



Epidemiological Highlights

Week 43 (16-22 October) 2022



World Health
Organization

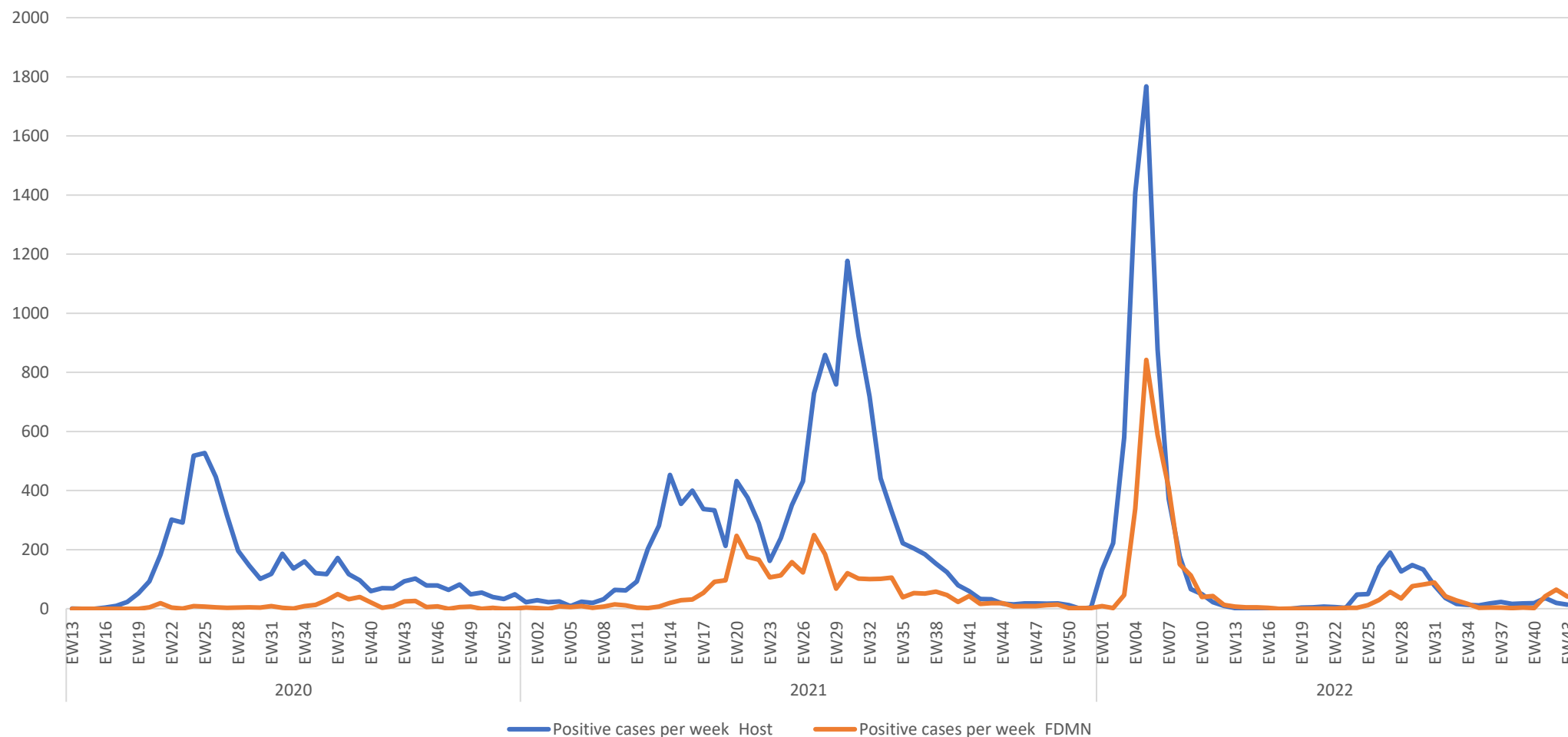
Highlights: COVID-19

COVID-19 (High Priority)

- It's sustaining the number of COVID-19 cases for the 3rd week; in epi week 43, 41 cases were reported from 56 in the previous week among FDMN
- **Level of infection hence raised among FDMN:** decreased in weekly TPR (8.8 from 12.7) & incidence of infection (47.7 cases/1m persons/Week from 75.6) but weekly testing (0.5 tests/1000/week) declined slightly
- **Level of infection among the host population declined this week again:** weekly TPR (5.3 from 6.5) and case incidence (5.0 from 7.1 cases/1m persons/Week) declined either this week than the previous week and testing levels continue to sustained at very low level (0.1)
- **Weekly testing remains below the global threshold of 1 test/1000 pop/Week in both populations:** FDMNs - 0.5 tests/1000 pop/week & host Population - 0.1 test/1000pop/Week)
- One new death was reported in the FDMN population bringing the total number to 44 with a CFR of 0.7%, improved level of recovery at 99%

Highlights: COVID-19

Epi curve of COVID-19 confirmed cases by RT-PCR by week, 2022 W13- 2022 W43



FDMN: Forty-one (41) new confirmed cases were reported this week, and weekly TPR **declined** to **8.8%** from **12.7%** the previous week
Host population: Fourteen (14) new confirmed cases were reported this week and weekly TPR declined **5.3%** from **6.5%** the previous week

EWARS Reporting Updates

- Currently, a total of 169 health facilities are registered in EWARS
 - Only 154/169 weekly reports were received on time in week 43
 - Timeliness of reporting for this week was 86%
 - One hundred eleven (111) alerts were triggered
 - All alerts were reviewed and verified by the WHO EWARS team; this was more than the previous week (100 alerts in week 42, 2022).

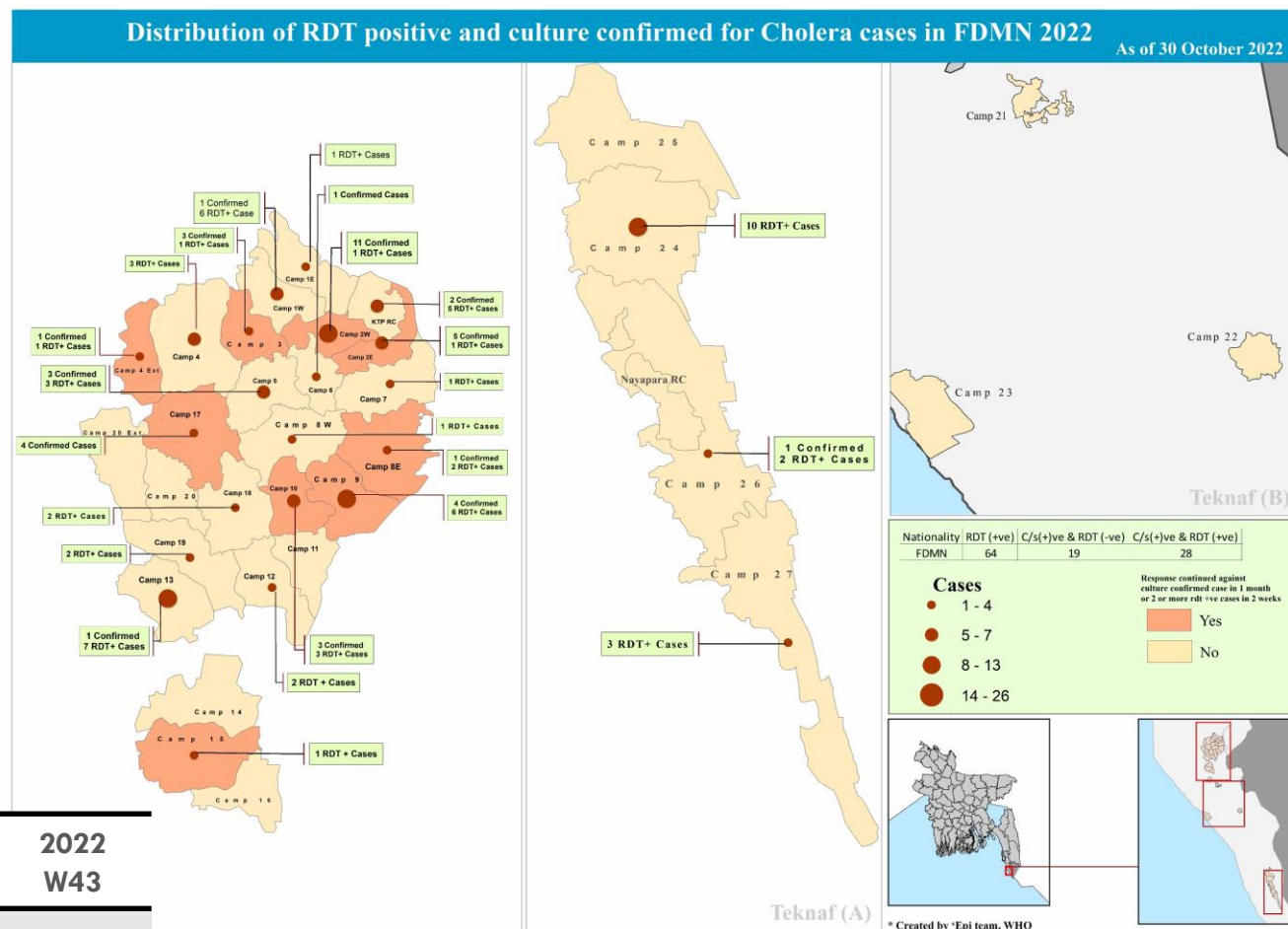
Highlights: Morbidities and Mortalities

- Acute Respiratory Infections (17.5%), Diarrheal Diseases (4.7%) & Injuries, and Wounds (2.1%) were the diseases and health conditions with the highest proportional morbidity in week 43.
- Monitoring of suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020. A total of 124 SARI deaths have so far been reported in 2022 of which seven (07) deaths upon an investigation of all SARI deaths were reclassified as probable COVID-19 Deaths
- This Epi week, four (4) new SARI death was reported as highlighted below:

Year	Suspected SARI death reported	Reclassified as death due to probable COVID-19
2022	124 (4)	7
2021	96	15
2020	49	2

Cholera/AWD Surveillance Updates

- In this week, there is one (1) new RDT-positive case was reported, among samples sent for testing.
- In 2022 total of one hundred forty-eight (156) RDT-confirmed cholera cases were reported as of W43 2022. Of these 58 were positive for culture, and 98 were negative for culture.
- Cumulatively there are 848 RDT and culture-confirmed cholera cases of which 390 cases were culture-confirmed since transmission in 2018



	2018	2019	2020	2021	2022 W43
RDT positive/culture confirmed for Cholera	49	258	28	357	156
Culture confirmed for Cholera	7	184	5	136	58

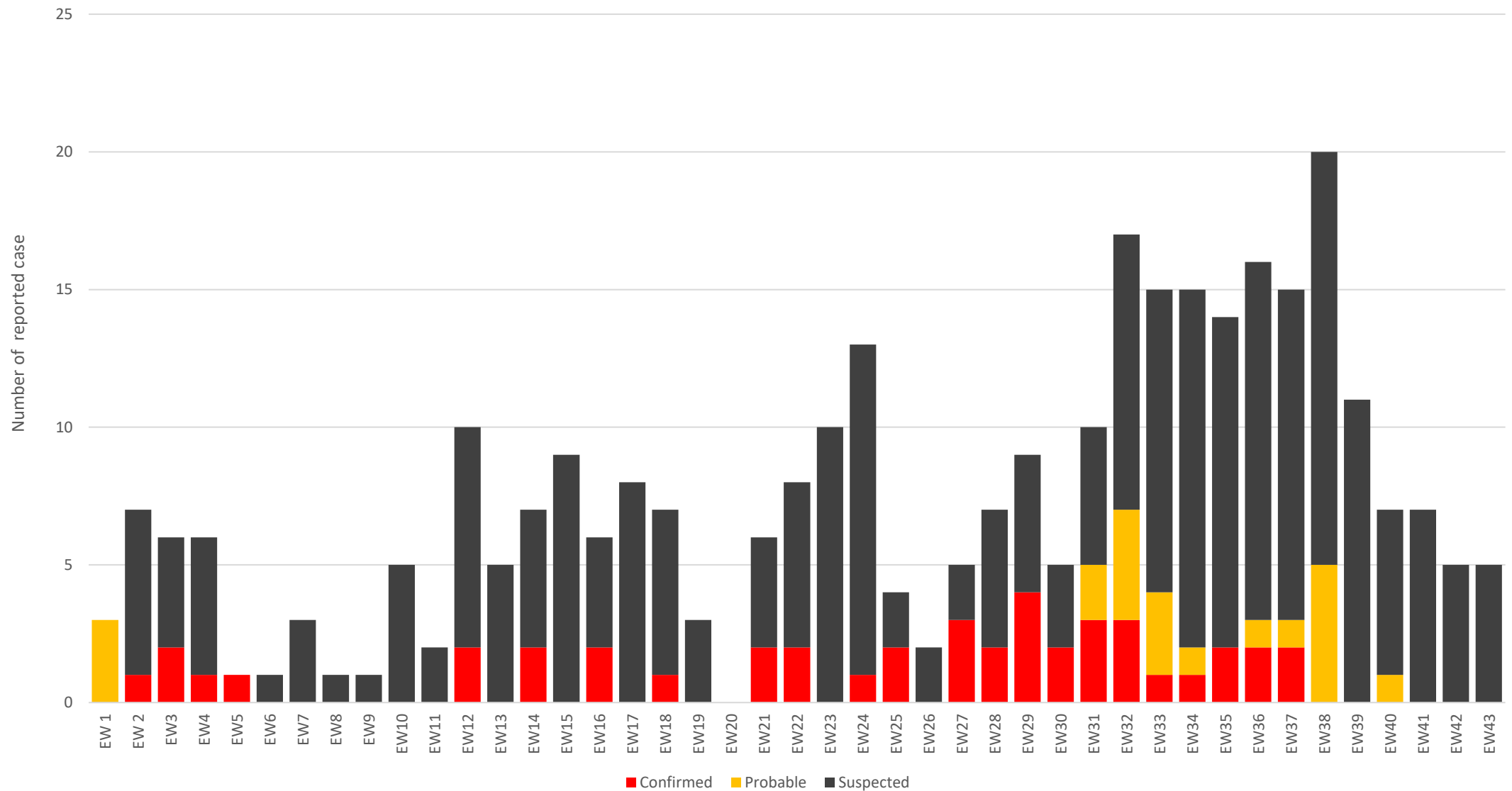
Diphtheria Surveillance Updates

- Five (5) suspected diphtheria cases were reported in go.data in this Epi week 43
- The last confirmed case was reported on 14 September 2022
- In total 53 deaths have so far been reported since 2017, with the last death reported on 25 April 2022

Classification	2017	2018	2019	2020	2021	2022
Confirmed	66	226	31	19	30	46
Probable	1154	1555	60	9	29	21
Suspected	1796	3549	523	198	118	252
Death	30	14	3	0	5	1

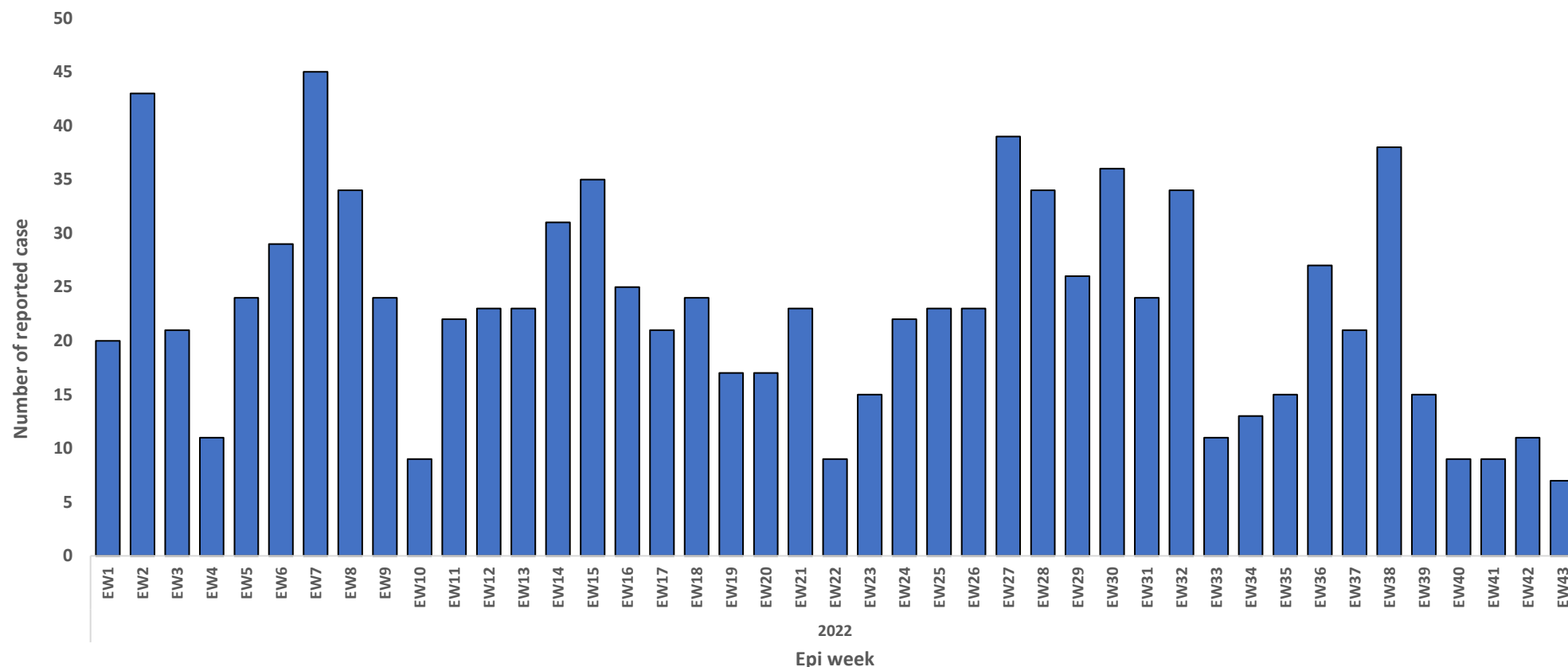
Trends of Diphtheria cases

Total number of diphtheria case reported in EWARS from week 1-43, 2022



Epi Curve of Suspected Measles Cases

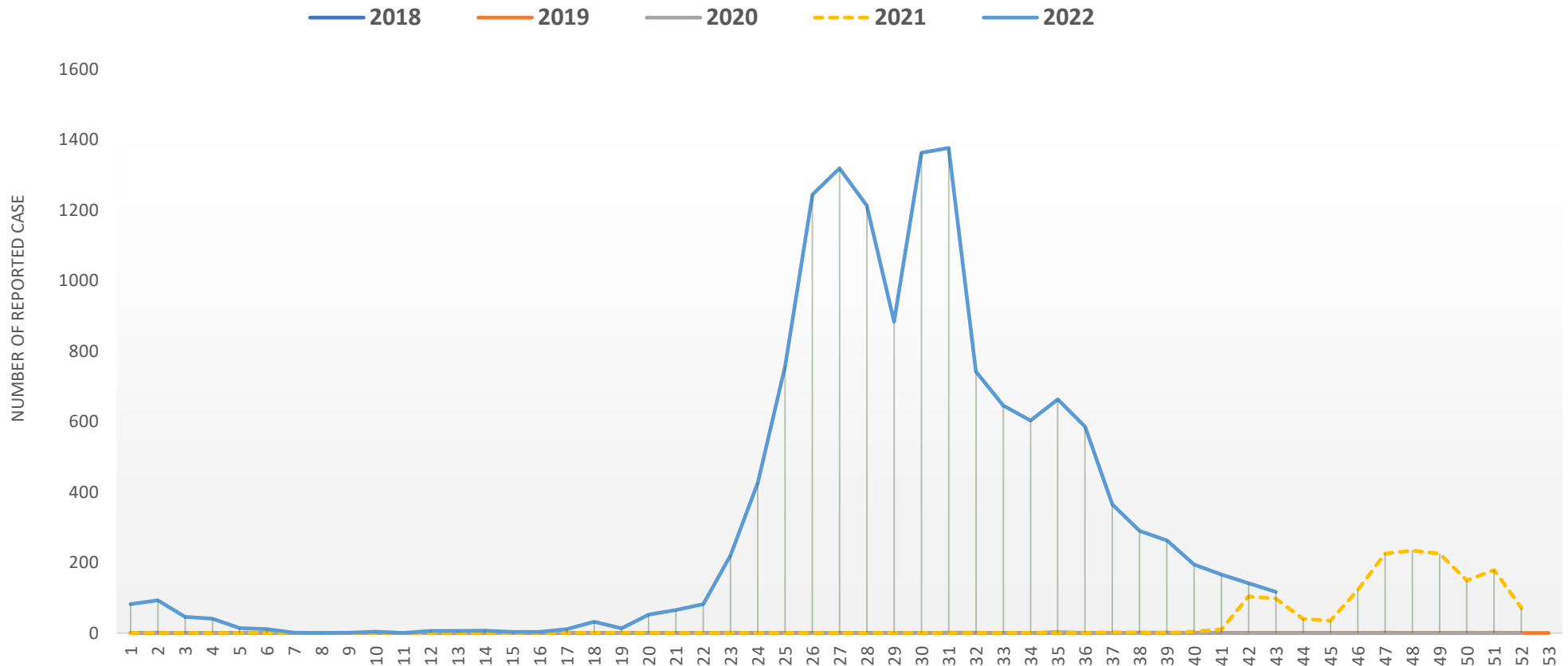
Total number of Measles case reported in EWARS from week 1-43, 2022



- > In week 43, 7 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 982 reported in 2022
- > About 55% (543/982) of the total suspected measles cases were reported through case-based reporting and samples collected for laboratory confirmation

Dengue Surveillance Updates

Yearly Trends of Dengue case trend from 2018 - Epi Week 43, 2022



- > In week 43, 117 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 14,155 reported in 2022
- > No mortality was reported this week and it stands 19 in 2022

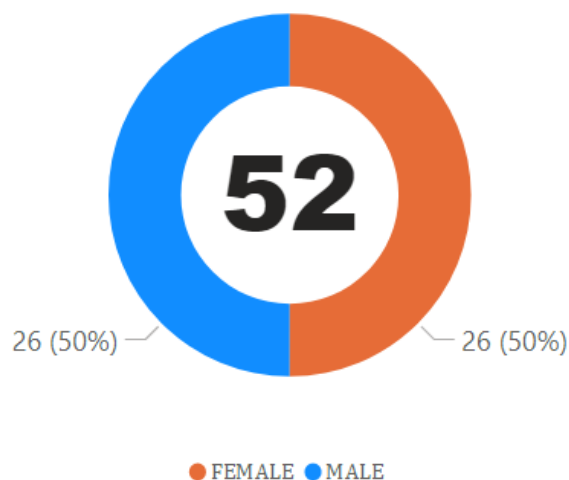
Community-based Mortality surveillance updates Epi week 43

Probable causes of death	Epi week 43	In 2022
Still Birth	4 (8%)	181 (11%)
Neonatal Death (<28 days old)	12 (23%)	185 (11%)
Infectious Disease	3 (6%)	161 (9%)
Severe Acute Respiratory Infection (SARI)	3 (6%)	47 (6%)
Injury	1 (2%)	42 (2%)
Maternal Death	1 (2%)	36 (2%)
Acute Malnutrition	--	1 (0%)
Other	28 (54%)	1,100 (63%)
Total	52 (100%)	1,753 (100%)

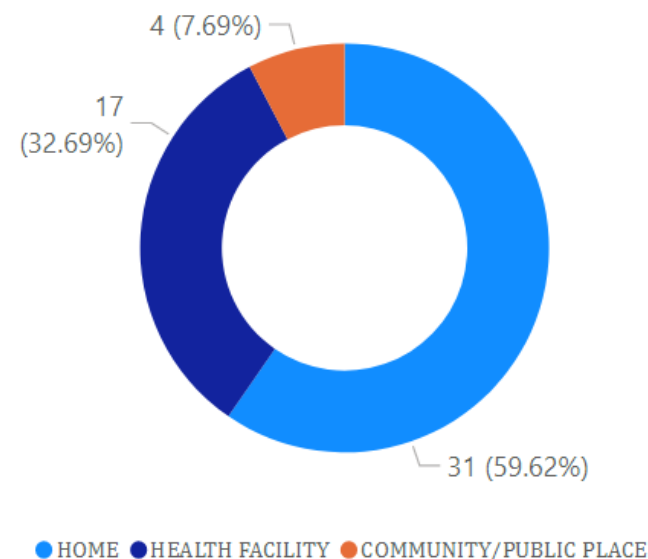
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable

Community-based Mortality surveillance updates Epi week 43

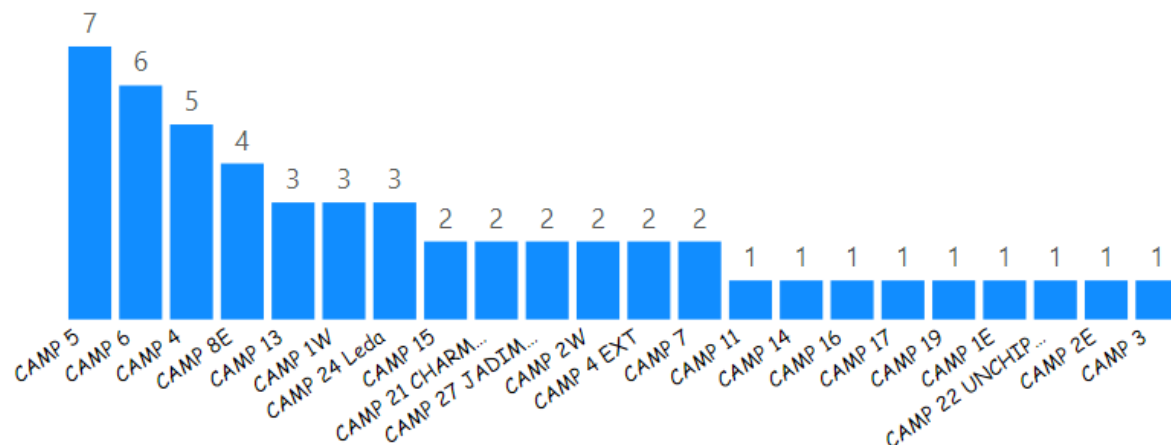
Gender distribution



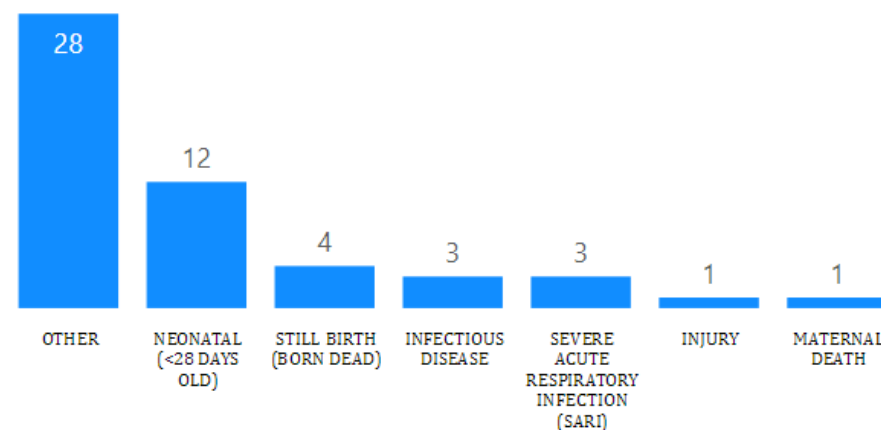
Place of death



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W43 2022



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



HEALTH SECTOR
COX'S BAZAR



Printed: 05:20 Wednesday, 02 November 2022 UTC

Contents

Highlights

Slide 1	Table 1 Coverage
	Table 2 Early warning performance
	Table 3 Alert performance

Early Warning

Slide 2	Map 1a Ukhia completeness by site/zone
	Map 1b Teknaf completeness by site/zone
Slide 3	Table 4 Ukhia (Northern group) performance by site/zone
	Map 2 Ukhia (Northern group) completeness by site/zone
Slide 4	Table 5 Ukhia (Southern group) performance by site/zone
	Map 3 Ukhia (Southern group) completeness by site/zone
Slide 5	Table 6 Teknaf performance by site/zone
	Map 4 Teknaf completeness by site/zone
Slide 6	Table 7 Performance by partner

Alert

Slide 7	Table 8 Ukhia (Northern group) alerts by site/zone
	Map 5 Ukhia (Northern group) alerts site/zone
Slide 8	Table 9 Ukhia (Southern group) alerts by site/zone
	Map 6 Ukhia (Southern group) alerts site/zone
Slide 9	Table 10 Teknaf alerts by site/zone
	Map 7 Teknaf alerts site/zone
Slide 10	Table 11 Performance by type of alert
	Table 12 Risk Assessment

Sources of data

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

Highlights W43 2022

Table 1 | Coverage

#	%	
918,841	-	Estimated total Rohingya population ¹
902,066	98%	Total population under surveillance
175	-	Total number of health facilities
169	97%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

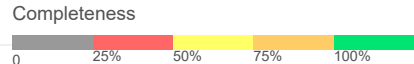
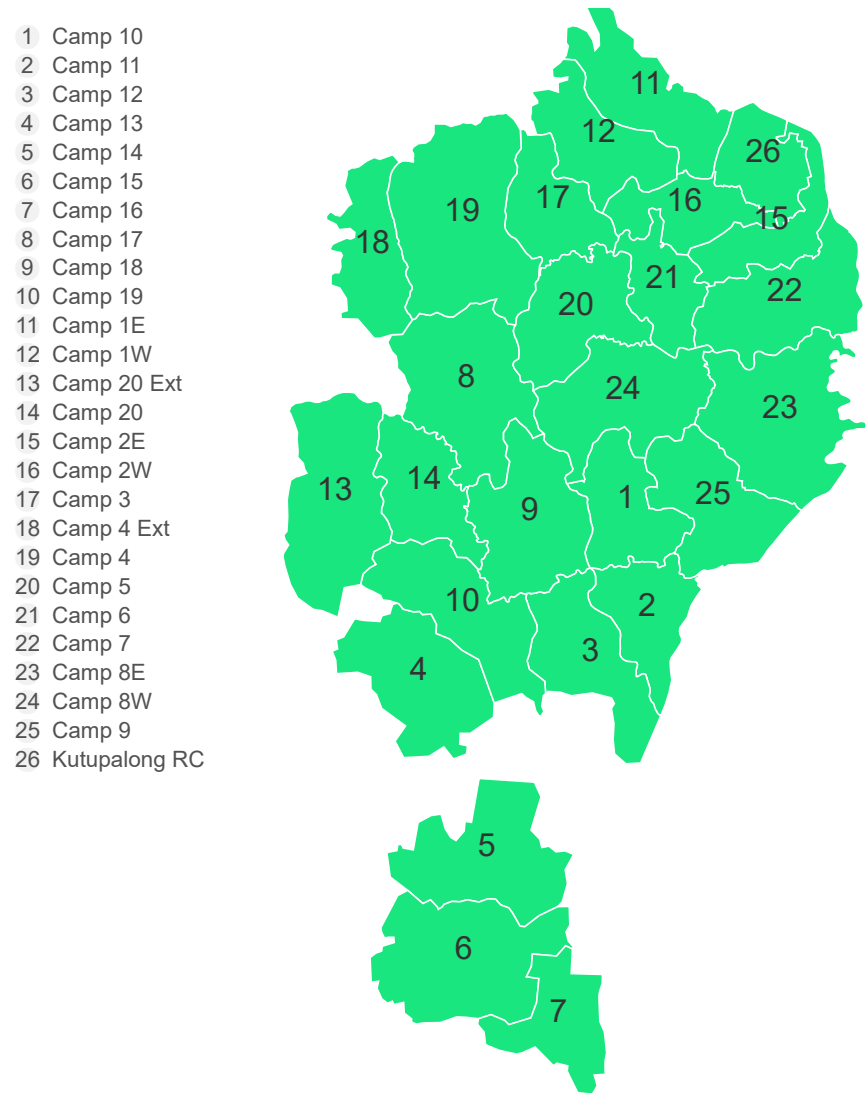
W43	Cumulative (2022)	
154	7003	Number of weekly reports received
86%	92%	Completeness
86%	91%	Timeliness

Table 3 Alert performance indicators

W43	Cumulative (2022)	
111	4,040	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

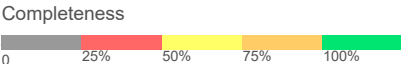
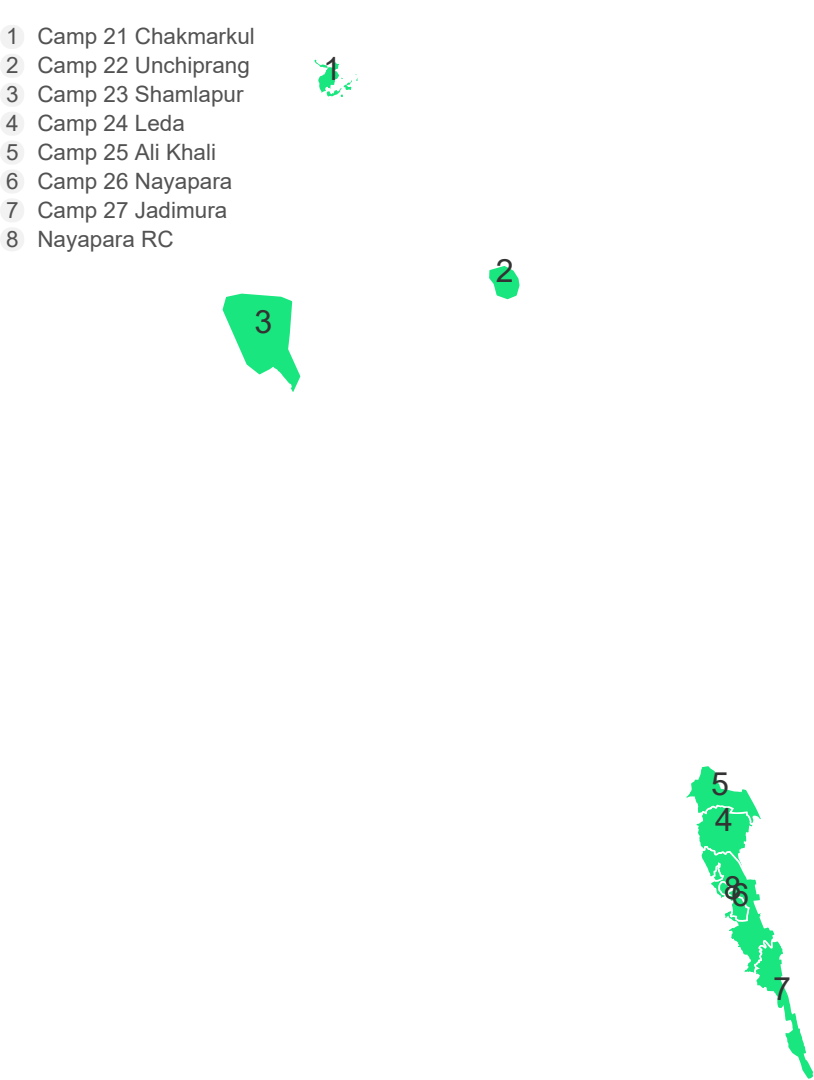
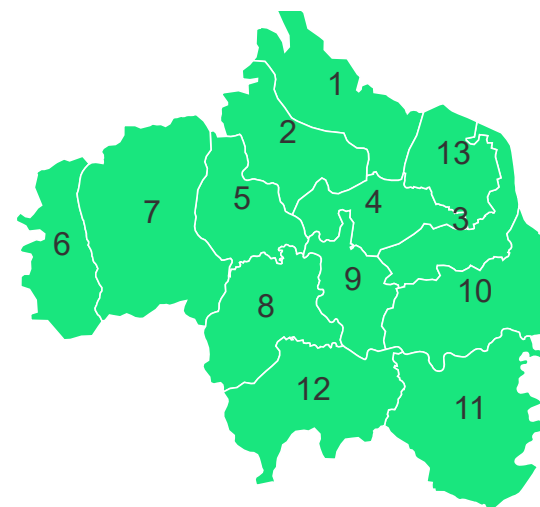


Table 4 | Performance by camp (W43 2022)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	3	3	100%	0%
Camp 1W	5	4	60%	0%
Camp 2E	3	3	100%	0%
Camp 2W	3	4	100%	0%
Camp 3	5	5	80%	0%
Camp 4	5	5	100%	0%
Camp 4 Ext	1	1	100%	0%
Camp 5	5	5	100%	0%
Camp 6	3	3	100%	0%
Camp 7	6	3	50%	0%
Camp 8E	8	6	63%	0%
Camp 8W	4	4	100%	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



Completeness



Table 5 | Performance by camp (W43 2022)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	0%
Camp 11	8	6	75%	0%
Camp 12	6	5	100%	0%
Camp 13	10	8	90%	0%
Camp 14	7	6	86%	0%
Camp 15	9	8	89%	11%
Camp 16	7	6	100%	0%
Camp 17	5	5	100%	0%
Camp 18	5	4	80%	0%
Camp 19	5	4	80%	0%
Camp 20	4	3	75%	0%
Camp 20 Ext	3	3	100%	0%
Camp 9	6	6	100%	0%

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

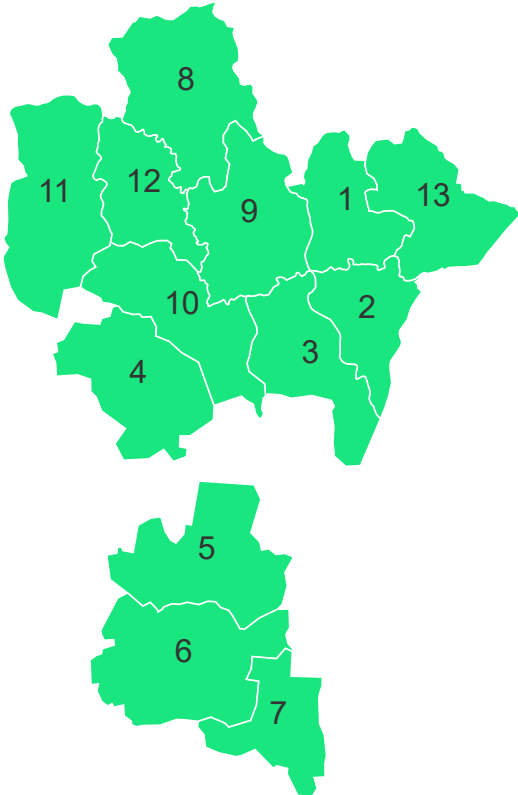


Table 6 | Performance by camp (W43 2022)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	4	4	100%	0%
Camp 22 Unchiprang	5	3	60%	0%
Camp 23 Shamlapur	3	2	67%	0%
Camp 24 Leda	2	2	100%	0%
Camp 25 Ali Khali	3	3	100%	0%
Camp 26 Nayapara	5	5	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 (W43 2022)

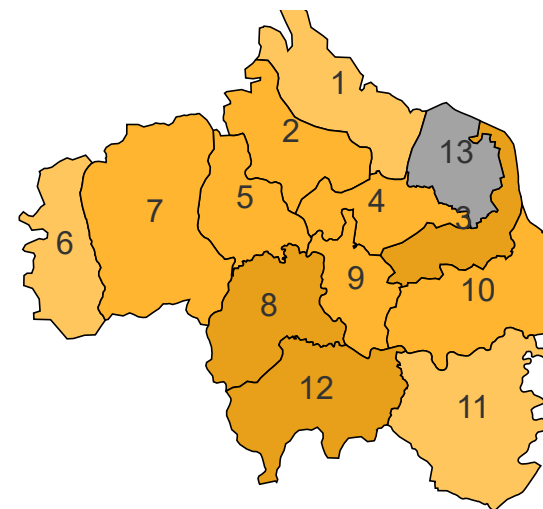
Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	1	0	0%	0%	IRC	4	3	75%	75%
AWARD	6	6	100%	100%	MSF	9	8	89%	89%
BASHMAH	1	1	100%	100%	MoH	12	10	83%	83%
BDRCS	11	11	100%	91%	MHI	0	0		
BRAC	11	11	100%	100%	Medair	0	0		
CARE	4	4	100%	50%	FH/MTI	4	4	100%	100%
GH/CPI	1	0	0%	0%	PRANTIC	1	1	100%	100%
DBC	1	1	100%	100%	PULSE	1	1	100%	100%
DSK	1	1	100%	0%	QC	1	1	100%	100%
DCHT-PWJ	1	1	100%	100%	PHD	10	10	100%	100%
FRNDS	6	0	100%	100%	RPN	2	2	100%	100%
GK	10	10	100%	100%	RHU	3	3	100%	100%
Global One	1	1	100%	100%	RI	3	2	100%	100%
GUSS	1	1	100%	100%	RTMI	9	8	89%	89%
HAEFA	2	2	100%	100%	SALT	1	1	100%	100%
HAIB	8	0	0%	0%	SCI	7	7	100%	100%
HMBDF	2	2	100%	100%	DCHT-MM	1	1	100%	100%
HOPE	1	1	100%	100%	Turkish Government	1	1	100%	100%
ICRC	1	2	200%	200%	TdH	2	2	100%	100%
IOM	23	23	100%	91%					

Table 8 | Performance by camp

Northern group	W43		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	1	100%	78	100%
Camp 1W	5	100%	197	100%
Camp 2E	7	100%	411	100%
Camp 2W	4	100%	134	100%
Camp 3	5	100%	185	100%
Camp 4	4	100%	160	100%
Camp 4 Ext	2	100%	61	100%
Camp 5	6	100%	131	100%
Camp 6	4	100%	102	100%
Camp 7	3	100%	88	100%
Camp 8E	2	100%	78	100%
Camp 8W	6	100%	217	100%
Kutupalong RC	0	0%	76	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

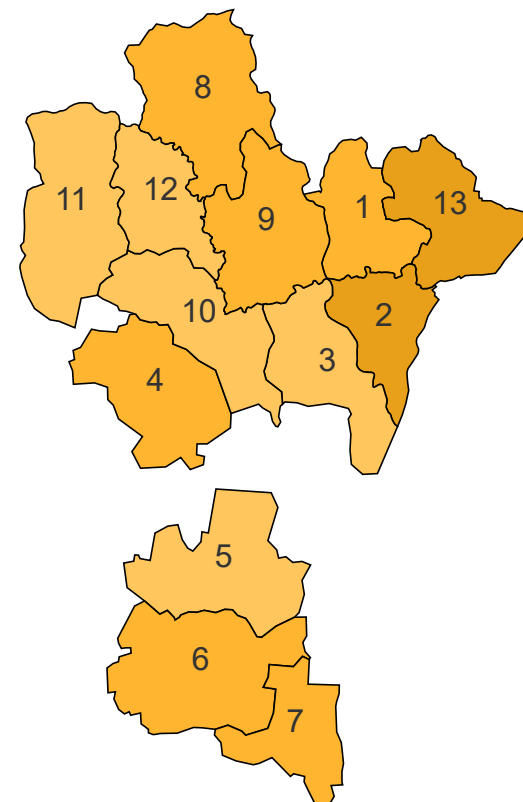


Table 9 | Performance by camp

Southern group	W43		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	3	100%	93	100%
Camp 11	9	100%	116	100%
Camp 12	1	100%	126	100%
Camp 13	4	100%	147	100%
Camp 14	1	100%	81	100%
Camp 15	5	100%	154	100%
Camp 16	3	100%	122	100%
Camp 17	3	100%	106	100%
Camp 18	4	100%	172	100%
Camp 19	1	100%	68	100%
Camp 20	2	100%	72	100%
Camp 20 Ext	2	100%	58	100%
Camp 9	10	100%	219	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



of alerts

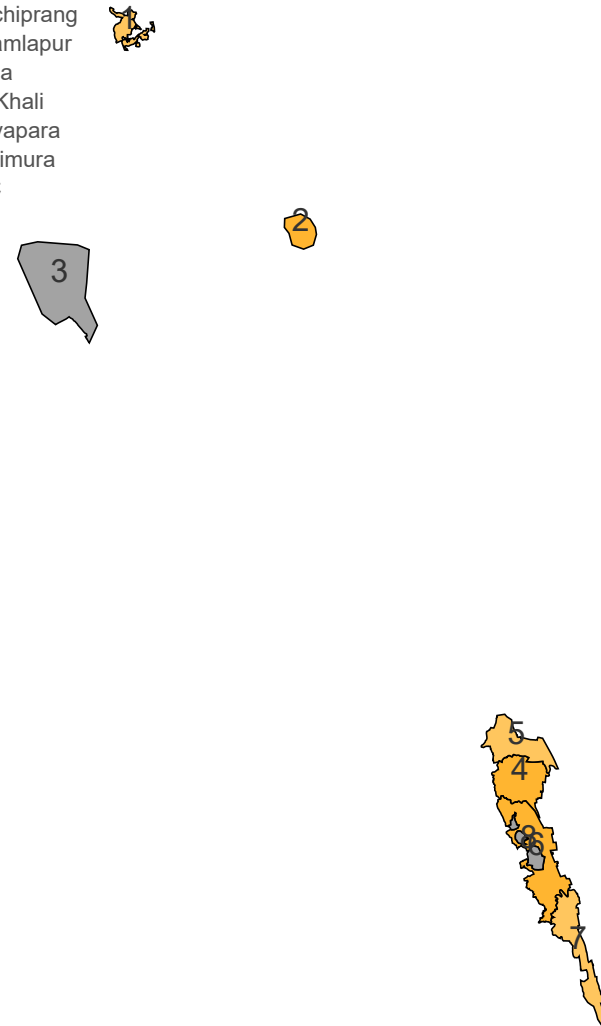


Table 10 | Performance by camp

Teknaf	W43		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	1	100%	53	100%
Camp 22 Unchiprang	3	100%	73	100%
Camp 23 Shamlapur	0	0%	16	100%
Camp 24 Leda	4	100%	107	100%
Camp 25 Ali Khali	1	100%	35	100%
Camp 26 Nayapara	3	100%	132	100%
Camp 27 Jadimura	1	100%	65	100%
Nayapara RC	0	0%	38	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



of alerts



Table 11 | Performance by type of alert

Event	W43		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	3	100%
Measles	5	100%	437	100%
Bloody Diarr.	0	0%	0	0%
AFP	1	100%	33	100%
Meningitis	2	100%	26	100%
Haem. fever (susp.)	3	100%	39	100%
NNT	0	0%	3	100%
Unexp. fever	7	100%	125	100%
AWD	8	100%	203	100%
ARI	4	100%	178	100%
AJS	3	100%	104	100%
Varicella (Susp.)	0	0%	107	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	7	100%	211	100%

Table 12 | Risk assessment

W43	Cumulative (2022)	
0	9	Low risk
0	1	Moderate risk
0	0	High risk
0	0	Very high risk

For more help and support, please contact:

Dr. Imrul Kayes
Medical Officer - Civil Surgeon Office (MO-CS)
Ministry of Health and Family Welfare
Cox's Bazar, Bangladesh
Telephone: +88 01726296025
Email: mailkayesk65@gmail.com

Dr. Feroz Hayat Khan
National Professional Officer (Disease Surveillance &
Epidemiology)
World Health Organization
Cox's Bazar, Bangladesh
Telephone: +88 017 0120 2994
Email: khan@who.int

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>



Ministry of
Health and
Family
Welfare
Bangladesh



World Health
Organization



HEALTH SECTOR
COX'S BAZAR



Global
EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W43 2022



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



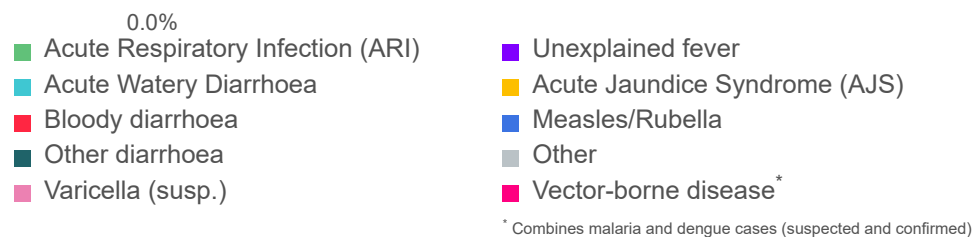
HEALTH SECTOR
COX'S BAZAR



Printed: 05:11 Wednesday, 02 November 2022 UTC

Proportional morbidity

Figure 1 | Proportional morbidity (W43 2022)



Disease	W43		2022	
	# cases	% morbidity	# cases	% morbidity
AWD	3,708	3.3%	125,355	2.8%
Bloody diarr.	318	0.3%	15,657	0.3%
Other diarr.	1,176	1.1%	48,335	1.1%
Susp. Varicella	12	0.0%	9,070	0.2%
ARI	19,551	17.5%	811,915	17.8%
Measles/Rub.	7	0.0%	945	0.0%
AFP	1	0.0%	70	0.0%
Susp. menin.	4	0.0%	167	0.0%
AJS	19	0.0%	1,134	0.0%
Susp. HF	29	0.0%	370	0.0%
Neo. tetanus	0	0.0%	9	0.0%
Adult tetanus	0	0.0%	14	0.0%
Malaria (conf.)	3	0.0%	375	0.0%
Malaria (susp.)	35	0.0%	53,045	1.2%
Dengue (conf.)	173	0.2%	18,759	0.4%
Dengue (susp.)	102	0.1%	8,218	0.2%
Unexpl. fever	1,249	1.1%	52,864	1.2%
Sev. Malnut.	84	0.1%	2,132	0.0%
Inj./Wounds	2,333	2.1%	94,781	2.1%
Other	82,958	74.2%	3,297,923	72.5%
Total	110,579	100%	4,548,753	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W43)

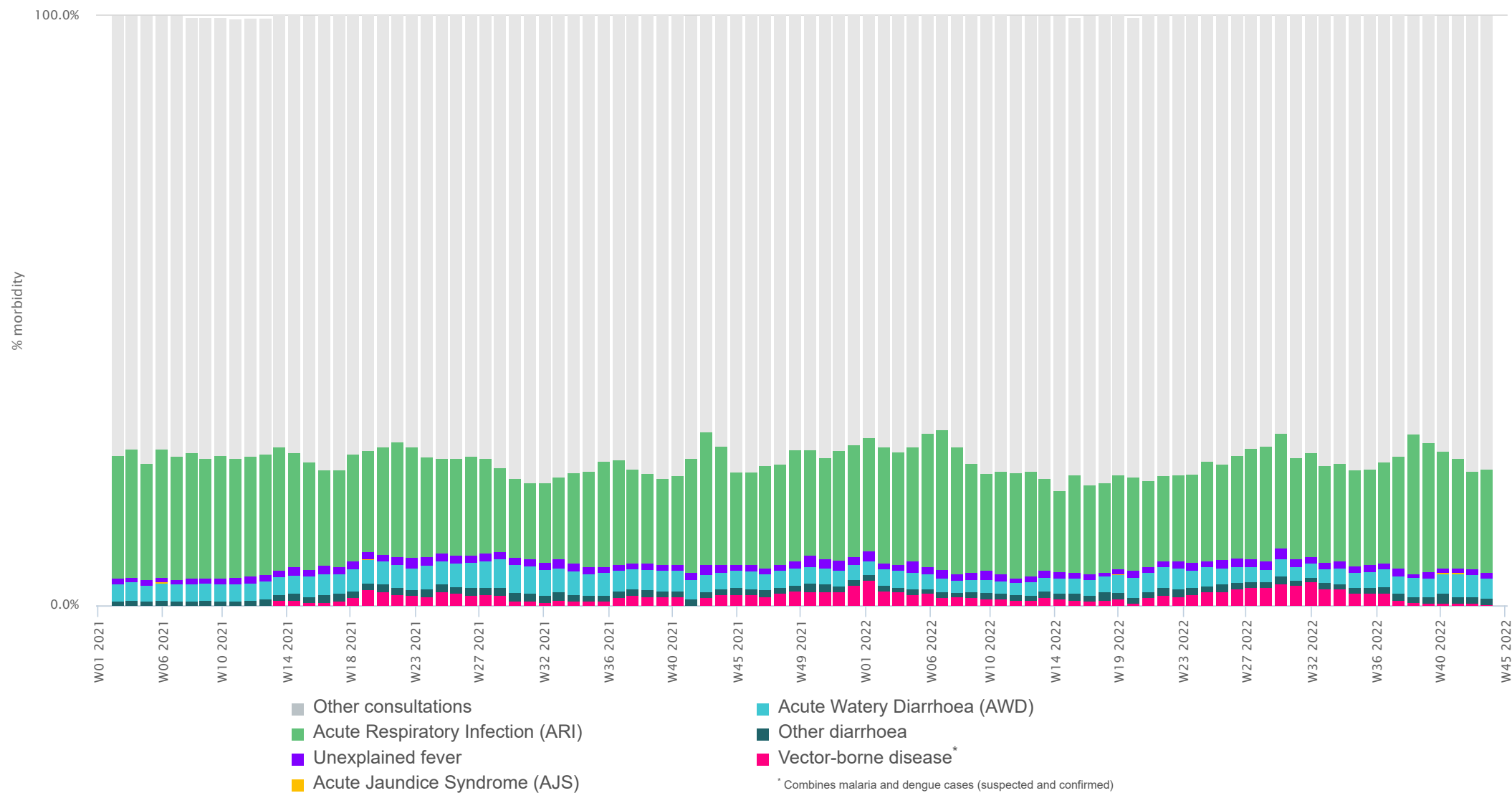
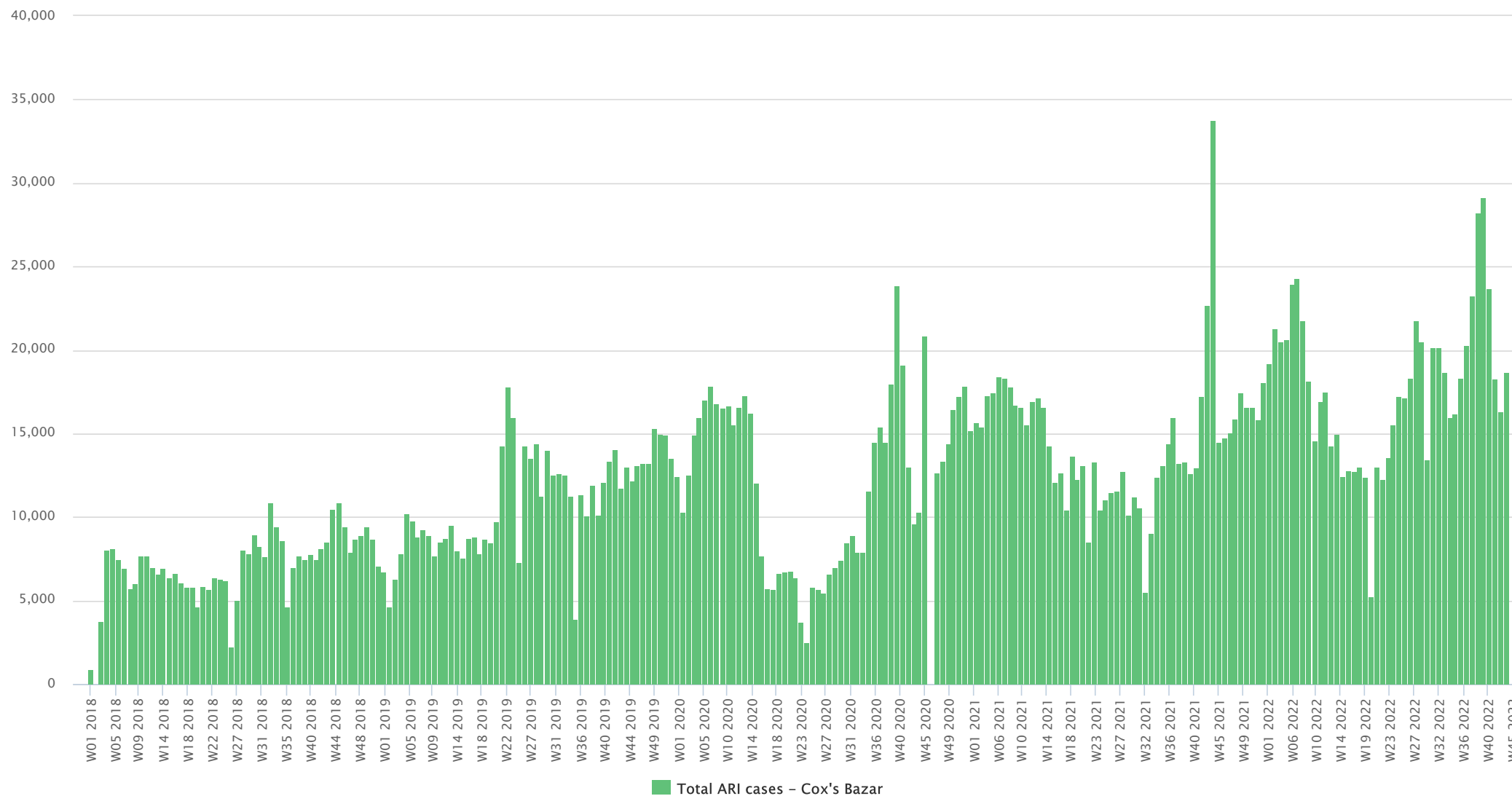
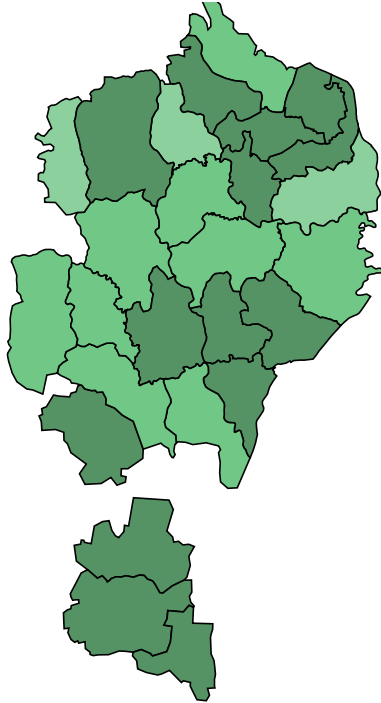


Figure 3 | Trend in number of cases over time (W38 2017 - W43 2022)

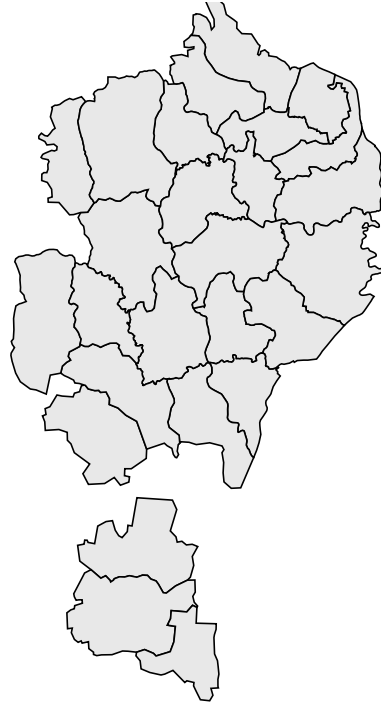


Map 1 | Map of cases by camp (W43 2022)

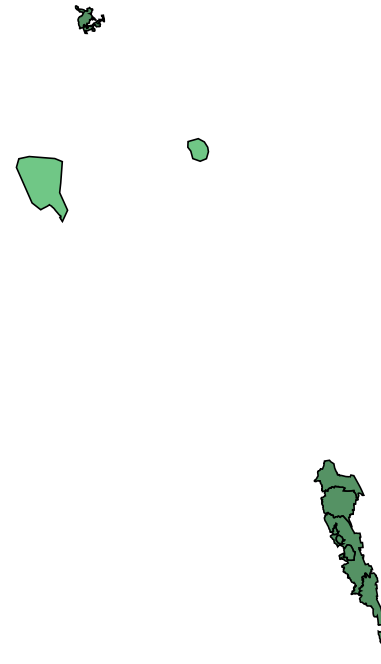
a. Ukhia | Number of cases



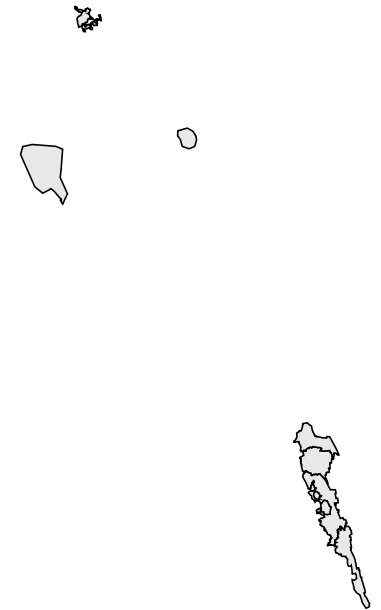
b. Ukhia | Number of alerts



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 (W43 2022)

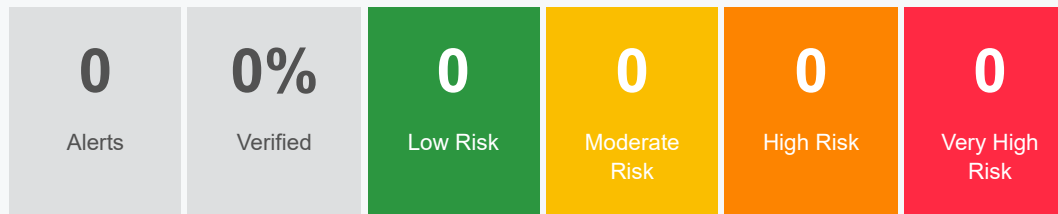
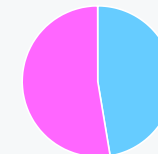
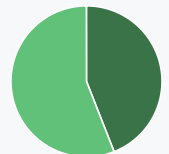


Figure | % sex



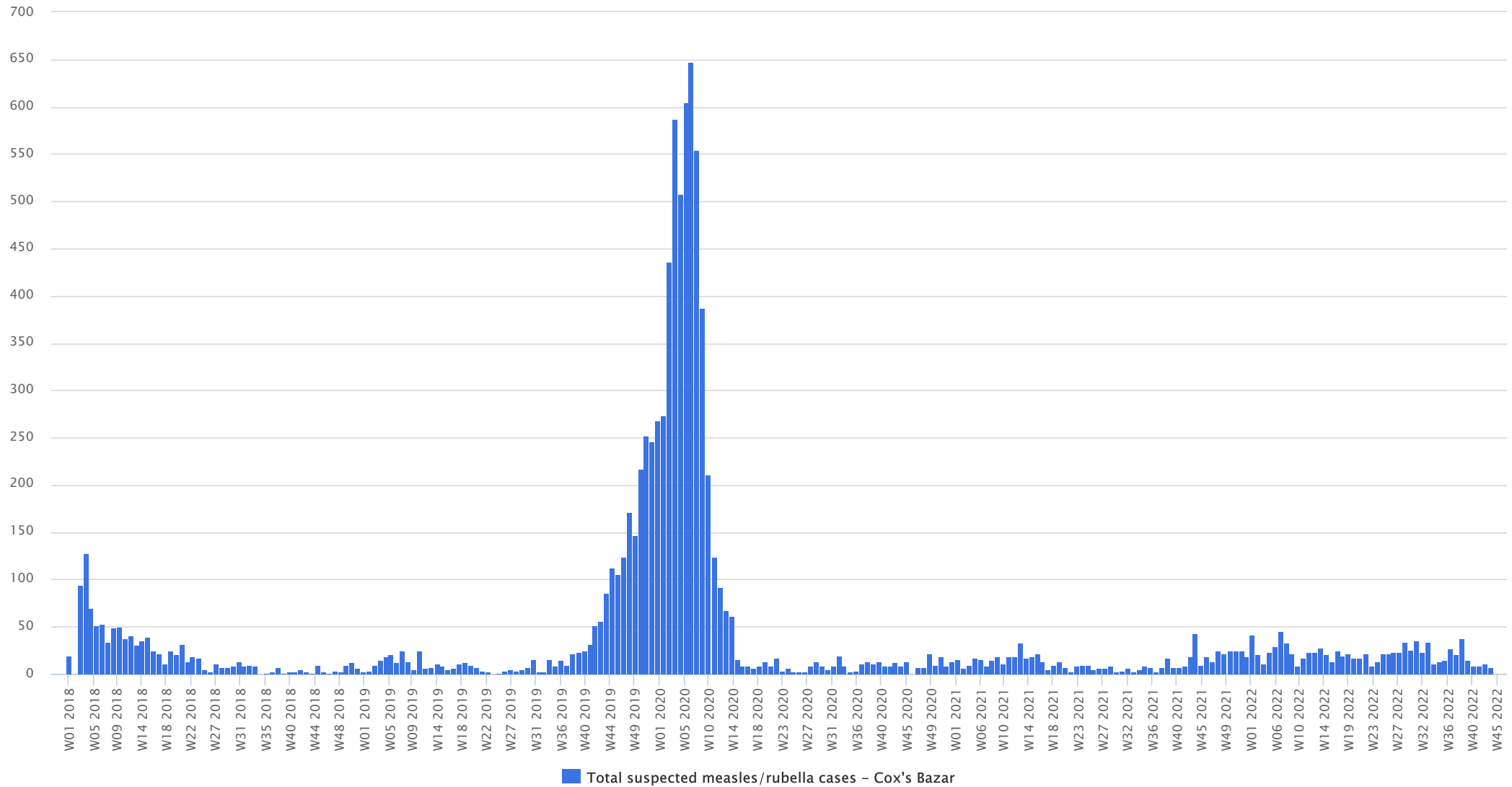
Male Female

Figure | % age



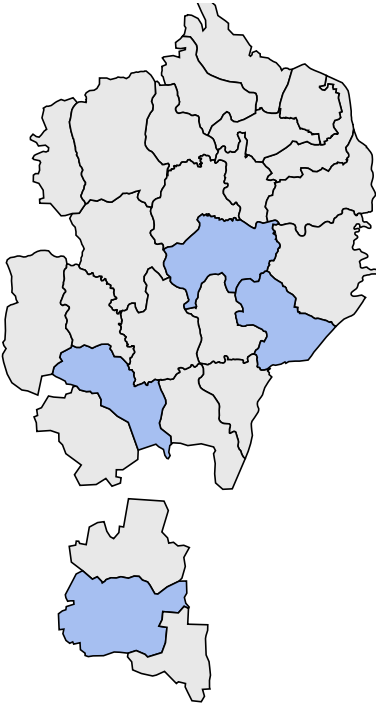
>=5 < 5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W43 2022)

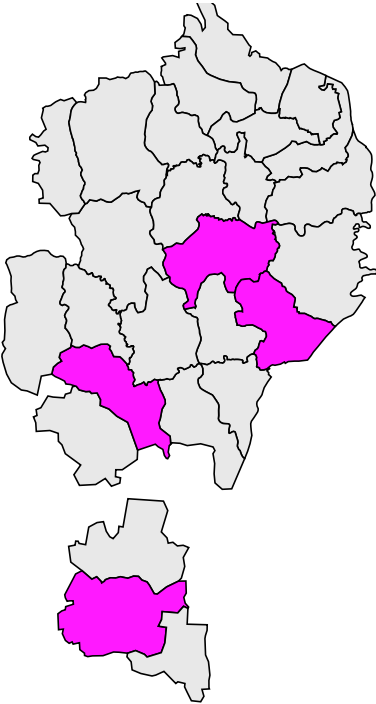


Map 2 | Map of cases by camp (W43 2022)

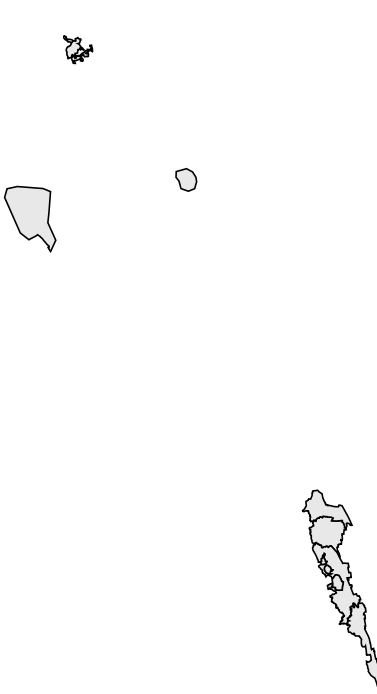
a. Ukhia | Number of cases



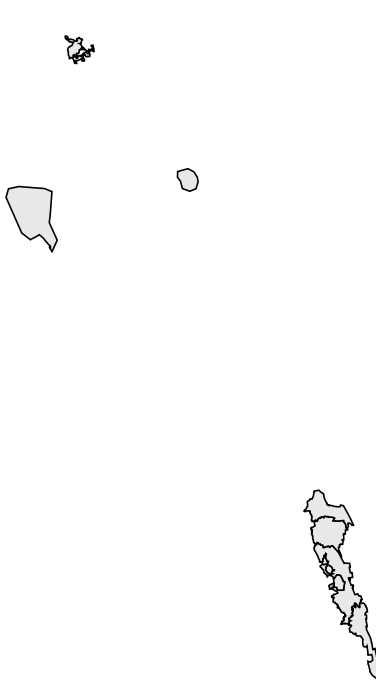
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W43 2022)

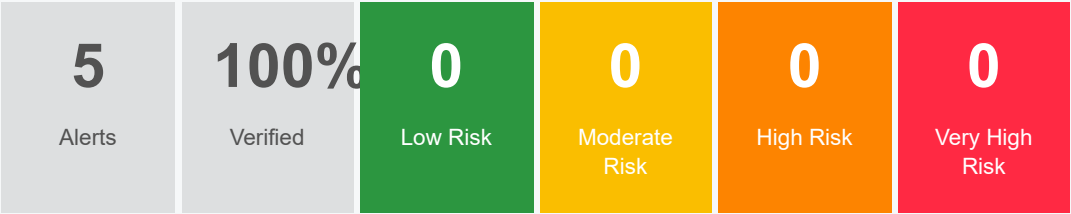


Figure | % sex

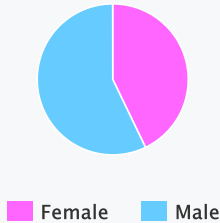


Figure | % age

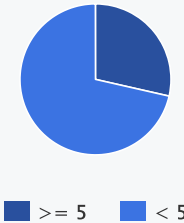
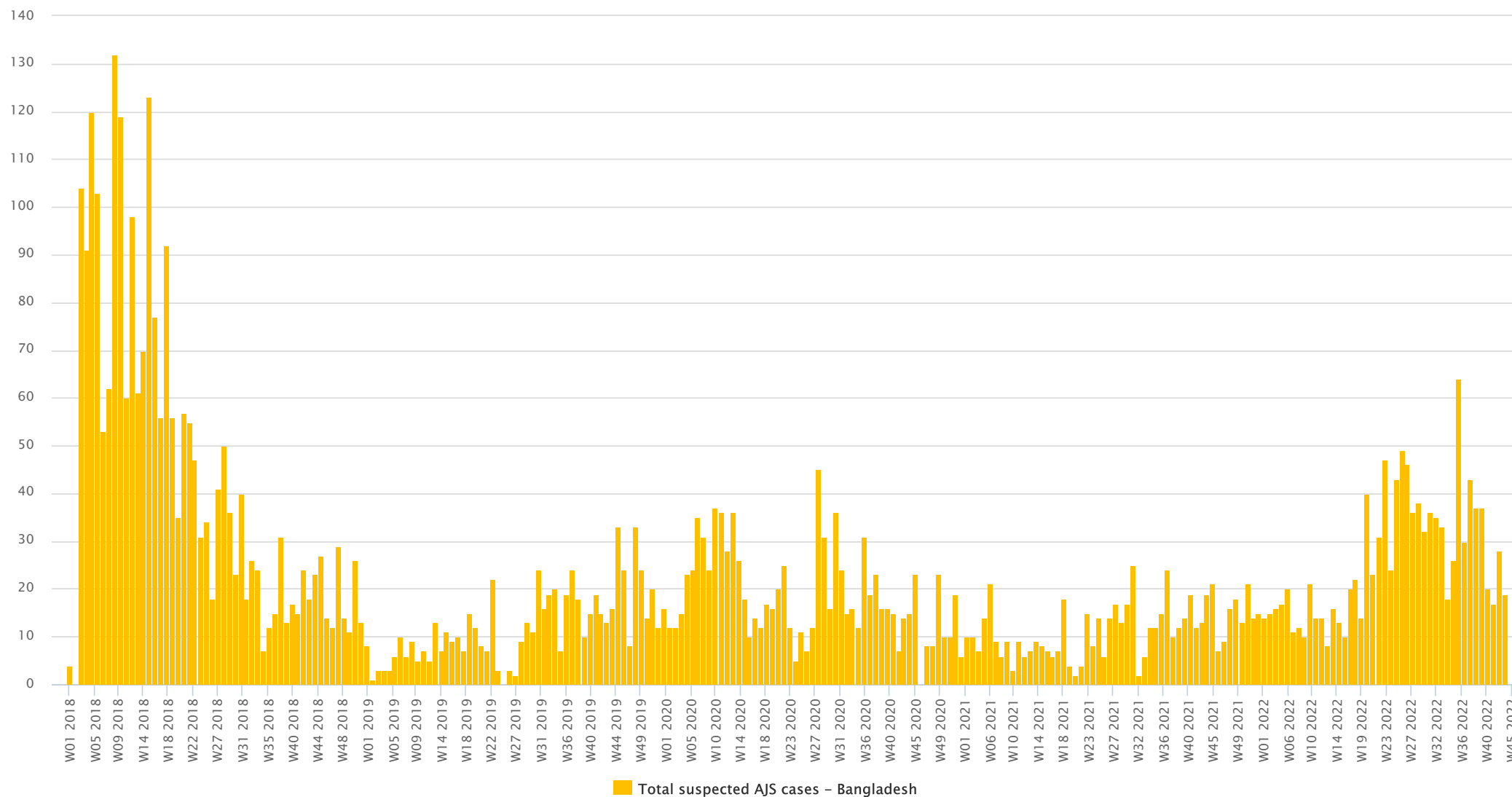
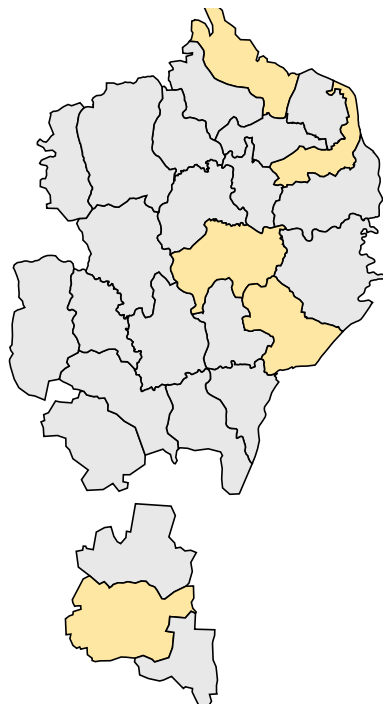


Figure 5 | Trend in number of cases over time (W38 2017 - W43 2022)

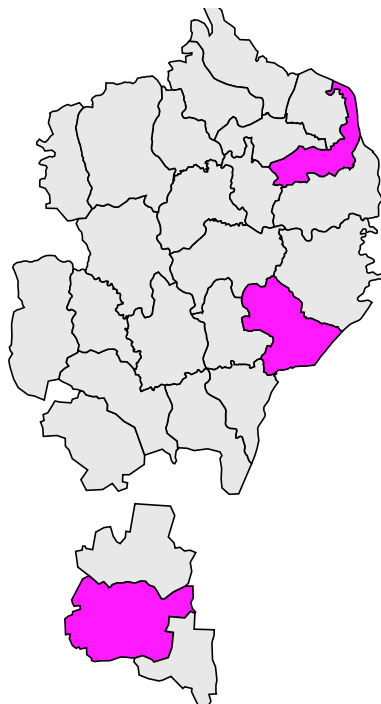


Map 3 | Map of cases by camp (W37 2017 - W43 2022)

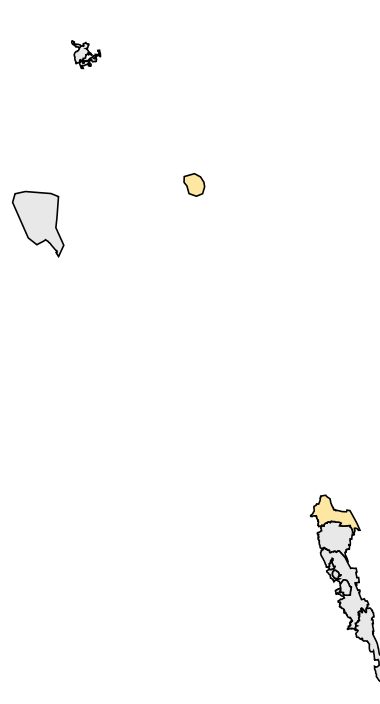
a. Ukhia | Number of cases



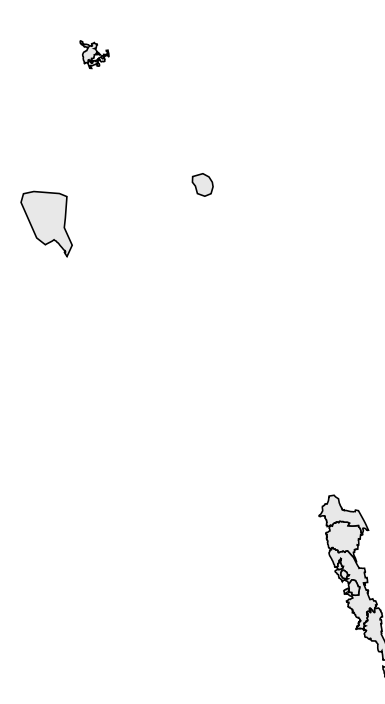
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend

Number of cases



Number of alerts



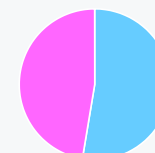
Alert threshold

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

Alert management (W43 2022)

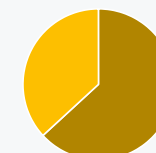


Figure | % sex



Male Female

Figure | % age



>= 5 < 5

Figure 6 | Trend in number of cases over time (W38 2017 - W43 2022)

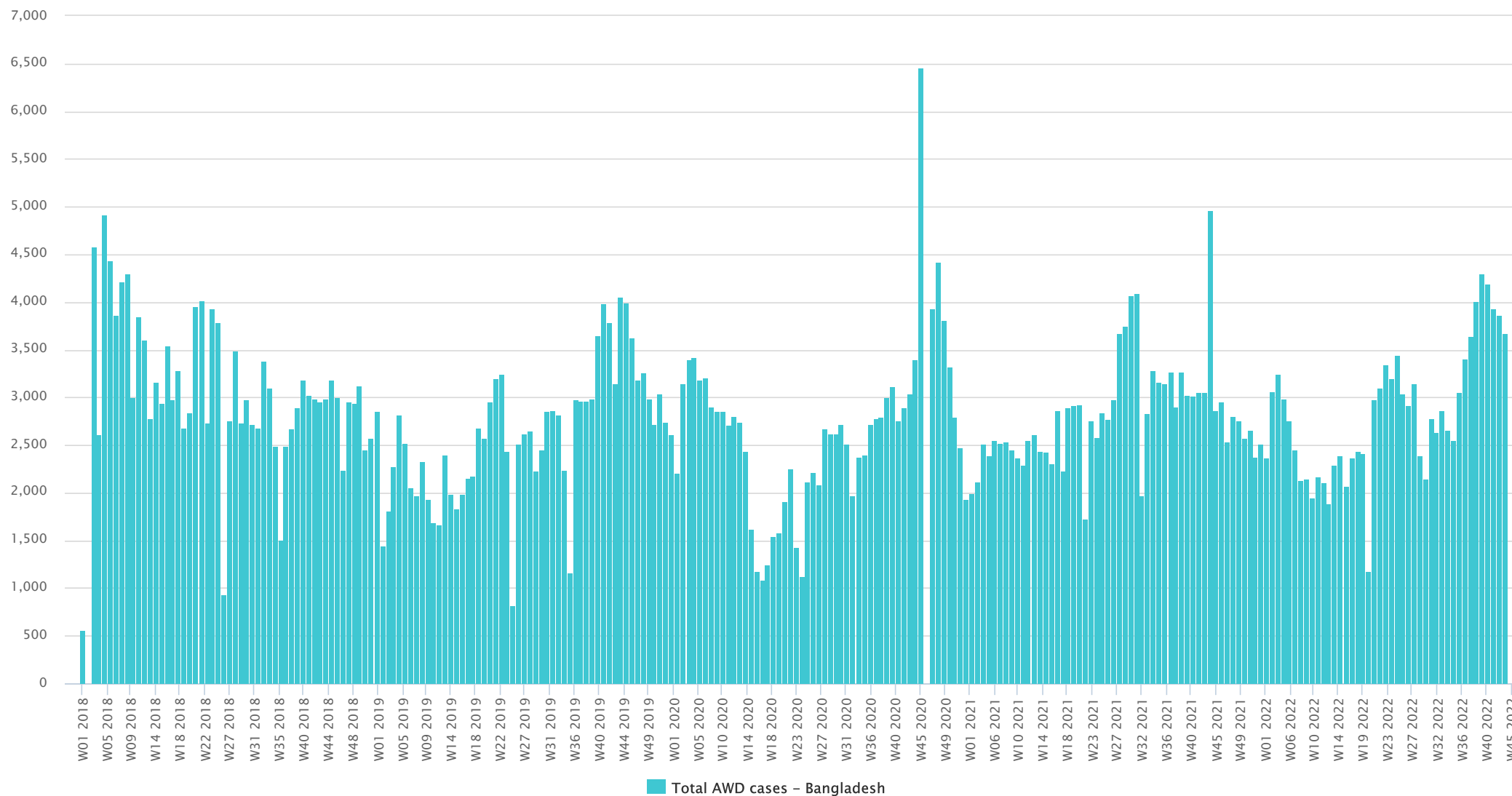
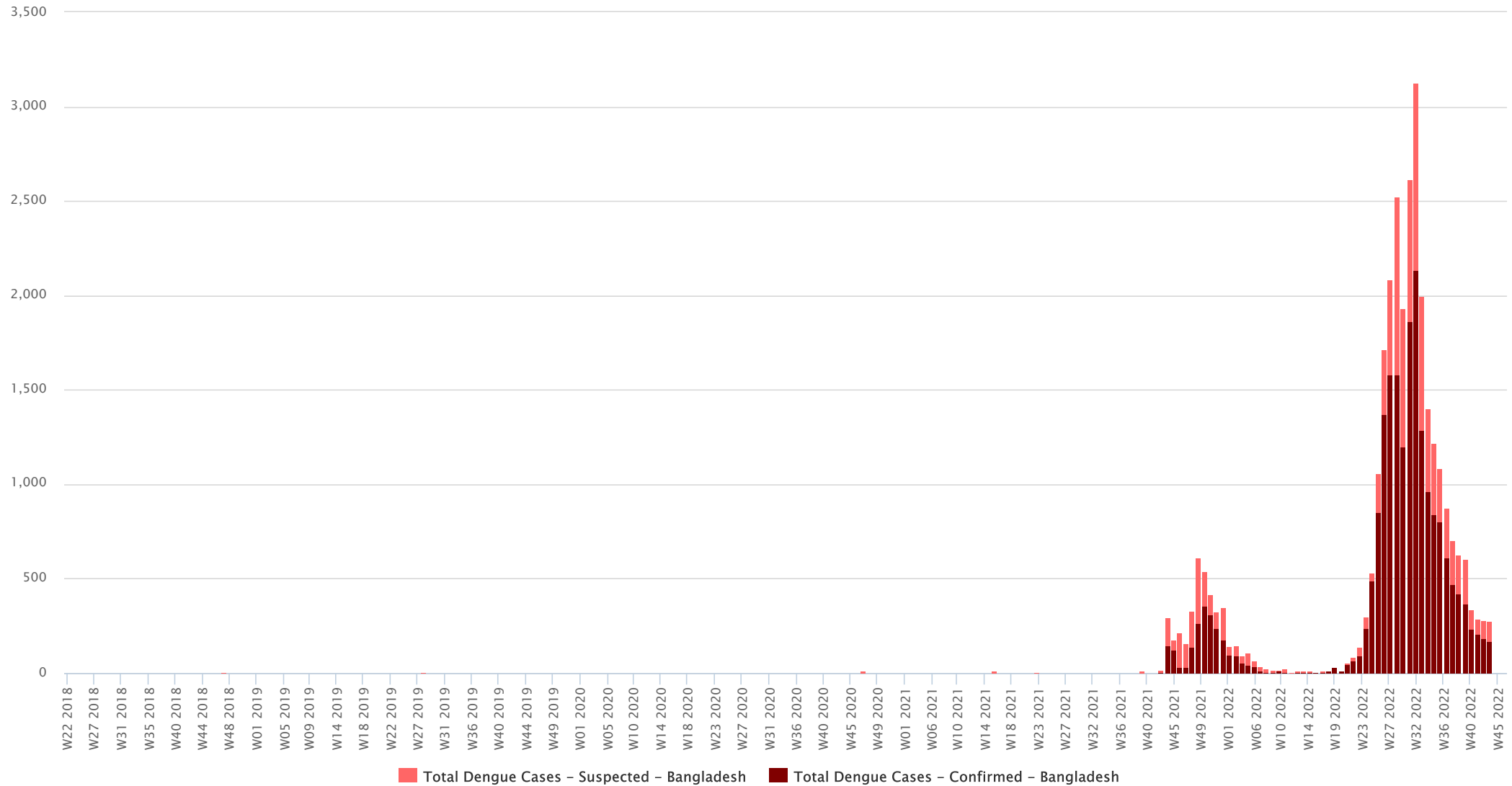
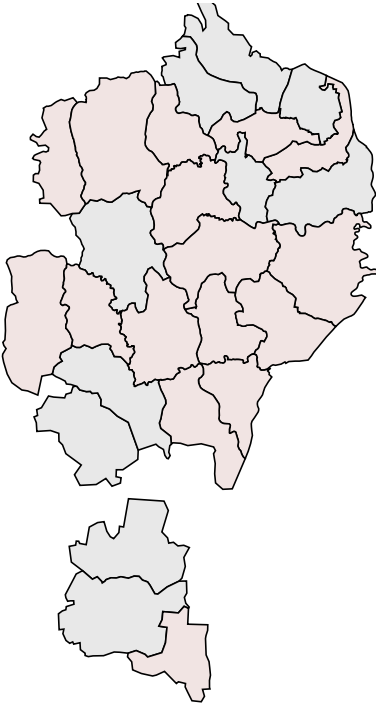


Figure 7 | Trend in number of cases over time (W38 2017 - W43 2022)

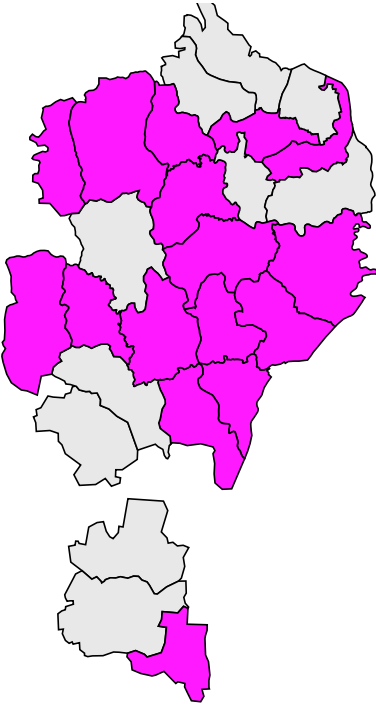


Map 4 | Map of cases by camp (W37 2017 - W43 2022)

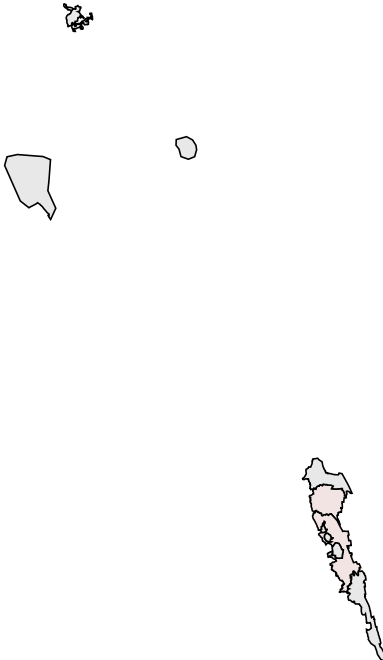
a. Ukhia | Number of cases



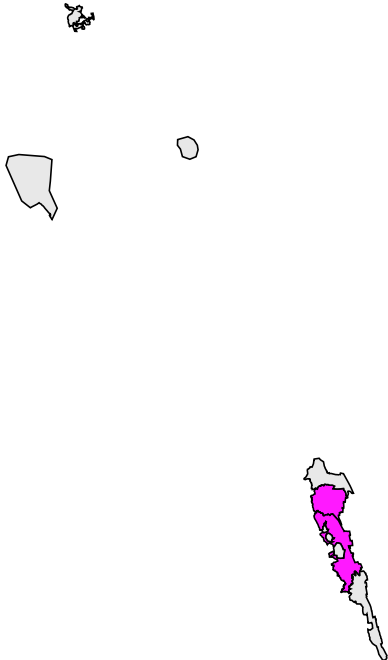
b. Ukhia | Number of alerts



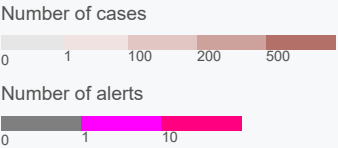
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W43 2022)

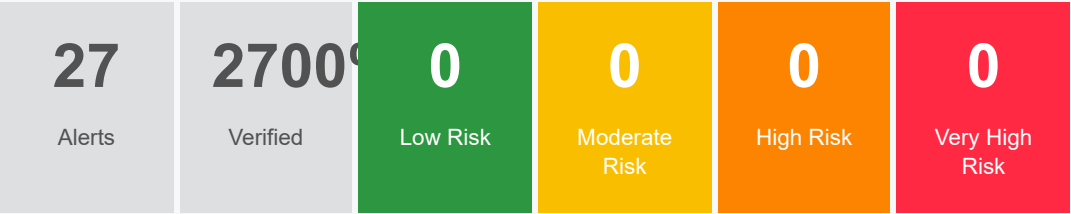


Figure | % sex

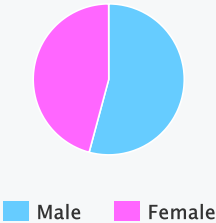


Figure | % age

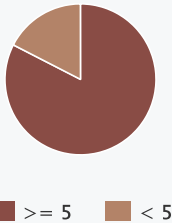
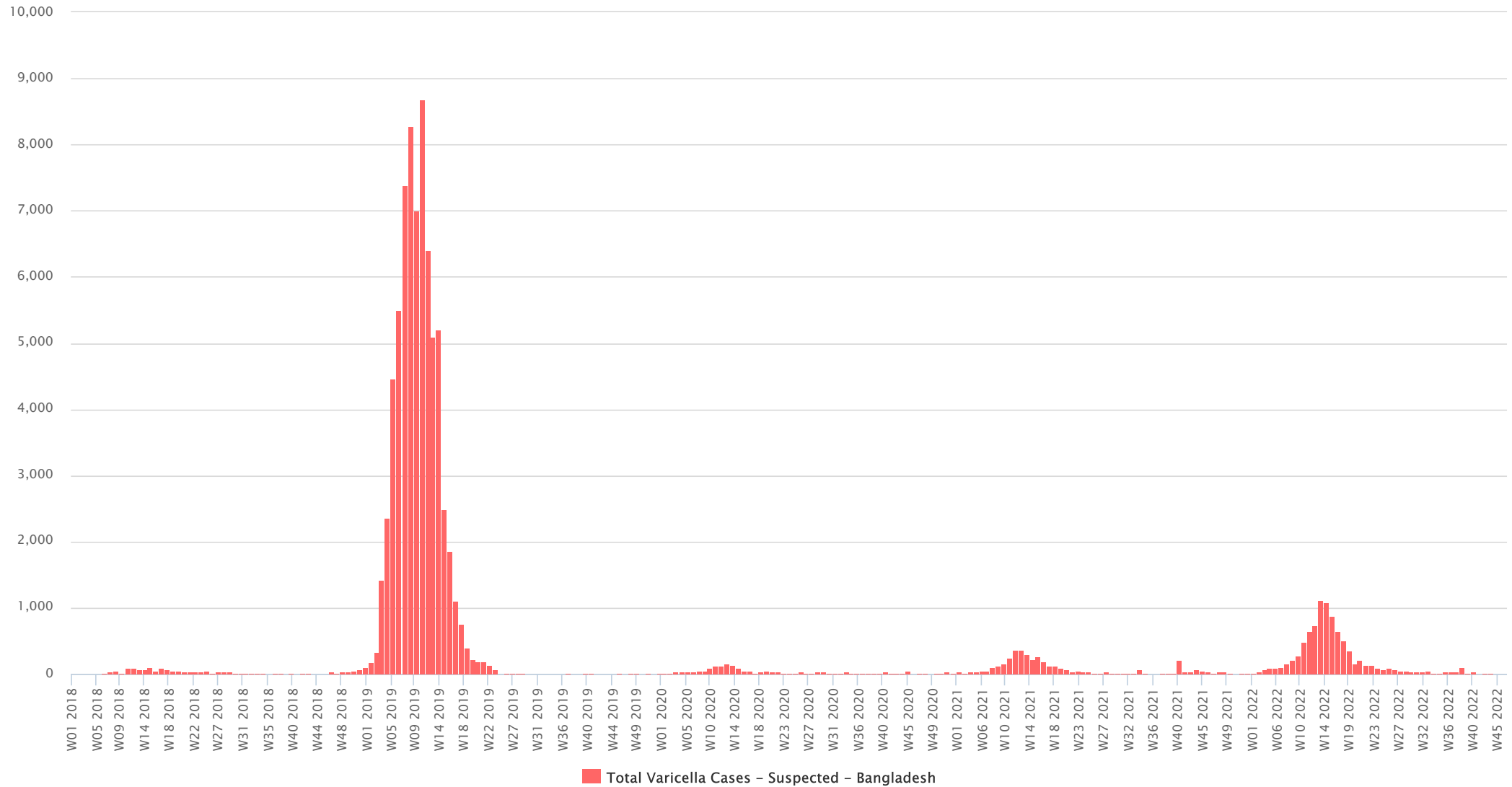
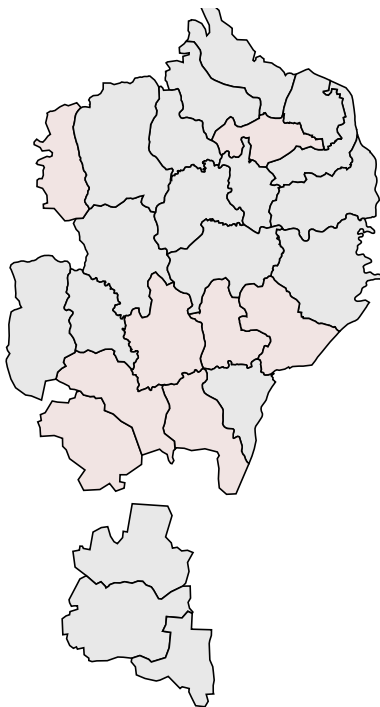


Figure 7 | Trend in number of cases over time (W38 2017 - W43 2022)

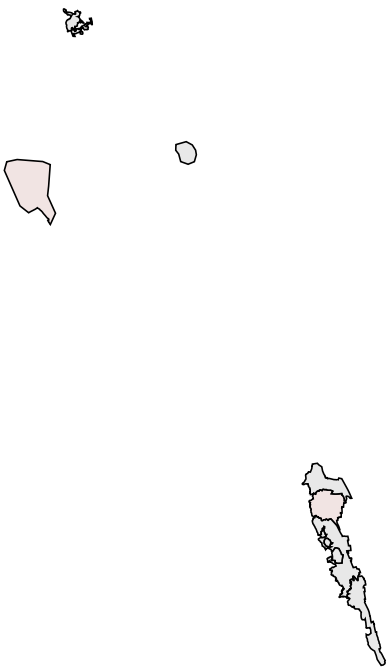


Map 4 | Map of cases by camp (W37 2017 - W43 2022)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

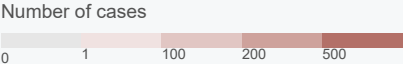


Figure | % sex

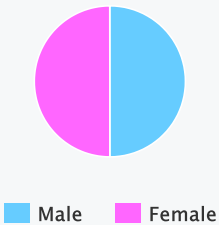
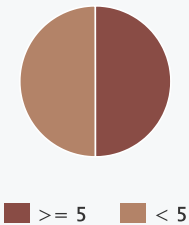


Figure | % age



For more help and support, please contact:

Dr. Imrul Kayes
Medical Officer - Civil Surgeon Office (MO-CS)
Ministry of Health and Family Welfare
Cox's Bazar, Bangladesh
Telephone: +88 017826296025
Email: mailkayesk65@gmail.com

Dr. Feroz Hayat Khan
National Professional Officer (Disease Surveillance &
Epidemiology)
World Health Organization
Cox's Bazar, Bangladesh
Telephone: +88 017 0120 2994
Email: khan@who.int

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>



Ministry of
Health and
Family
Welfare
Bangladesh



World Health
Organization



HEALTH SECTOR
COX'S BAZAR



Global

EWARS