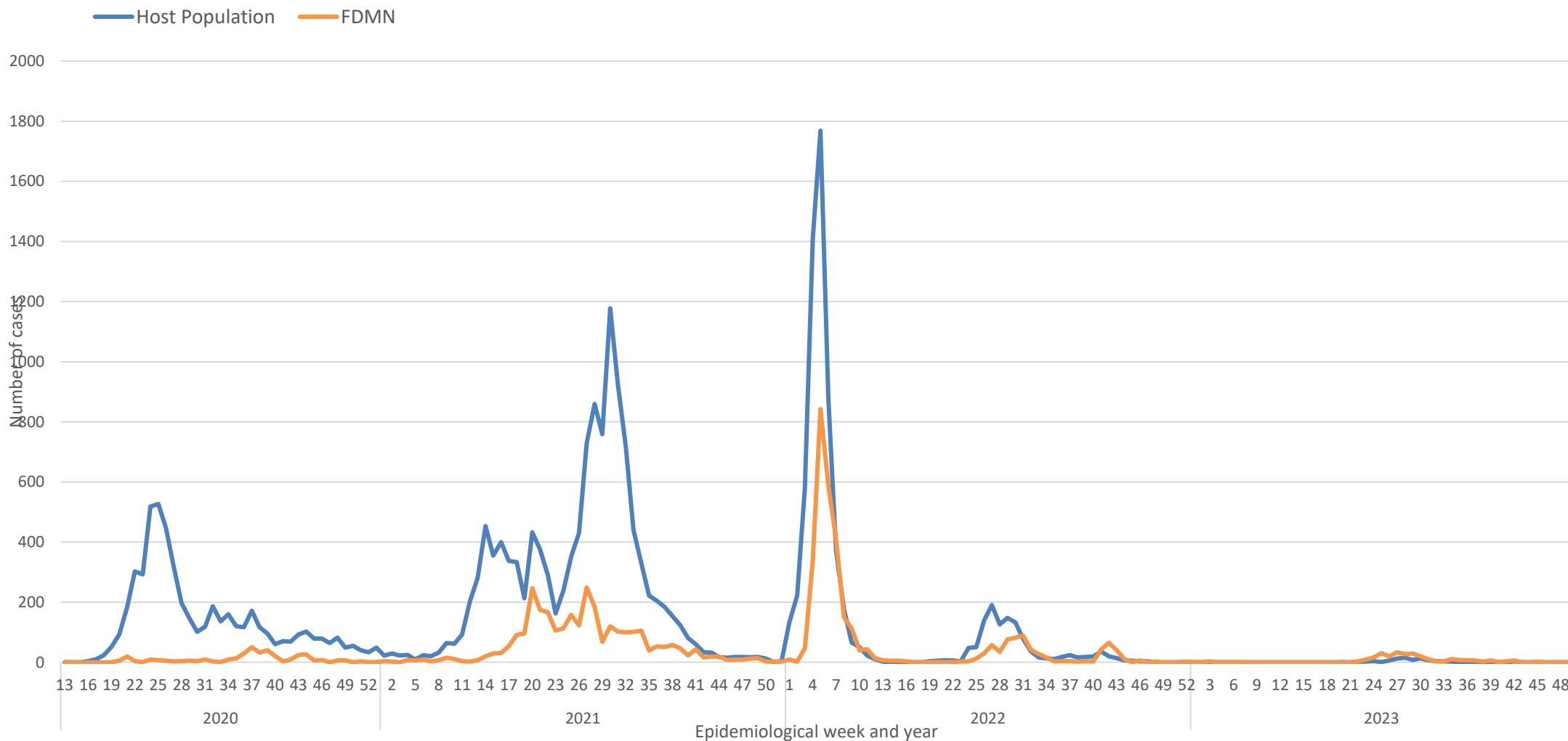
	2018	2019	2020	2021	2022	2023 W49
RDT positive AWD cases/Cholera suspects	49	258	28	357	170	158
Culture confirmed for Cholera	7	184	5	136	70	81



Weekly trends of suspected and confirmed cholera cases from Epi Week 1-49, 2023



Weekly Trends of COVID-19 Cases among Rohingya Refugees and Host Population in Cox's Bazar District from Epi Week 13, 2020- Epi Week 49, 2023



Rohingya camp: One (1) new confirmed case was reported this week from Ukhia-based Rohingya Camp, weekly TPR is 0.8%, and case incidence was 1.1 cases/1 million pop.
Host Population: No (0) new confirmed case was reported this week from the Host community, weekly TPR and case incidence were sustained at zero

Weekly and annual Diphtheria Surveillance Updates from 2017- Epi week 49, 2023

Three (3) suspected diphtheria cases were reported in go.data in this Epi week

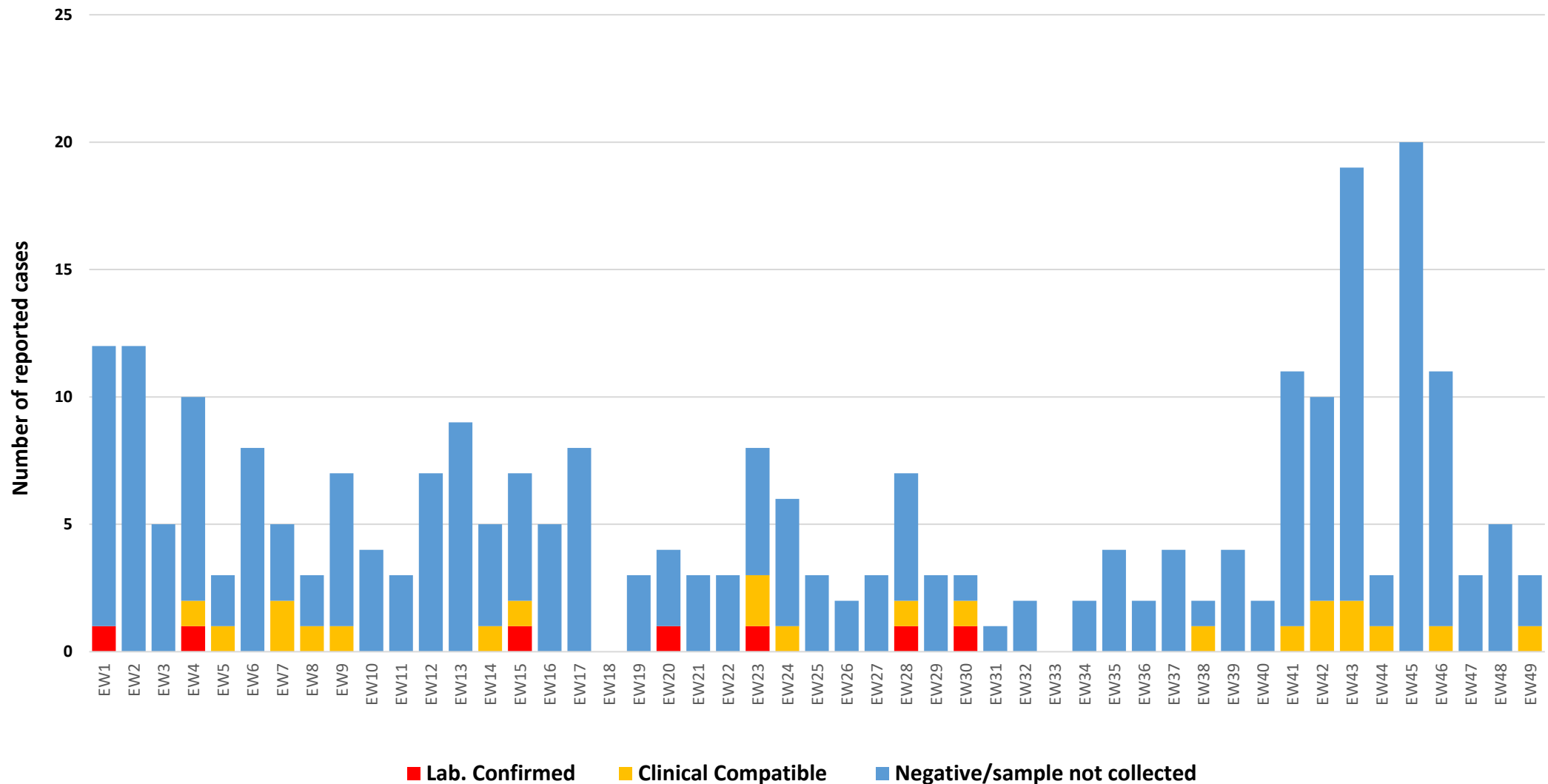
The last confirmed case was reported on 29 July 2023

About 269 cases (7 lab. confirmed, 22 clinically compatible and 240 negative/sample not collected) of which there was one (1) death reported so far in 2023.

In total 54 deaths have so far been reported since 2017, with the last death reported on 15 May 2023

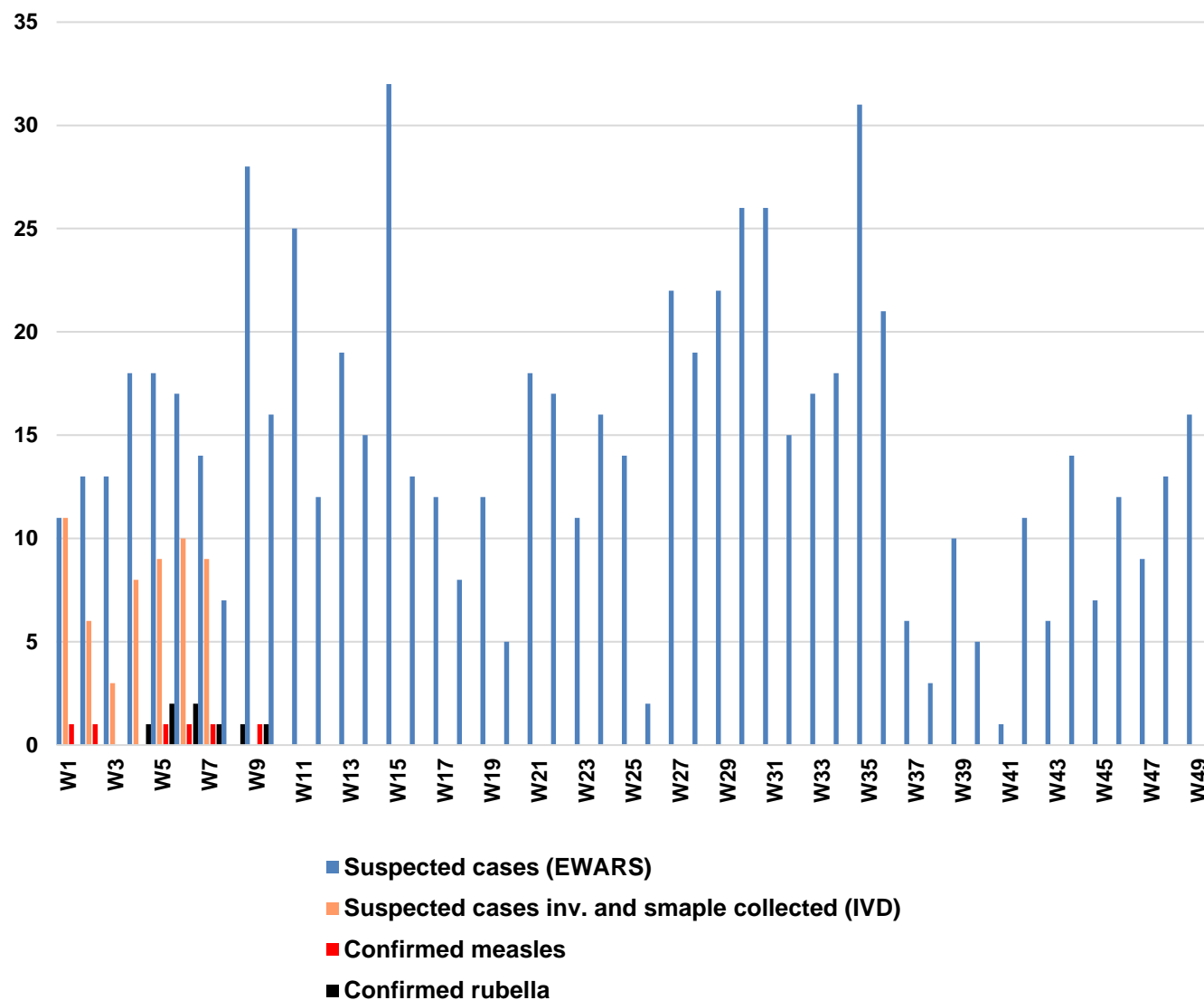
Classification	2017	2018	2019	2020	2021	2022	2023
Lab. Confirmed	66	226	31	19	30	56	7
Clinical Compatible	1154	1555	60	9	29	3	22
Negative/sample not collected	1796	3549	523	198	118	349	240
Death	30	14	3	0	5	2	1

Weekly trends of Diphtheria cases from Epi weeks 1-49, 2023



Epi Curve of Weekly Suspected Measles Cases Week 1-49, 2023

- Sixteen (16) suspected measles cases were reported this Epi week
- A total of 717 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



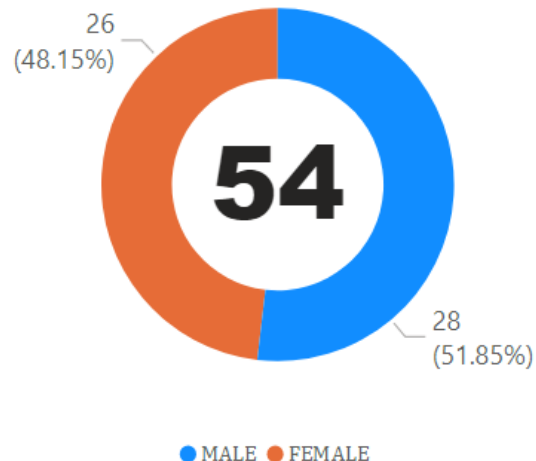
Proportionate Mortality updates Epi week 49, 2023

Probable causes of death	Epi week 49	In 2023
Still Birth	6 (11%)	314 (12%)
Neonatal Death (<28 days old)	2 (4%)	279 (11%)
Infectious Disease	--	69 (3%)
Severe Acute Respiratory Infection (SARI)	1 (2%)	35 (1%)
Injury	3 (6%)	60 (2%)
Maternal Death	1 (2%)	49 (2%)
Acute Malnutrition	--	3(0%)
Other	41 (76%)	1803 (69%)
Total	54 (100%)	2612 (100%)

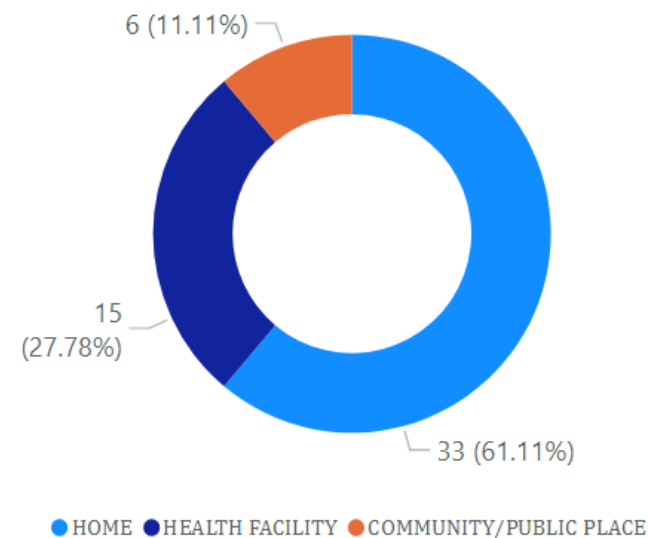
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable

Community-based Mortality Surveillance updates Epi week 49, 2023

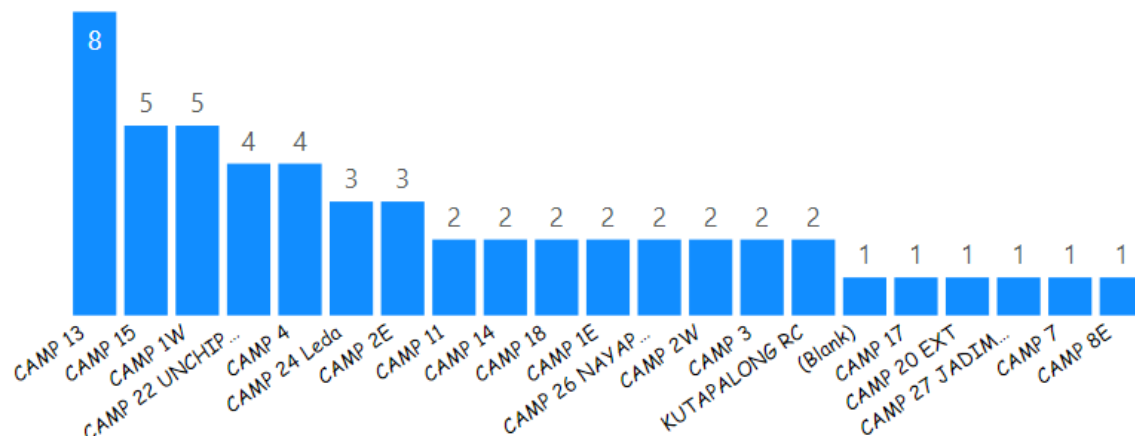
Gender distribution



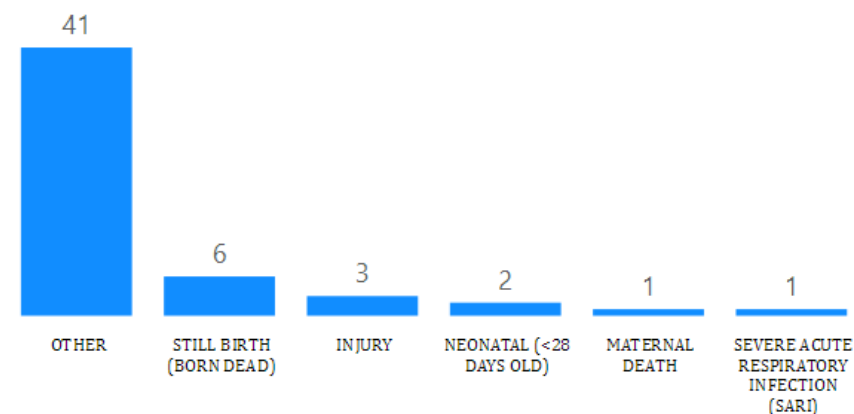
Place of death



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W49 2023



Ministry of Health and Family
Welfare Bangladesh



World Health
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Printed: 08:41 Tuesday, 26 December 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 W49 2023

Table 1 | Coverage

#	%	
952,309	-	Estimated total Rohingya population ¹
923,358	97%	Total population under surveillance
148	-	Total number of health facilities
135	91%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

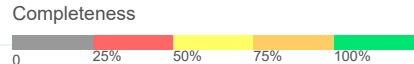
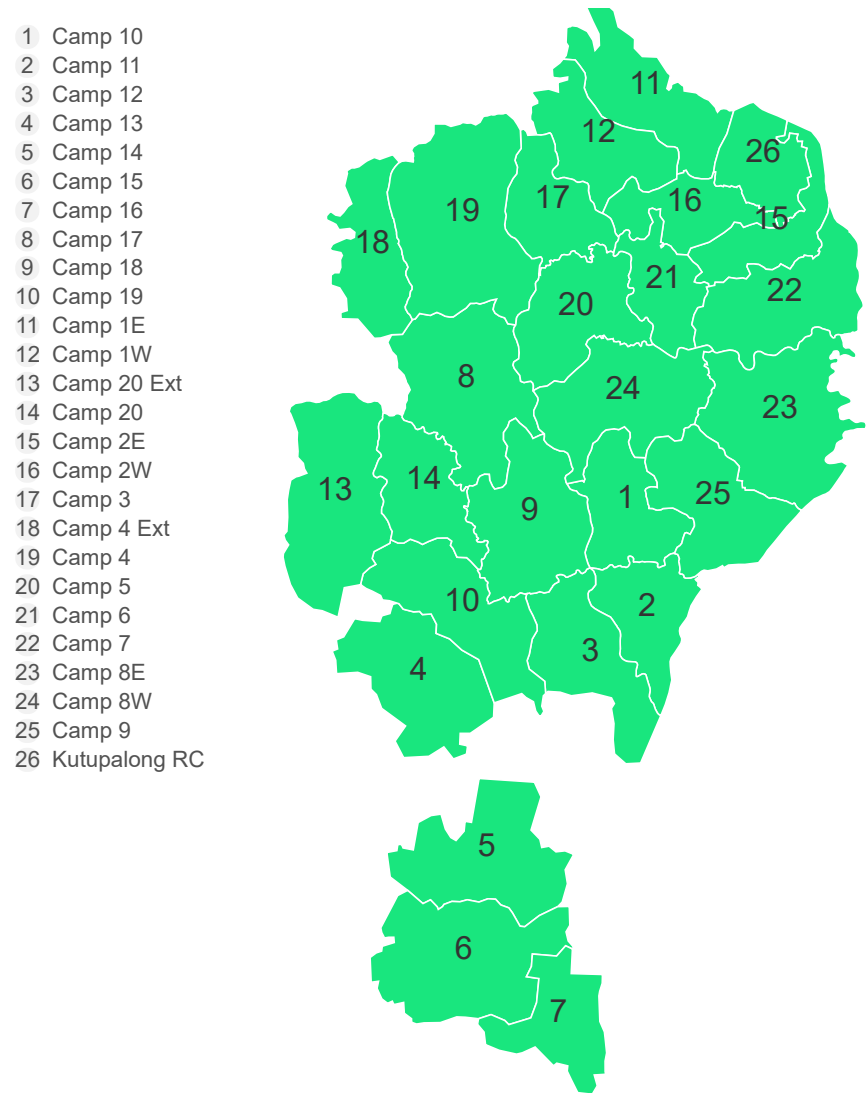
W49	Cumulative (2023)	
122	7132	Number of weekly reports received
90%	96%	Completeness
90%	87%	Timeliness

Table 3 Alert performance indicators

W49	Cumulative (2023)	
74	3,683	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 2022.

Map 1a | Ukhia completeness by camp



Map 1b | Teknaf completeness by camp

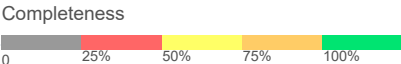
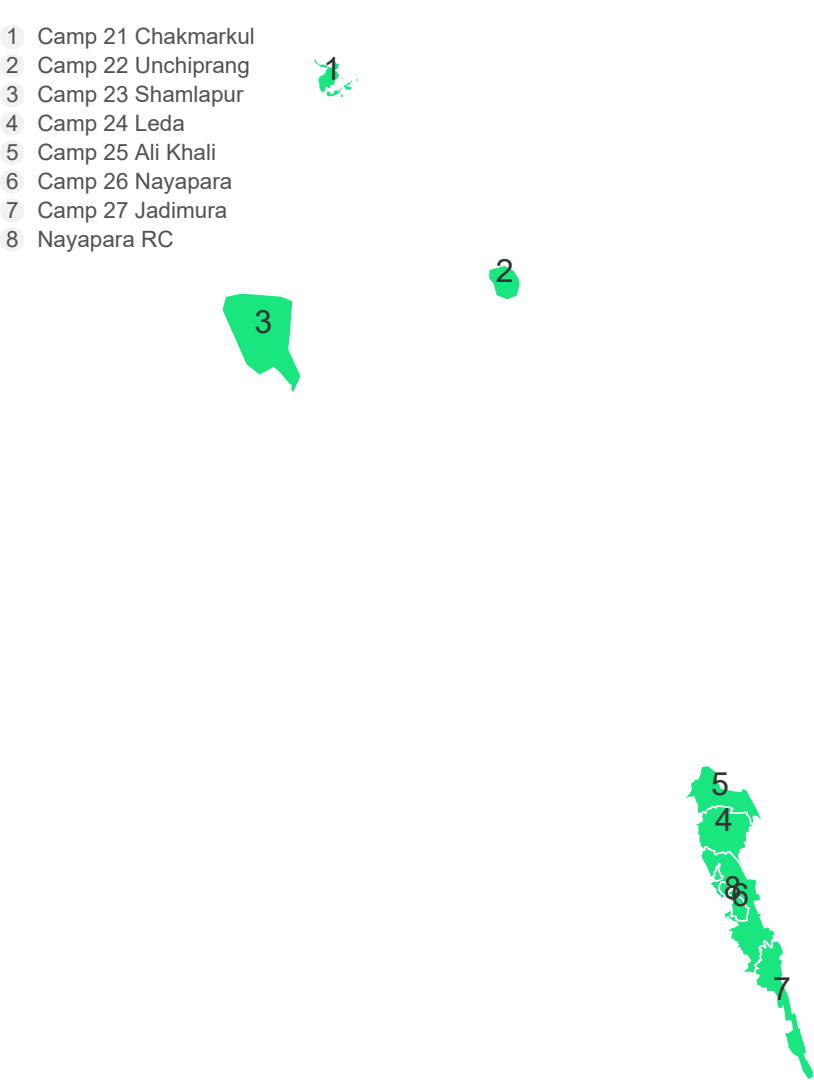
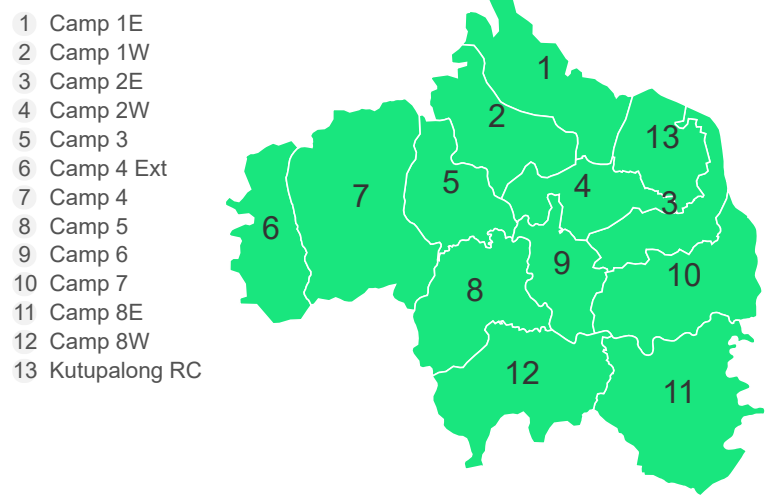


Table 4 | Performance by camp (W49 2023)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	4	100%	100%
Camp 1W	4	3	100%	88%
Camp 2E	3	3	100%	100%
Camp 2W	3	3	100%	100%
Camp 3	3	3	100%	83%
Camp 4	5	5	80%	60%
Camp 4 Ext	1	1	100%	100%
Camp 5	4	4	100%	100%
Camp 6	2	2	100%	100%
Camp 7	4	4	100%	100%
Camp 8E	9	8	75%	81%
Camp 8W	3	3	100%	83%
Kutupalong RC	2	2	100%	100%

Map 2 | Completeness by camp



Completeness

0

25%

50%

75%

100%

Table 5 | Performance by camp (W49 2023)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	75%	63%
Camp 11	3	3	100%	100%
Camp 12	3	3	100%	100%
Camp 13	6	5	83%	75%
Camp 14	5	5	100%	100%
Camp 15	7	6	71%	79%
Camp 16	7	7	114%	79%
Camp 17	4	4	100%	100%
Camp 18	4	4	100%	88%
Camp 19	3	3	100%	100%
Camp 20	3	3	100%	100%
Camp 20 Ext	2	2	100%	100%
Camp 9	5	5	120%	110%

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

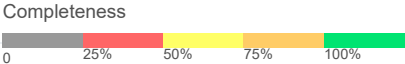
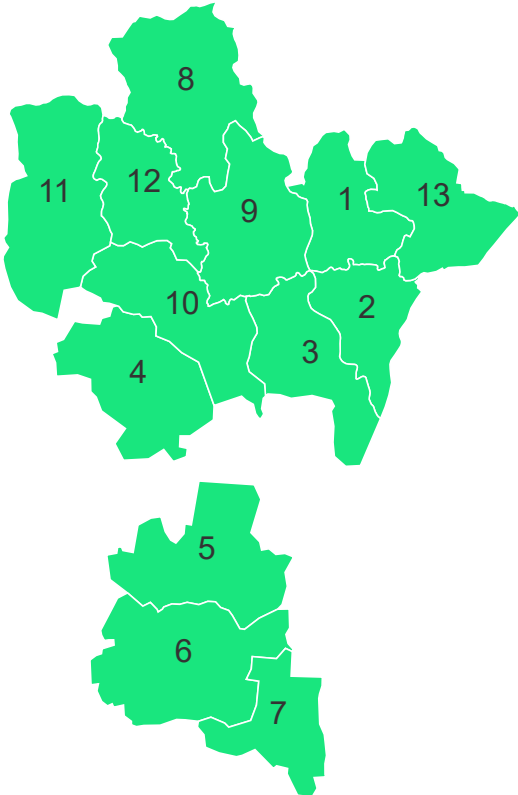


Table 6 | Performance by camp (W49 2023)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	3	3	100%	67%
Camp 22 Unchiprang	4	3	75%	75%
Camp 23 Shamlapur	2	2	100%	75%
Camp 24 Leda	2	1	100%	75%
Camp 25 Ali Khali	3	3	100%	100%
Camp 26 Nayapara	4	3	100%	75%
Camp 27 Jadimura	2	2	100%	75%
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

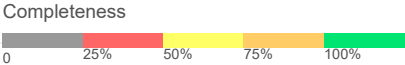
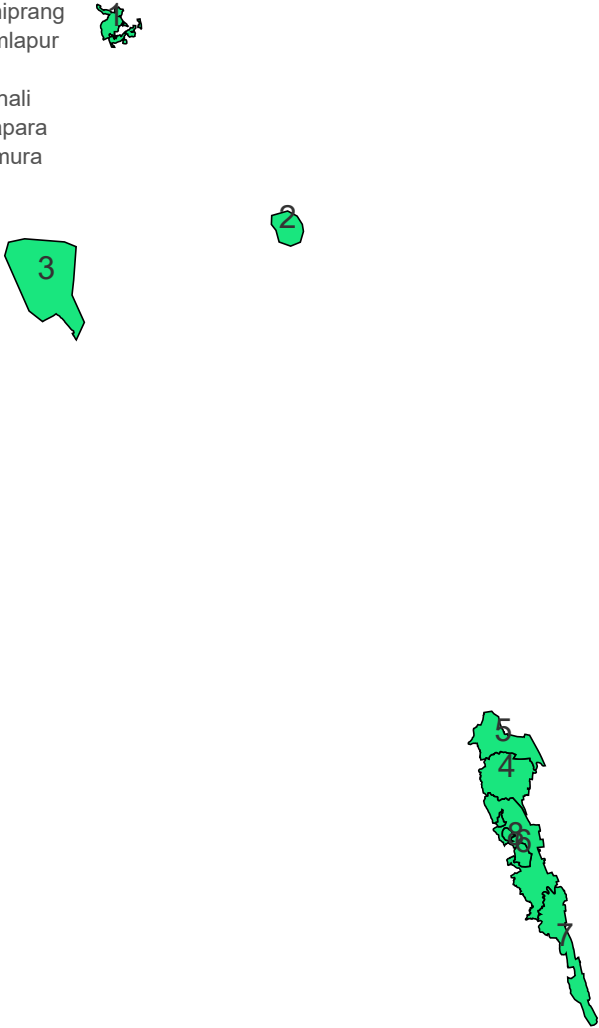


Table 7 | Performance by partner (W49 2023)

Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	2	1	50%	50%	IRC	8	3	75%	75%
AWARD	12	6	50%	50%	MSF	14	7	100%	100%
BASHMAH	2	1	50%	50%	MoH	14	5	57%	57%
BDRCS	18	7	39%	39%	MHI	0	1	0%	0%
BRAC	10	10	50%	50%	Medair	0	0		
CARE	0	0			FH/MTI	8	4	100%	100%
GH/CPI	2	1	50%	50%	PRANTIC	2	0	0%	0%
DBC	2	1	50%	50%	PULSE	2	1	50%	50%
DSK	0	0			QC	2	1	50%	50%
DCHT-PWJ	2	1	50%	50%	PHD	16	8	125%	25%
FRNDS	16	5	63%	63%	RPN	4	1	25%	25%
GK	20	10	100%	100%	RHU	6	3	50%	100%
Global One	0	1	0%	0%	RI	0	0		
GUSS	2	1	50%	50%	RTMI	14	7	86%	86%
HAEFA	4	2	50%	50%	SALT	2	1	50%	50%
HAIB	0	0			SCI	14	7	100%	100%
HMBDF	4	2	100%	100%	DCHT-MM	2	0	0%	0%
HOPE	2	1	50%	0%	Turkish Government	2	2	100%	100%
ICRC	0	0			TdH	4	2	100%	100%
IOM	38	18	95%	84%					

Table 8 | Performance by camp

Northern group	W49		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	2	0%	112	80%
Camp 1W	4	0%	167	78%
Camp 2E	11	0%	443	69%
Camp 2W	4	0%	190	74%
Camp 3	6	0%	189	65%
Camp 4	2	0%	152	74%
Camp 4 Ext	2	0%	44	66%
Camp 5	0	0%	85	78%
Camp 6	0	0%	71	72%
Camp 7	0	0%	78	76%
Camp 8E	0	0%	87	83%
Camp 8W	1	0%	175	77%
Kutupalong RC	2	0%	53	85%

Map 5 | Number of alerts by camp

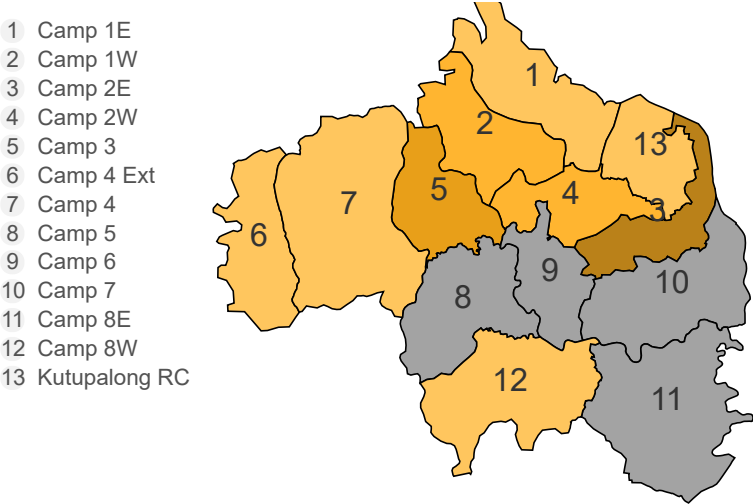


Table 9 | Performance by camp

Southern group	W49		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	1	0%	89	56%
Camp 11	3	0%	68	75%
Camp 12	1	0%	79	76%
Camp 13	4	0%	104	81%
Camp 14	3	0%	116	67%
Camp 15	3	0%	167	60%
Camp 16	3	0%	126	67%
Camp 17	1	0%	61	64%
Camp 18	4	0%	178	66%
Camp 19	0	0%	18	83%
Camp 20	1	0%	74	66%
Camp 20 Ext	0	0%	19	95%
Camp 9	0	0%	107	76%

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

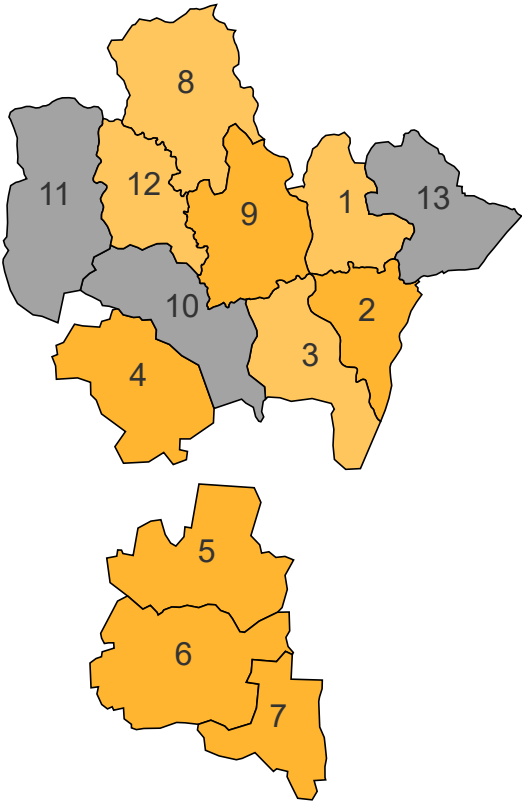


Table 10 | Performance by camp

Teknaf	W49		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	3	0%	105	65%
Camp 22 Unchiprang	3	0%	77	81%
Camp 23 Shamlapur	0	0%	4	100%
Camp 24 Leda	7	0%	274	59%
Camp 25 Ali Khali	1	0%	16	75%
Camp 26 Nayapara	0	0%	36	72%
Camp 27 Jadimura	1	0%	14	79%
Nayapara RC	0	0%	68	63%

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

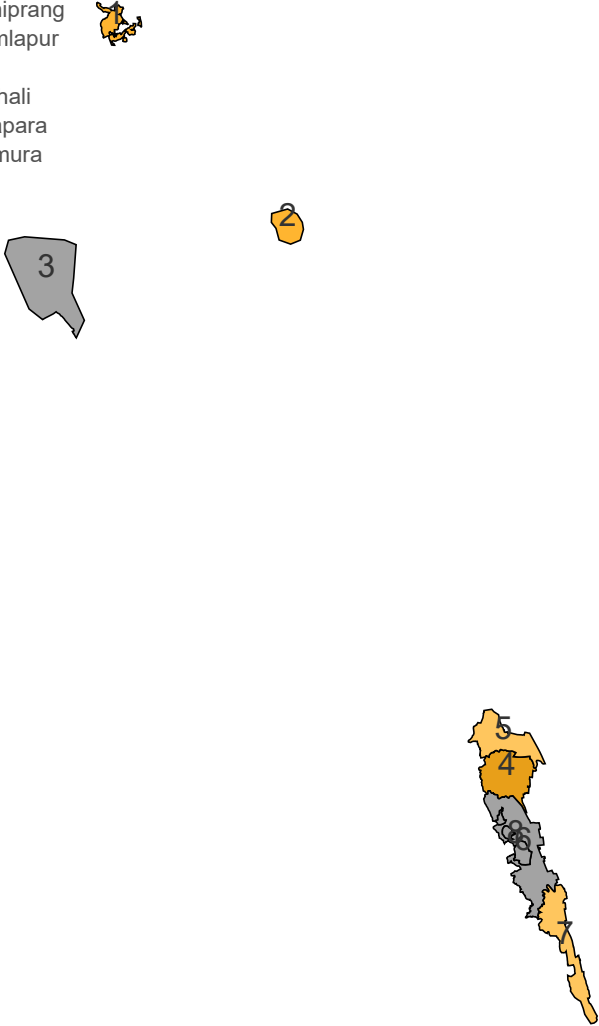


Table 11 | Performance by type of alert

Event	W49		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	1	0%	76	95%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	11	91%
Meningitis	0	0%	17	76%
Haem. fever (susp.)	1	0%	13	77%
NNT	0	0%	2	50%
Unexp. fever	0	0%	39	85%
AWD	0	0%	42	81%
ARI	0	0%	36	78%
AJS	0	0%	22	95%
Varicella (Susp.)	0	0%	93	99%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	4	0%	250	78%

Table 12 | Risk assessment

W49	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 W49 2023



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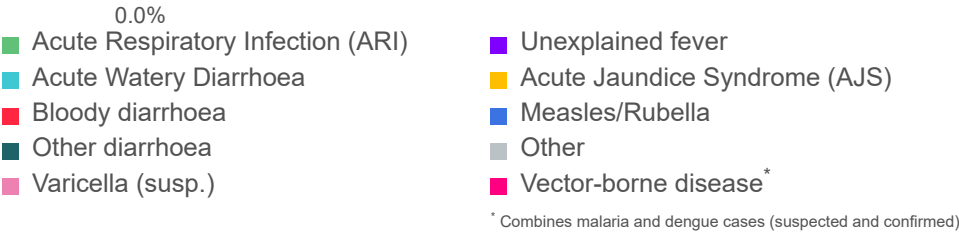
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Proportional morbidity

Figure 1 | Proportional morbidity (W49 2023)



Disease	W49		2023	
	# cases	% morbidity	# cases	% morbidity
AWD	2,488	3.0%	131,160	2.8%
Bloody diarr.	166	0.2%	10,483	0.2%
Other diarr.	1,360	1.6%	56,455	1.2%
Susp. Varicella	32	0.0%	29,645	0.6%
ARI	14,021	16.8%	892,964	19.0%
Measles/Rub.	16	0.0%	717	0.0%
AFP	1	0.0%	159	0.0%
Susp. menin.	2	0.0%	227	0.0%
AJS	4	0.0%	702	0.0%
Susp. HF	27	0.0%	681	0.0%
Neo. tetanus	0	0.0%	16	0.0%
Adult tetanus	5	0.0%	142	0.0%
Malaria (conf.)	1	0.0%	187	0.0%
Malaria (susp.)	58	0.1%	4,062	0.1%
Dengue (conf.)	126	0.2%	19,720	0.4%
Dengue (susp.)	52	0.1%	8,708	0.2%
Unexpl. fever	481	0.6%	45,887	1.0%
Sev. Malnut.	35	0.0%	2,960	0.1%
Inj./Wounds	2,406	2.9%	122,441	2.6%
Other	61,879	74.3%	3,378,538	71.7%
Total	82,747	100%	4,710,549	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W49)

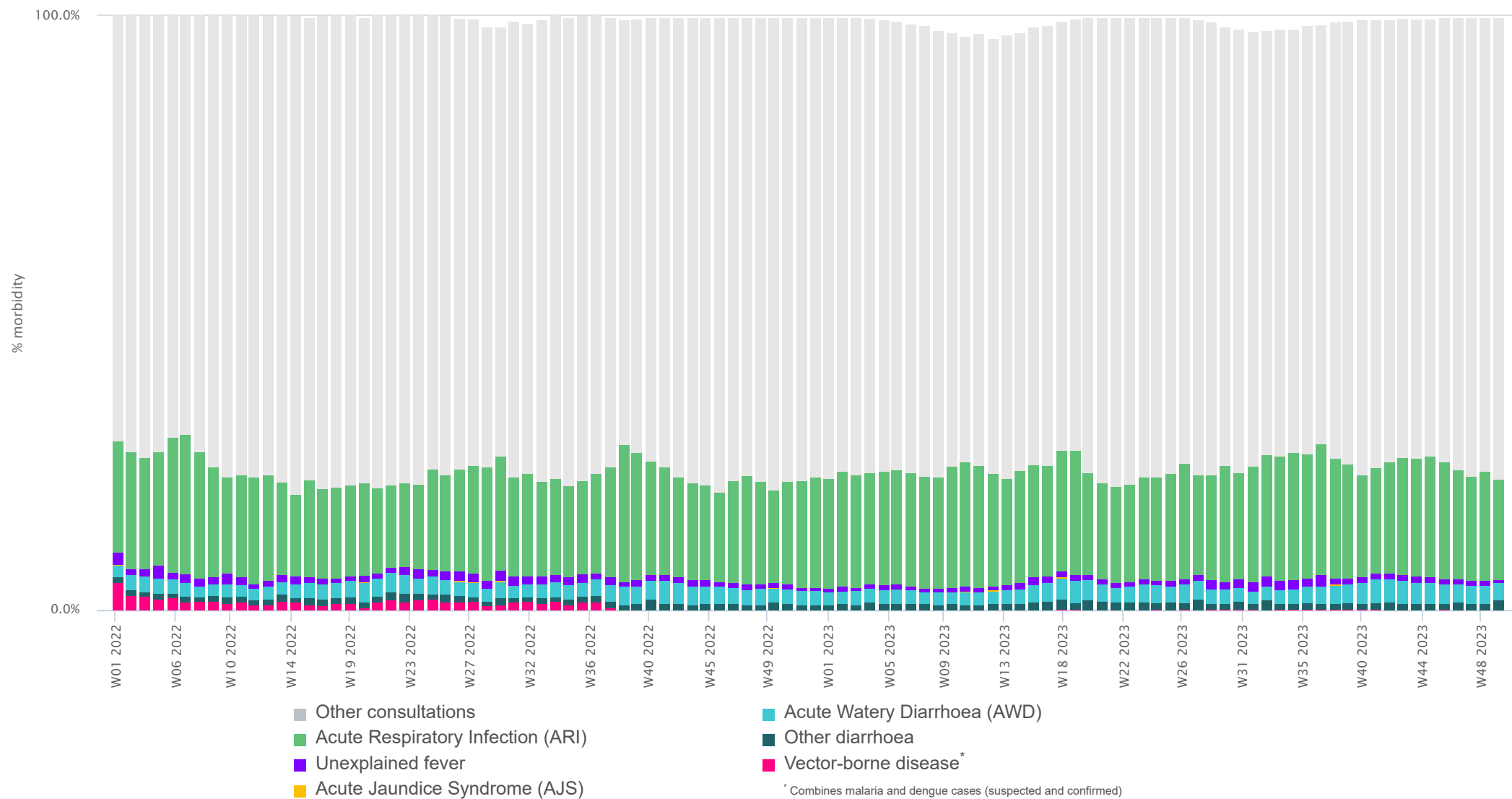
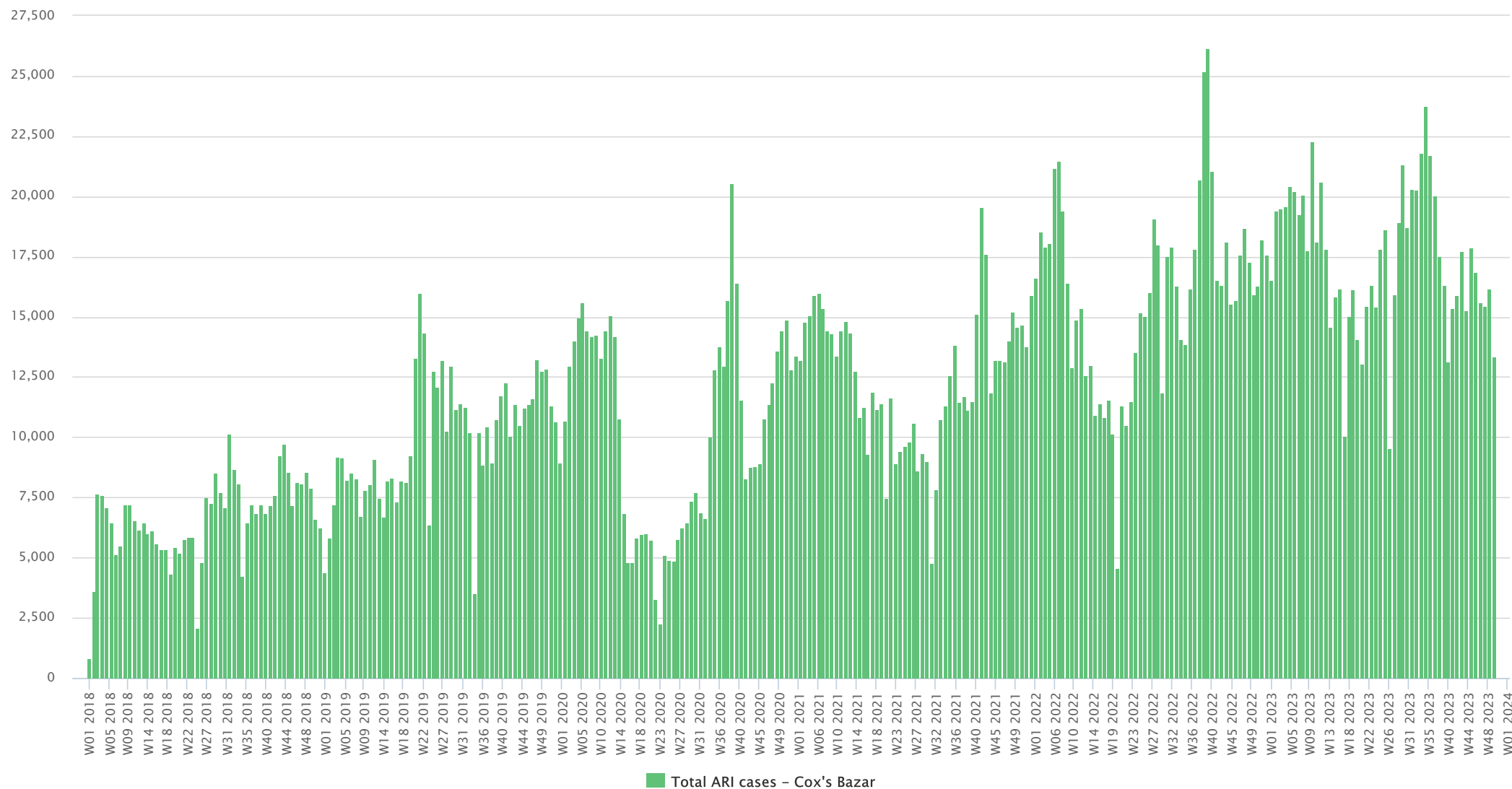
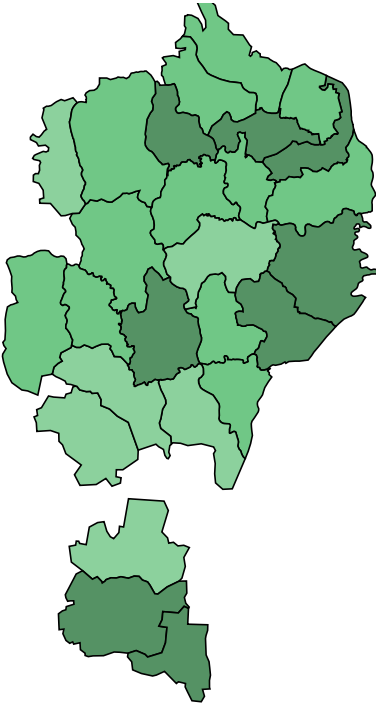


Figure 3 | Trend in number of cases over time (W38 2017 - W49 2023)



Map 1 | Map of cases by camp (W49 2023)

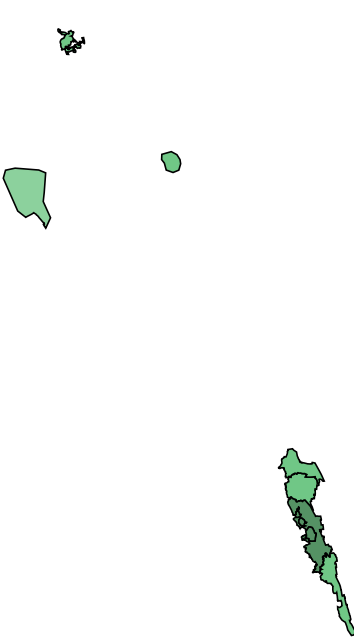
a. Ukhia | Number of cases



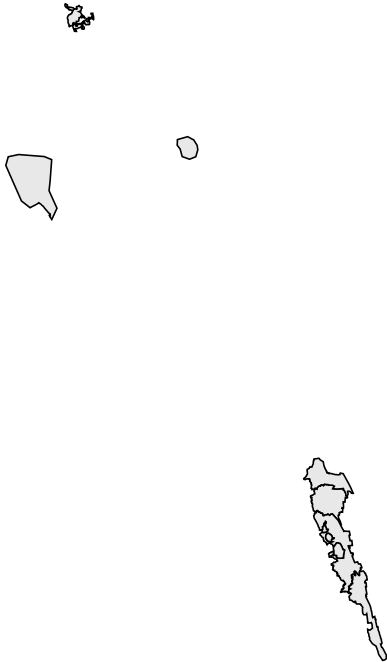
b. Ukhia | Number of alerts



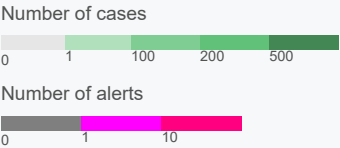
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W49 2023)

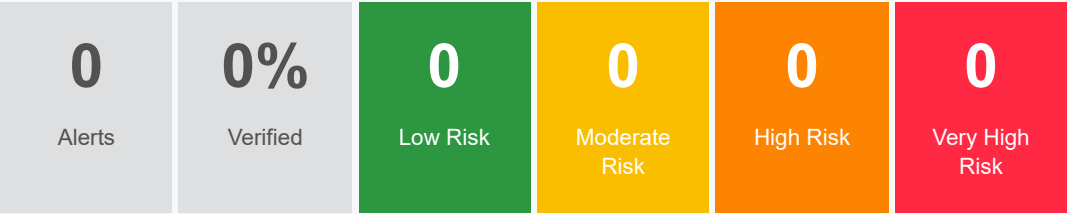


Figure | % sex

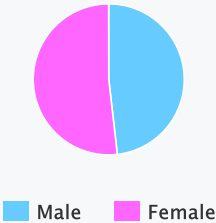


Figure | % age

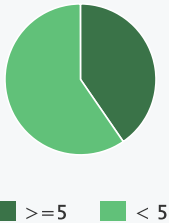
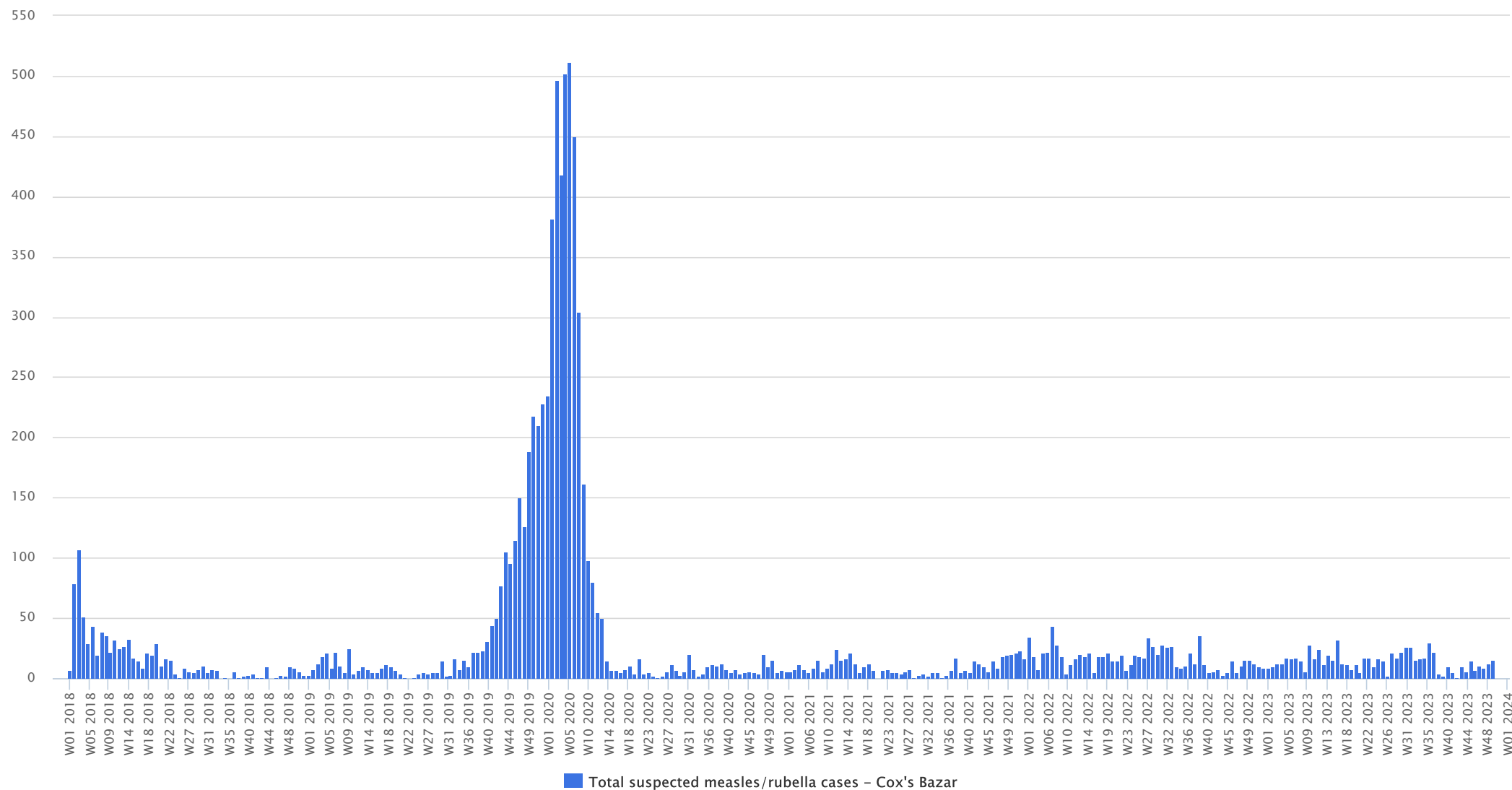
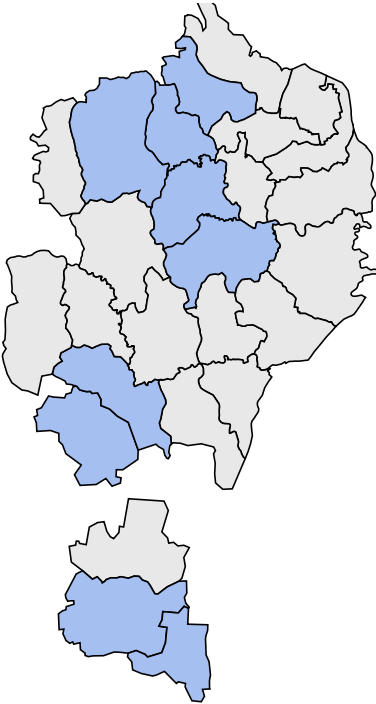


Figure 4 | Trend in number of suspected cases over time (W38 2017 - W49 2023)



Map 2 | Map of cases by camp (W49 2023)

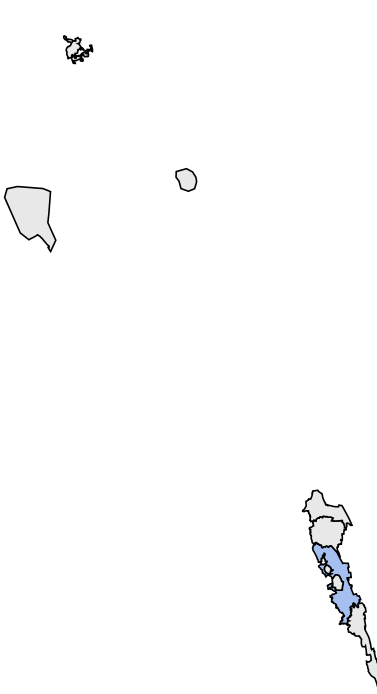
a. Ukhia | Number of cases



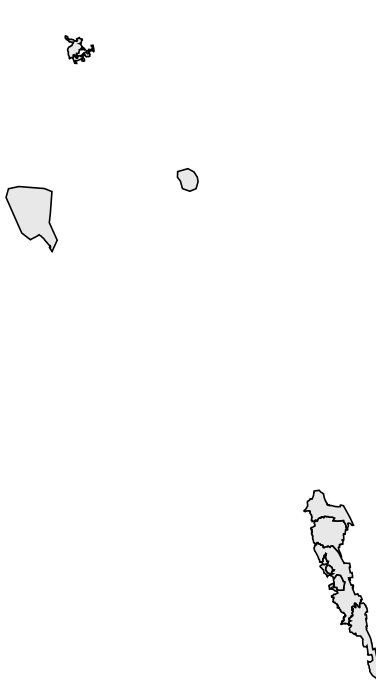
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W49 2023)

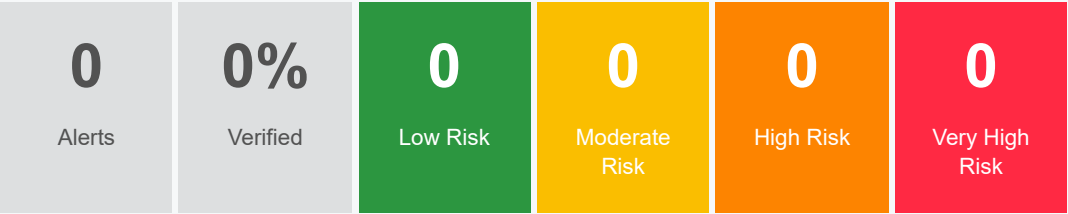


Figure | % sex

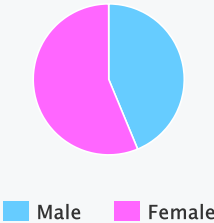


Figure | % age

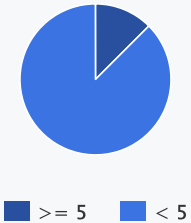
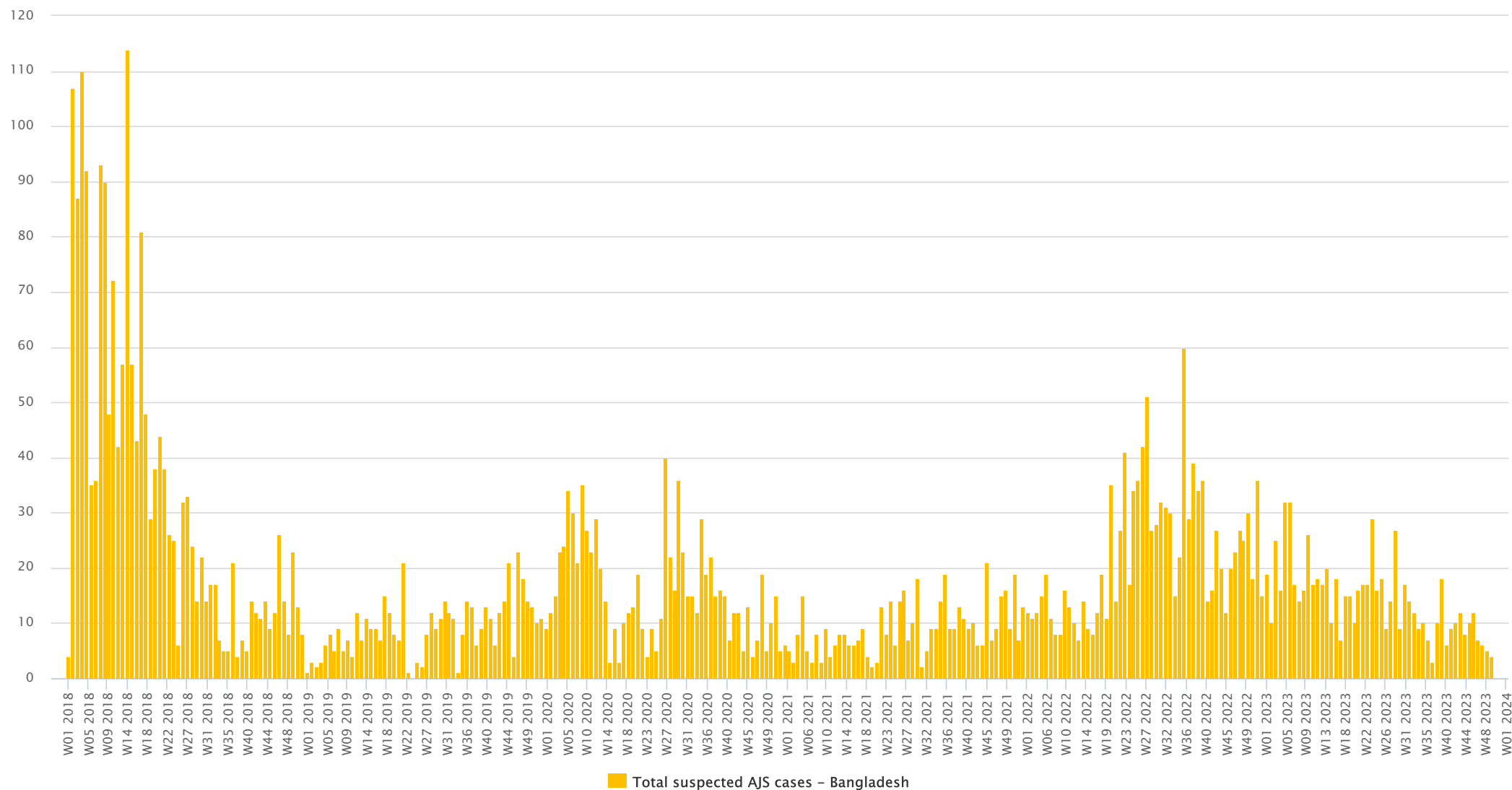
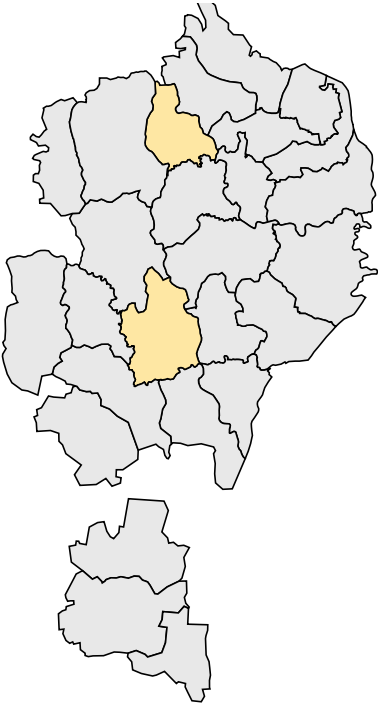


Figure 5 | Trend in number of cases over time (W38 2017 - W49 2023)



Map 3 | Map of cases by camp (W37 2017 - W49 2023)

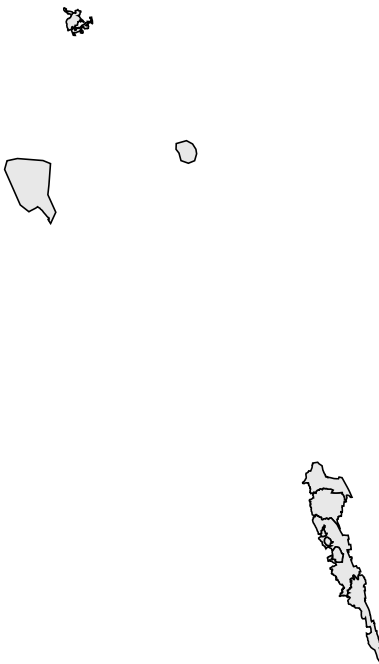
a. Ukhia | Number of cases



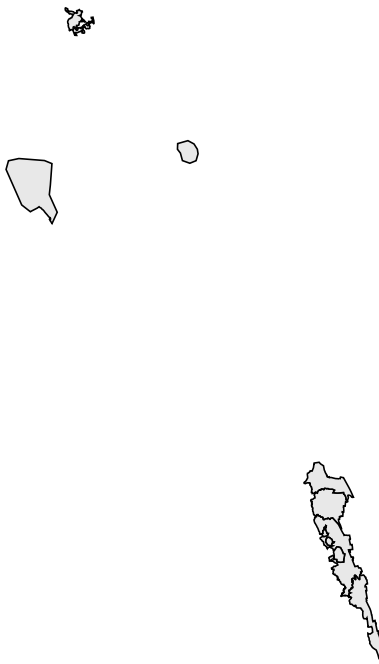
b. Ukhia | Number of alerts



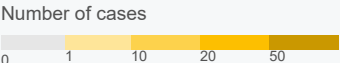
c. Teknaf | Number of cases



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 (W49 2023)

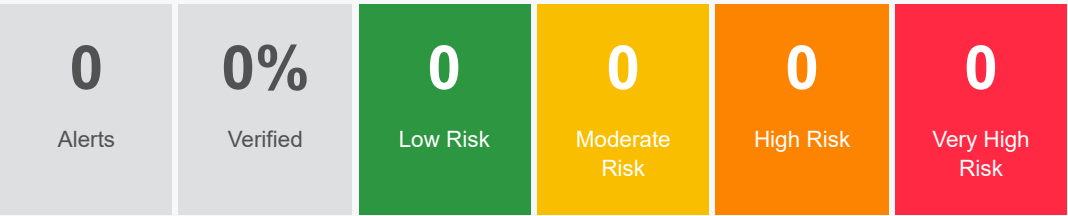


Figure | % sex

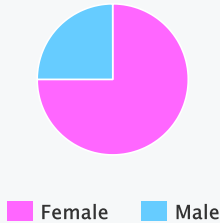


Figure | % age

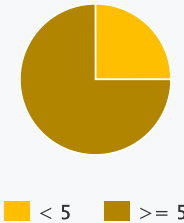


Figure 6 | Trend in number of cases over time (W38 2017 - W49 2023)

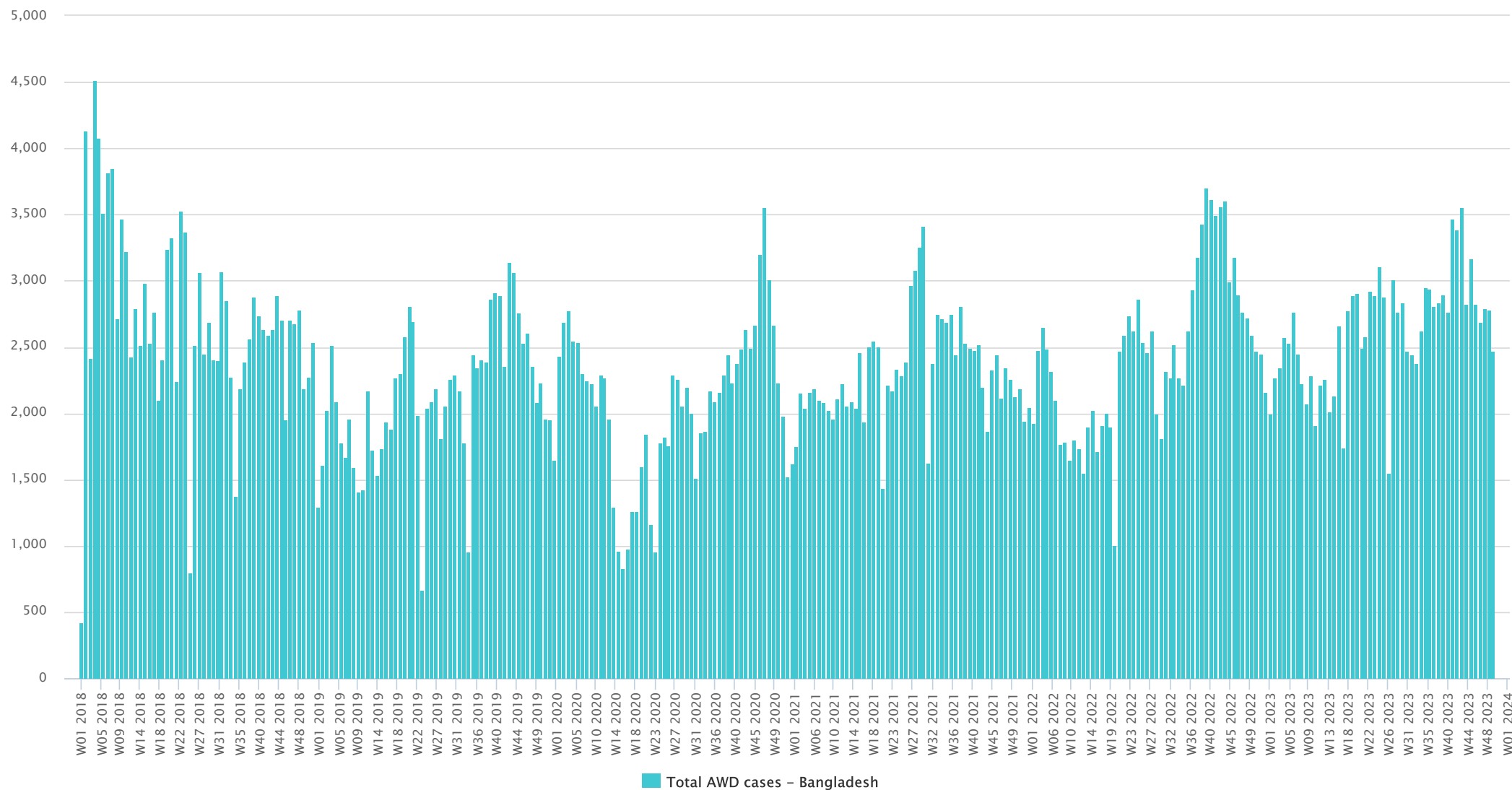
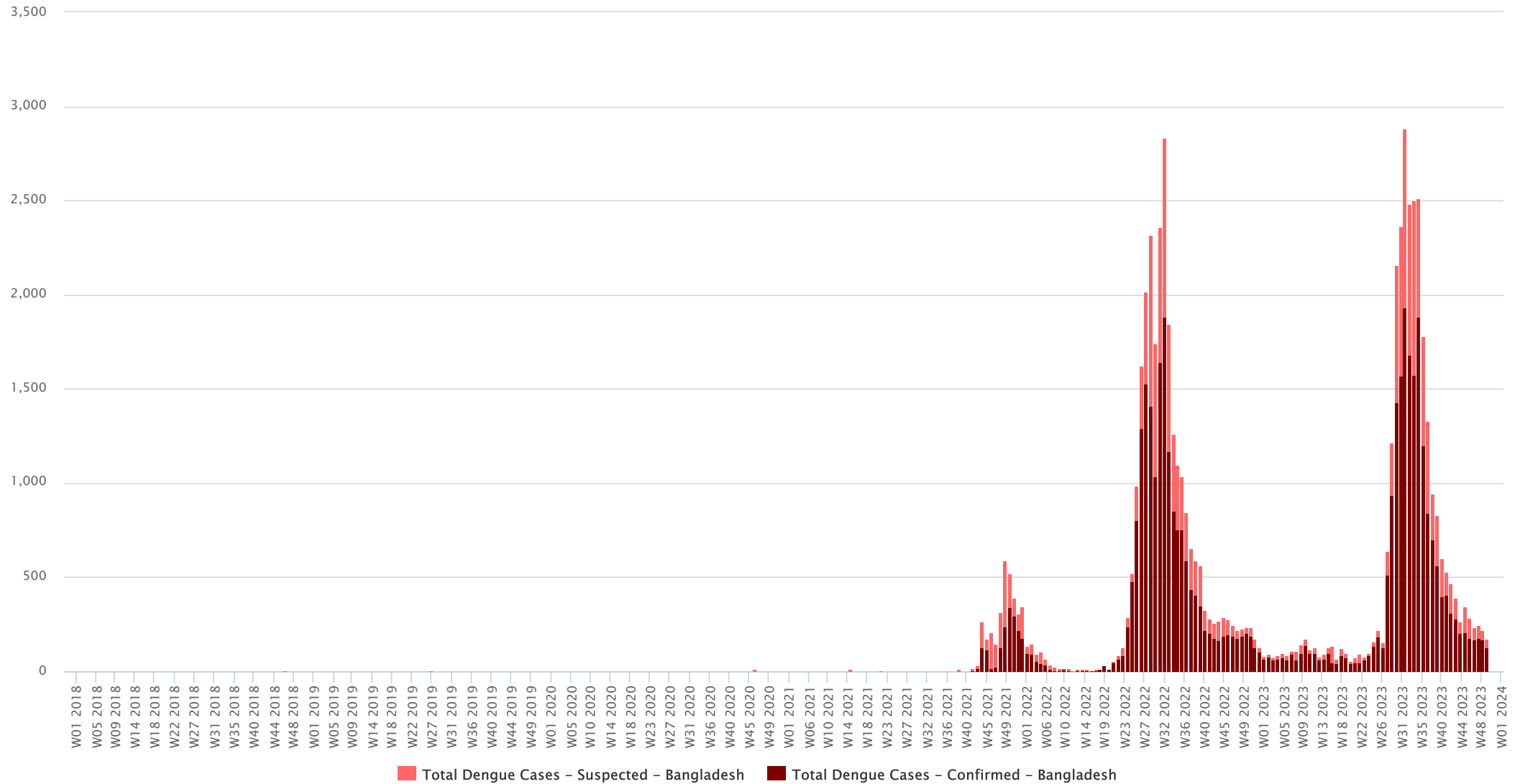
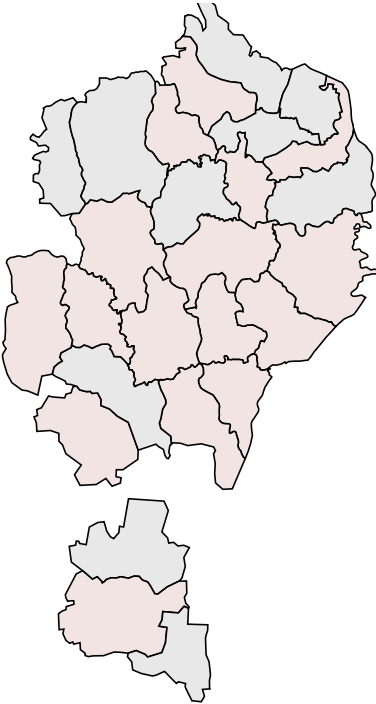


Figure 7 | Trend in number of cases over time (W38 2017 - W49 2023)



Map 4 | Map of cases by camp (W37 2017 - W49 2023)

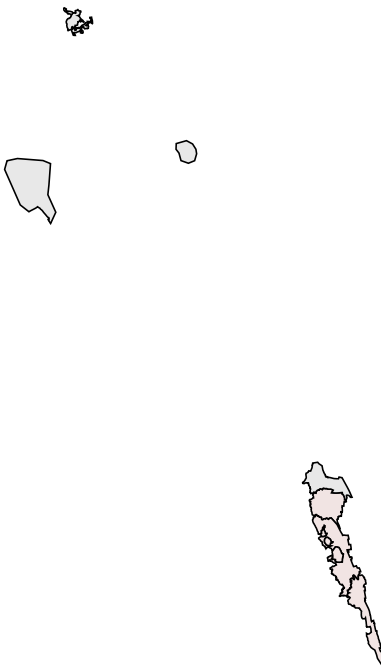
a. Ukhia | Number of cases



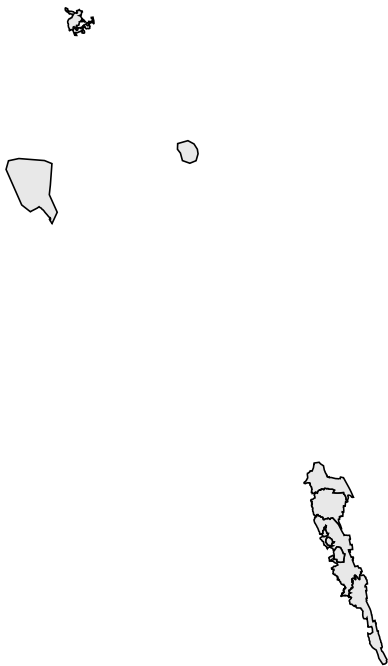
b. Ukhia | Number of alerts



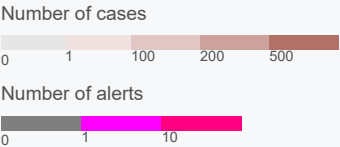
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W49 2023)

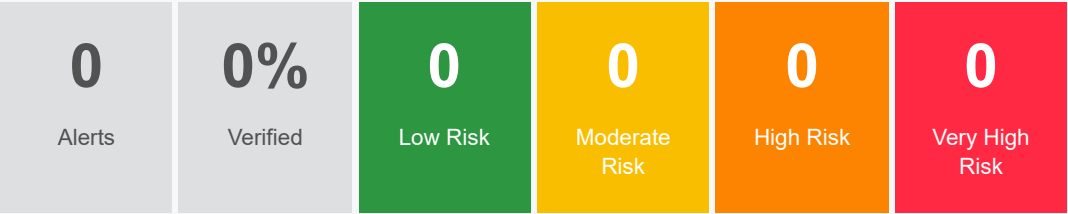


Figure | % sex

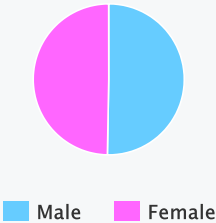


Figure | % age

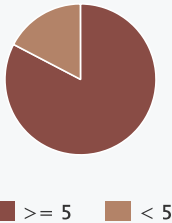
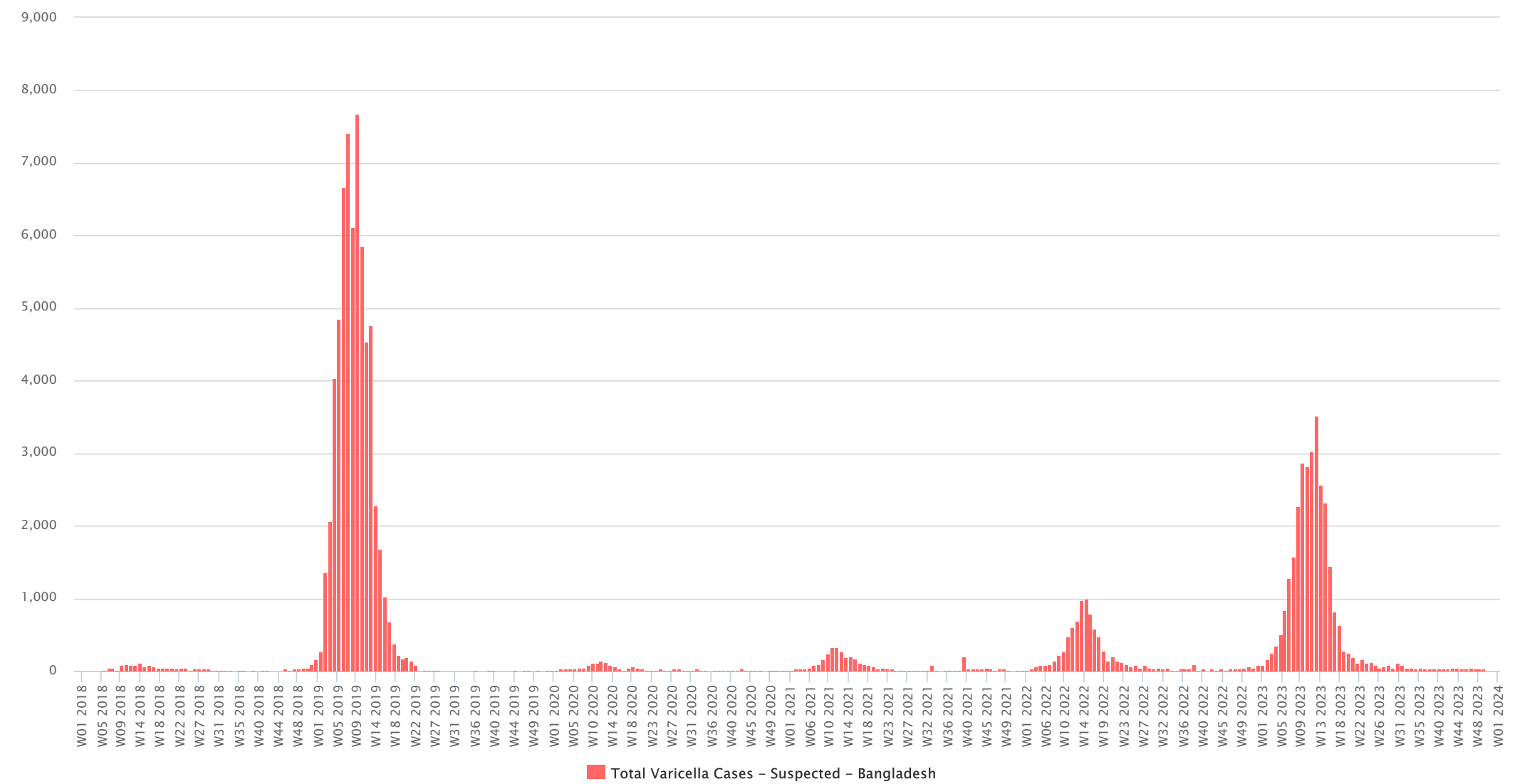
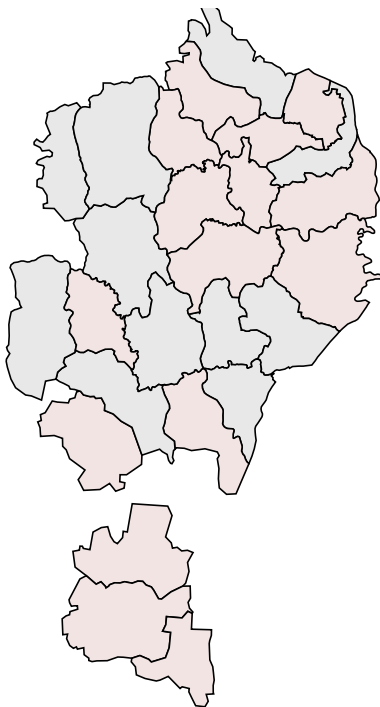


Figure 7 | Trend in number of cases over time (W38 2017 - W49 2023)

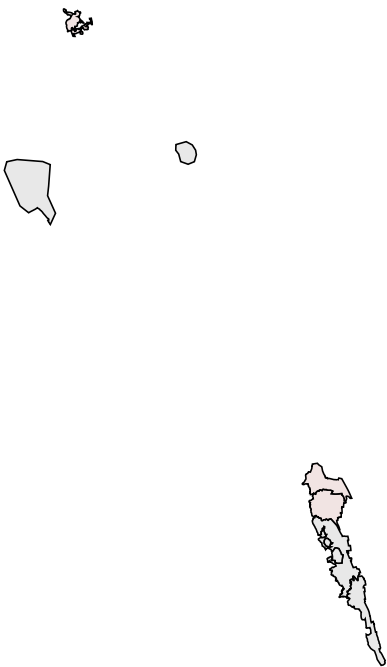


Map 4 | Map of cases by camp (W37 2017 - W49 2023)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

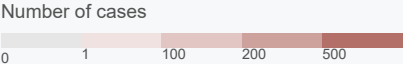


Figure | % sex

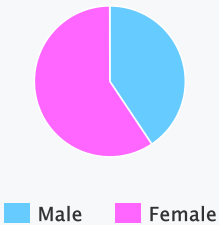
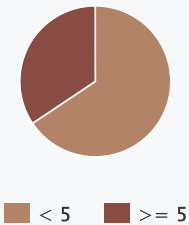


Figure | % age



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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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