



Epidemiological Highlights

Week 10 (7-13 March) 2022



**World Health
Organization**

Highlights: COVID-19

As of week 10, (7-13 Mar)2022 there were **5,846 confirmed cases** of COVID-19 (SARS-CoV-2), out of **94,317 samples** that had been submitted for testing. The **total positivity rate now stands at 6.2%**

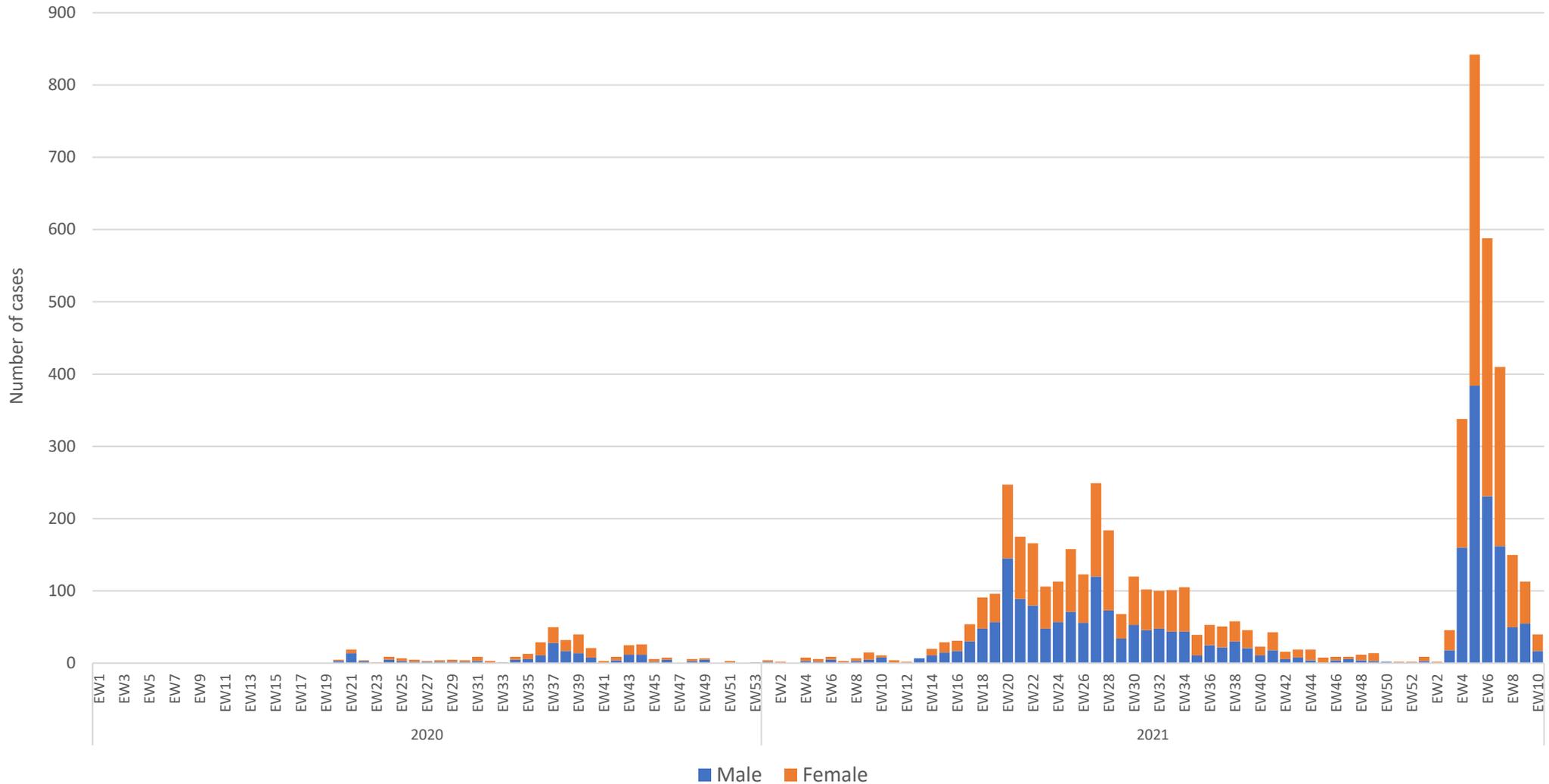
In the reporting week, forty (40) new confirmed cases were detected out of 1,051 total samples tested. This translated to a 3.8% Test positivity Rate (TPR) which is up from 9.0% reported the previous week.

As of this week (week 10)

- **Median age** of tested and confirmed cases were 11 (0-120) and 21 (0-100) years respectively
- **Proportion of females** among tested and confirmed cases were 54% and 53% respectively
- **All the 34 camps**, have so far reported confirmed cases since the outbreak began, while the five camps with the highest number of reported cases were; C17-401, C24-382, C2W-366, C4-360, and C3-330
- No new death was reported in this Epi week. Total confirmed COVID-19 deaths so far reported to date stands at 42 with the average **case fatality ratio** of 0.7%
- The **weekly incidence** was 46.1 cases/1 million population in this Epi week which is 64% lower in comparison with the previous week.

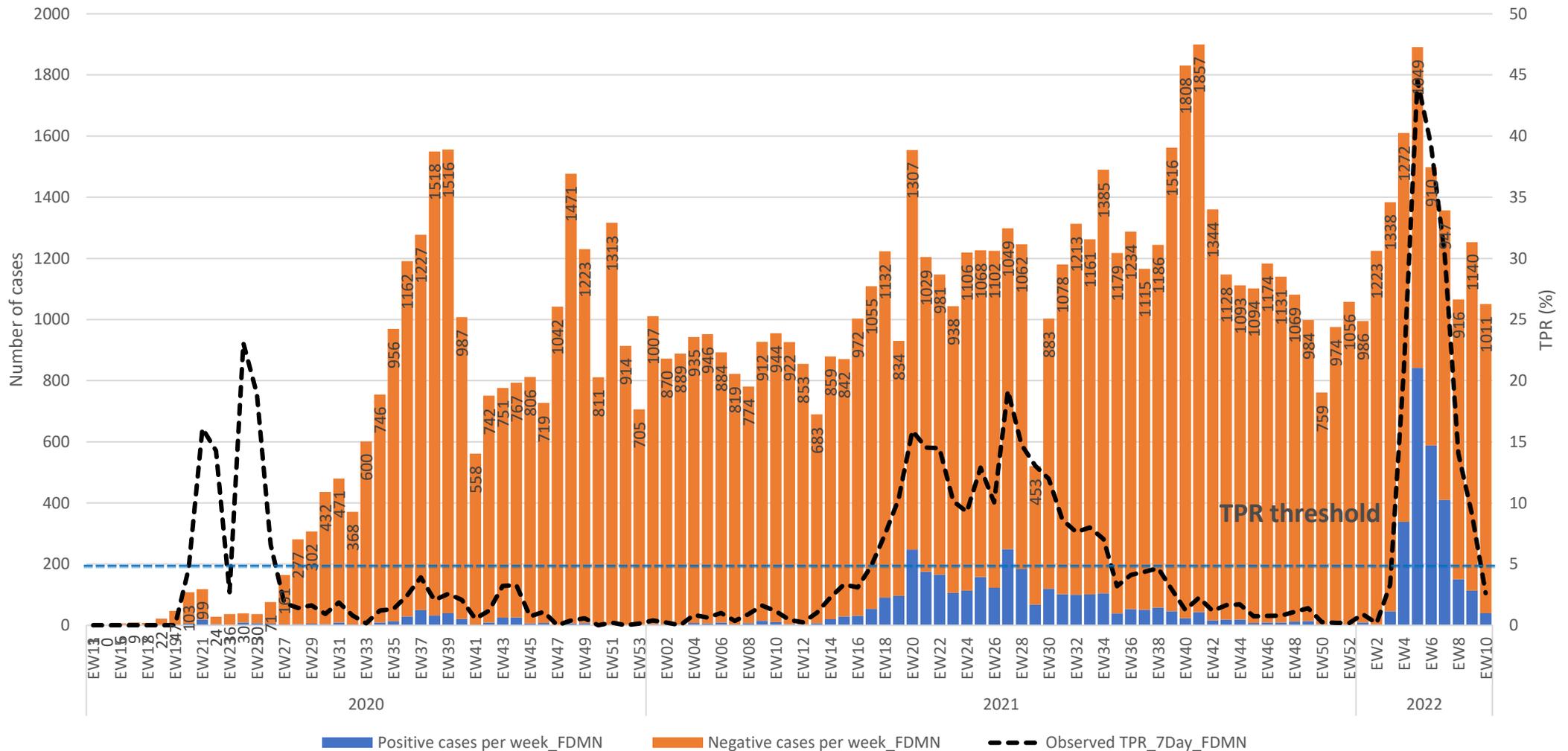
Highlights: COVID-19

Weekly trend of COVID-19 positive case (n=5,846) by date of test

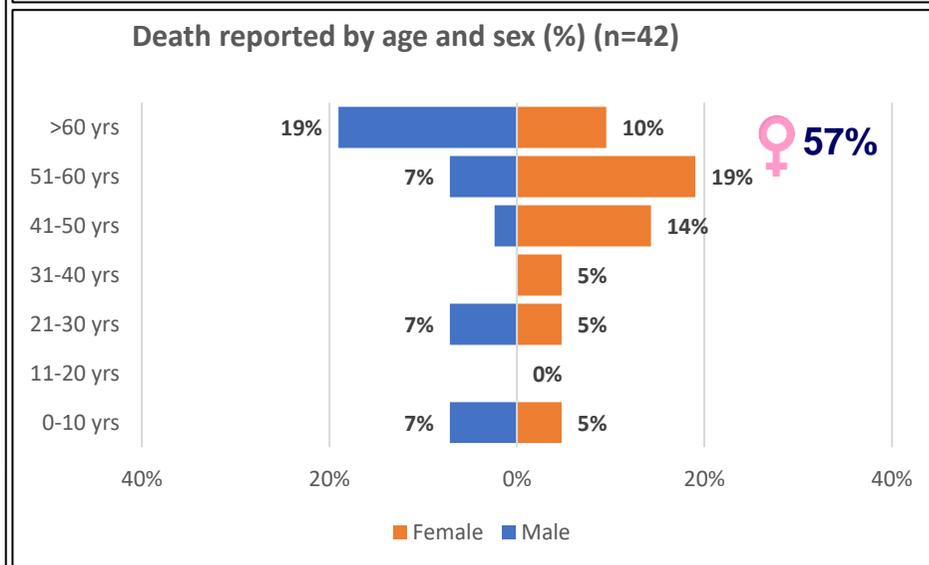
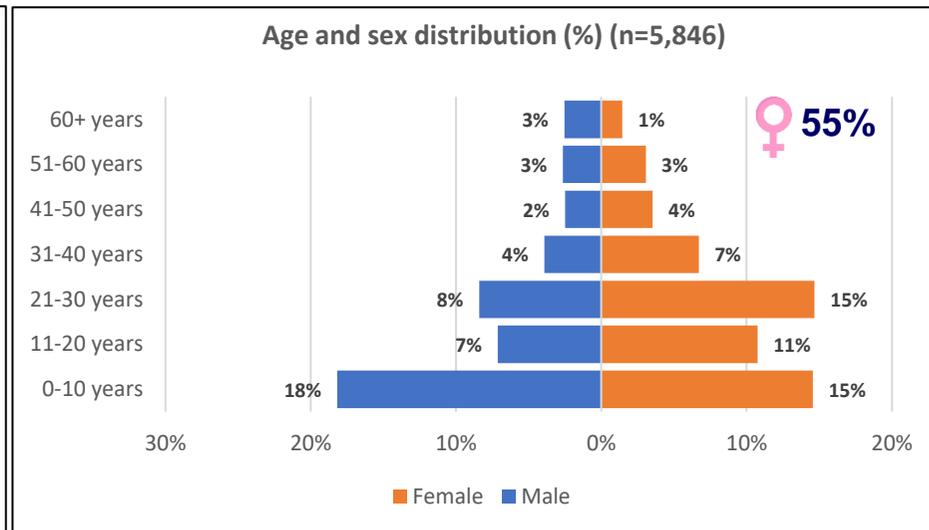
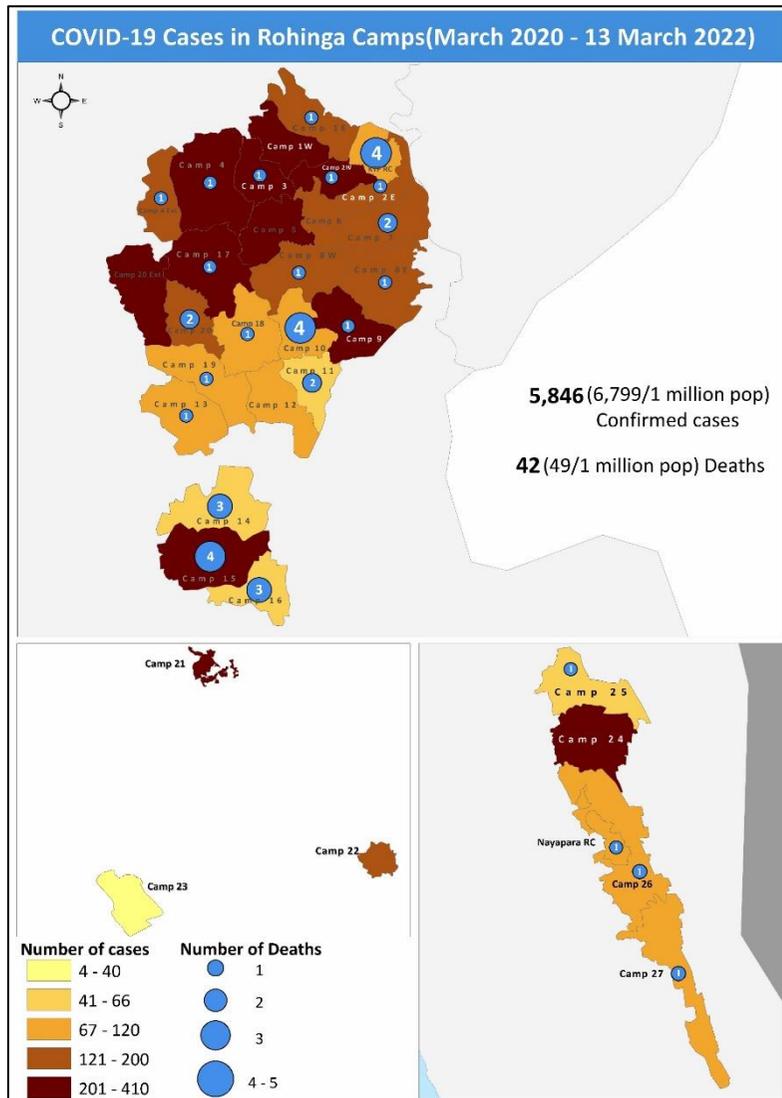


Highlights: COVID-19

Weekly observed TPR, FDMN/Rohingya Refugees, Cox's Bazar

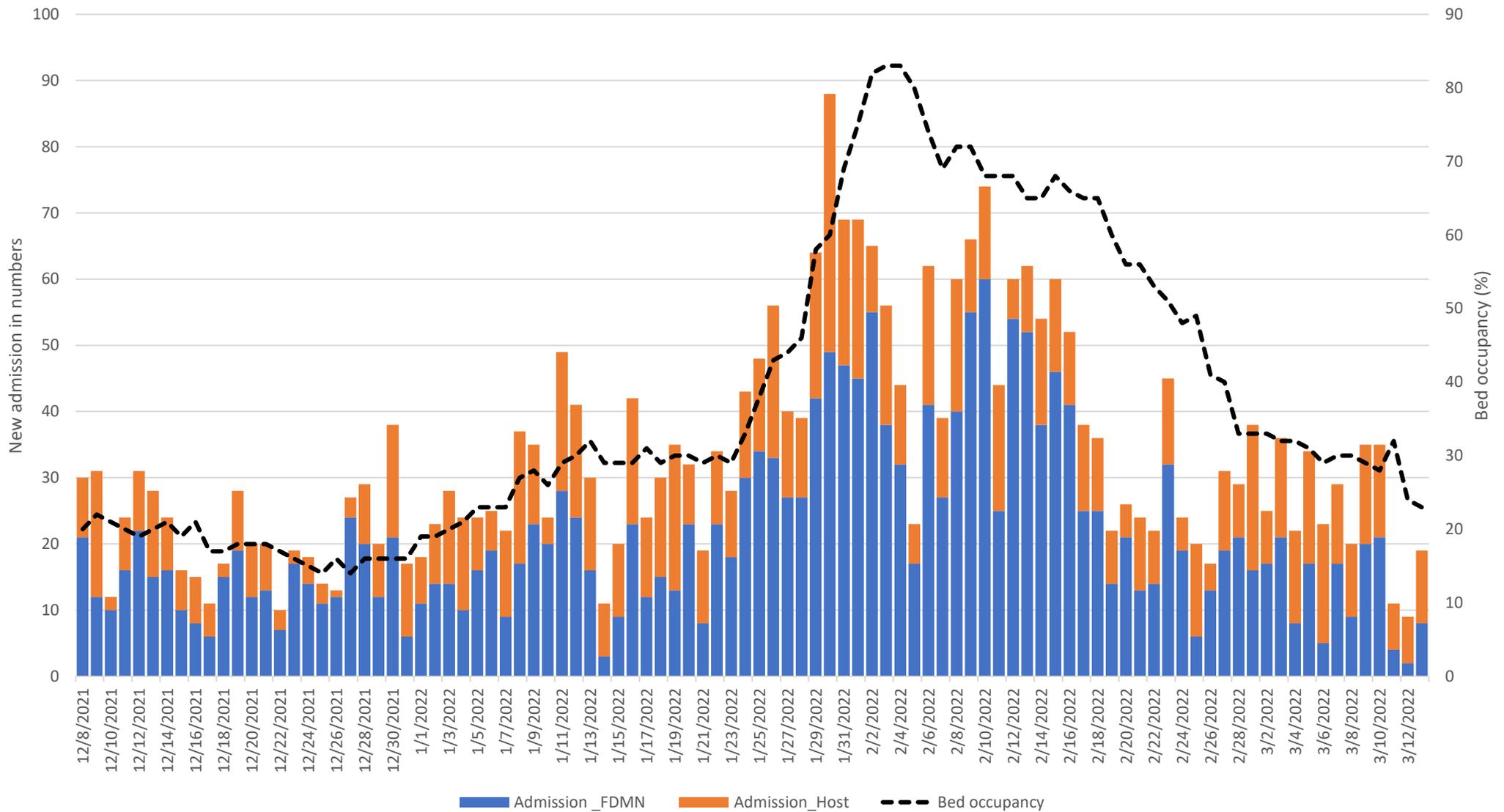


Highlights: COVID-19



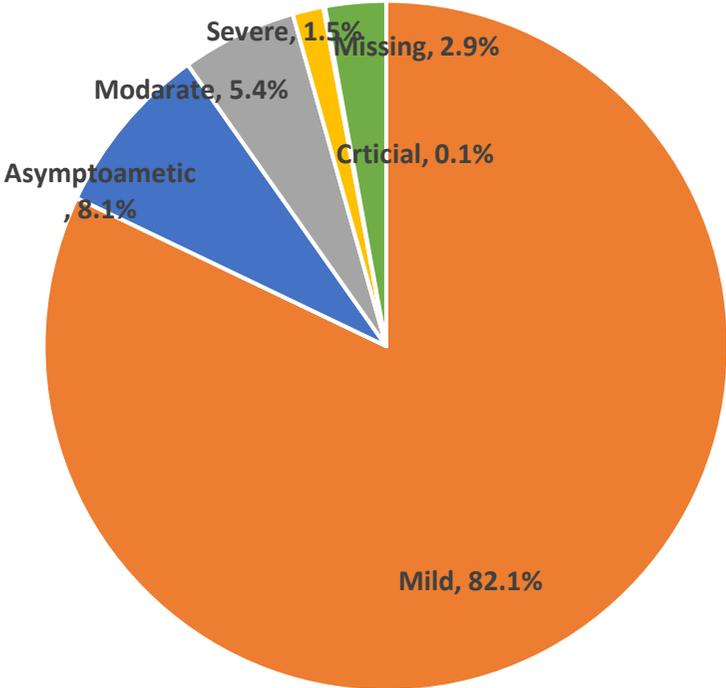
Highlights: COVID-19

Daily new admissions and bed occupancy in SARI ITC as of 6 March (capacity 585)

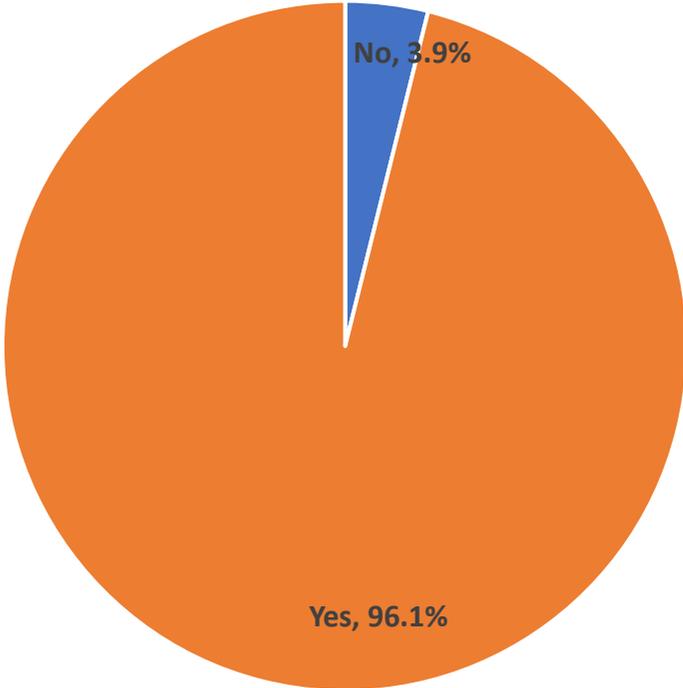


Highlights: COVID-19

Severity of reported cases at presentation (n=4,748)



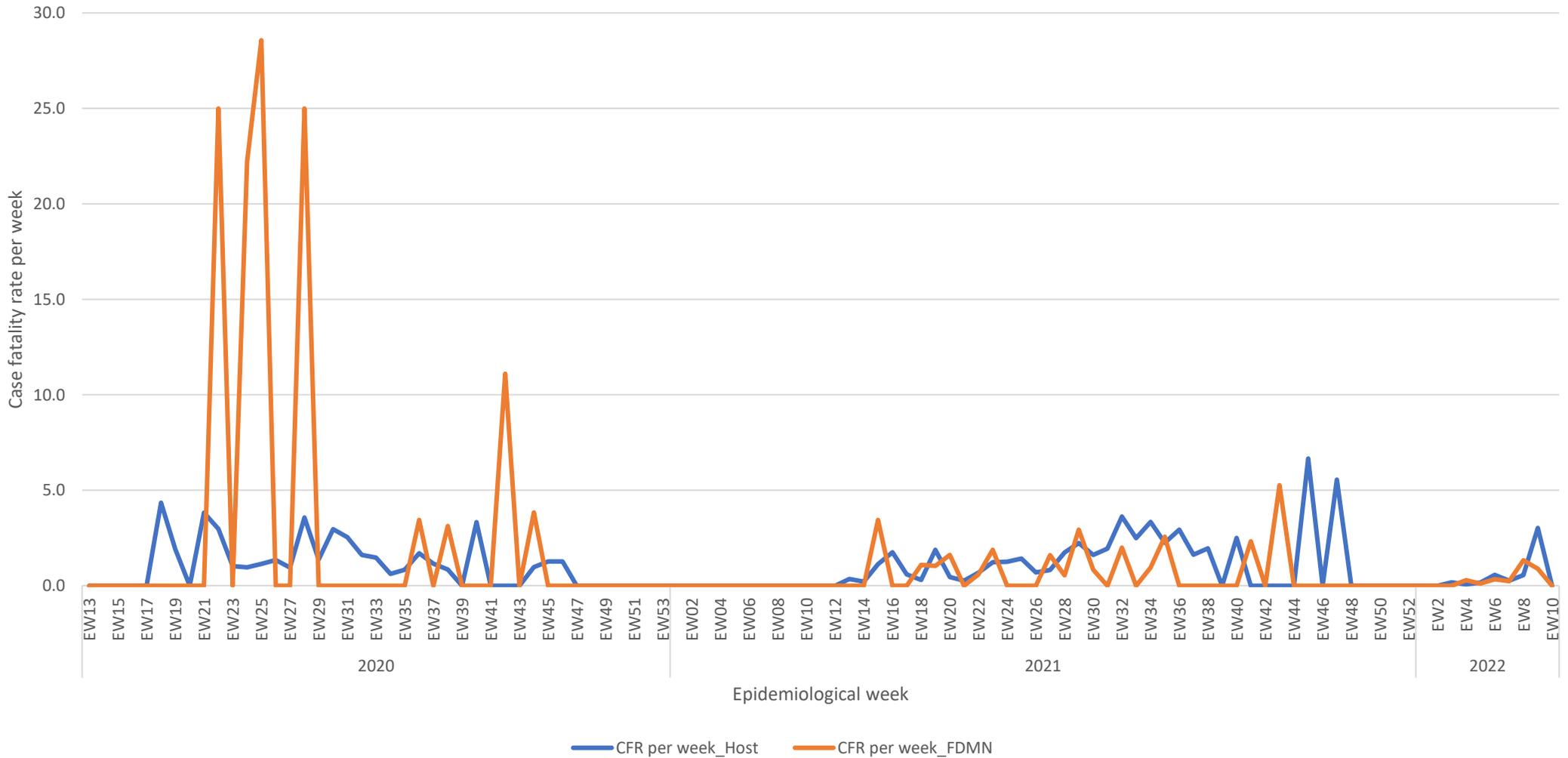
Case with at least 1 co-morbidity (n=4,748)



Source: Go.Data

Highlights: COVID-19

Weekly trend of case fatality rate (CFR)
(number of death in Host-269, CFR -1.1%; FDMN/Rohingya Refugees- 42, CFR -0.7%)



Highlights: COVID-19

Contact Tracing of COVID-19:

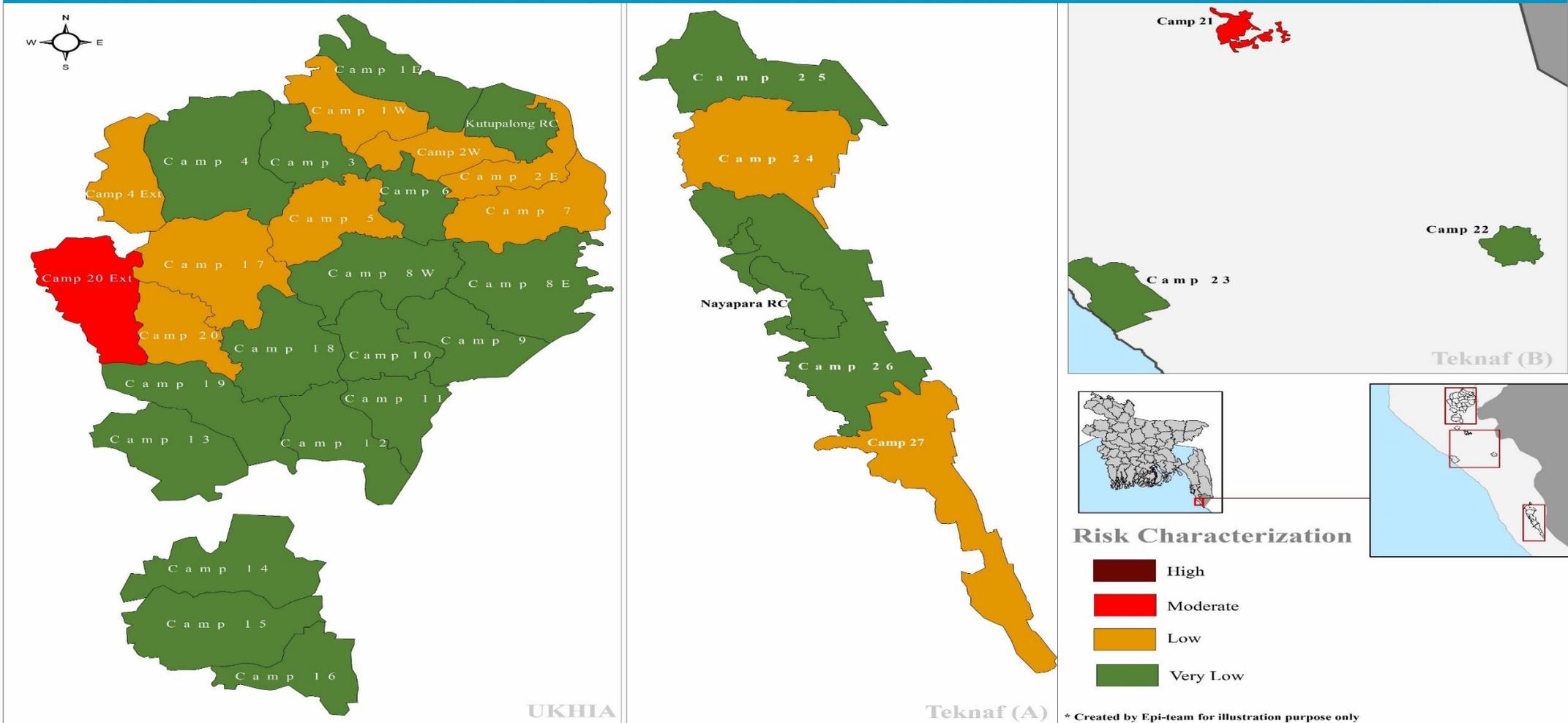
- Total 4,752 (out of 5,846) of the confirmed cases have been investigated by the Rapid Investigation and Response Team (RIRTs) and submitted in the go data while almost 1094 cases have been investigated but not updated in the go.data
- Contact tracing continues to be undertaken by CT supervisors with 11,592 (70.5%) contacts registered for follow-up in the Go.Data out of 16,441 total contacts so far were identified during the field investigation.
- 8,672 (75%) contacts registered in the go.data have successfully accomplished the 14-days follow-up.
- 359 household contacts tested positive within the incubation period.

Source: Go.Data

Highlights: COVID-19

Risk Assessment of COVID-19 in FDMN/Rohingya Refugee camps

As of Week 09 to 10



* Created by Epi-team for illustration purpose only

High: TPR $\geq 20\%$ and incidence >150 cases/1m population
 Moderate: TPR $10\text{--}20\%$ and incidence $50\text{--}150$ cases/1m population
 Low: TPR $5\text{--}10\%$ and incidence $20\text{--}50$ cases/1m population
 Very low: TPR $<5\%$ and incidence <20 cases/1m population

EWARS Reporting Updates

- Currently, a total of 166 health facilities are registered in EWARS
 - Only 144/166 weekly reports were received on time in week 10
 - Timeliness of reporting for this week was 87%
 - Seventy-three (73) alerts were triggered
 - All alerts were reviewed and verified by the WHO EWARS team; this was a drop from the previous week (83 alerts in week 9, 2022).

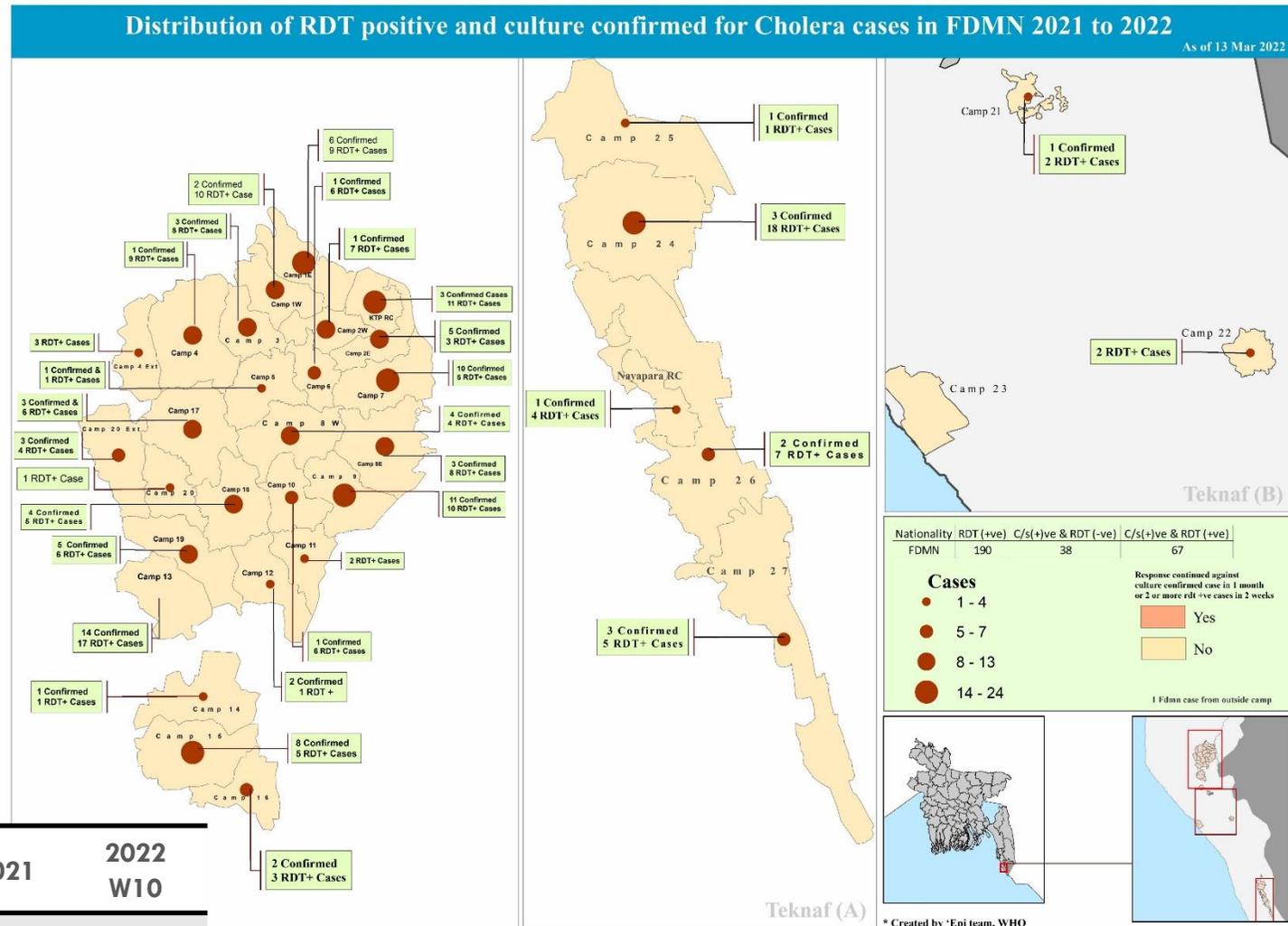
Highlights: Morbidities and Mortalities

- Acute Respiratory Infections (17.3%), Diarrheal Diseases (3.4%) & Injury and wounds (2.1%) were the diseases and health conditions with the highest proportional morbidity in week 10.
- Monitoring of suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020.
- This Epi week, there were five (5) suspected SARI deaths reported as highlighted below:

Year	Suspected SARI death reported	Reclassified as death due to probable COVID-19
2022	40	5
2021	96	15
2020	49	2

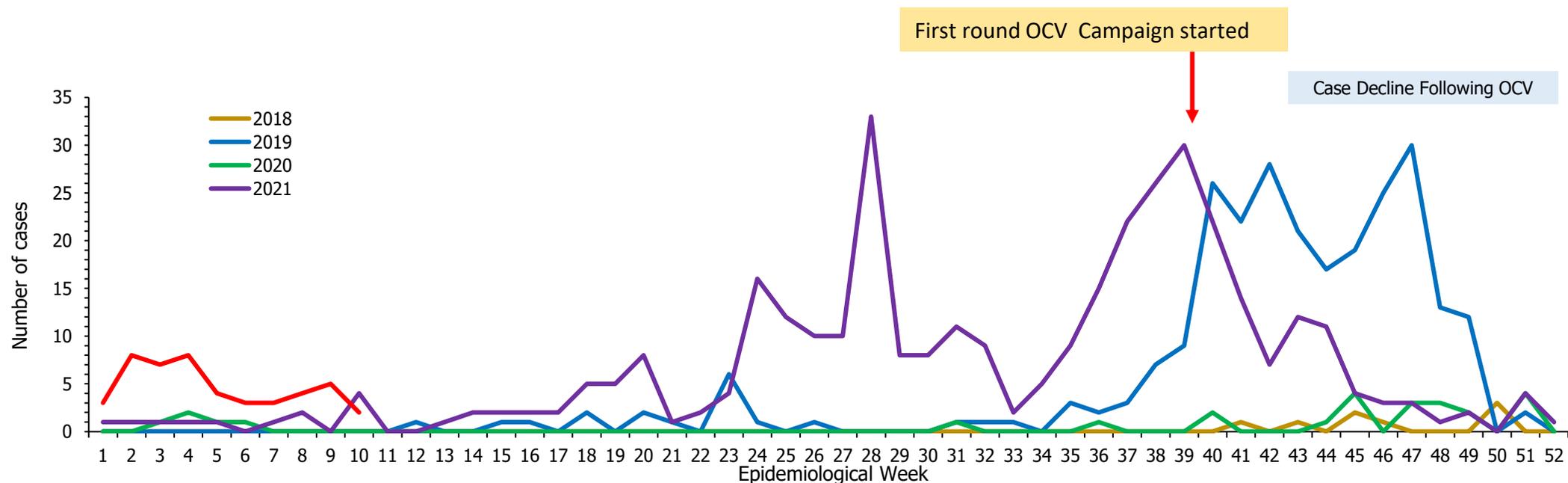
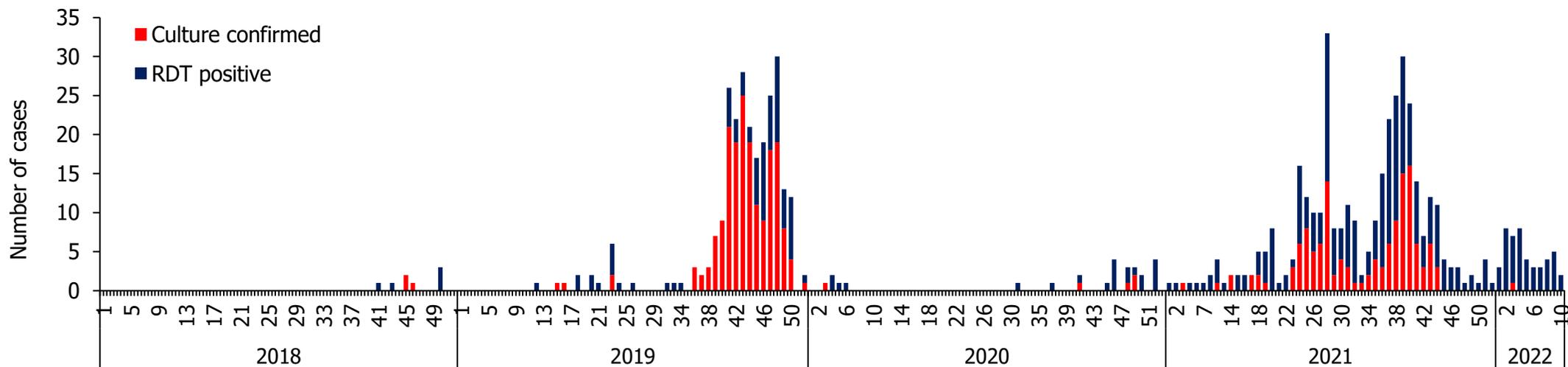
Cholera/AWD Surveillance Updates

- In this week, two (2) RDT positive cases were reported, among samples sent for testing.
- In 2022 total of forty-seven (47) RDT Confirmed cholera cases were reported as of W10 2022. Of these one (1) was positive for culture, 40 were negative for culture, and seven (7) awaiting laboratory confirmation.
- Cumulatively there are 739 RDT and culture-confirmed cholera cases of which 333 cases were culture-confirmed since transmission in 2018



	2018	2019	2020	2021	2022 W10
RDT positive/culture confirmed for Cholera	49	258	28	357	47
Culture confirmed for Cholera	7	184	5	136	1

Epidemic curve of cholera, Cox's Bazar District, 2017-2022 (W10)

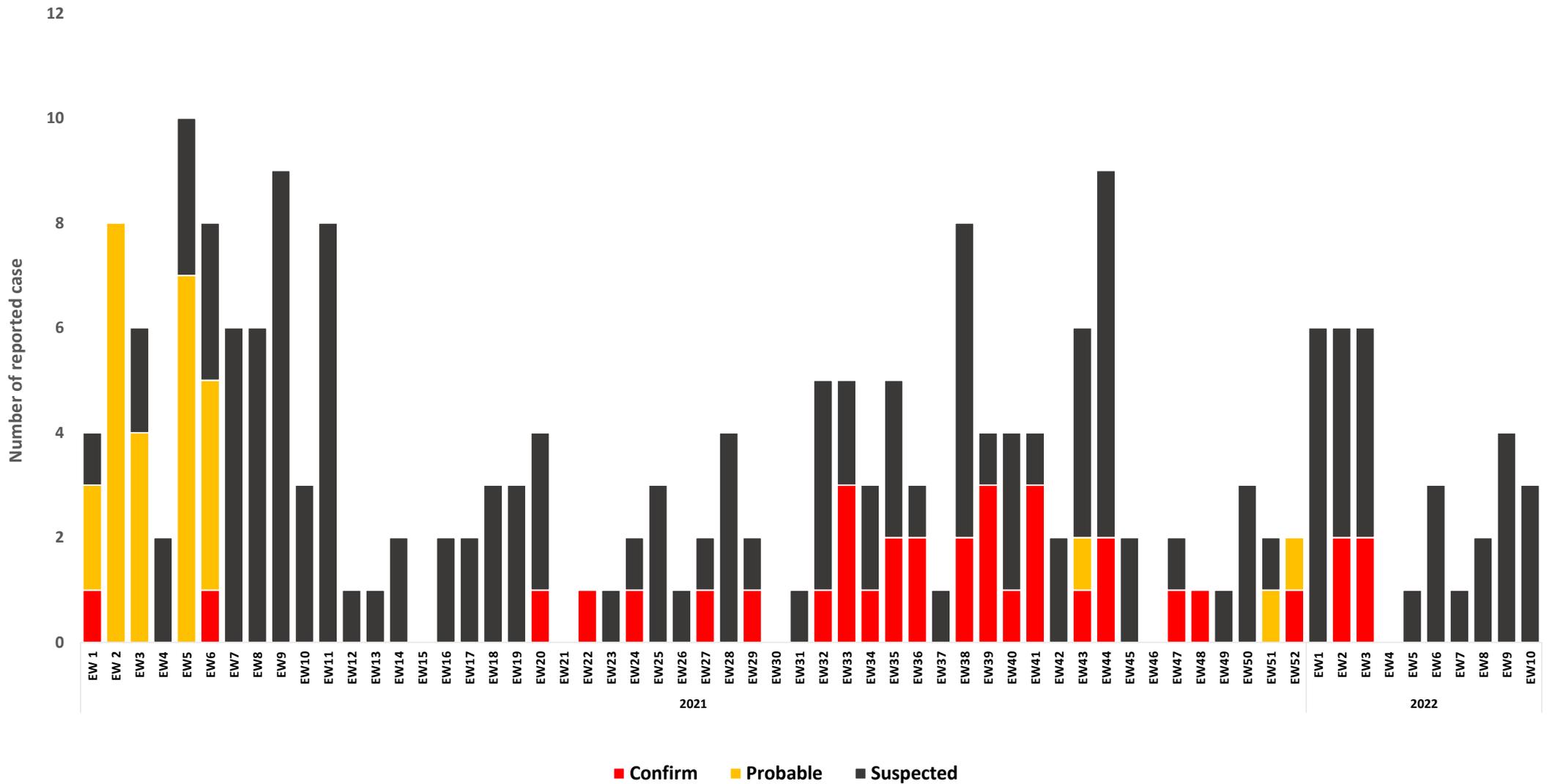


Diphtheria Surveillance Updates

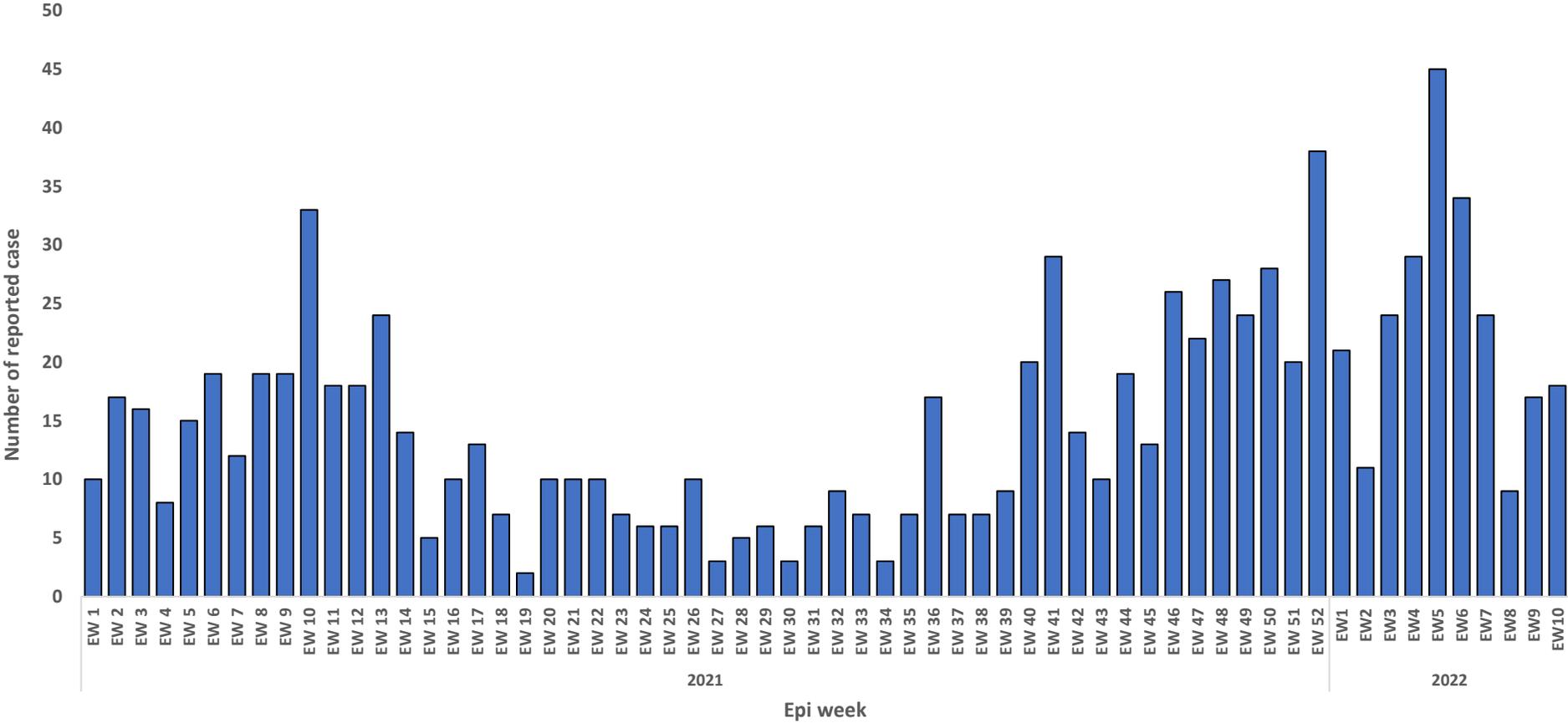
- Three (3) suspected diphtheria cases were reported in go.data in this Epi week
- The last confirmed case was reported on 19 January 2022
- In total 52 deaths have so far been reported since 2017, the last death reported on 5 November 2021

Classification	2017	2018	2019	2020	2021	2022
Confirmed	66	226	31	19	30	4
Probable	1154	1555	60	9	29	0
Suspected	1796	3549	523	198	118	28
Death	30	14	3	0	5	0

Trends of Diphtheria cases as of Epi Week 10, 2022



Epi Curve of Suspected Measles Cases as of Epi Week 10



- > In week 10, 18 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 232 reported in 2022.
- > About 52% (122/232) of the total suspected measles cases were reported through case-based reporting and samples collected for laboratory confirmation

Dengue Surveillance Updates

Year	Month/Epi Week	Confirmed case	Death	Confirmed case (cumulative)	Death (cumulative)
2021	Jan-Mar	1	0	1	0
	Apr-Jun	3	0	4	0
	Jul-Sep	6	0	10	0
	Oct-Dec	1,493	3	1,503	3
2022	Jan	184	0	1,687	3
	Feb	8	0	1,695	3
	W9 (28 Feb- 6 March)	2	0	1,697	3
	W10 (7-13 March)	0	0	1,697	3

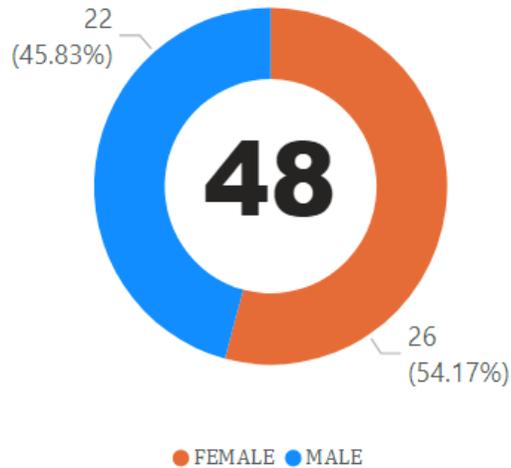
Community-based Mortality surveillance Updates

Probable Causes of Death	Week 10	In 2022
Still Birth	5 (10%)	51 (12%)
Neonatal Death (<28 days old)	2 (4%)	35 (8%)
Infectious Disease	1 (2%)	11 (3%)
Severe Acute Respiratory Infection (SARI)	3 (6%)	14 (3%)
Injury	1 (2%)	6 (1%)
Maternal Death	2 (4%)	13 (3%)
Acute Malnutrition	--	1 (0%)
Other	34 (71%)	287 (69%)
Total	48 (100%)	418 (100%)

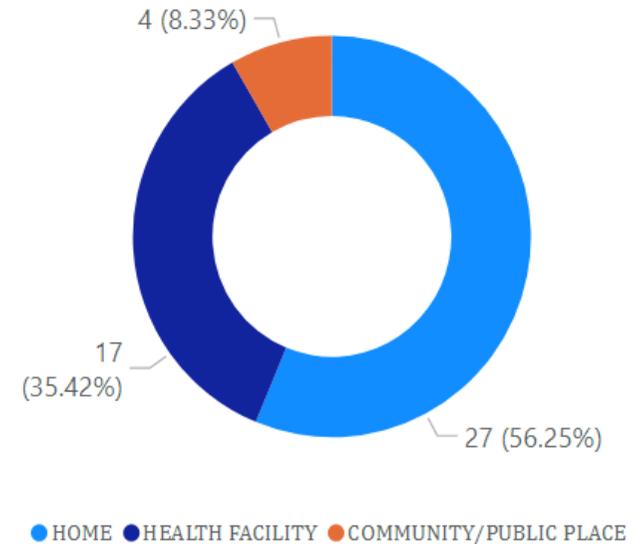
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable.

Community-based Mortality surveillance Updates

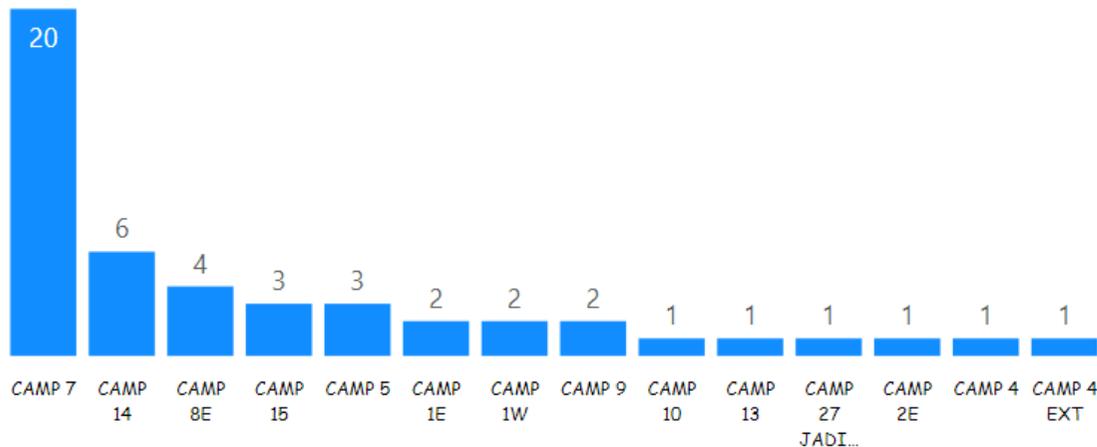
Gender distribution



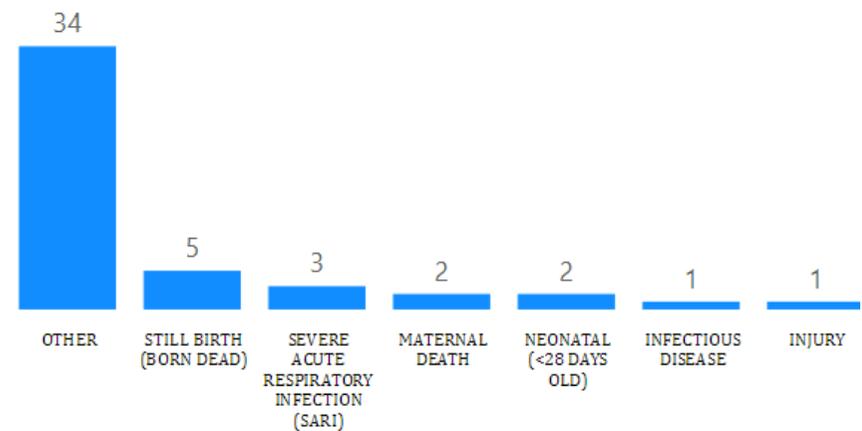
Place of death



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W10 2022



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



HEALTH SECTOR
COX'S BAZAR



Printed: 05:18 Thursday, 17 March 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

Table 1 | Coverage

#	%	
918,841	-	Estimated total Rohingya population ¹
902,066	98%	Total population under surveillance
175	-	Total number of health facilities
166	95%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W10	Cumulative (2022)	
144	1732	Number of weekly reports received
87%	95%	Completeness
87%	91%	Timeliness

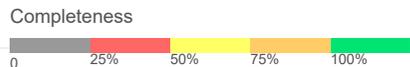
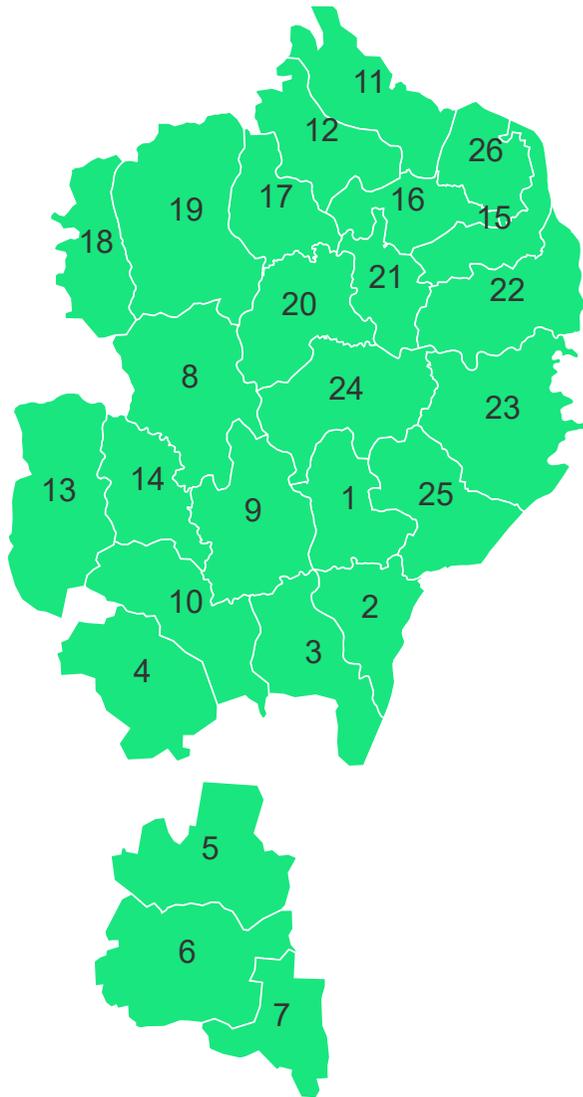
Table 3 Alert performance indicators

W10	Cumulative (2022)	
73	951	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 2020.

Map 1a | Ukhia 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 1E
- 12 Camp 1W
- 13 Camp 20 Ext
- 14 Camp 20
- 15 Camp 2E
- 16 Camp 2W
- 17 Camp 3
- 18 Camp 4 Ext
- 19 Camp 4
- 20 Camp 5
- 21 Camp 6
- 22 Camp 7
- 23 Camp 8E
- 24 Camp 8W
- 25 Camp 9
- 26 Kutupalong RC



Map 1b | Teknaf 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

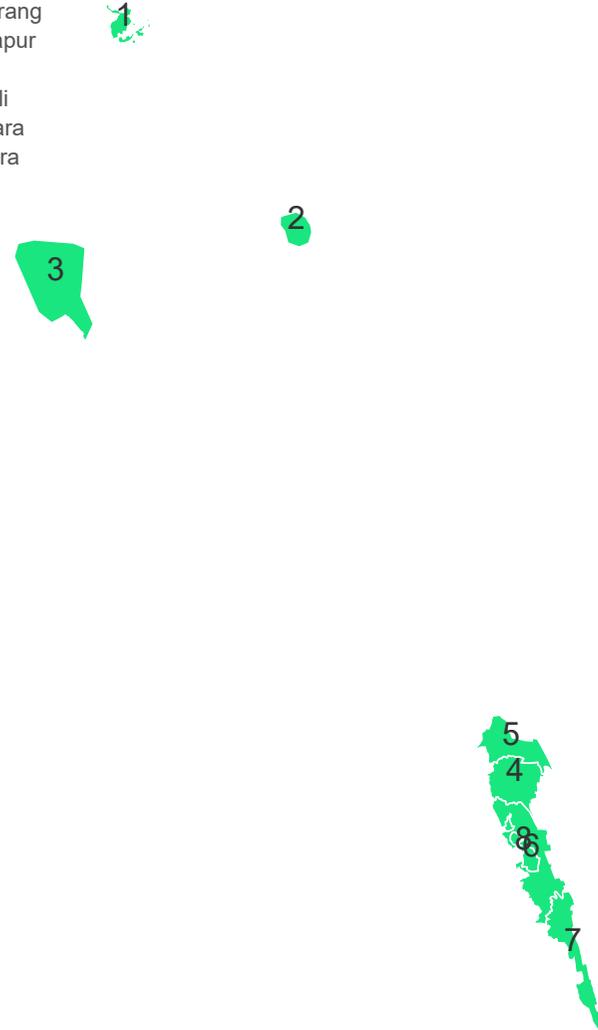


Table 4 | Performance by camp (W10 2022)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	4	100%	100%
Camp 1W	5	5	100%	100%
Camp 2E	3	2	67%	67%
Camp 2W	3	3	100%	100%
Camp 3	6	5	83%	83%
Camp 4	5	5	100%	100%
Camp 4 Ext	1	1	100%	100%
Camp 5	5	5	100%	100%
Camp 6	3	3	100%	100%
Camp 7	5	5	100%	100%
Camp 8E	7	7	100%	100%
Camp 8W	4	4	100%	100%
Kutupalong RC	2	2	100%	100%

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

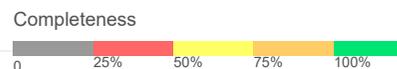
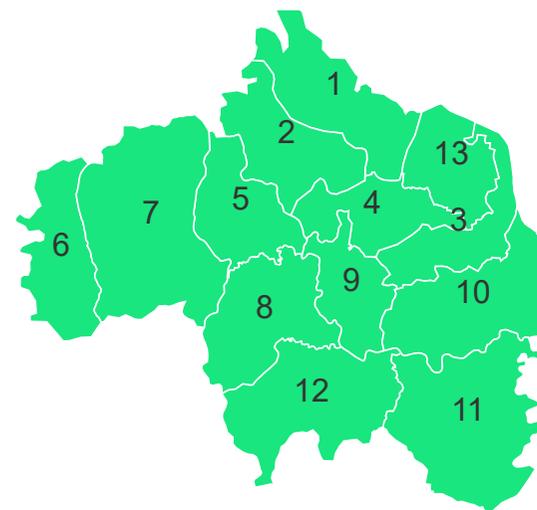


Table 5 | Performance by camp (W10 2022)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	3	75%	75%
Camp 11	7	7	100%	100%
Camp 12	6	6	100%	100%
Camp 13	10	9	90%	90%
Camp 14	7	6	86%	86%
Camp 15	9	7	78%	78%
Camp 16	7	6	86%	86%
Camp 17	5	3	60%	60%
Camp 18	5	4	80%	80%
Camp 19	5	5	100%	100%
Camp 20	3	3	100%	100%
Camp 20 Ext	3	3	100%	100%
Camp 9	6	5	83%	83%

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

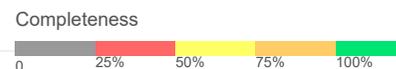
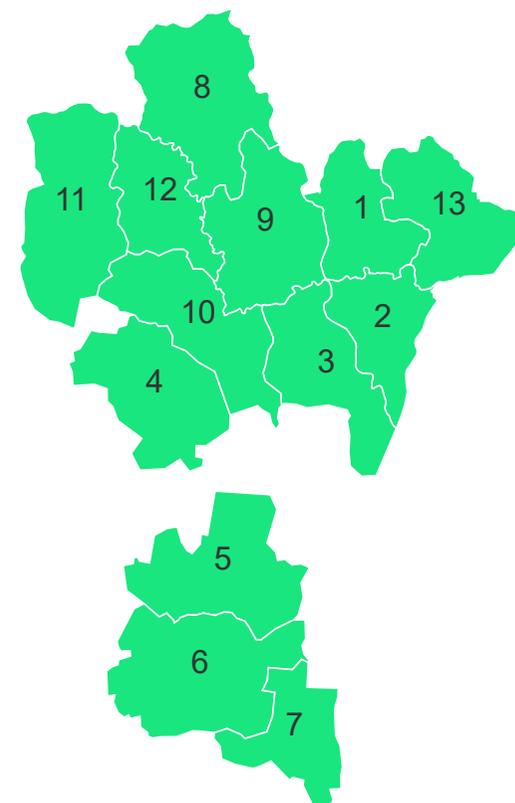


Table 6 | Performance by camp (W10 2022)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	4	3	75%	75%
Camp 22 Unchiprang	5	3	60%	60%
Camp 23 Shamlapur	3	1	33%	33%
Camp 24 Leda	2	1	50%	50%
Camp 25 Ali Khali	3	2	67%	67%
Camp 26 Nayapara	4	3	75%	75%
Camp 27 Jadimura	2	2	100%	100%
Nayapara RC	2	2	100%	100%

Map 4 | Completeness by camp

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

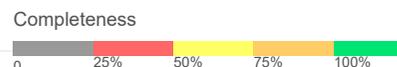
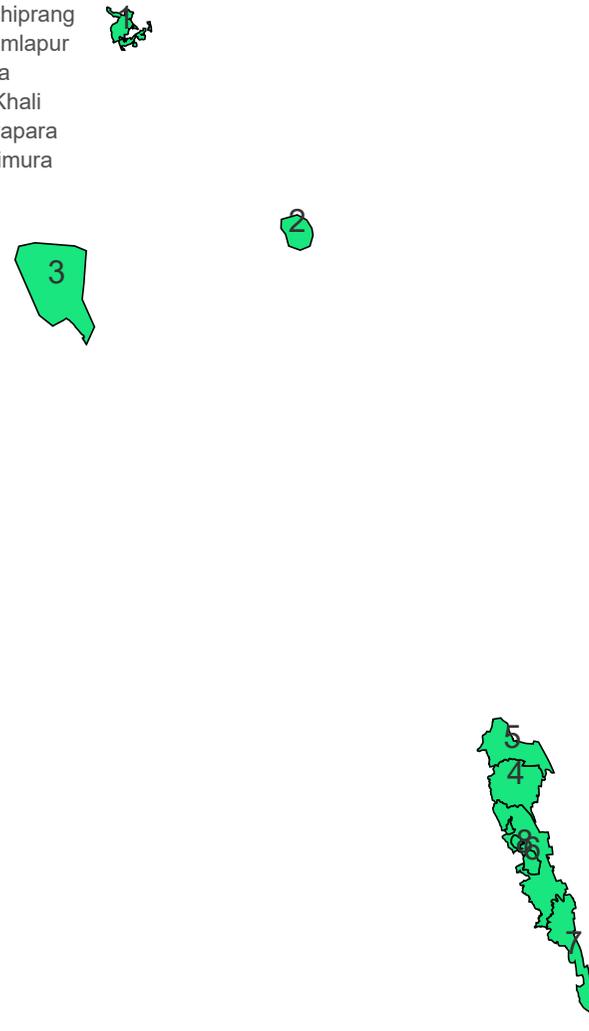


Table 7 | Performance by partner (W10 2022)

Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	1	1	100%	100%	IRC	2	0	0%	0%
AWARD	7	7	100%	100%	MSF	9	6	67%	67%
BASHMAH	1	1	100%	100%	MoH	15	12	80%	80%
BDRCS	12	10	83%	83%	MHI	0	0		
BRAC	11	11	100%	100%	Medair	2	2	100%	100%
CARE	4	4	100%	100%	FH/MTI	3	3	100%	100%
DAM	0	0			PRANTIC	1	1	100%	100%
DBC	1	1	100%	100%	PULSE	1	1	100%	100%
DSK	1	0	0%	0%	QC	1	0	0%	0%
DCHT-PWJ	1	1	100%	100%	PHD	10	8	80%	80%
FRNDS	6	6	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	67%	67%
GUSS	1	1	100%	100%	RTMI	9	8	89%	89%
HAEFA	2	2	100%	100%	SALT	1	1	100%	100%
HAIB	8	6	75%	75%	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	1	100%	100%	TdH	2	2	100%	100%
IOM	18	16	89%	89%					

Table 8 | Performance by camp

Northern group	W10		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	1	100%	14	100%
Camp 1W	6	100%	38	100%
Camp 2E	8	100%	104	100%
Camp 2W	3	100%	28	100%
Camp 3	0	0%	46	100%
Camp 4	3	100%	40	100%
Camp 4 Ext	2	100%	14	100%
Camp 5	3	100%	38	100%
Camp 6	4	100%	27	100%
Camp 7	2	100%	22	100%
Camp 8E	4	100%	16	100%
Camp 8W	2	100%	48	100%
Kutupalong RC	0	0%	18	100%

Map 5 | Number of alerts by camp

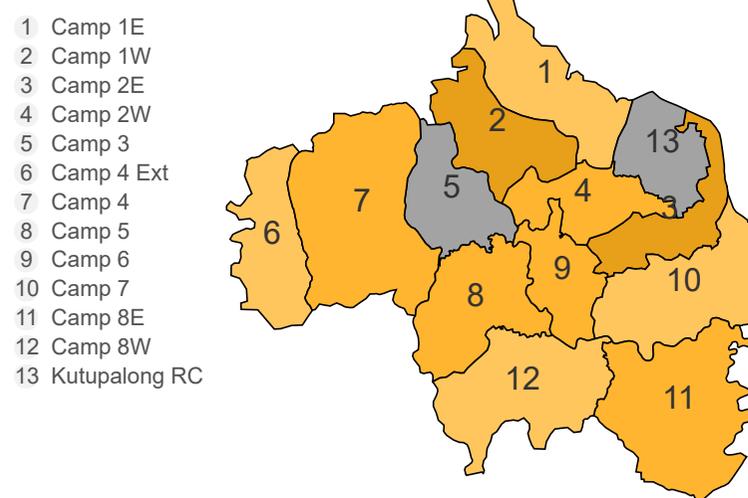


Table 9 | Performance by camp

Southern group	W10		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	1	100%	16	100%
Camp 11	1	100%	29	100%
Camp 12	0	0%	31	100%
Camp 13	6	100%	40	100%
Camp 14	1	100%	17	100%
Camp 15	1	100%	25	100%
Camp 16	2	100%	34	100%
Camp 17	1	100%	17	100%
Camp 18	2	100%	43	100%
Camp 19	0	0%	12	100%
Camp 20	1	100%	15	100%
Camp 20 Ext	0	0%	12	100%
Camp 9	2	100%	41	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

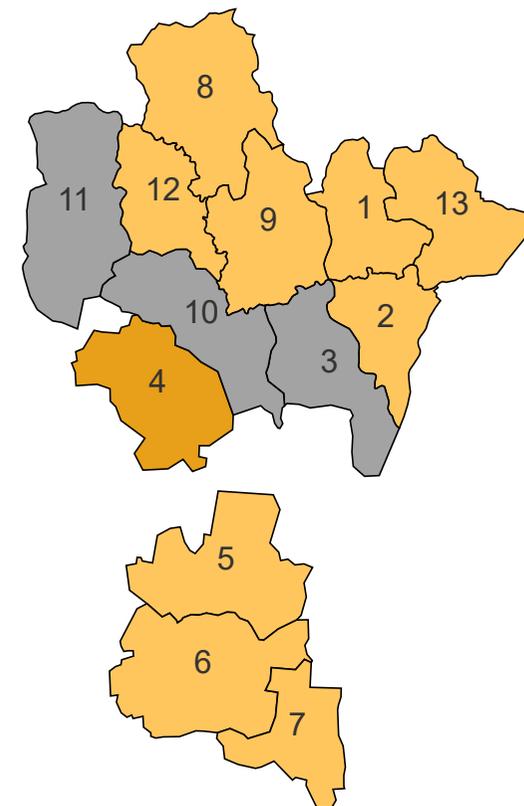


Table 10 | Performance by camp

Teknaf	W10		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	0	0%	14	100%
Camp 22 Unchiprang	1	100%	22	100%
Camp 23 Shamlapur	2	100%	5	100%
Camp 24 Leda	0	0%	18	100%
Camp 25 Ali Khali	0	0%	8	100%
Camp 26 Nayapara	7	100%	41	100%
Camp 27 Jadimura	3	100%	21	100%
Nayapara RC	0	0%	9	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

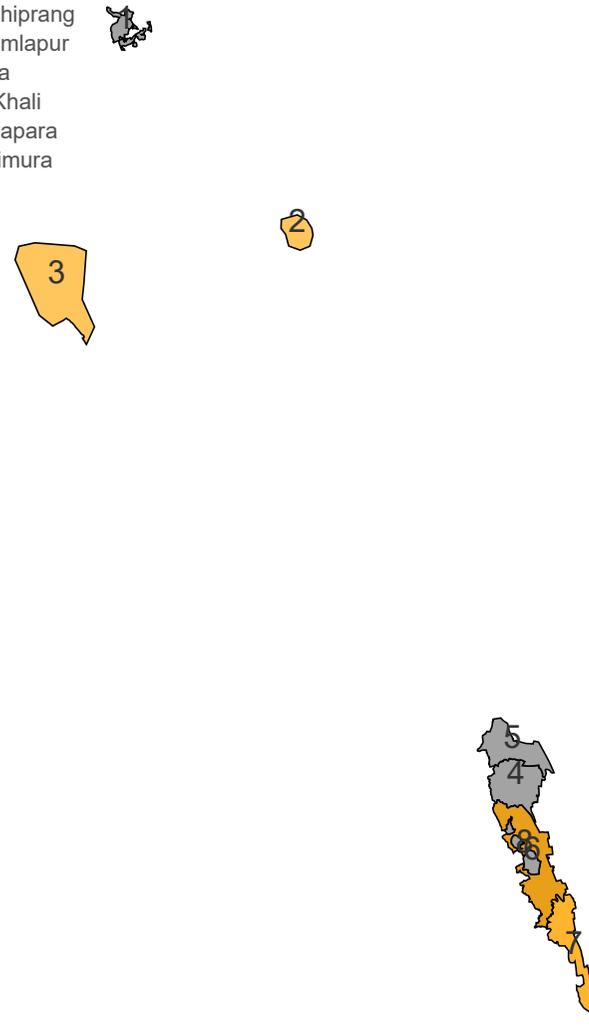


Table 11 | Performance by type of alert

Event	W10		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	2	100%
Measles	11	100%	147	100%
Bloody Diarr.	0	0%	0	0%
AFP	1	100%	10	100%
Meningitis	0	0%	5	100%
Haem. fever (susp.)	1	100%	3	100%
NNT	1	100%	3	100%
Unexp. fever	3	100%	43	100%
AWD	3	100%	65	100%
ARI	3	100%	66	100%
AJS	1	100%	15	100%
Varicella (Susp.)	12	100%	41	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	8	100%	74	100%

Table 12 | Risk assessment

W10	Cumulative (2022)	
0	4	Low risk
0	0	Moderate risk
0	0	High risk
0	0	Very high risk

For more help and support, please contact:

Dr. Sakia Haque
Medical Officer - Civil Surgeon Office (MO-CS)
Ministry of Health and Family Welfare
Cox's Bazar, Bangladesh

Telephone: +88 01780472442

Email: drsakiahaque@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

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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



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Annex W10 2022



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



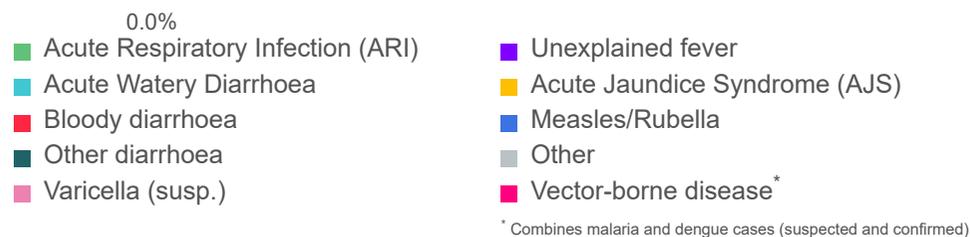
HEALTH SECTOR
COX'S BAZAR



Printed: 05:21 Thursday, 17 March 2022 UTC

Proportional morbidity

Figure 1 | Proportional morbidity (W10 2022)



Disease	W10		2022	
	# cases	% morbidity	# cases	% morbidity
AWD	1,899	2.0%	27,324	2.4%
Bloody diarr.	371	0.4%	4,474	0.4%
Other diarr.	944	1.0%	11,129	1.0%
Susp. Varicella	576	0.6%	2,117	0.2%
ARI	16,606	17.3%	222,708	19.3%
Measles/Rub.	18	0.0%	275	0.0%
AFP	8	0.0%	25	0.0%
Susp. menin.	0	0.0%	23	0.0%
AJS	9	0.0%	155	0.0%
Susp. HF	3	0.0%	17	0.0%
Neo. tetanus	4	0.0%	8	0.0%
Adult tetanus	0	0.0%	1	0.0%
Malaria (conf.)	0	0.0%	206	0.0%
Malaria (susp.)	924	1.0%	21,378	1.9%
Dengue (conf.)	1	0.0%	381	0.0%
Dengue (susp.)	5	0.0%	300	0.0%
Unexpl. fever	732	0.8%	14,661	1.3%
Sev. Malnut.	32	0.0%	633	0.1%
Inj./Wounds	1,975	2.1%	22,634	2.0%
Other	71,914	74.8%	825,503	71.4%
Total	95,432	100%	1,155,362	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W10)

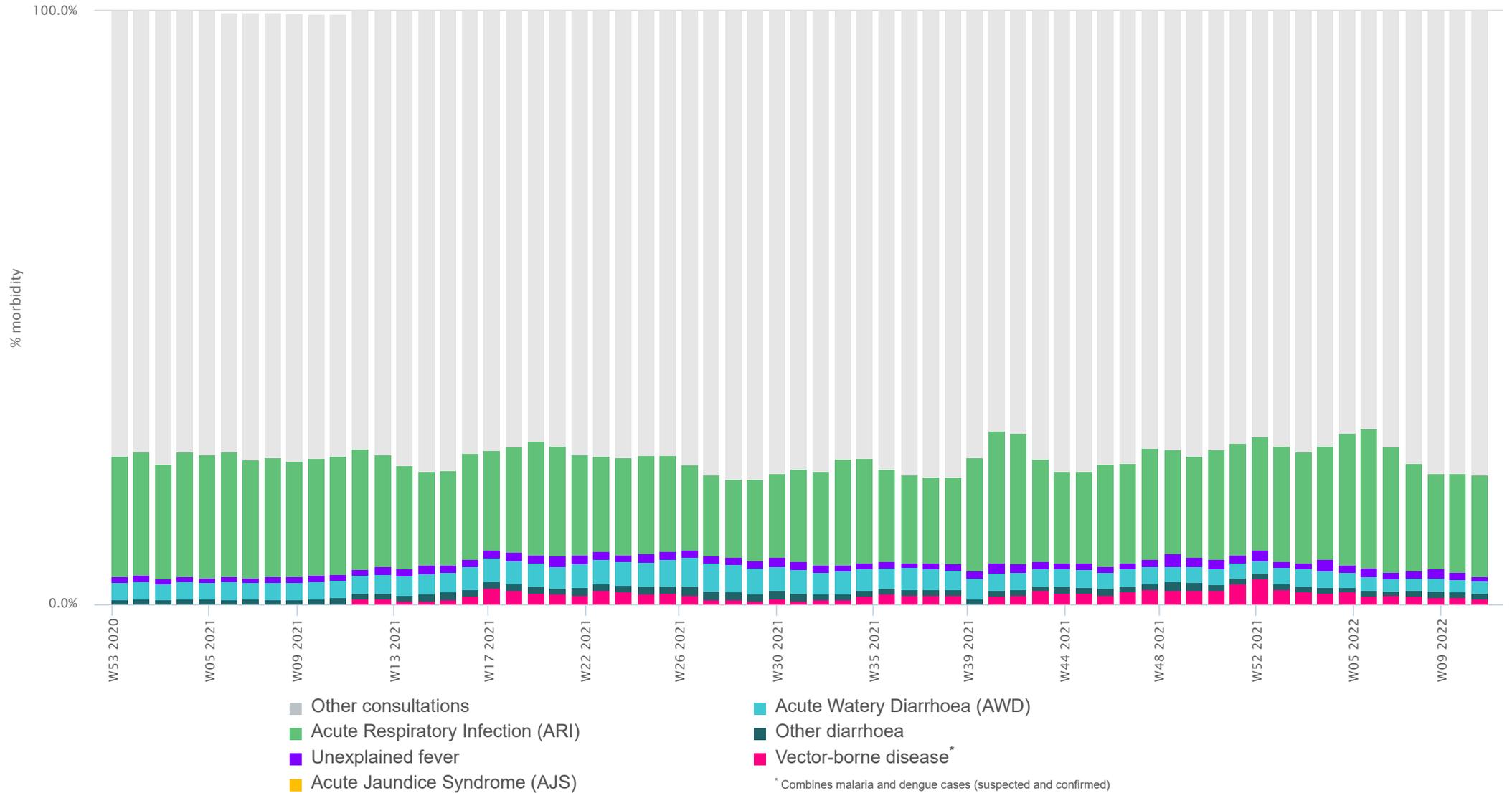
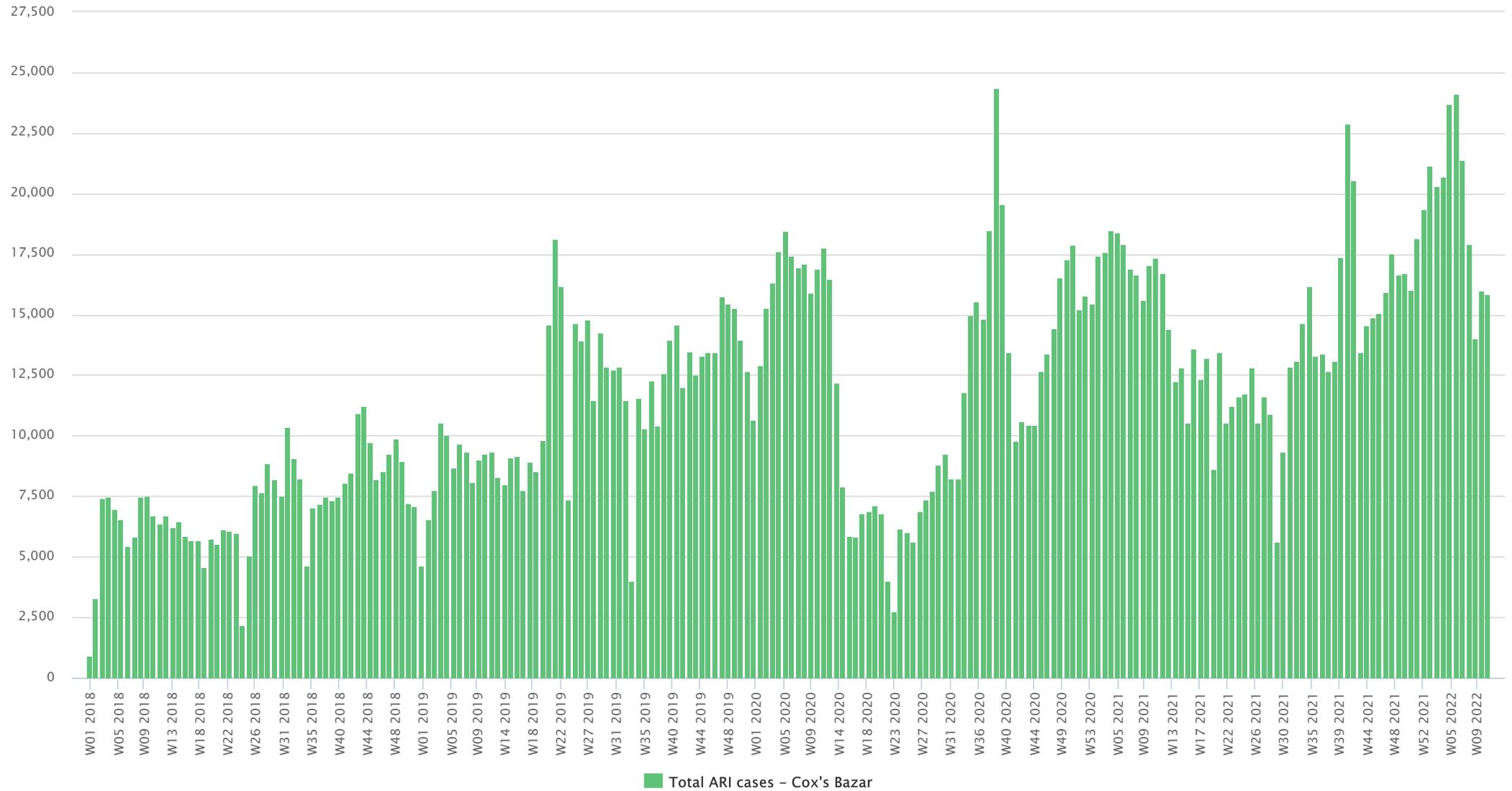
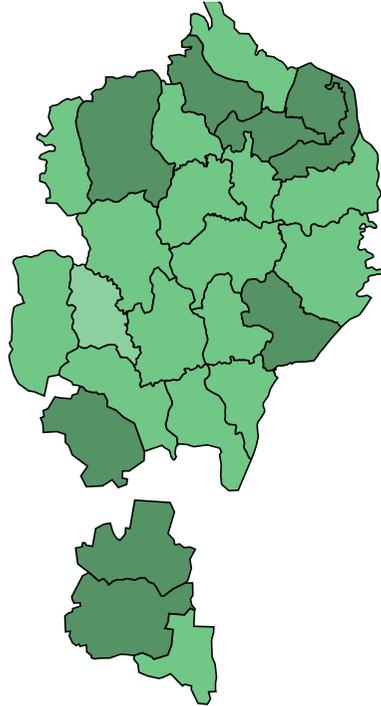


Figure 3 | Trend in number of cases over time (W38 2017 - W10 2022)

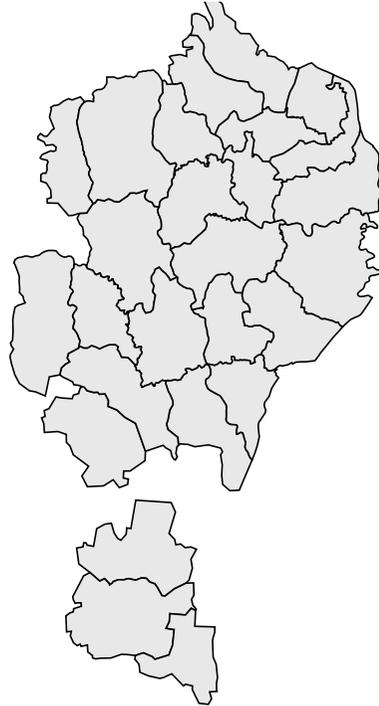


Map 1 | Map of cases by camp (W10 2022)

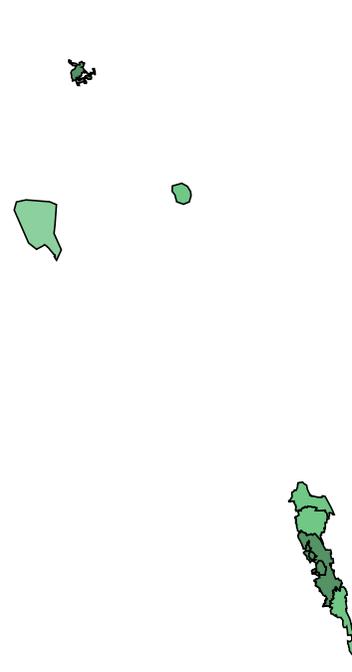
a. Ukhia | Number of cases



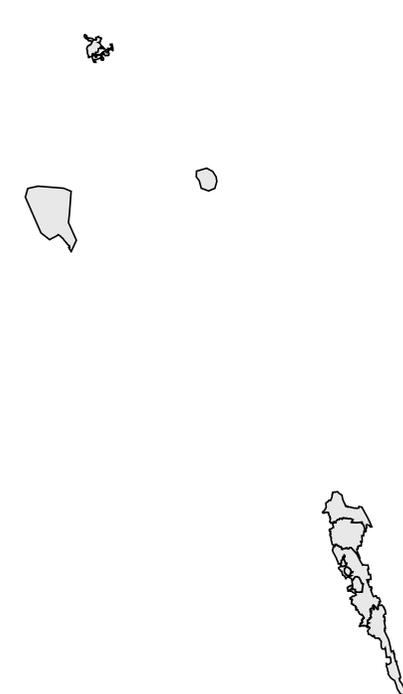
b. Ukhia | Number of alerts



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 (W10 2022)

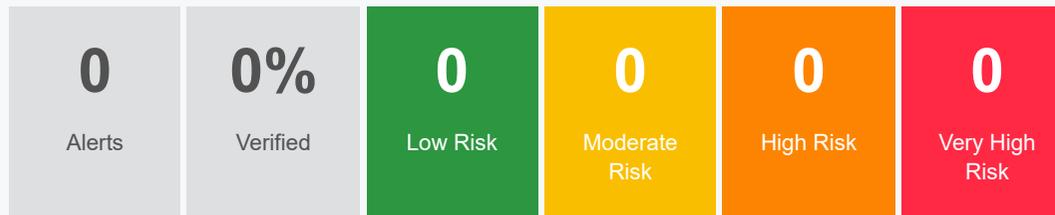


Figure | % sex



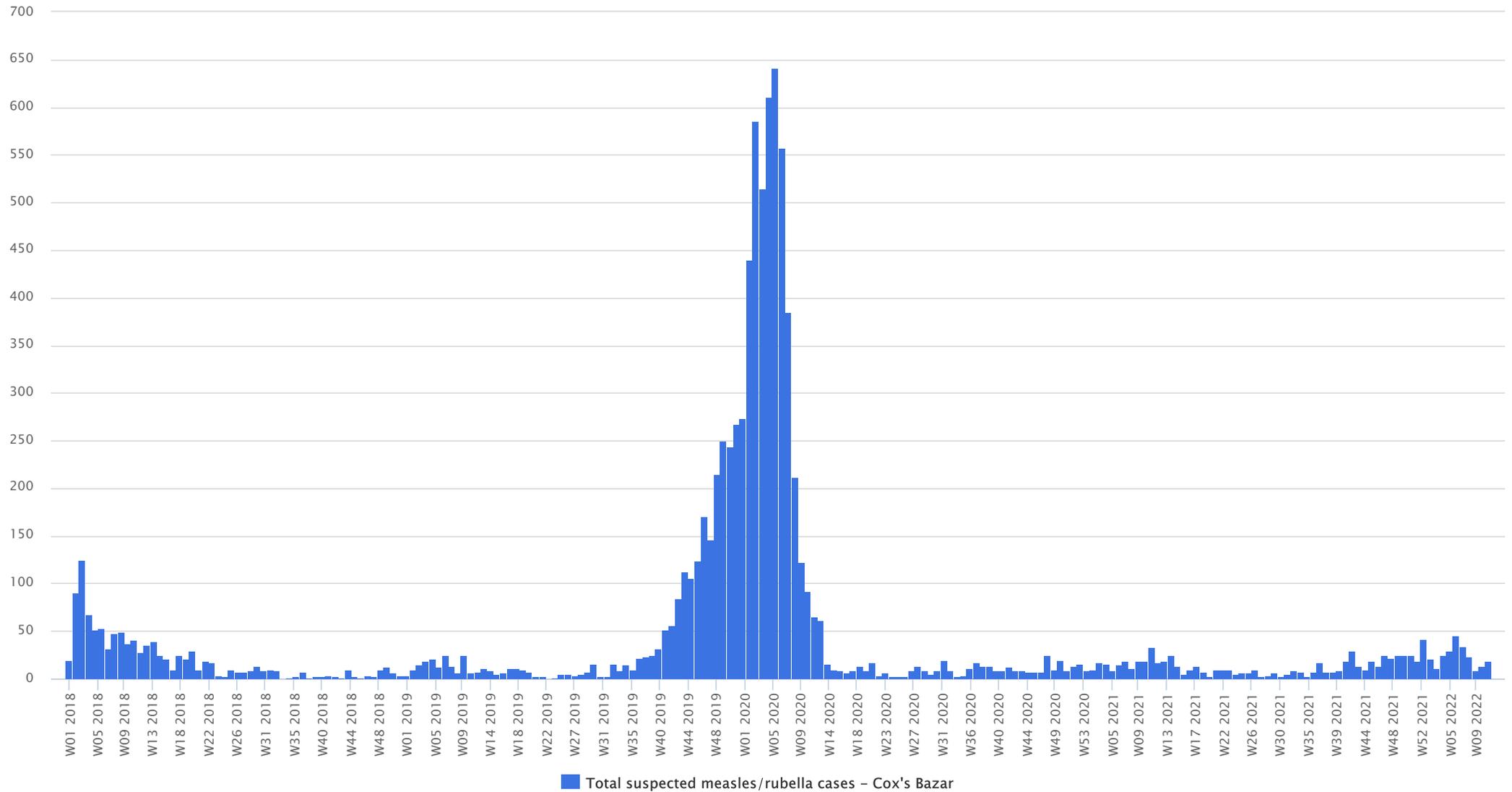
Female Male

Figure | % age



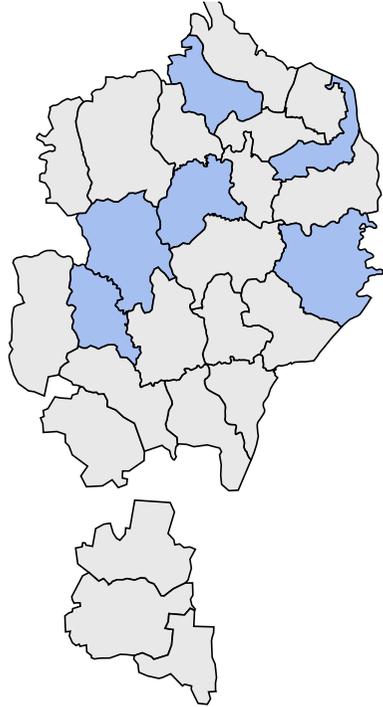
>=5 <5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W10 2022)

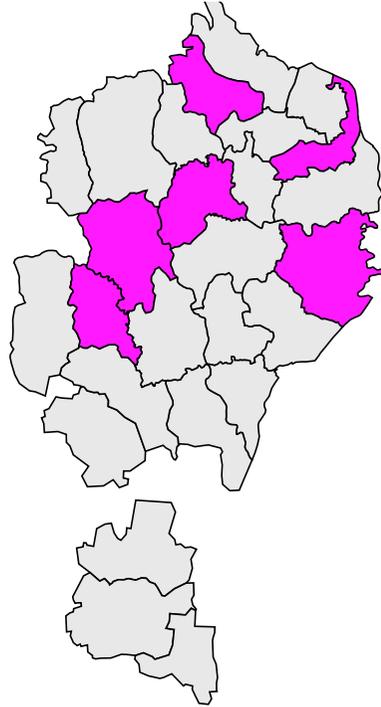


Map 2 | Map of cases by camp (W10 2022)

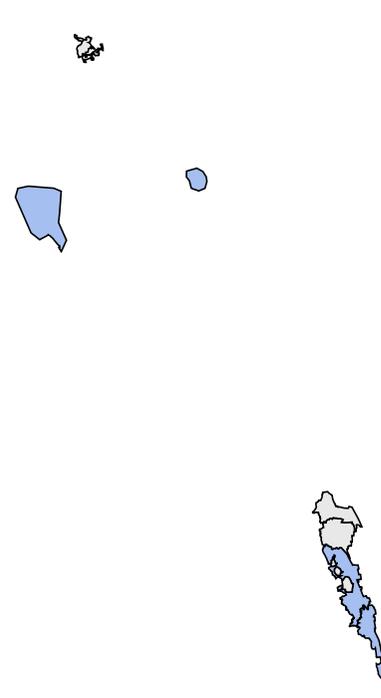
a. Ukhia | Number of cases



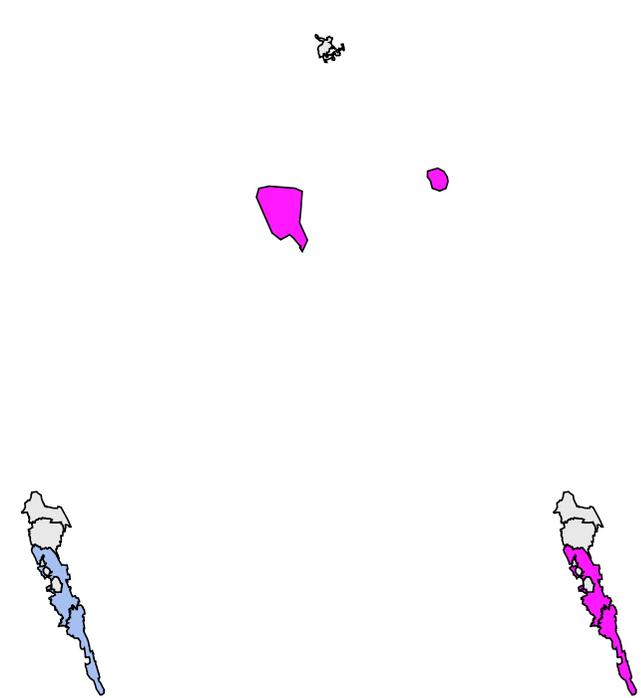
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W10 2022)

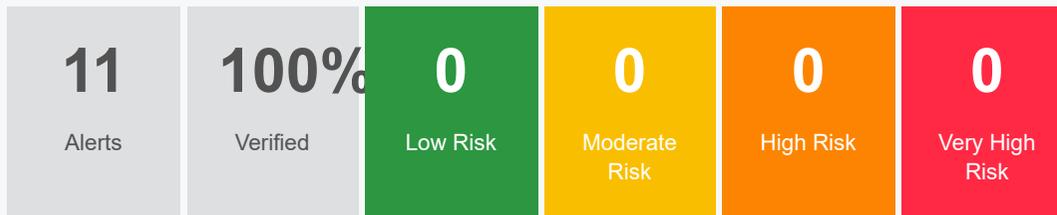


Figure | % sex

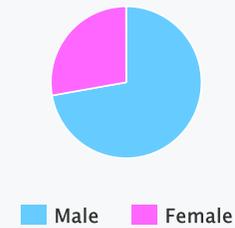


Figure | % age

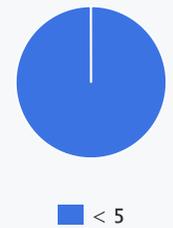
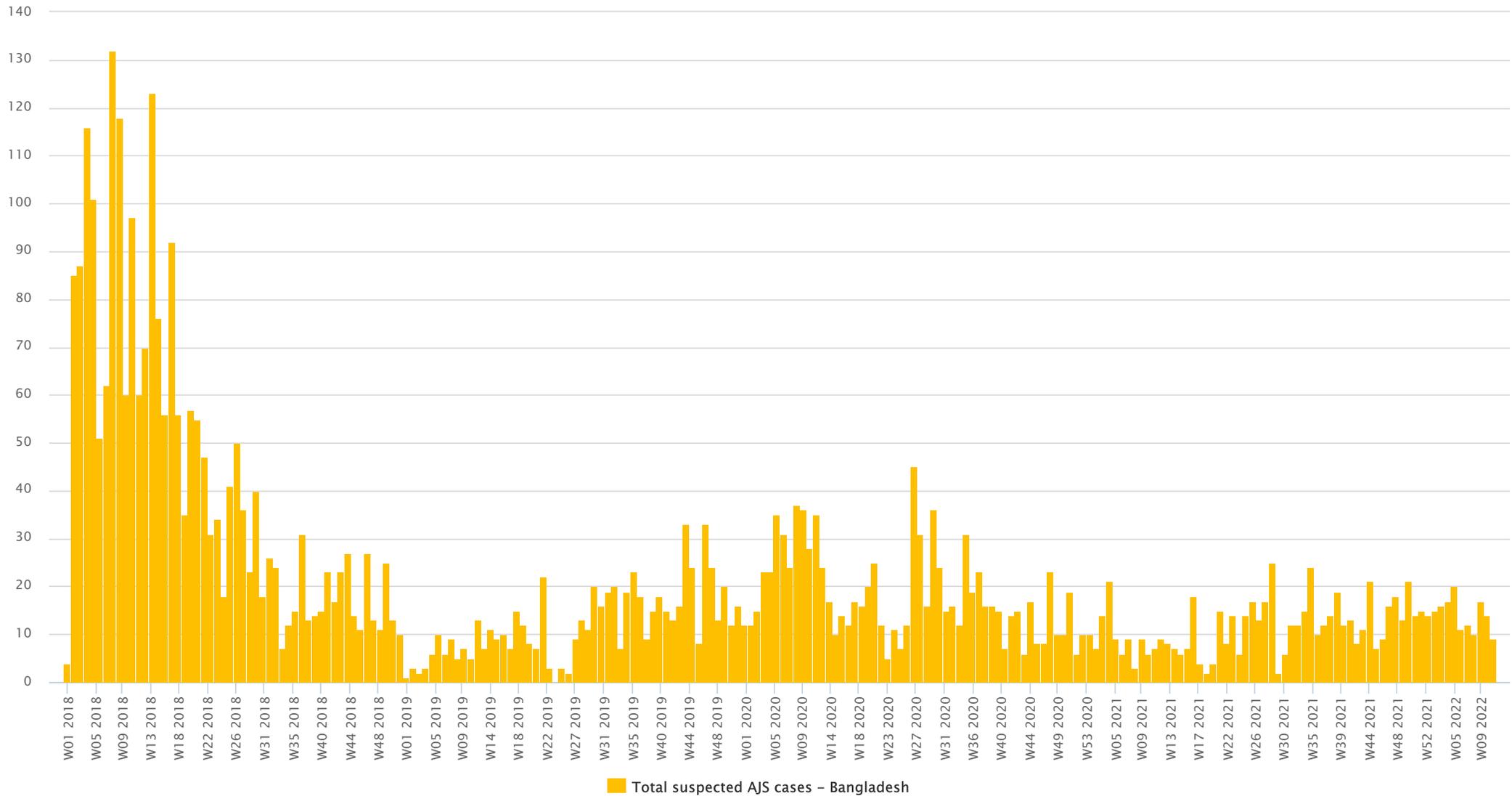
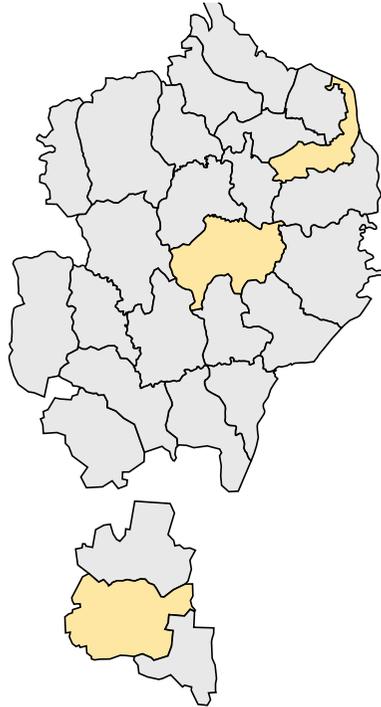


Figure 5 | Trend in number of cases over time (W38 2017 - W10 2022)

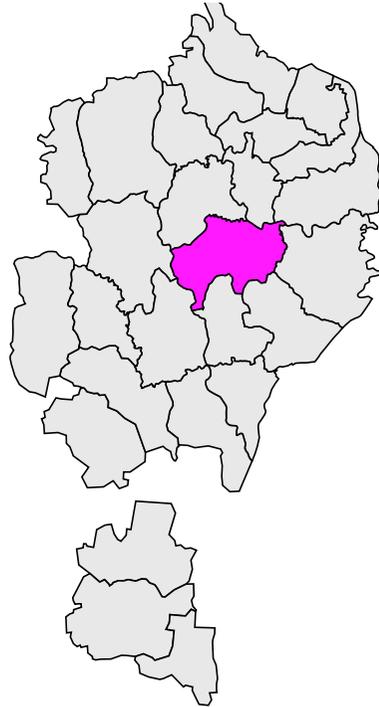


Map 3 | Map of cases by camp (W37 2017 - W10 2022)

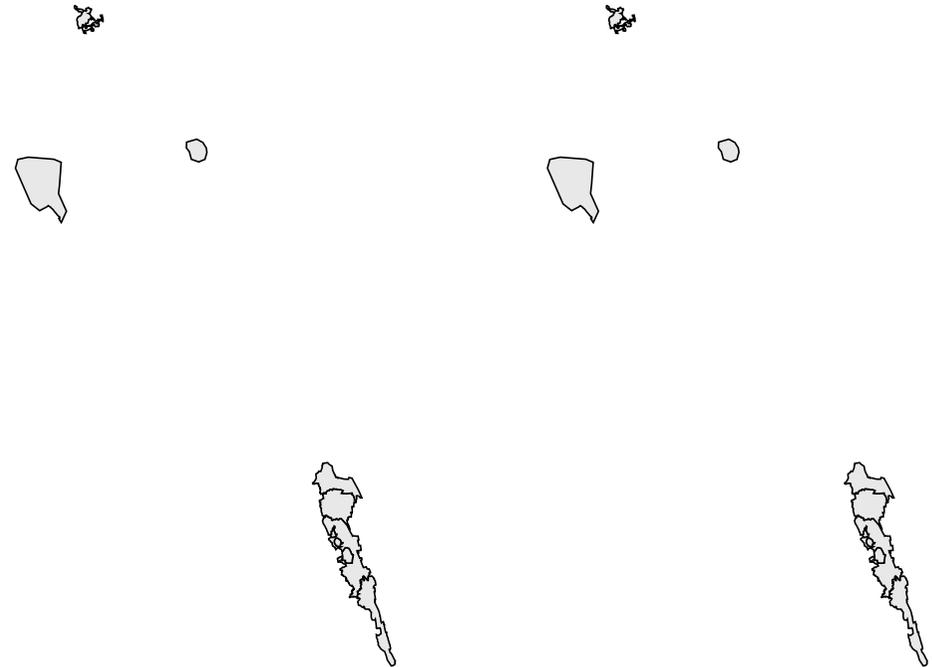
a. Ukhia | Number of cases



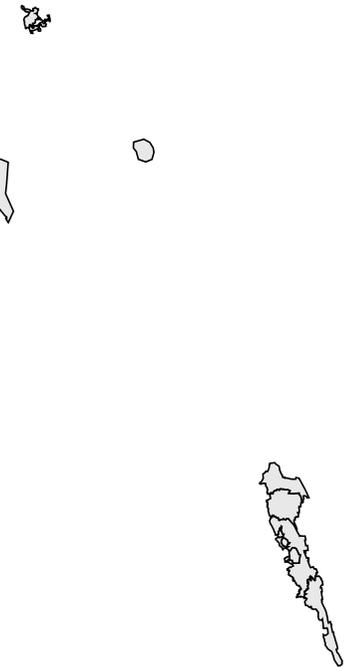
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



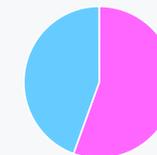
Alert threshold

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

Alert management (W10 2022)

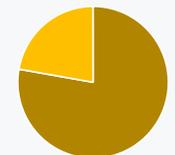


Figure | % sex



Female Male

Figure | % age



>= 5 < 5

Figure 6 | Trend in number of cases over time (W38 2017 - W10 2022)

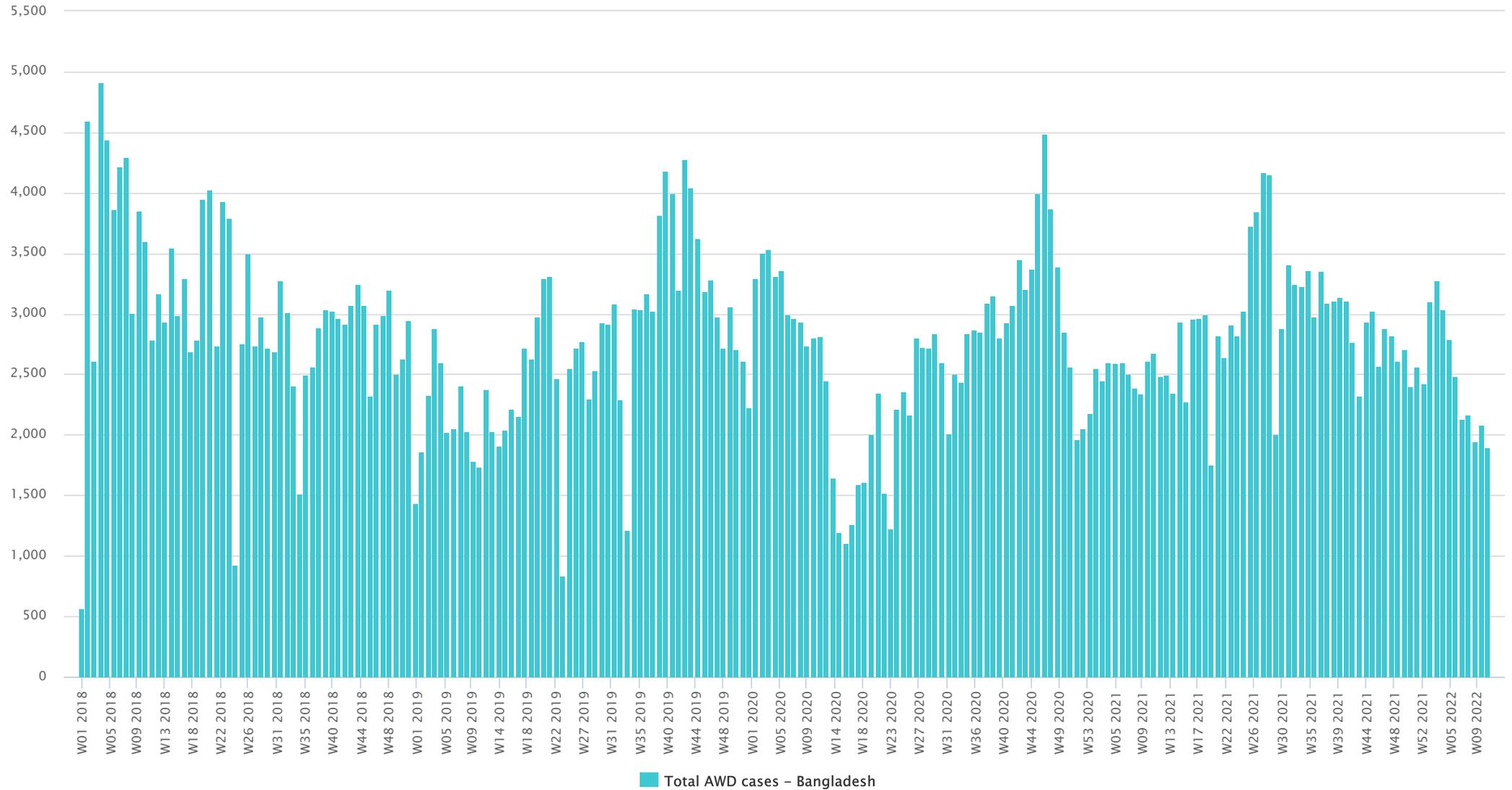
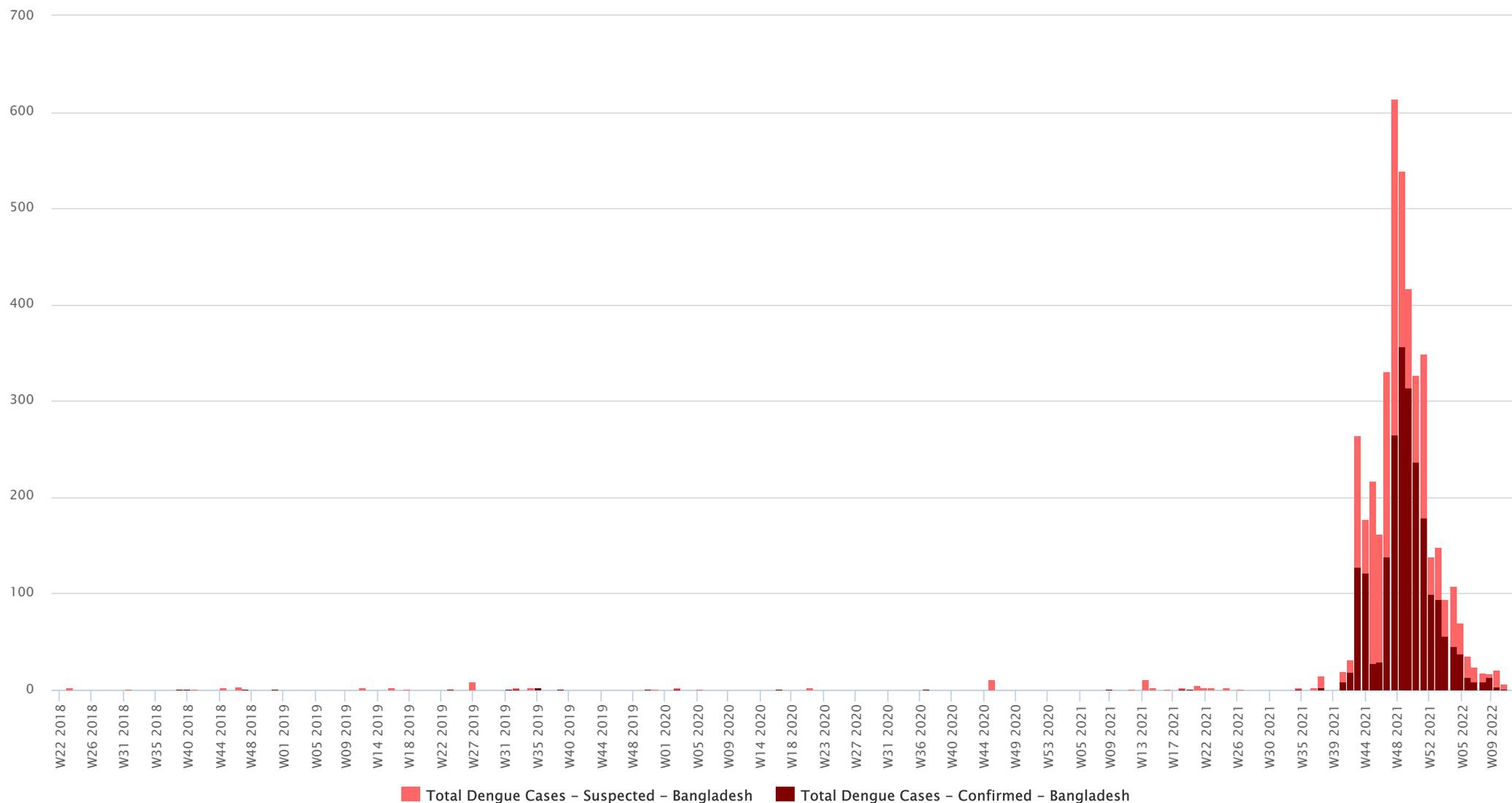
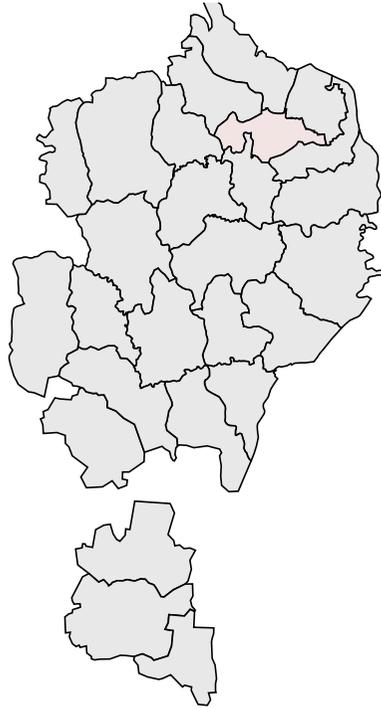


Figure 7 | Trend in number of cases over time (W38 2017 - W10 2022)

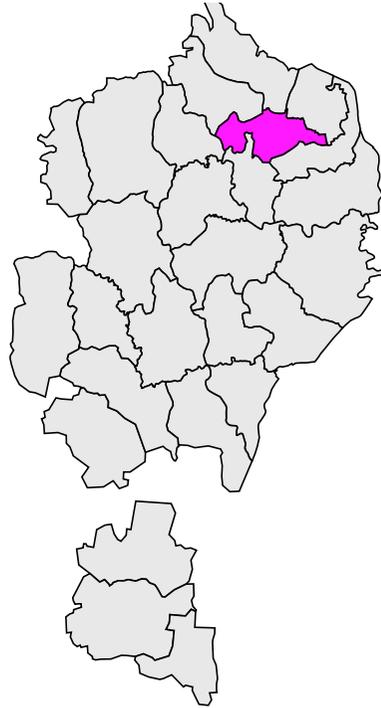


Map 4 | Map of cases by camp (W37 2017 - W10 2022)

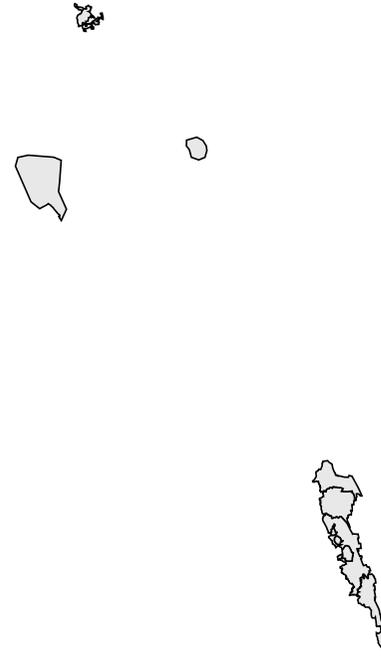
a. Ukhia | Number of cases



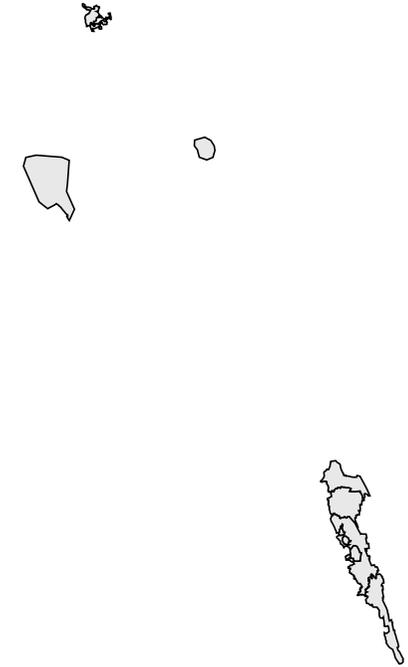
b. Ukhia | Number of alerts



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 (W10 2022)



Figure | % sex

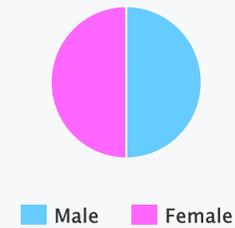
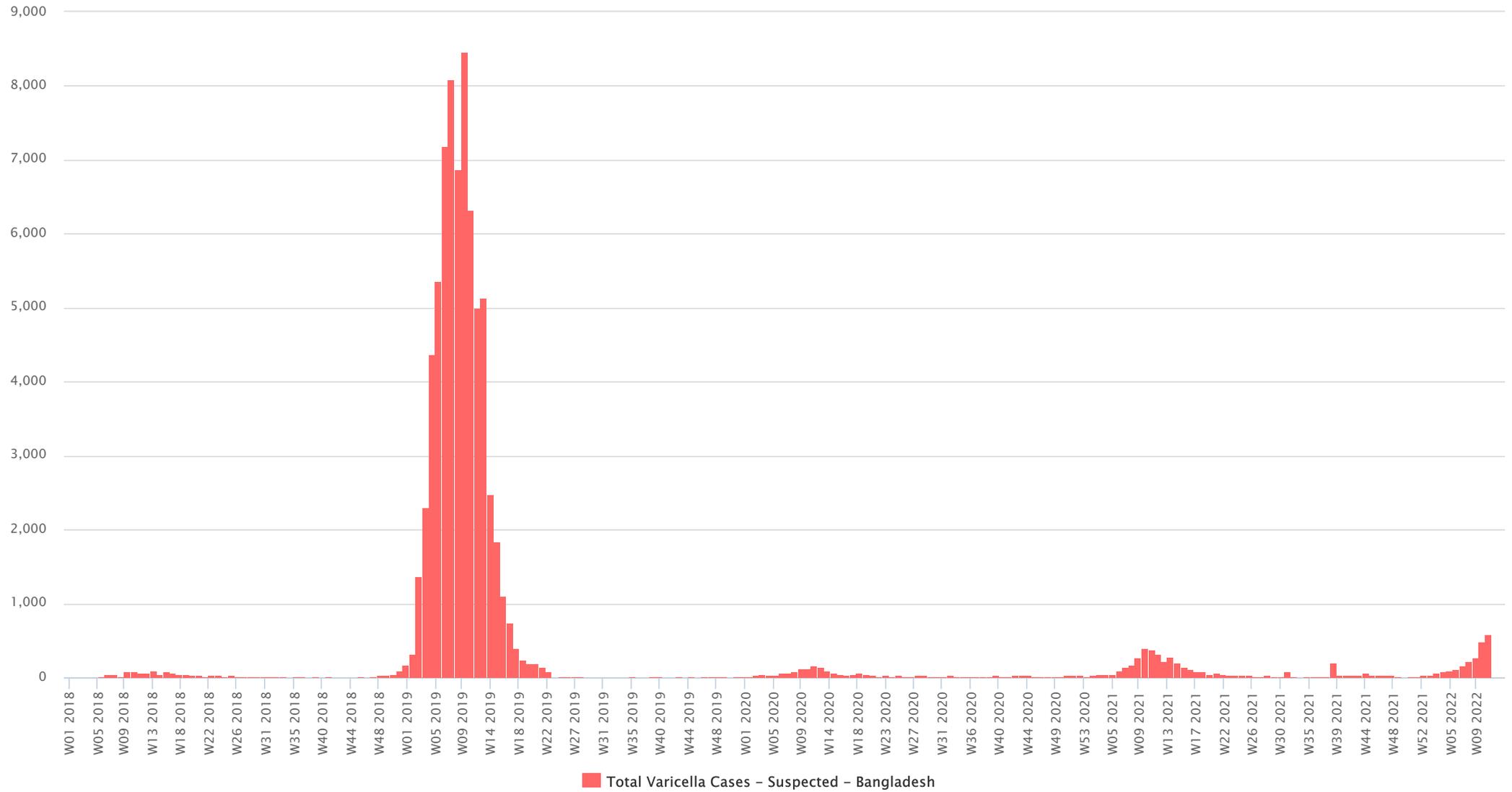


Figure | % age



Figure 7 | Trend in number of cases over time (W38 2017 - W10 2022)

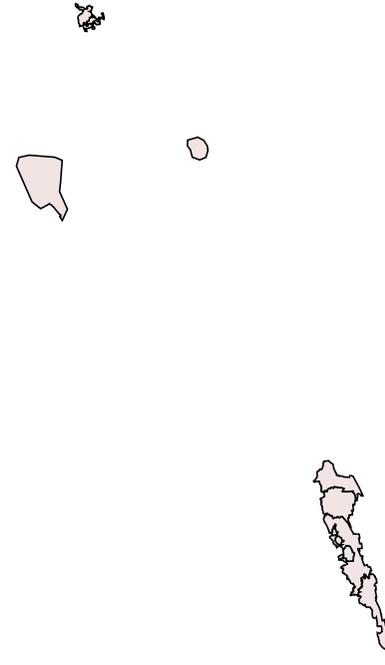


Map 4 | Map of cases by camp (W37 2017 - W10 2022)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

Number of cases

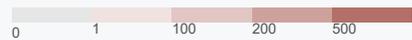
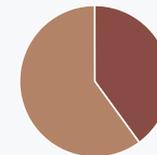


Figure | % sex



Male Female

Figure | % age



>= 5 < 5

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Medical Officer - Civil Surgeon Office (MO-CS)
Ministry of Health and Family Welfare
Cox's Bazar, Bangladesh
Telephone: +88 01780472442
Email: drsakiahaque@gmail.com

Dr. Feroz Hayat Khan
National Professional Officer (Disease Surveillance &
Epidemiology)
World Health Organization
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