



Epidemiological Highlights

Week 4 (22-28 January) 2023



World Health
Organization

EWARS Reporting Updates

Currently, a total of **165 health facilities** are registered in EWARS

- About 141 of the expected 160 weekly reports were received from registered health facilities on time in week 4 in 2023
- Timeliness of reporting for this week was 88% which is below the 80% weekly threshold
- Weekly completeness of reporting was 88%
- One twenty-six (126) alerts were triggered
- All alerts were reviewed and verified by the WHO EWARS team; this was more than the previous week (73 alerts in week 3, 2023)

Highlights: Morbidities and Mortalities

- Acute Respiratory Infections (19.7%), Diarrheal Diseases (3.7%) & Injuries, and Wounds (2.2%) were the diseases and health conditions with the highest proportionate morbidity in week 4 of 2023.
- Monitoring of suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020. So far, 3 cases have been reported in 2023 and none met the classification of Probable COVID-19
- This Epi week, one (1) new SARI death was reported as highlighted below:

Year	Suspected SARI death reported (current week)	Reclassified as death due to probable COVID-19
2023	3 (1)	0
2022	136	8
2021	96	15
2020	49	2

Highlights: Scabies

There are rising trends in scabies cases within FDMN Camps as reported by selected health facilities and DHIS2 data

WHO-led Health Sector has provided guidance on immediate cost-effective and impactful integrated case and contact identification and management, WASH and RCCE interventions through a Multi-sectoral approach

WHO prepared a concept note shared with partners for further review on the Community level prevalence survey to determine the level of transmission to assess suitability for Ivermectin-based Mass Drug Administration based on an acceptable prevalence threshold >10%

The epidemiology team will provide verifiable data once it is available.

Highlights: COVID-19

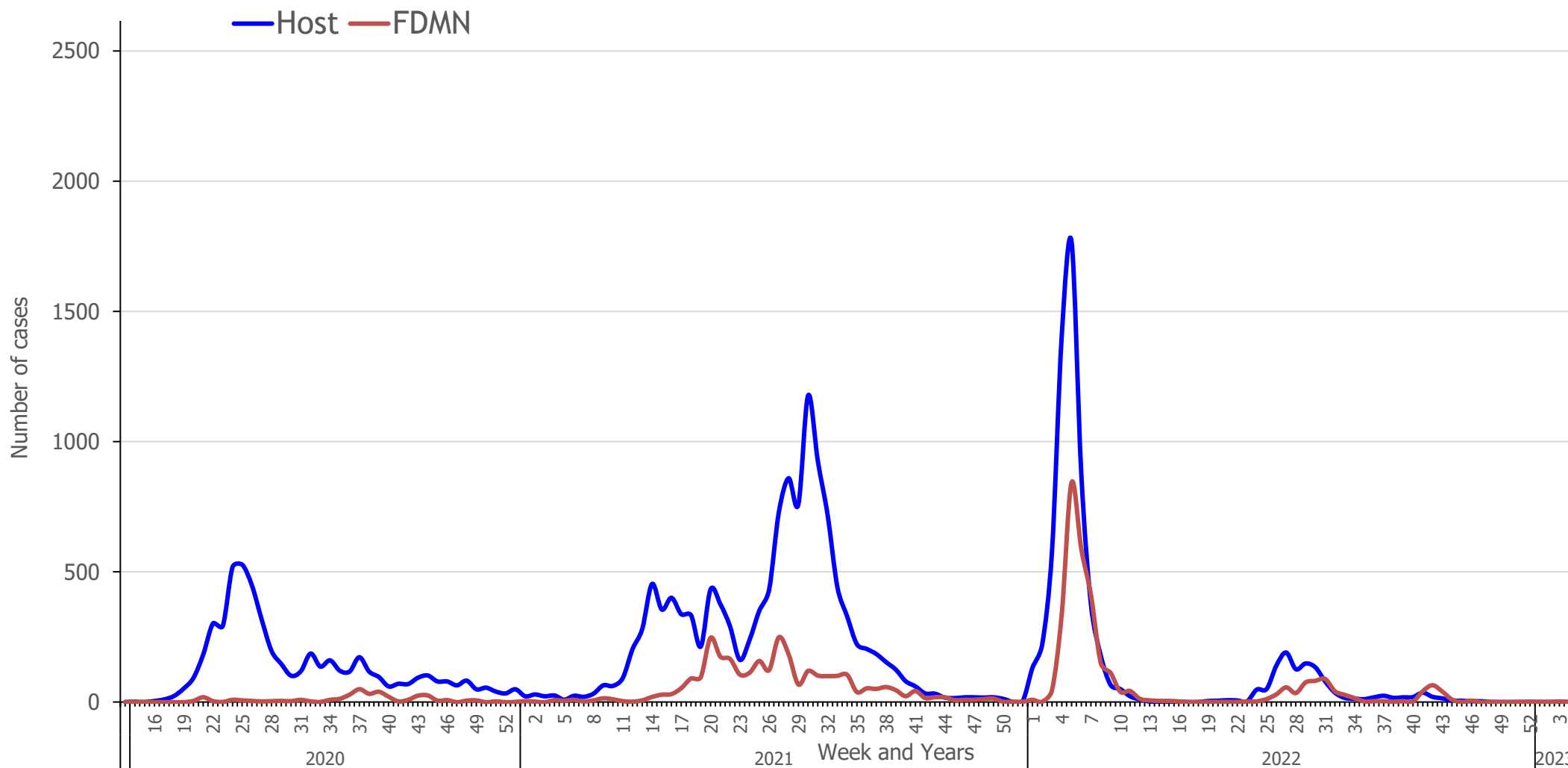
FDMN: Transmission almost under control

- One (1) confirmed case was reported this week
- Weekly TPR is 0.3 and incidence/new infections are 1.1
- No new death reported, and total deaths stabilized at 45 (CFR- 0.7%) while cumulative cases were steady at 6,594
- Level of recovery continues to steady at 99%

Host Population: Transmission under control

- No (0) new confirmed cases were reported this week similar to the **last nine weeks**, the total caseload is **24,643**
- Weekly TPR steady at zero this week, similar to the previous week
- Weekly case incidence stabilized at 0.0 cases/1m population/week last in the nine week
- Recovery level continues to remain steady at 99%, with no new death, and total deaths stand at **269** (CFR- 1.1%)

Highlights: COVID-19

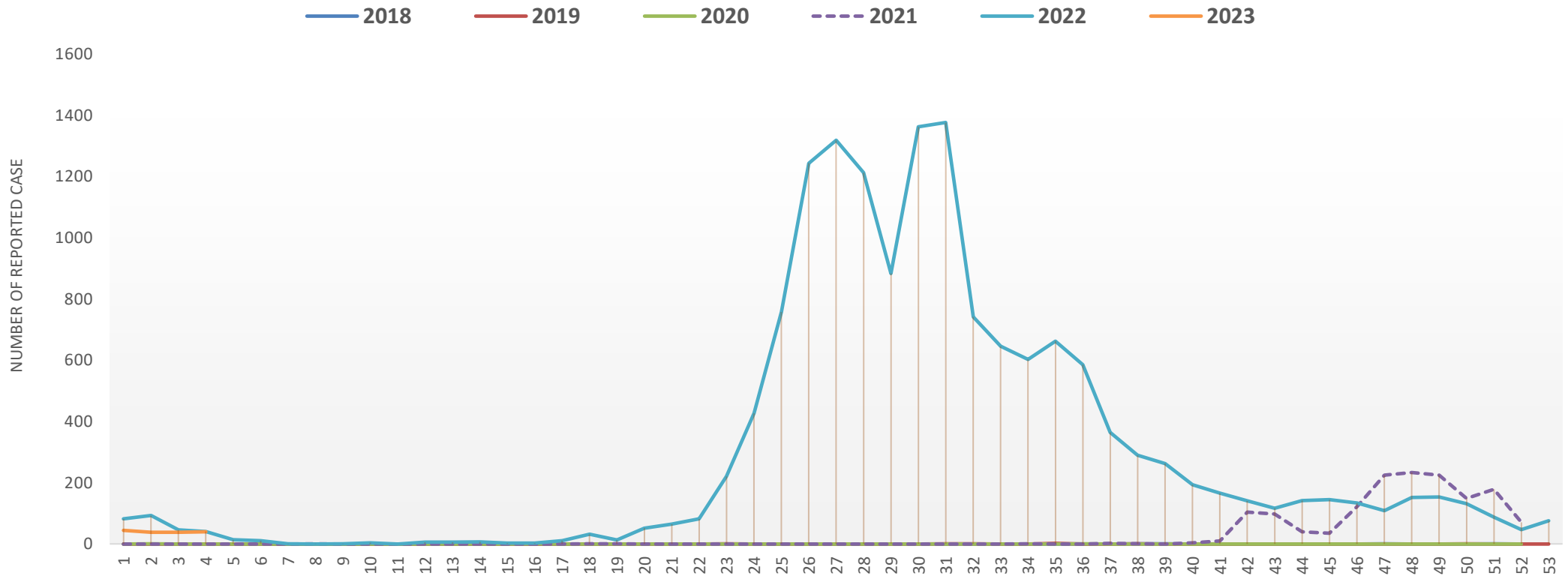


FDMNs: One (1) new confirmed case was reported this week, and weekly TPR is 0.3%, and case incidence remains 1.1 two weeks in a row.

Host Population: No new cases were reported in the week which is like the last eight weeks, weekly TPR and case incidence was steady at zero.

Dengue Surveillance Updates

Yearly Trends of Dengue case trend from 2018 - Epi Week 52, 2022



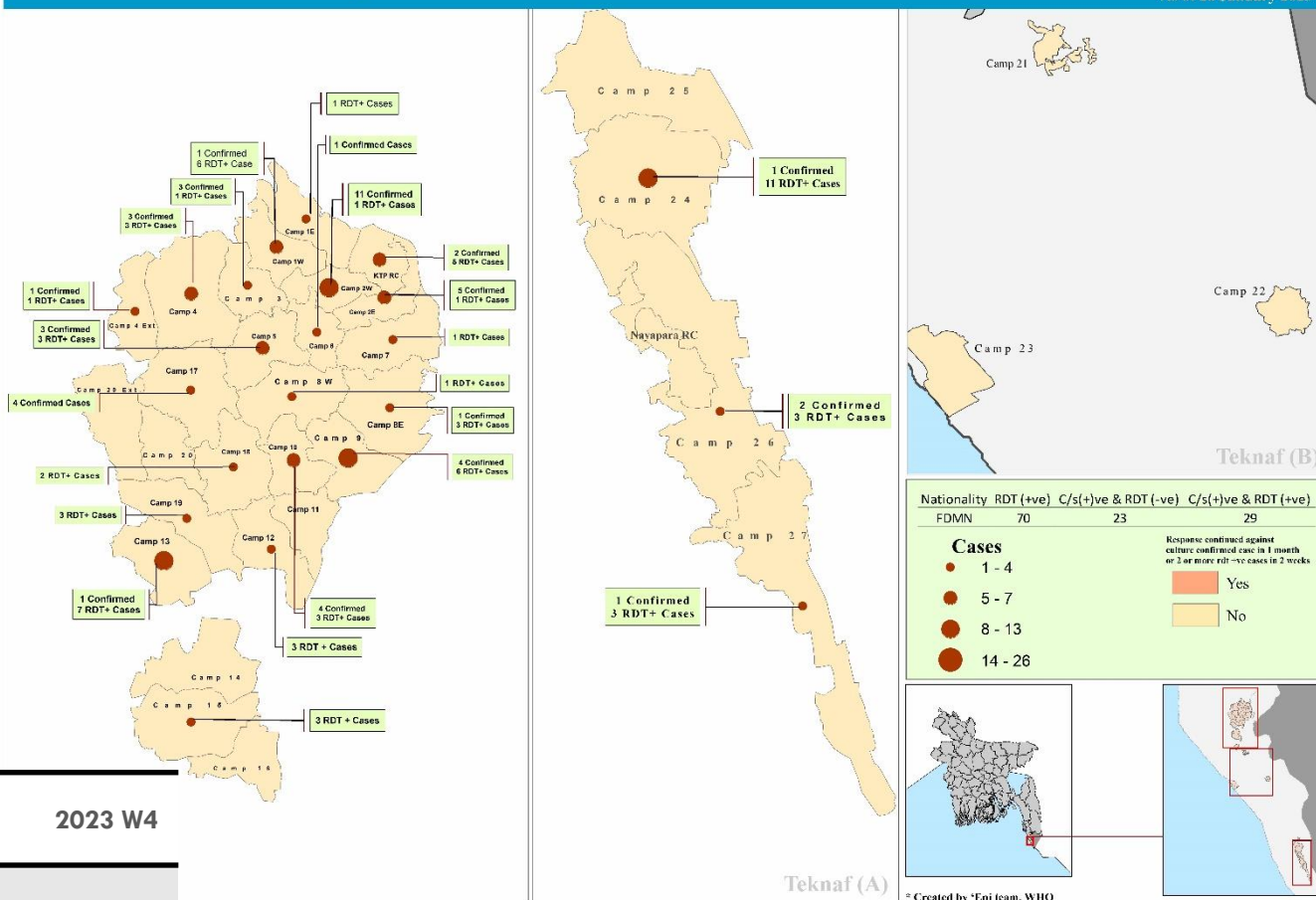
- ❑ Overall level of infection continues to decline since October 2022 and transmission significantly reduced as weekly cases continue to drop
- ❑ In 2023 total of 117 cases were reported and no fatalities occurred

Cholera/AWD Surveillance Updates

- In this week, there is one (1) new confirmed and 2 suspected Cholera cases reported from samples sent for testing.
- In 2023, a total of seven (7) RDT-positive AWD cases/ cholera suspected cases and three (3) culture-confirmed Cholera cases were reported as of Epi Week 4 2023.
- Cumulatively there are 869 RDT and culture-confirmed cholera cases of which 405 cases were culture-confirmed since transmission in 2018.

Distribution of RDT positive and culture confirmed for Cholera cases in FDMN 2022 - 2023

As of 28 January 2023



2018 2019 2020 2021 2022 2023 W4

RDT positive AWD cases & culture confirmed for Cholera cases

49 258 28 357 170 7

Culture confirmed for Cholera

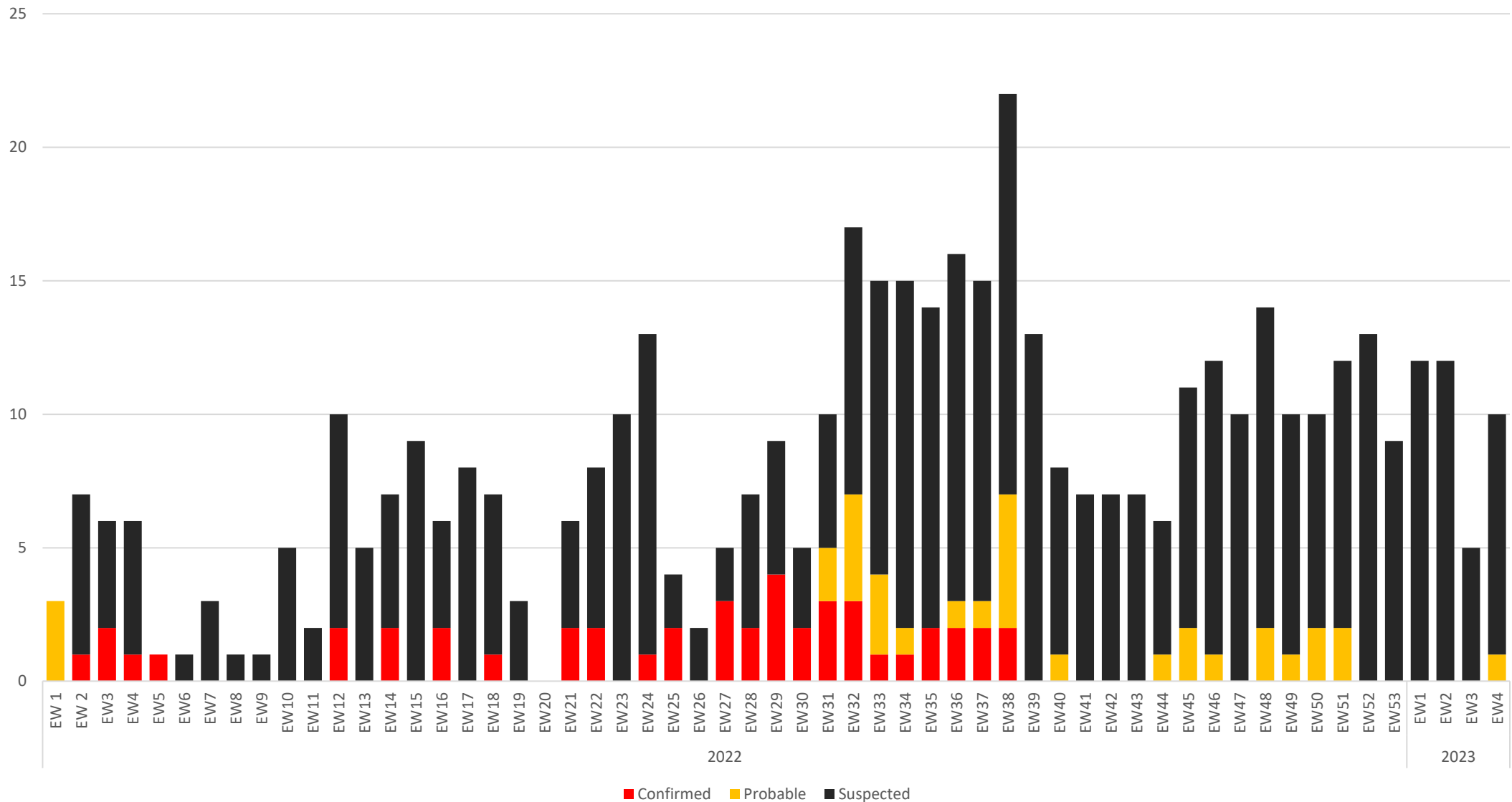
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Diphtheria Surveillance Updates

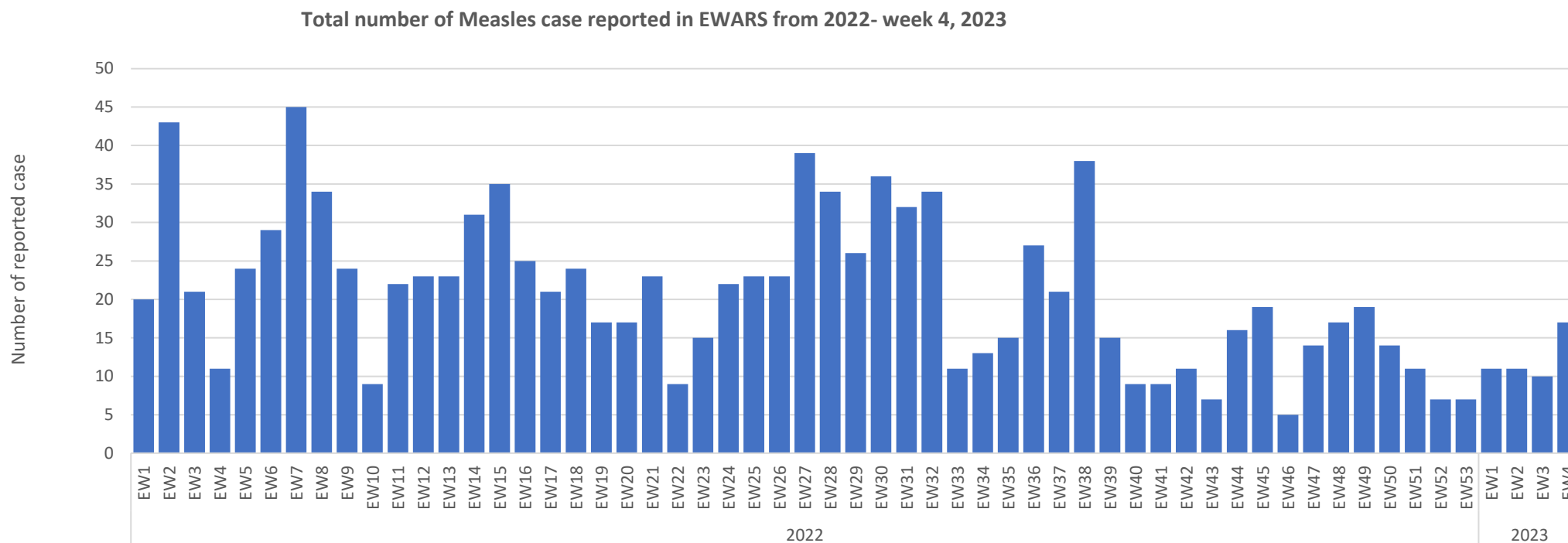
- One (1) probable and nine (9) suspected diphtheria cases were reported in go.data in this Epi week
- The last confirmed case was reported on 14 September 2022 due to a shortage of PCR Test kits
- In total 54 deaths have so far been reported since 2017, with the last death reported on 18 October 2022

Classification	2017	2018	2019	2020	2021	2022	2023
Confirmed	66	226	31	19	30	46	0
Probable	1154	1555	60	9	29	32	1
Suspected	1796	3549	523	198	118	355	38
Death	30	14	3	0	5	2	0

Trends of Diphtheria cases



Epi Curve of Suspected Measles Cases



- > In this week 17 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 49 reported in 2023
- > About 55% (27/49) of the total suspected measles cases were reported through case-based reporting and samples collected for laboratory confirmation

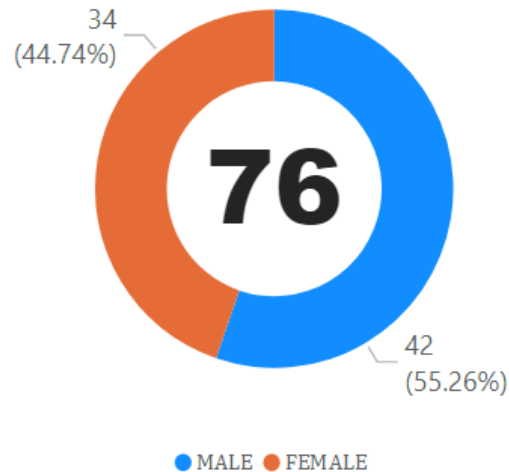
Community-based Mortality surveillance updates Epi week 4 2023

Probable causes of death	Epi week 4	In 2023
Still Birth	6 (8%)	29 (10%)
Neonatal Death (<28 days old)	7 (9%)	26 (9%)
Infectious Disease	2 (3%)	9 (3%)
Severe Acute Respiratory Infection (SARI)	1 (1%)	3 (1%)
Injury	1 (1%)	4 (1%)
Maternal Death	1 (1%)	6 (2%)
Acute Malnutrition	1 (1%)	2 (1%)
Other	57 (75%)	220 (74%)
Total	76 (100%)	299 (100%)

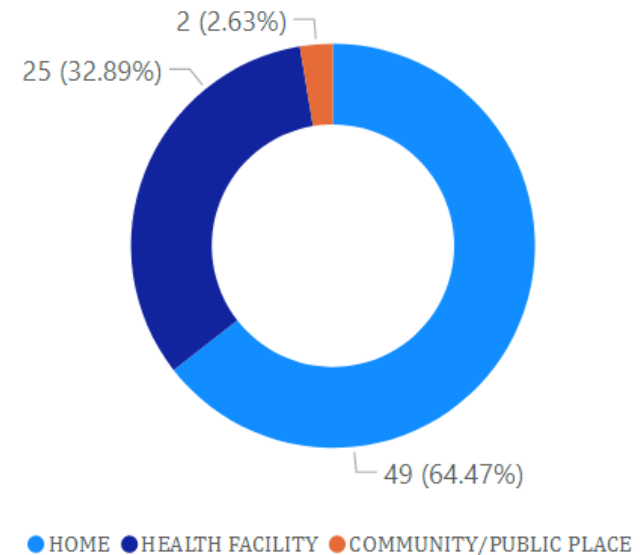
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable

Community-based Mortality surveillance updates Epi week 4 2023

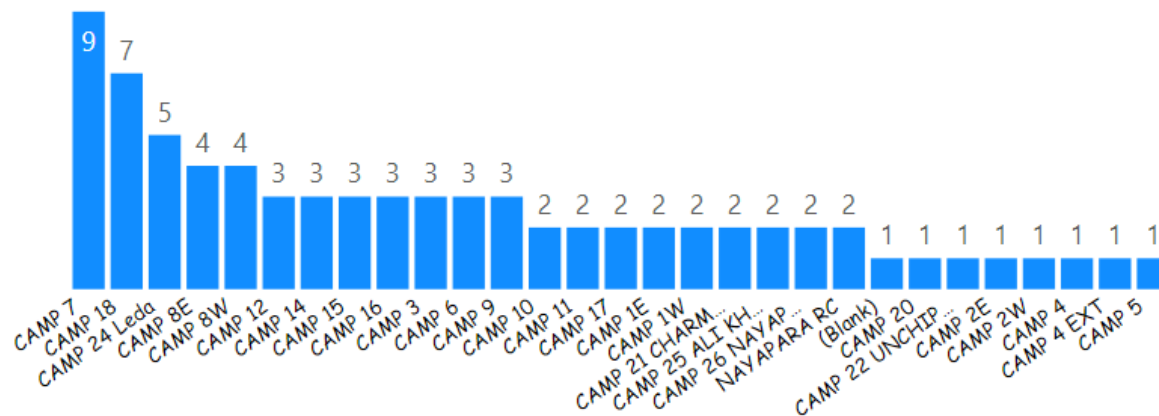
Gender distribution



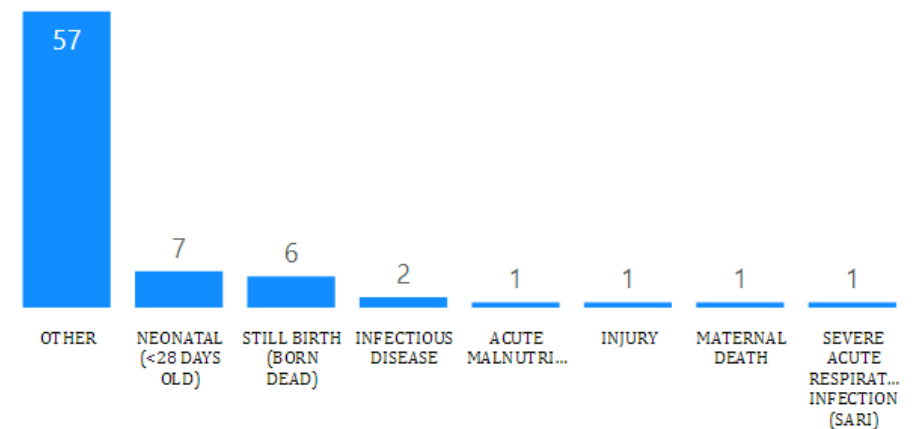
Place of death



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W4 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

Table 1 | Coverage

#	%	
952,309	-	Estimated total Rohingya population ¹
923,358	97%	Total population under surveillance
165	-	Total number of health facilities
160	97%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

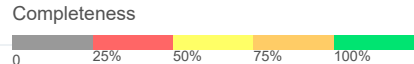
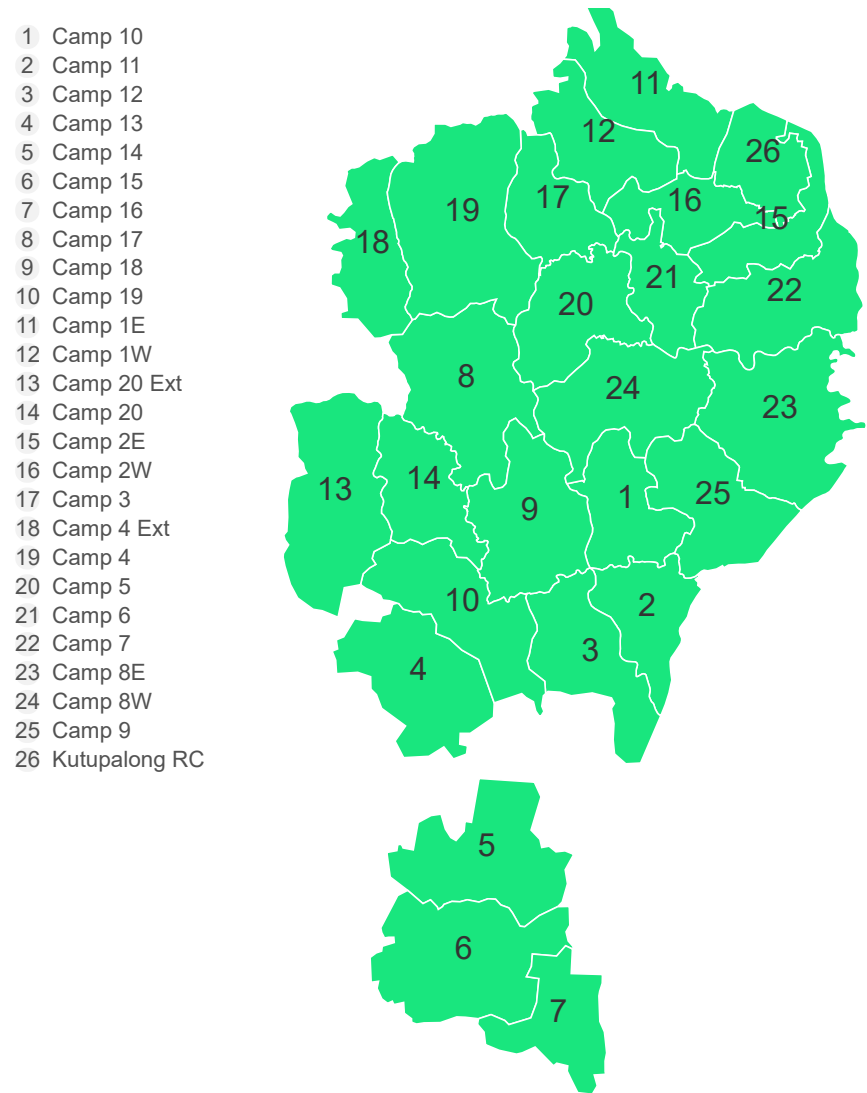
W4	Cumulative (2023)	
141	734	Number of weekly reports received
88%	90%	Completeness
88%	87%	Timeliness

Table 3 Alert performance indicators

W4	Cumulative (2023)	
126	410	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

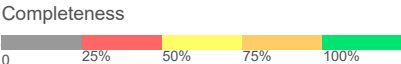
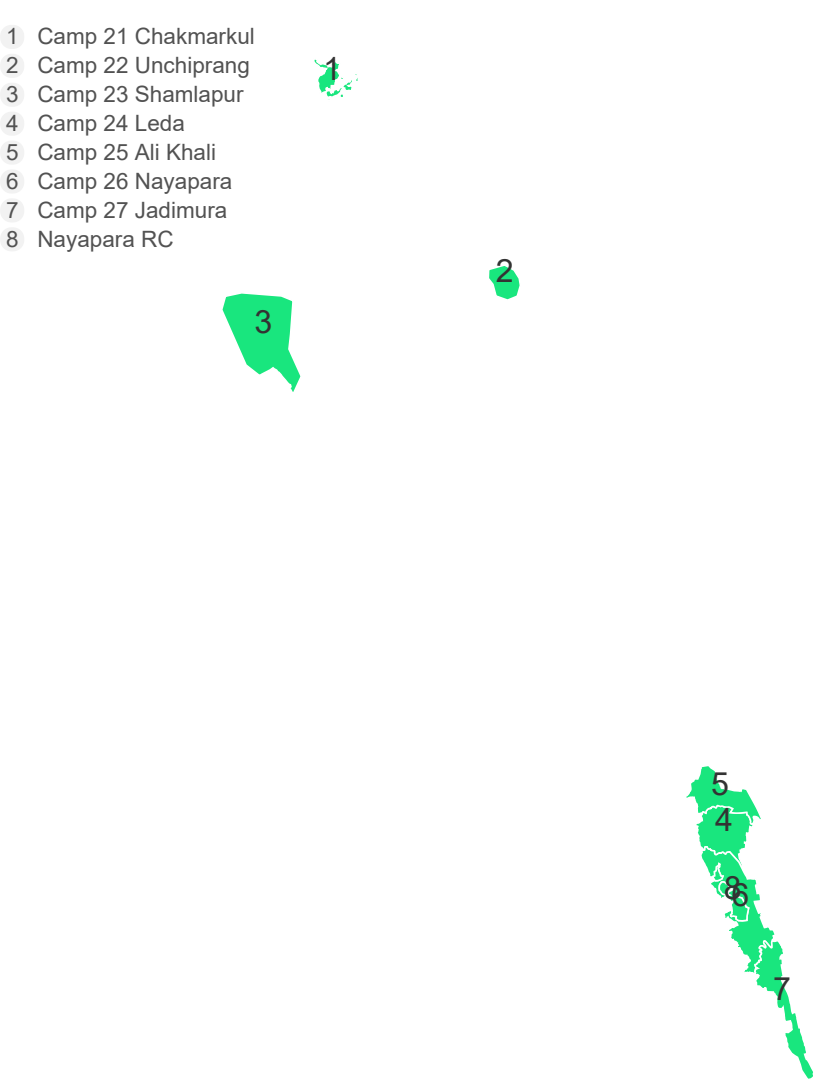


Table 4 | Performance by camp (W4 2023)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	4	100%	0%
Camp 1W	5	4	80%	0%
Camp 2E	3	3	100%	0%
Camp 2W	4	4	100%	0%
Camp 3	5	3	75%	0%
Camp 4	5	5	80%	0%
Camp 4 Ext	1	1	100%	0%
Camp 5	5	5	100%	0%
Camp 6	2	2	100%	0%
Camp 7	5	3	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

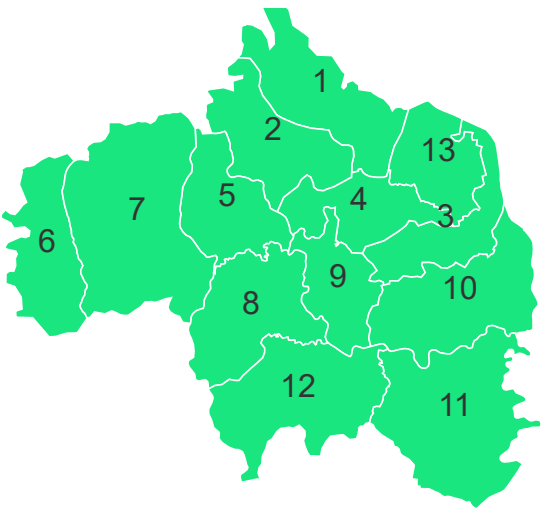
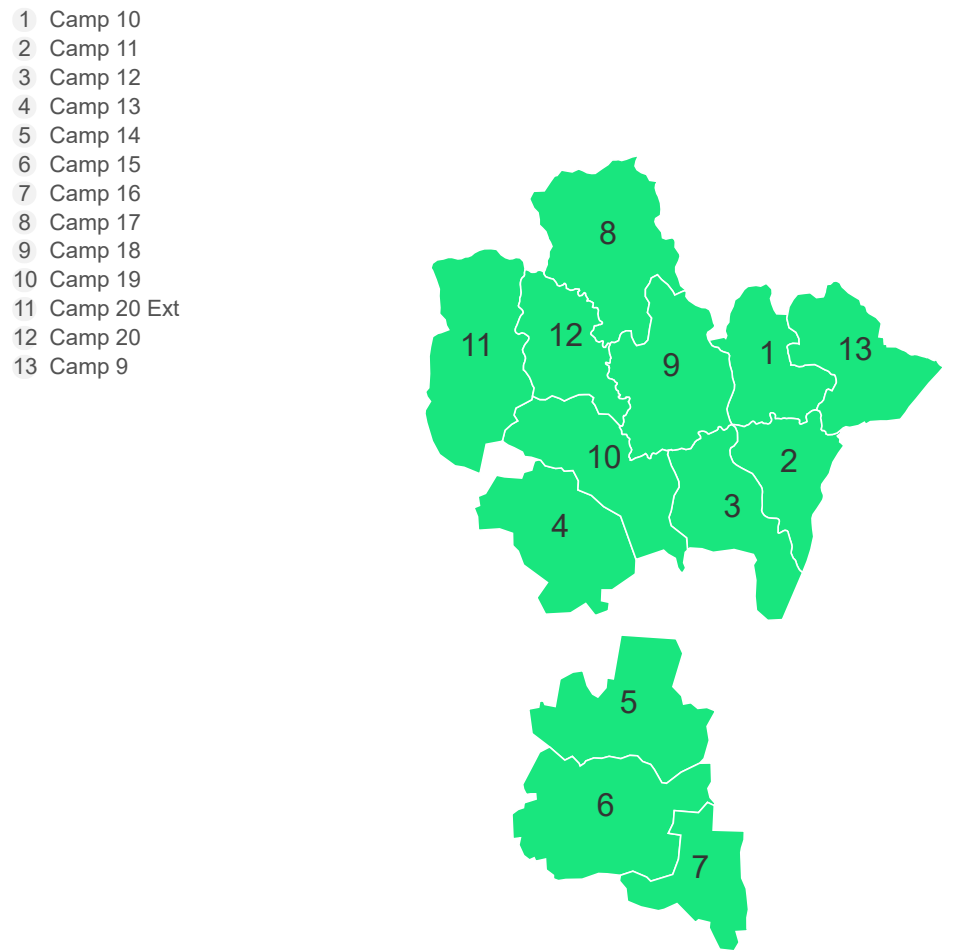


Table 5 | Performance by camp (W4 2023)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	0%
Camp 11	6	5	83%	0%
Camp 12	6	5	100%	0%
Camp 13	9	8	89%	0%
Camp 14	6	6	100%	0%
Camp 15	8	7	88%	0%
Camp 16	7	6	100%	0%
Camp 17	5	5	100%	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	100%	0%

Map 3 | Completeness by camp



Completeness

0

25%

50%

75%

100%

Table 6 | Performance by camp (W4 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	67%	0%
Camp 24 Leda	2	1	50%	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

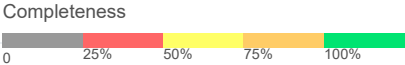
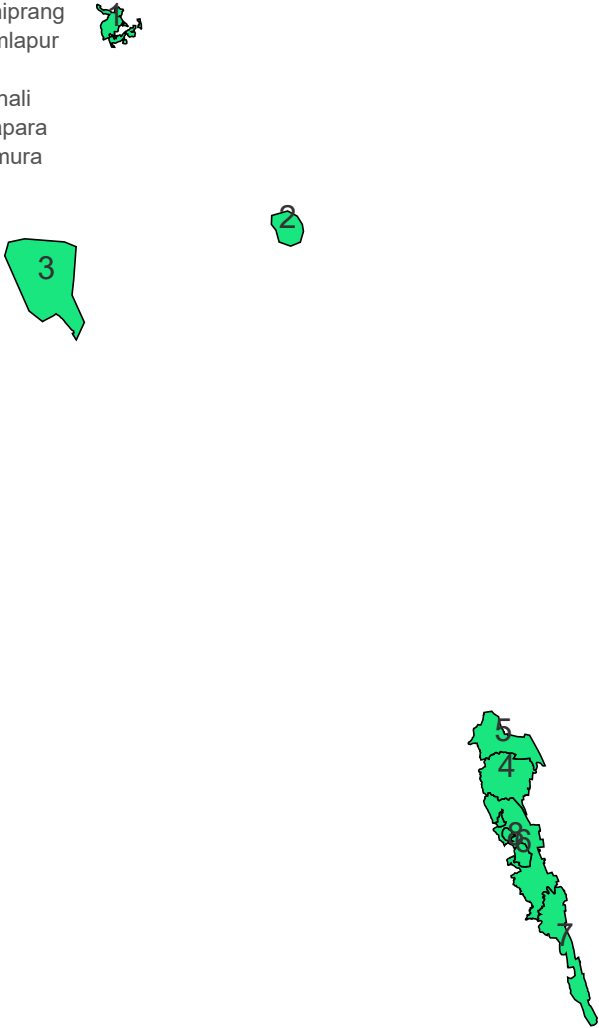


Table 7 | Performance by partner (W4 2023)

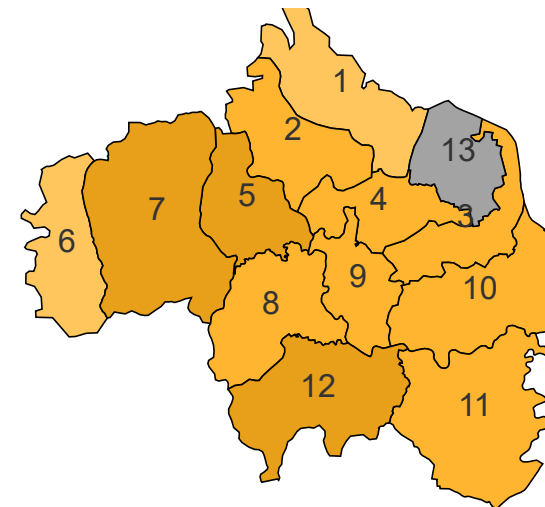
Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	1	1	100%	100%	IRC	4	3	75%	75%
AWARD	6	6	100%	100%	MSF	9	8	78%	78%
BASHMAH	1	0	0%	0%	MoH	12	10	83%	83%
BDRCS	10	10	100%	100%	MHI	1	2	200%	200%
BRAC	11	11	100%	100%	Medair	0	0		
CARE	4	4	100%	100%	FH/MTI	4	4	75%	75%
GH/CPI	1	1	100%	100%	PRANTIC	1	1	100%	100%
DBC	1	1	100%	100%	PULSE	1	1	100%	100%
DSK	1	0	0%	0%	QC	1	1	100%	100%
DCHT-PWJ	1	1	100%	100%	PHD	10	10	100%	100%
FRNDS	5	4	80%	80%	RPN	2	2	100%	100%
GK	10	9	90%	90%	RHU	3	3	100%	100%
Global One	1	1	100%	100%	RI	3	1	33%	33%
GUSS	1	1	100%	100%	RTMI	9	8	89%	89%
HAEFA	2	2	100%	100%	SALT	1	1	100%	100%
HAIB	0	0			SCI	6	6	100%	100%
HMBDF	2	2	100%	100%	DCHT-MM	1	1	100%	100%
HOPE	1	0	0%	0%	Turkish Government	1	1	100%	100%
ICRC	1	1	100%	100%	TdH	2	2	100%	100%
IOM	23	23	96%	96%					

Table 8 | Performance by camp

Northern group	W4		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	1	100%	11	100%
Camp 1W	3	100%	16	100%
Camp 2E	4	100%	31	100%
Camp 2W	3	100%	12	100%
Camp 3	10	100%	29	100%
Camp 4	10	100%	21	100%
Camp 4 Ext	1	100%	3	100%
Camp 5	3	100%	9	100%
Camp 6	3	100%	9	100%
Camp 7	3	100%	9	100%
Camp 8E	5	100%	23	100%
Camp 8W	9	100%	24	100%
Kutupalong RC	0	0%	4	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



of alerts



Table 9 | Performance by camp

Southern group	W4		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	2	100%	7	100%
Camp 11	2	100%	7	100%
Camp 12	5	100%	15	100%
Camp 13	3	100%	19	100%
Camp 14	3	100%	13	100%
Camp 15	5	100%	14	100%
Camp 16	5	100%	14	100%
Camp 17	2	100%	4	100%
Camp 18	8	100%	18	100%
Camp 19	1	100%	3	100%
Camp 20	2	100%	6	100%
Camp 20 Ext	3	100%	3	100%
Camp 9	6	100%	25	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

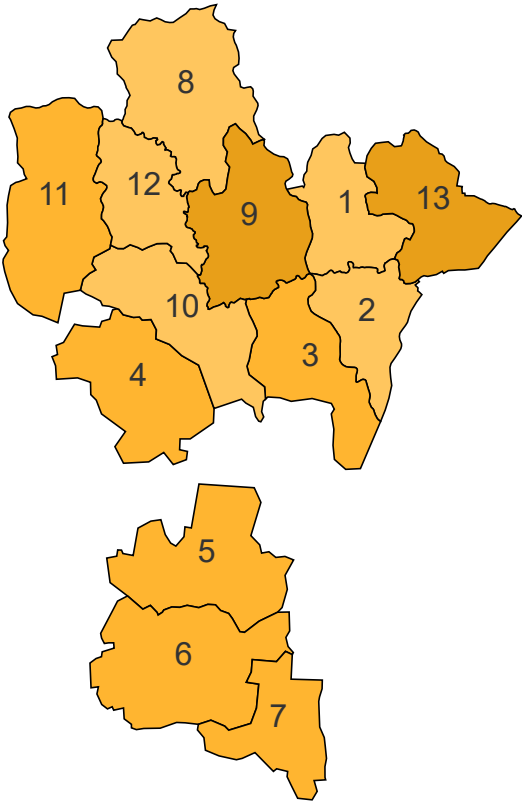


Table 10 | Performance by camp

Teknaf	W4		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	2	100%	3	100%
Camp 22 Unchiprang	2	100%	9	100%
Camp 23 Shamlapur	0	0%	1	100%
Camp 24 Leda	9	100%	26	100%
Camp 25 Ali Khali	1	100%	4	100%
Camp 26 Nayapara	5	100%	7	100%
Camp 27 Jadimura	1	100%	1	100%
Nayapara RC	2	100%	7	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

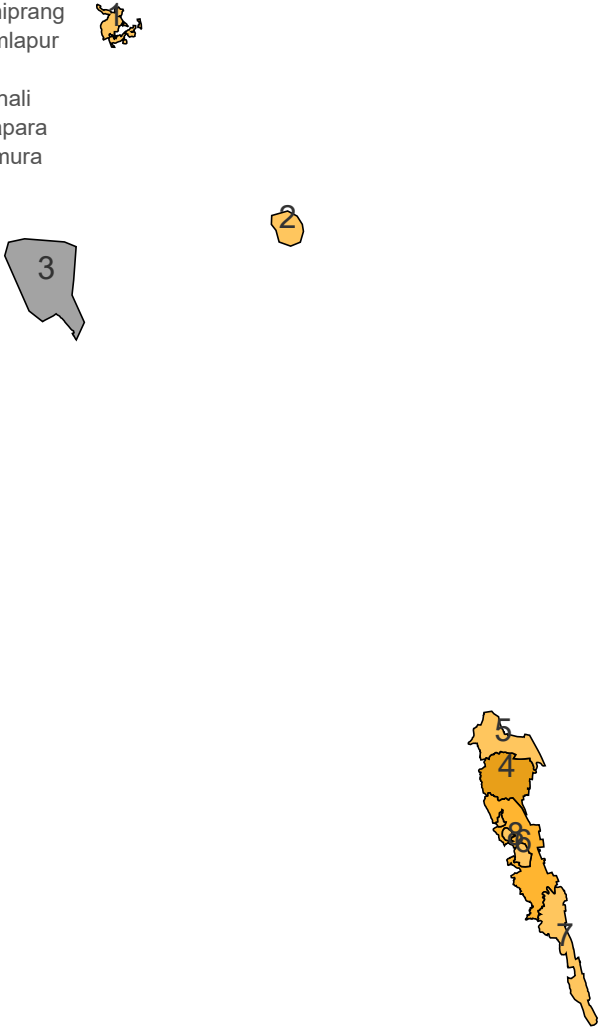


Table 11 | Performance by type of alert

Event	W4		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	12	100%	19	100%
Bloody Diarr.	0	0%	0	0%
AFP	3	100%	5	100%
Meningitis	1	100%	3	100%
Haem. fever (susp.)	1	100%	3	100%
NNT	0	0%	0	0%
Unexp. fever	3	100%	7	100%
AWD	1	100%	8	100%
ARI	4	100%	6	100%
AJS	1	100%	5	100%
Varicella (Susp.)	9	100%	10	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	11	100%	30	100%

Table 12 | Risk assessment

W4	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 W4 2023



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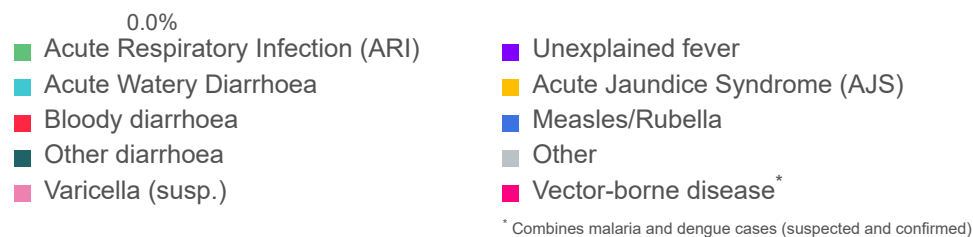
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Proportional morbidity

Figure 1 | Proportional morbidity (W4 2023)



Disease	W4		2023	
	# cases	% morbidity	# cases	% morbidity
AWD	2,550	2.4%	10,328	2.4%
Bloody diarr.	247	0.2%	1,140	0.3%
Other diarr.	1,154	1.1%	5,012	1.1%
Susp. Varicella	503	0.5%	1,264	0.3%
ARI	20,724	19.7%	85,227	19.4%
Measles/Rub.	17	0.0%	52	0.0%
AFP	3	0.0%	6	0.0%
Susp. menin.	5	0.0%	23	0.0%
AJS	19	0.0%	72	0.0%
Susp. HF	1	0.0%	34	0.0%
Neo. tetanus	0	0.0%	0	0.0%
Adult tetanus	0	0.0%	2	0.0%
Malaria (conf.)	2	0.0%	7	0.0%
Malaria (susp.)	48	0.0%	177	0.0%
Dengue (conf.)	75	0.1%	285	0.1%
Dengue (susp.)	23	0.0%	67	0.0%
Unexpl. fever	603	0.6%	3,056	0.7%
Sev. Malnut.	25	0.0%	154	0.0%
Inj./Wounds	2,367	2.2%	9,605	2.2%
Other	76,799	73.0%	322,608	73.4%
Total	104,647	100%	439,441	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W4)

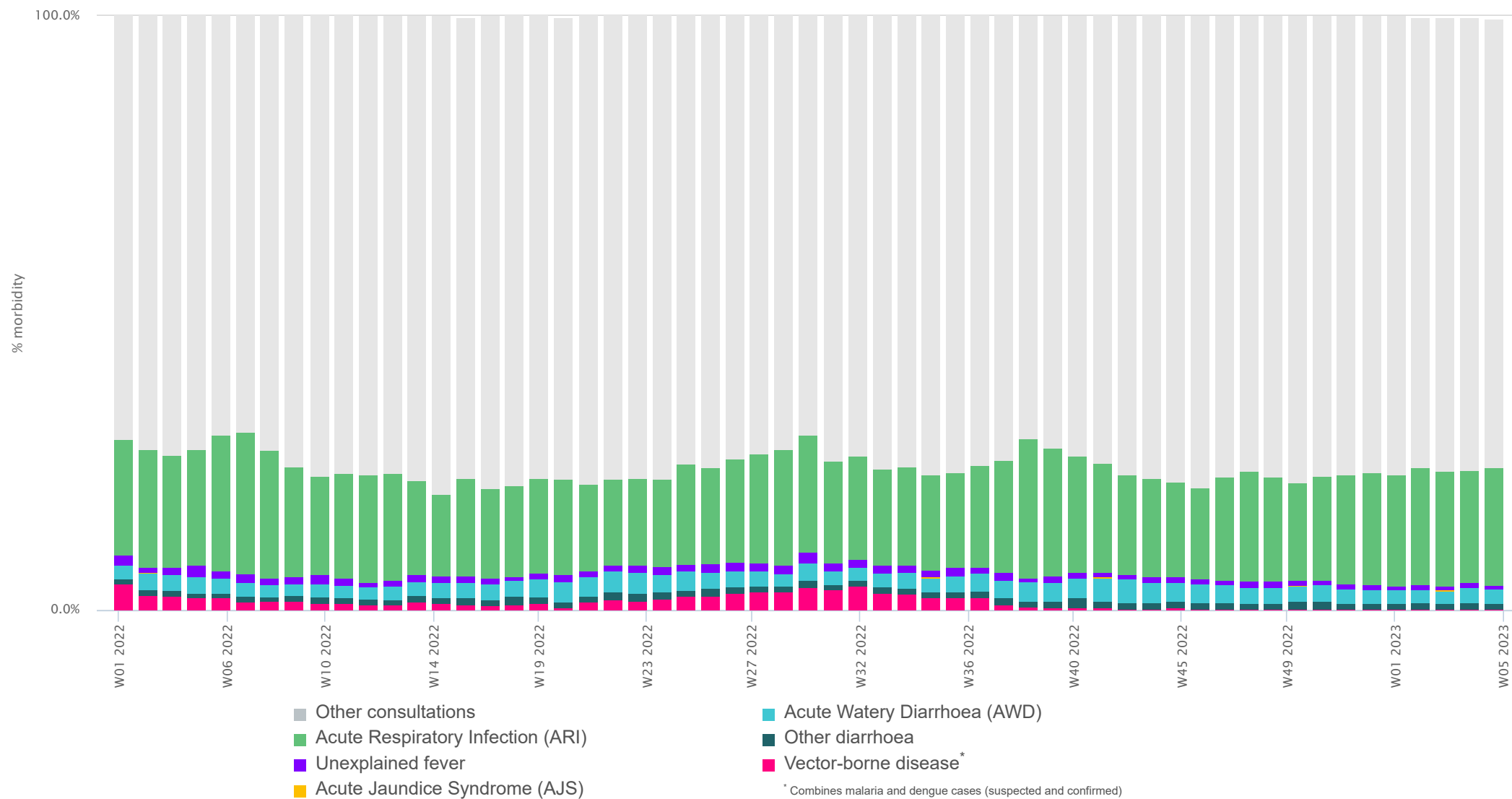
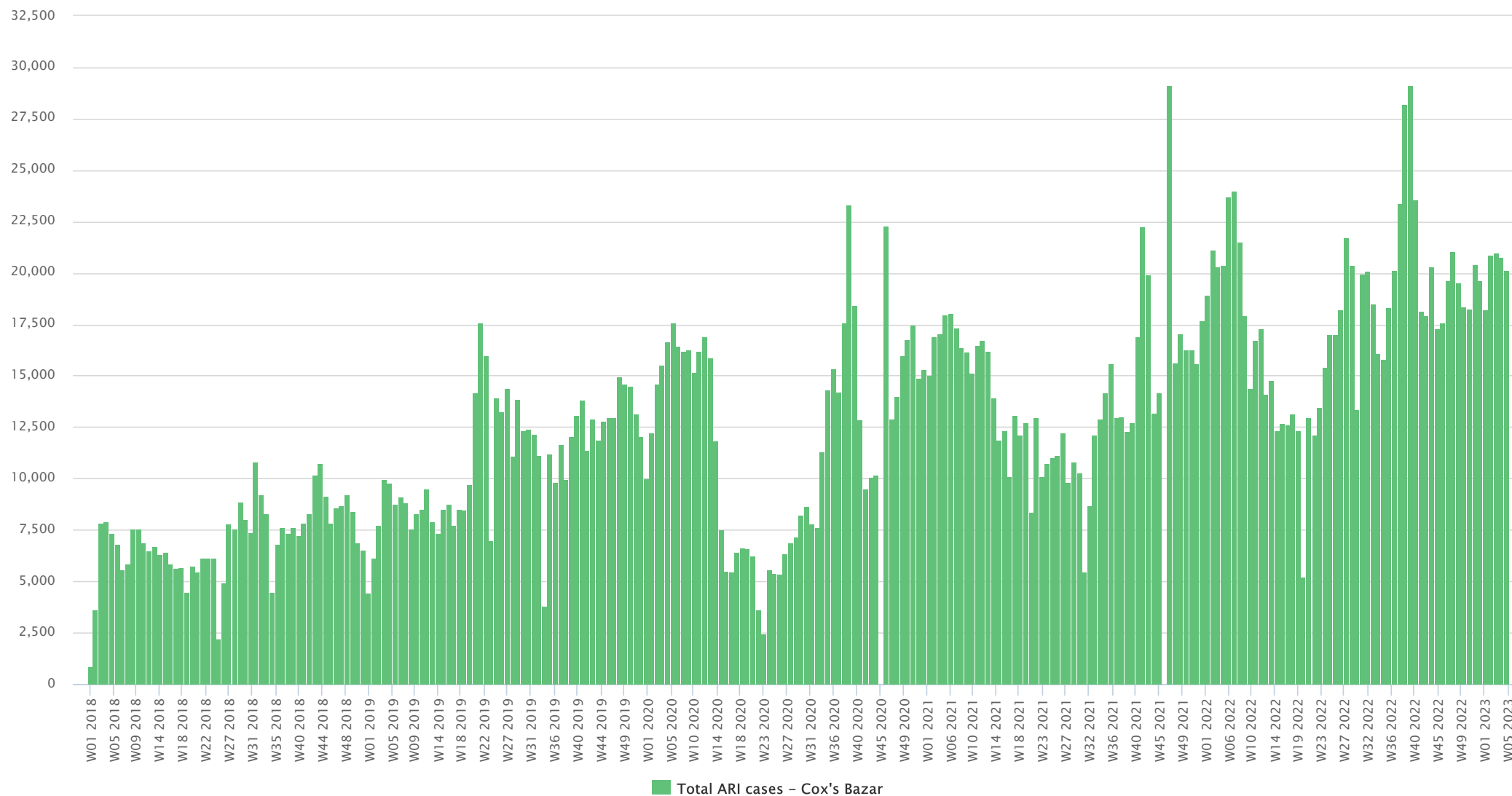
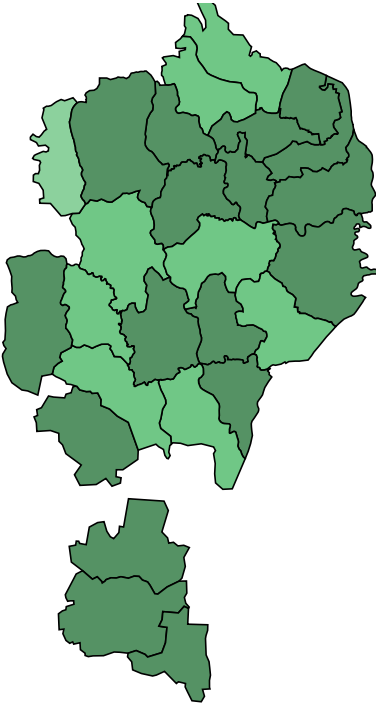


Figure 3 | Trend in number of cases over time (W38 2017 - W4 2023)



Map 1 | Map of cases by camp (W4 2023)

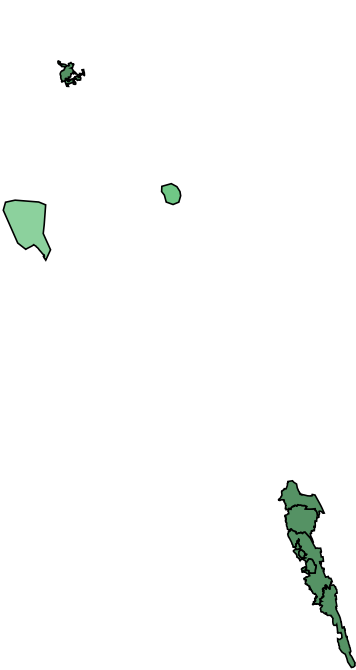
a. Ukhia | Number of cases



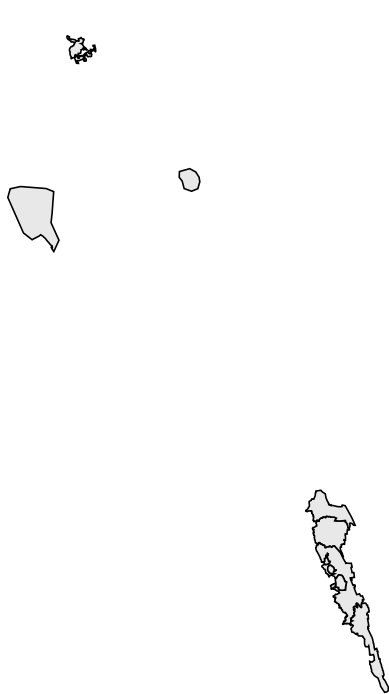
b. Ukhia | Number of alerts



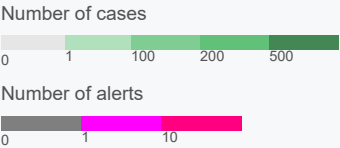
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W4 2023)

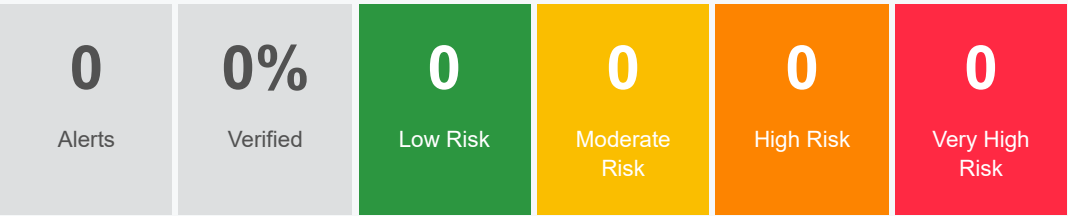


Figure | % sex

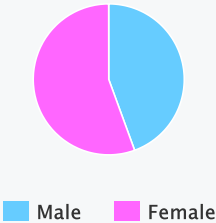


Figure | % age

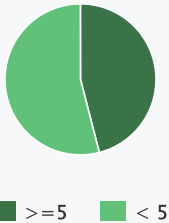
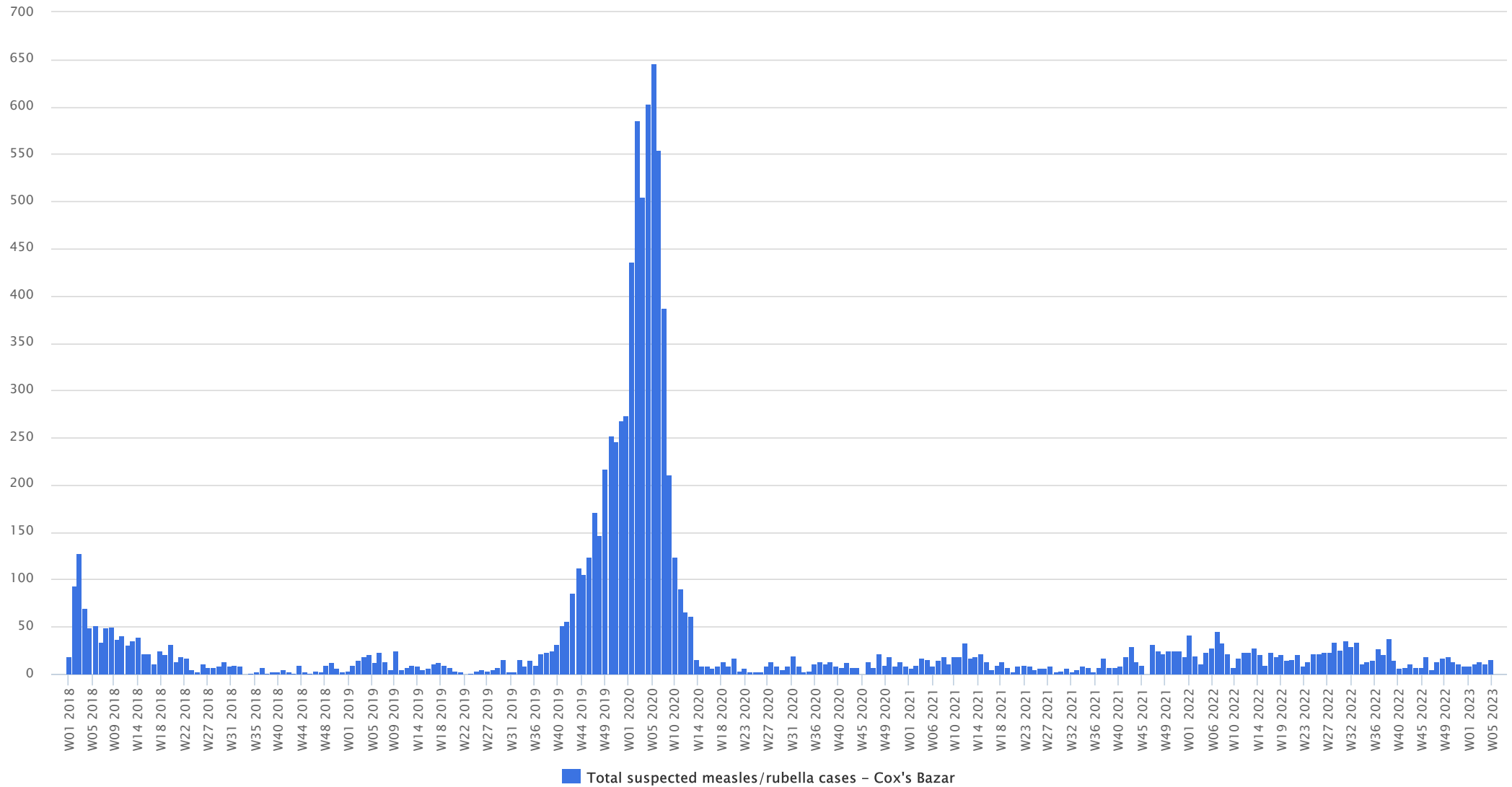
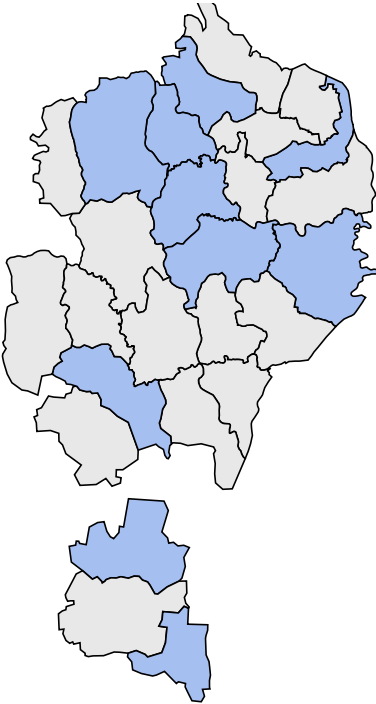


Figure 4 | Trend in number of suspected cases over time (W38 2017 - W4 2023)

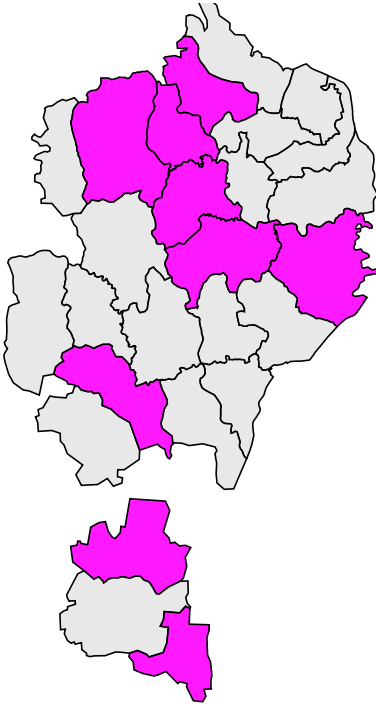


Map 2 | Map of cases by camp (W4 2023)

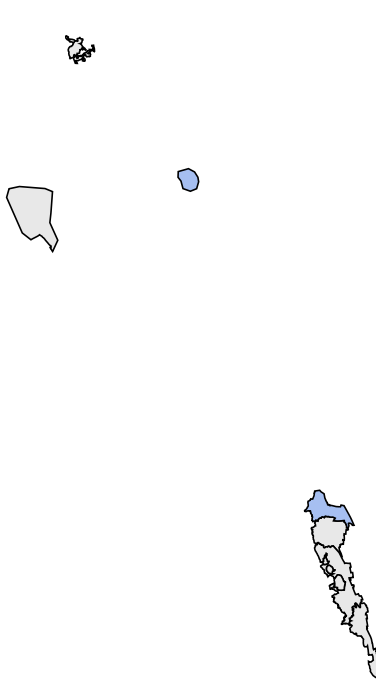
a. Ukhia | Number of cases



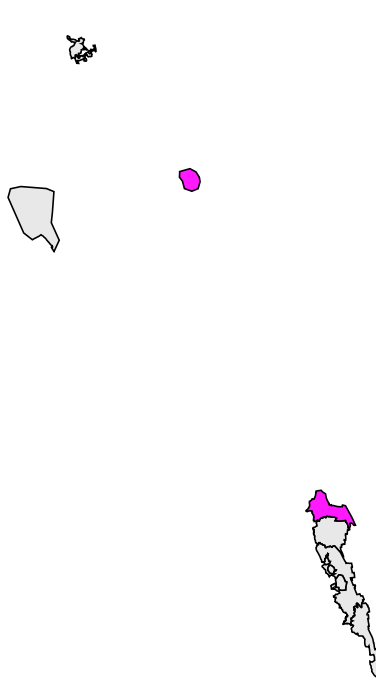
b. Ukhia | Number of alerts



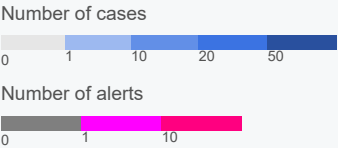
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W4 2023)

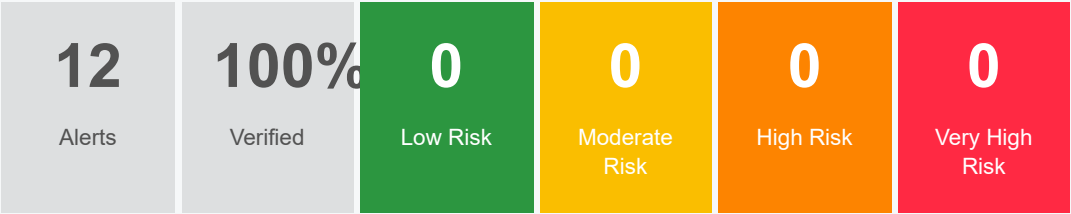


Figure | % sex

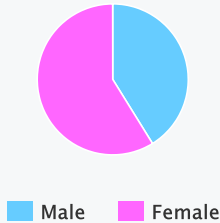


Figure | % age

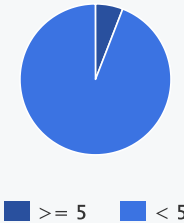
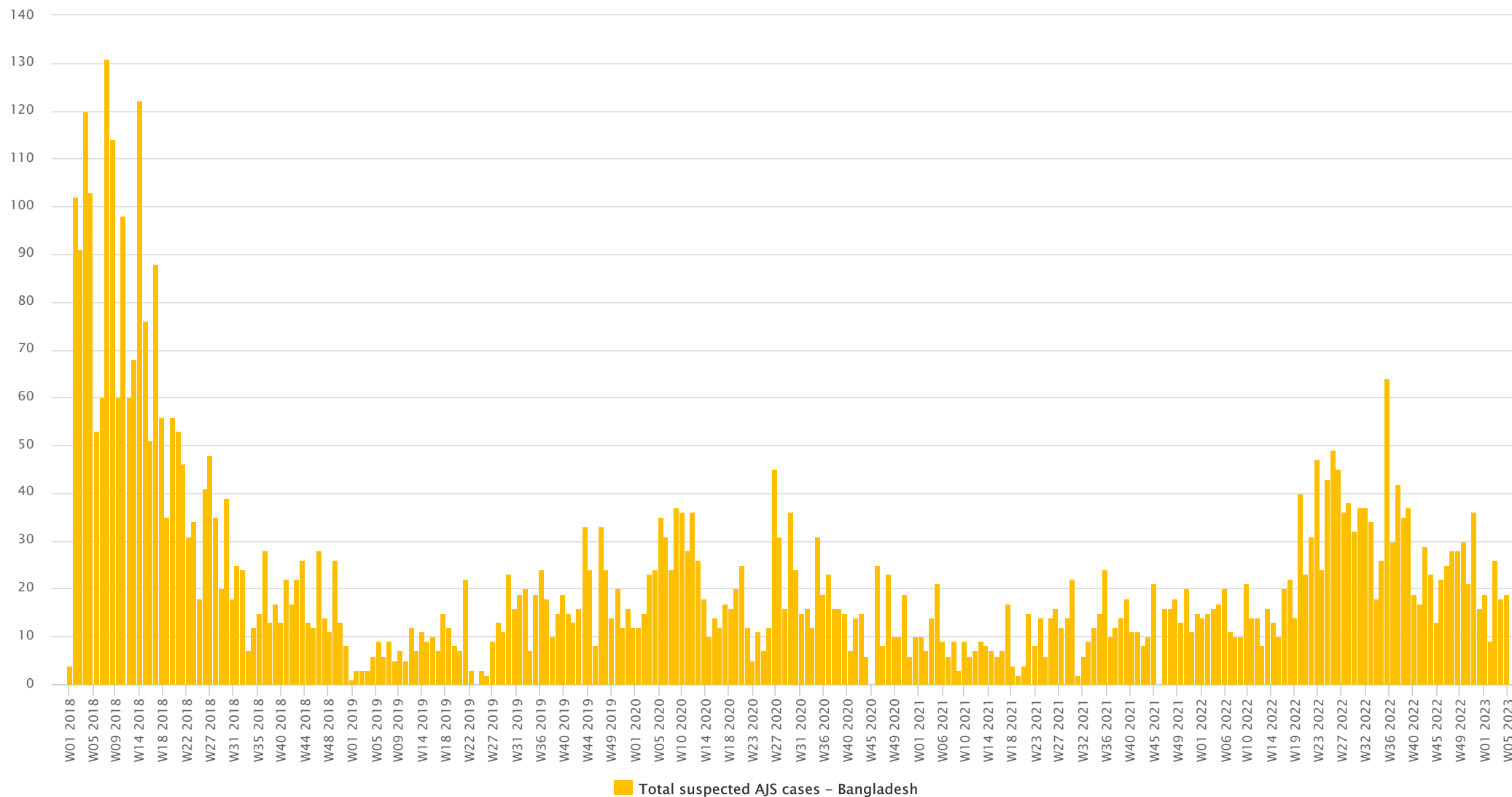
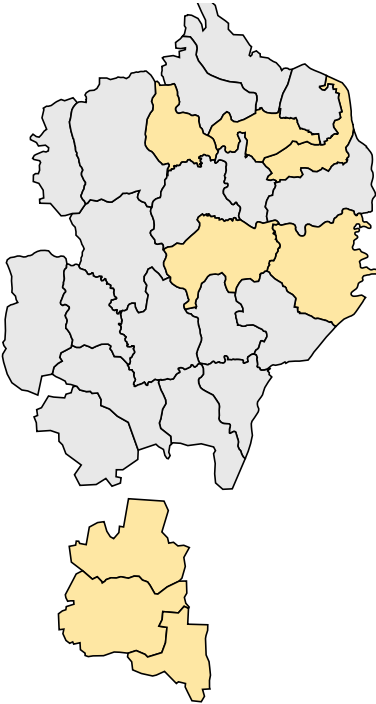


Figure 5 | Trend in number of cases over time (W38 2017 - W4 2023)



Map 3 | Map of cases by camp (W37 2017 - W4 2023)

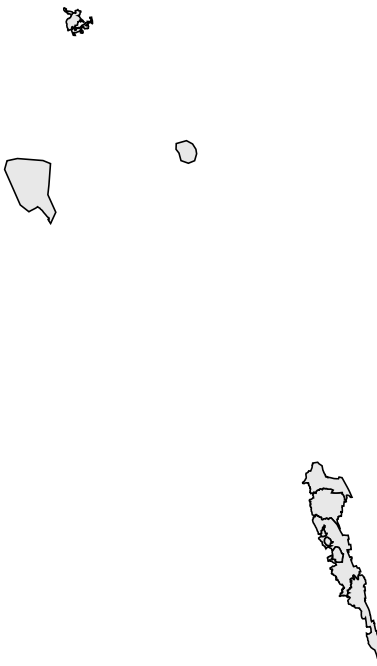
a. Ukhia | Number of cases



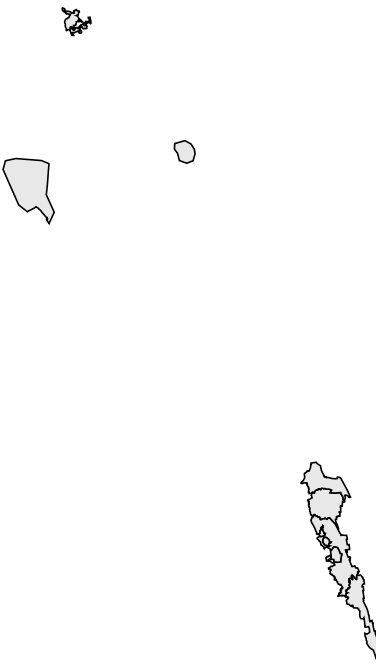
b. Ukhia | Number of alerts



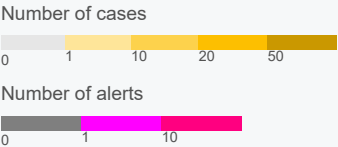
c. Teknaf | Number of cases



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 (W4 2023)

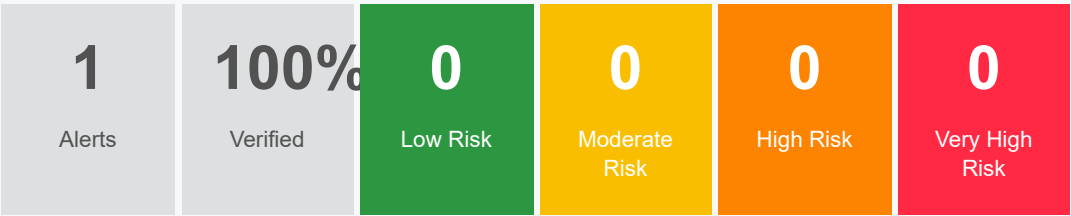


Figure | % sex

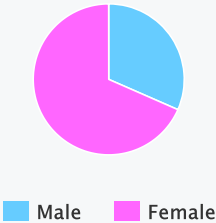


Figure | % age

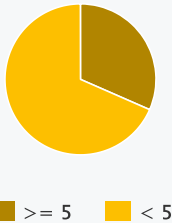


Figure 6 | Trend in number of cases over time (W38 2017 - W4 2023)

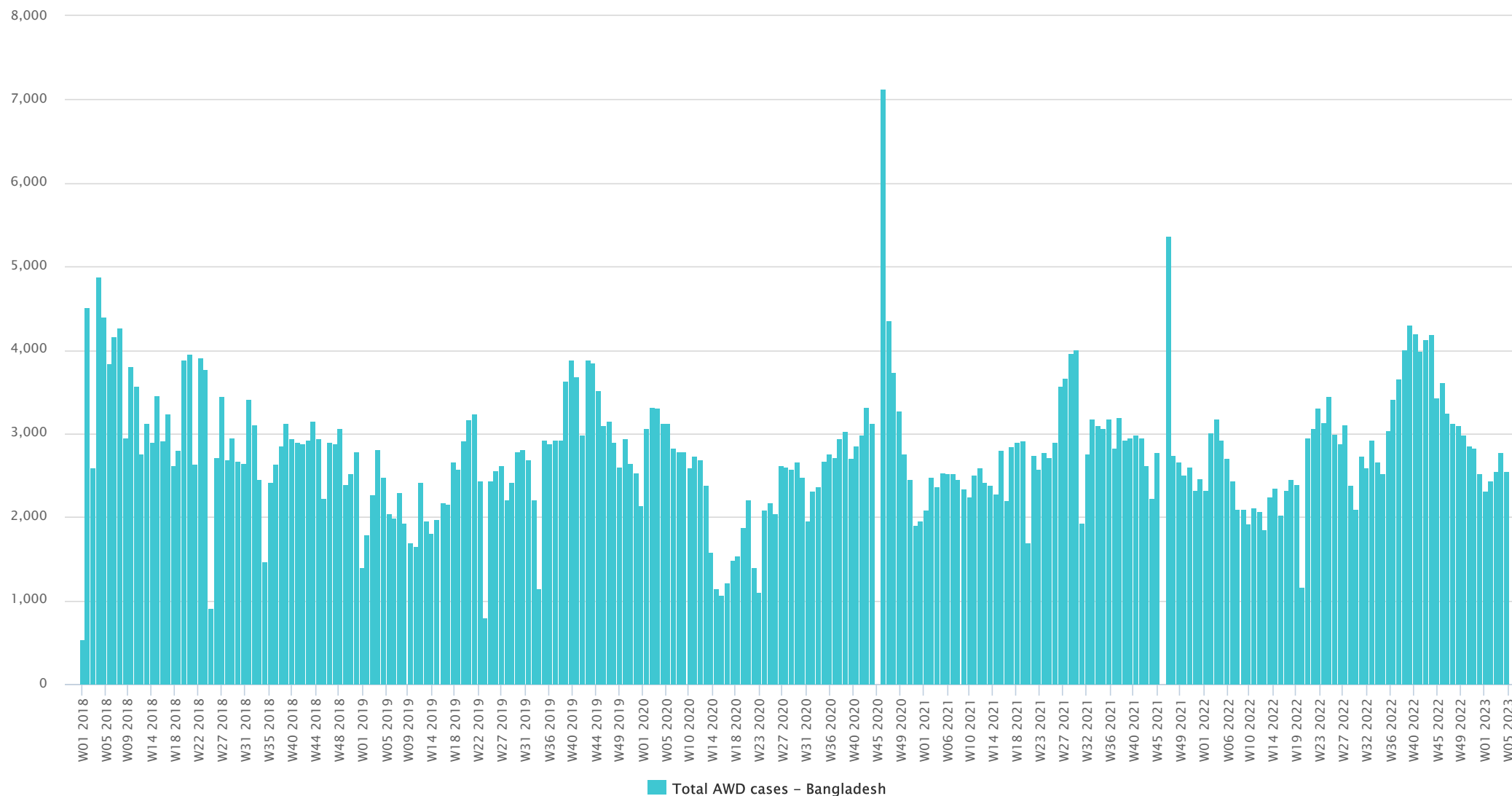
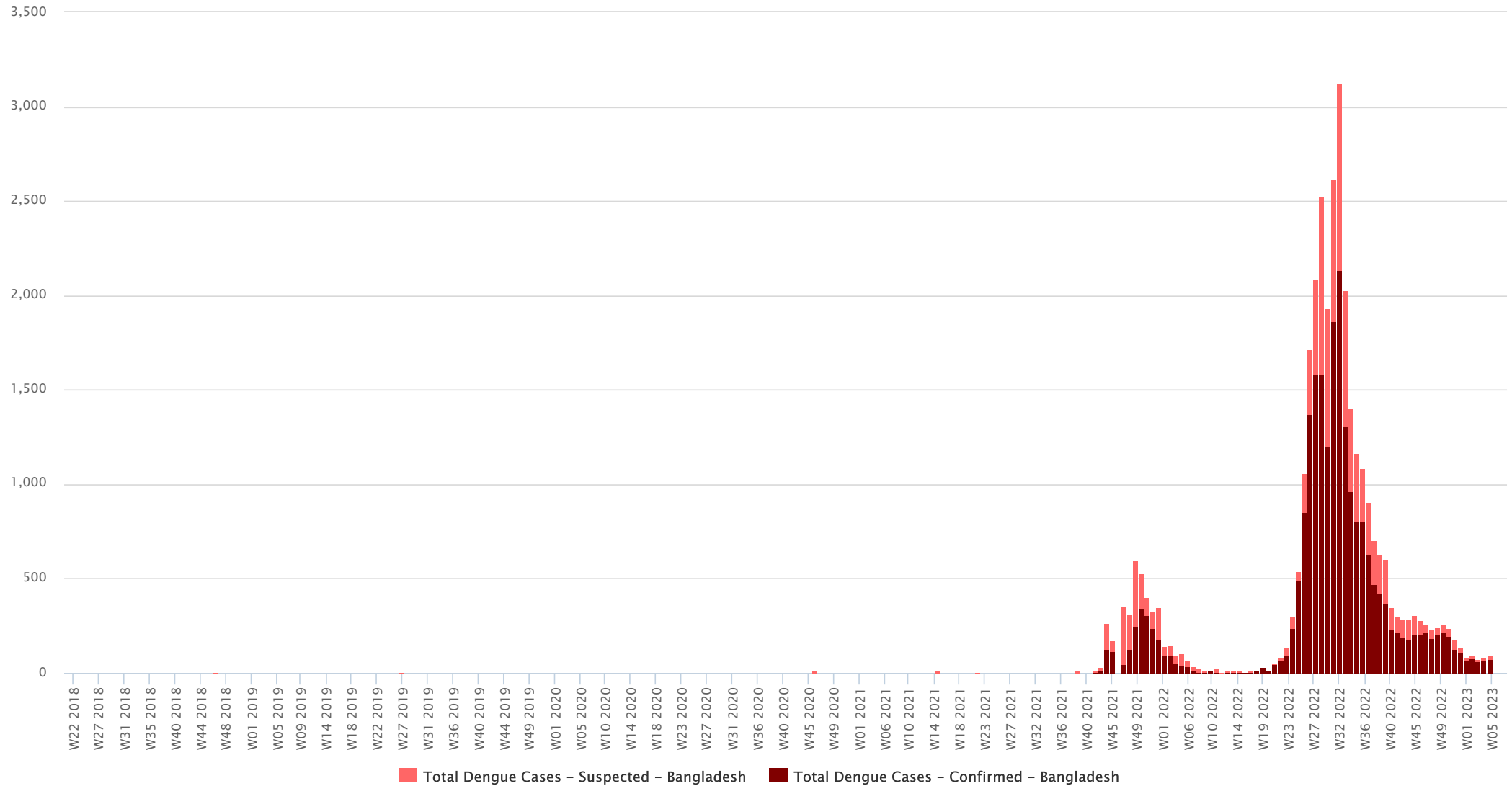
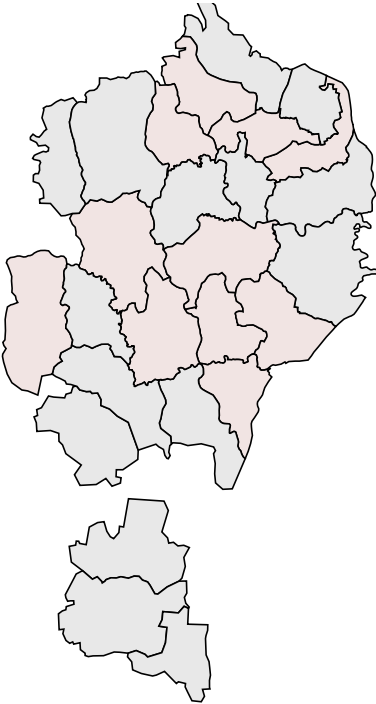


Figure 7 | Trend in number of cases over time (W38 2017 - W4 2023)

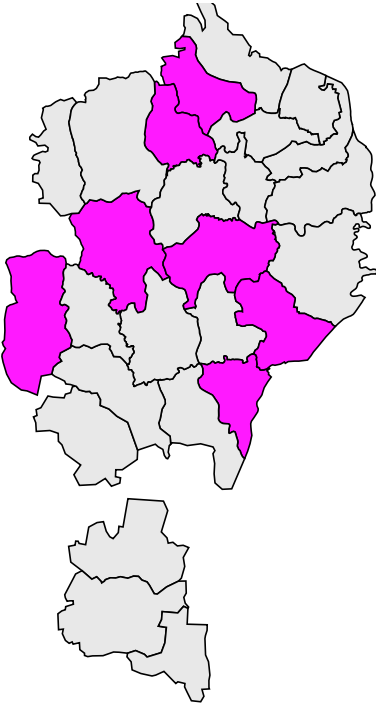


Map 4 | Map of cases by camp (W37 2017 - W4 2023)

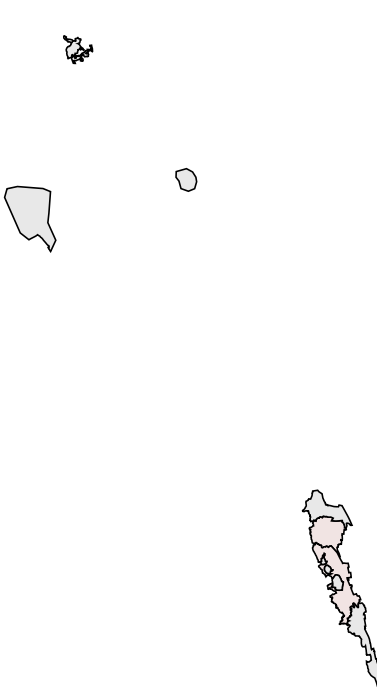
a. Ukhia | Number of cases



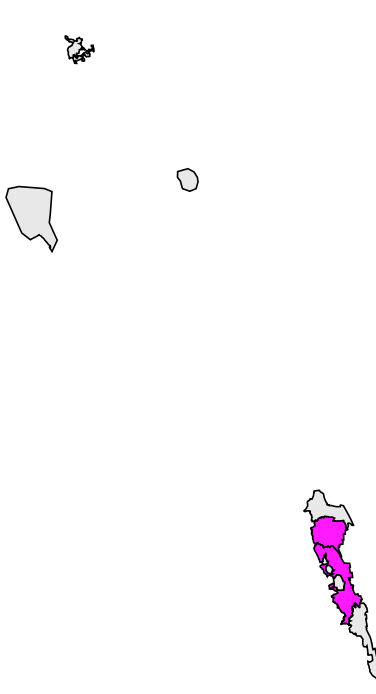
b. Ukhia | Number of alerts



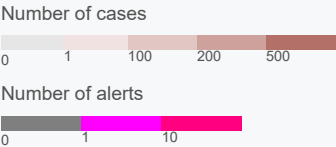
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W4 2023)

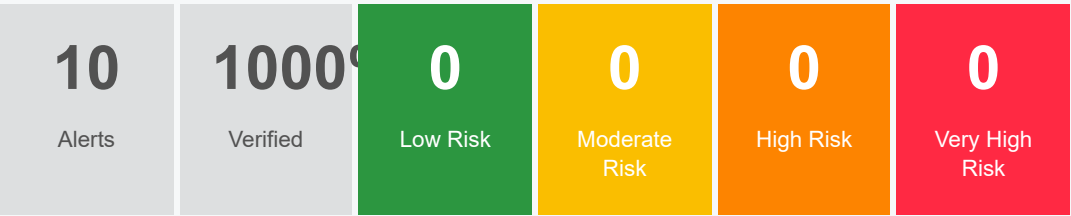


Figure | % sex

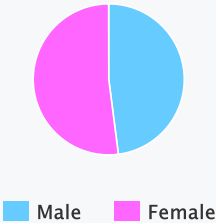


Figure | % age

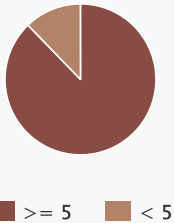
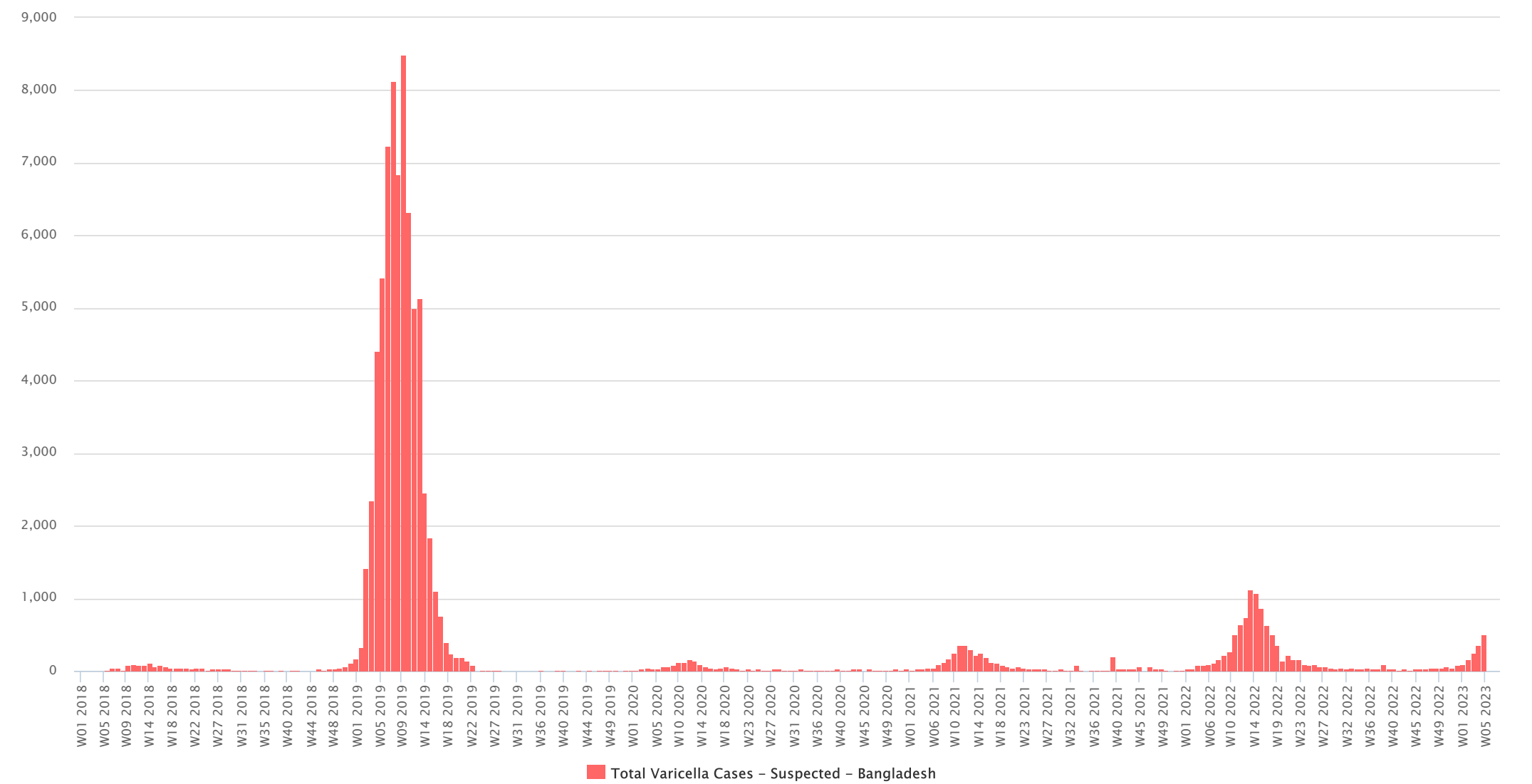
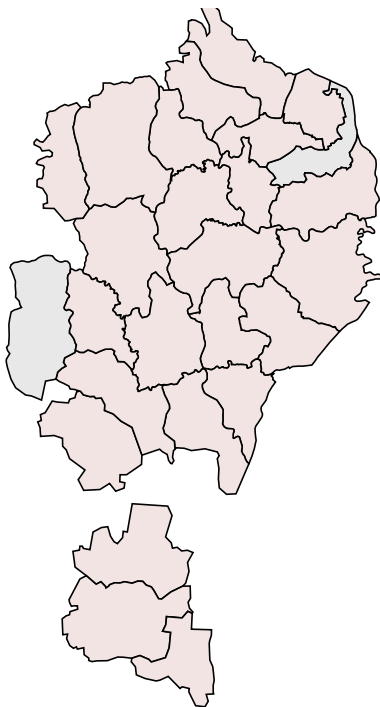


Figure 7 | Trend in number of cases over time (W38 2017 - W4 2023)

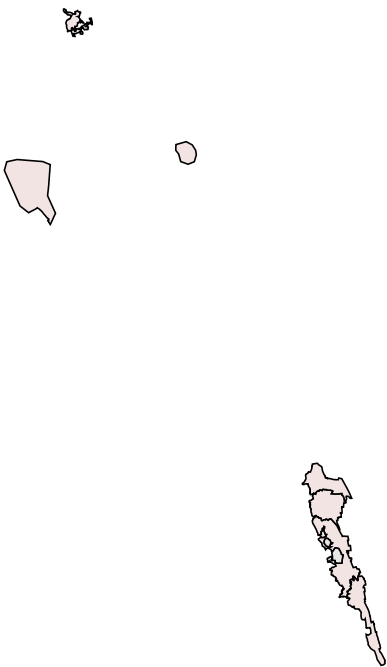


Map 4 | Map of cases by camp (W37 2017 - W4 2023)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

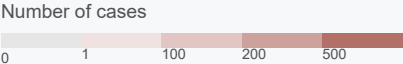


Figure | % sex

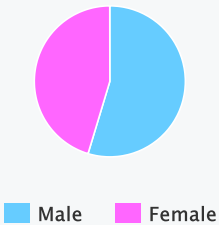
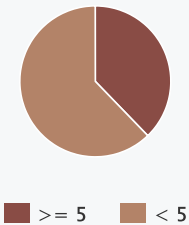


Figure | % age



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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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