



Epidemiological Highlights

Week 21 (15-21 May) 2022



**World Health
Organization**

Highlights: COVID-19

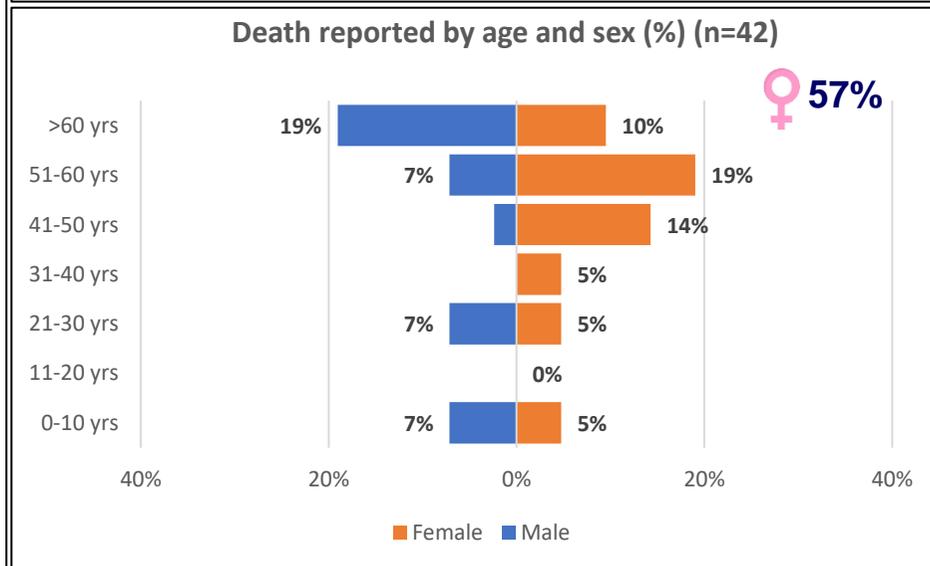
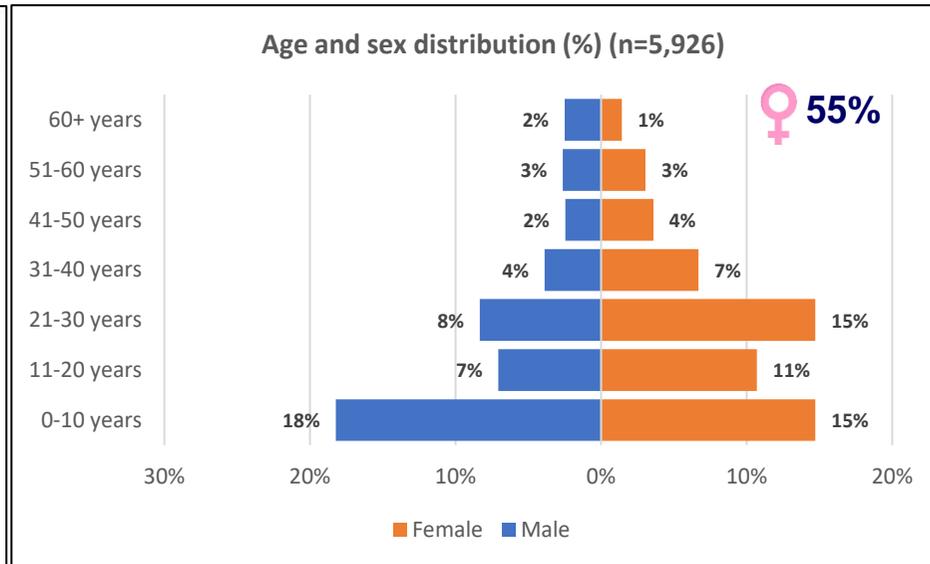
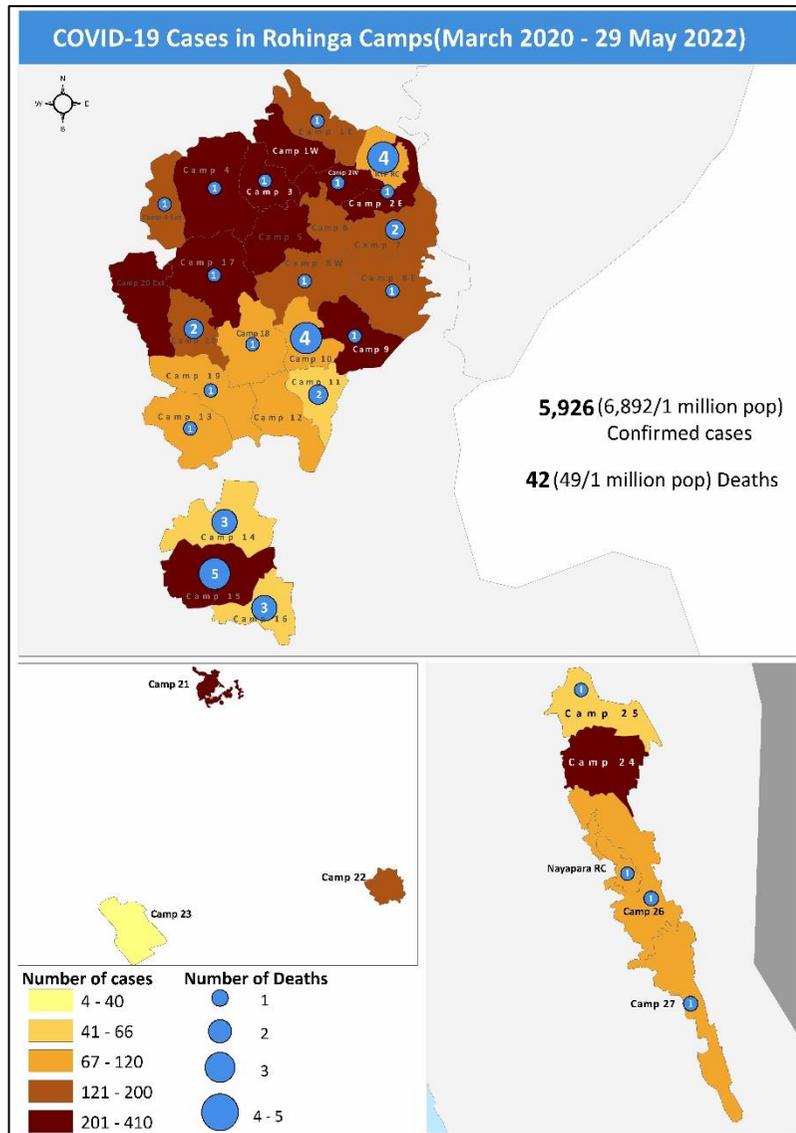
As of week 21, (23-29 May) 2022 there were **5,926 confirmed cases** of COVID-19 (SARS-CoV-2), out of **102,049 samples** that had been submitted for testing. The **total positivity rate now stands at 5.8%**

In the reporting week, again one (1) new confirmed case was detected out of 681 total samples tested. This translated to a 0.1% Test positivity Rate (TPR) which is slightly lower in comparison with the previous week.

As of this week (week 21)

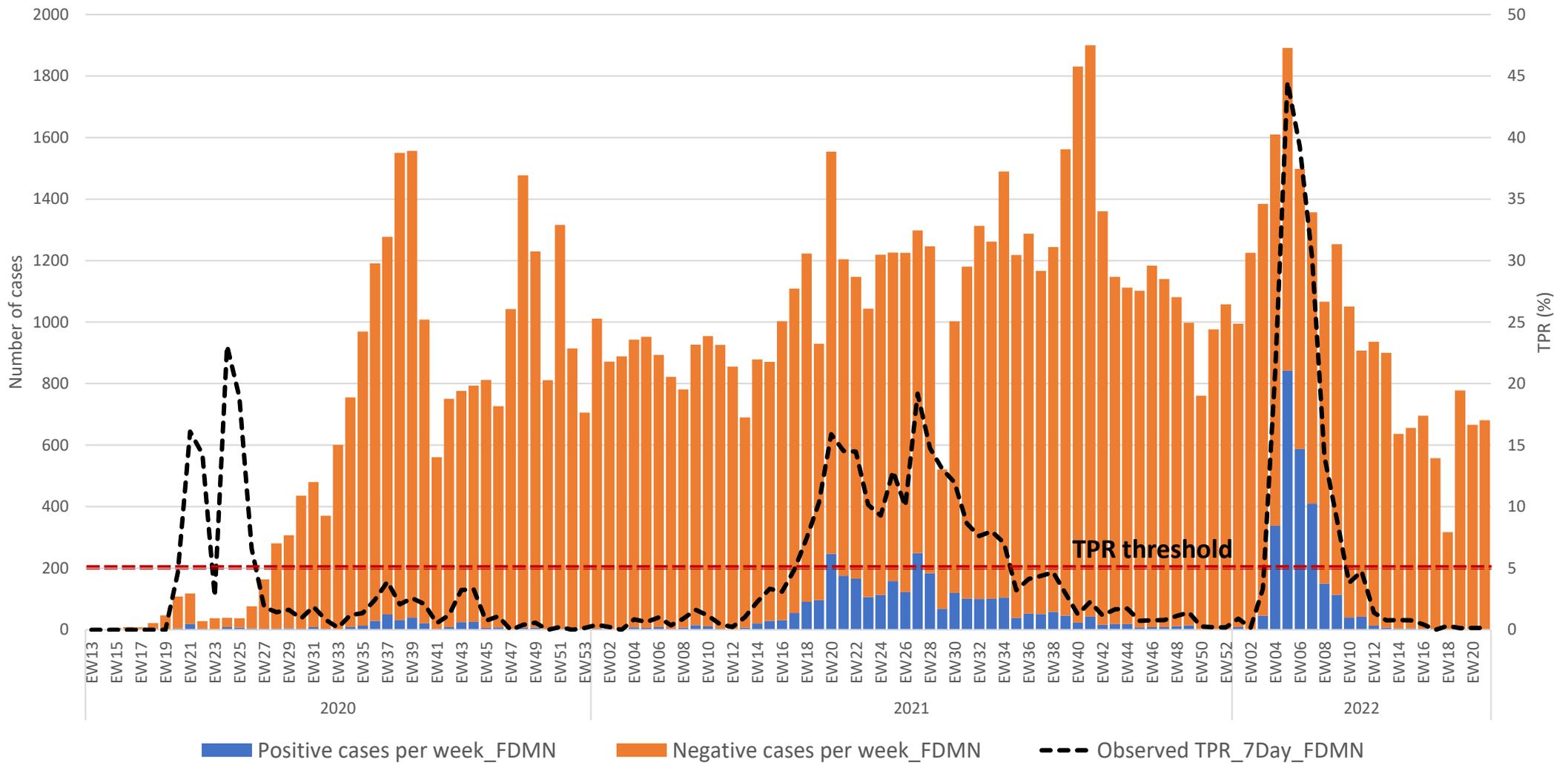
- **Median age** of tested and confirmed cases were 11 (0-120) and 20 (0-100) years respectively
- **Proportion of females** among tested and confirmed cases were 54% and 55% respectively
- **All the 34 camps**, have so far reported confirmed cases since the outbreak began, while the five camps with the highest number of reported cases were; C17-408, C24-389, C2W-369, C4-366, and C3-337
- 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 1.2 cases/1 million population in this Epi week which is the same as the previous weeks.

Highlights: COVID-19



Highlights: COVID-19

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



EWARS Reporting Updates

- Currently, a total of 166 health facilities are registered in EWARS
 - Only 156/166 weekly reports were received on time in week 21
 - Timeliness of reporting for this week was 93%
 - Thirty-two (32) alerts were triggered
 - All alerts were reviewed and verified by the WHO EWARS team; this was less than the previous week (78 alerts in week 20, 2022).

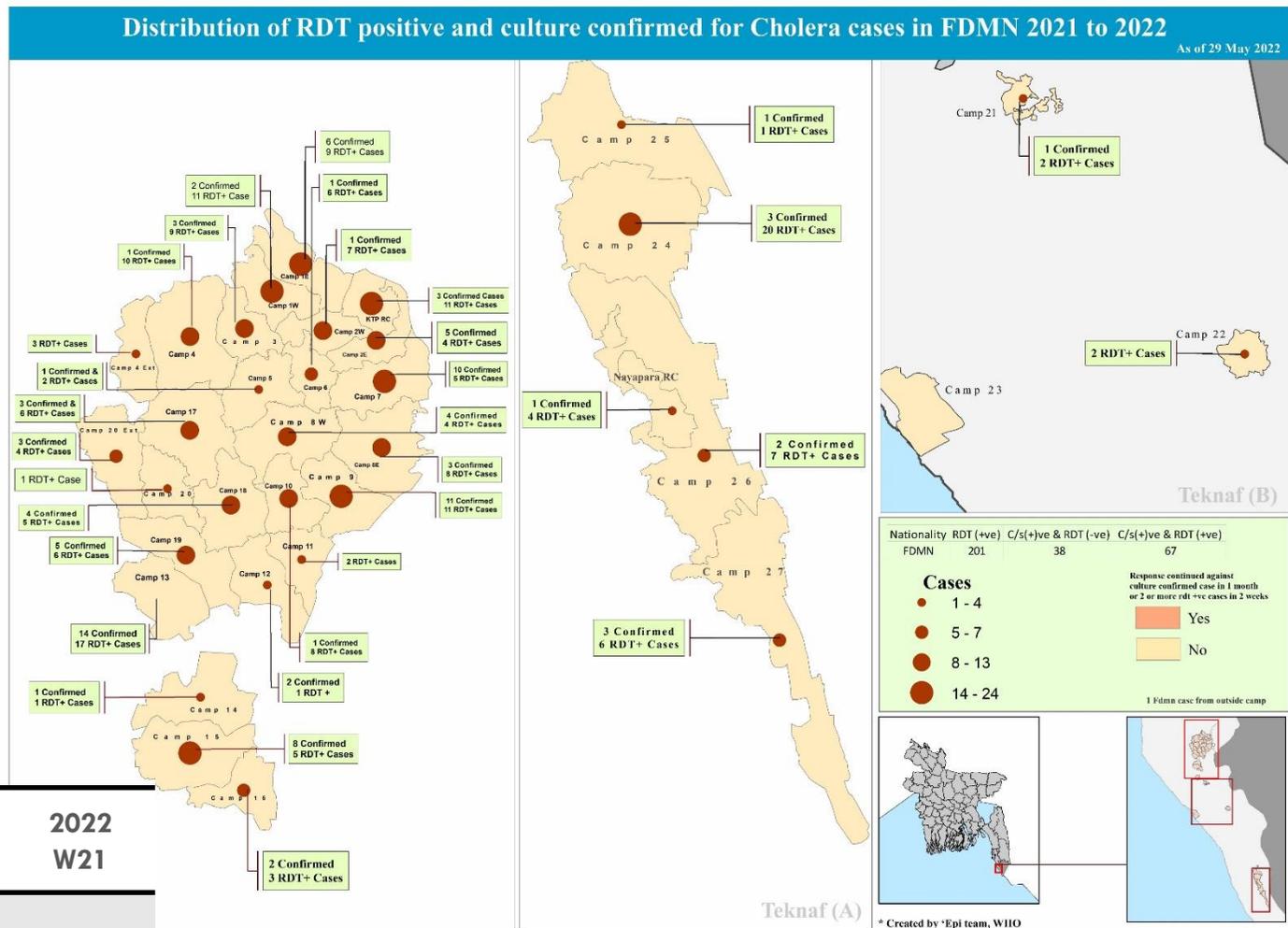
Highlights: Morbidities and Mortalities

- Acute Respiratory Infections (14.5%), Diarrheal Diseases (5.2%) & Injury, and wounds (2.6%) were the diseases and health conditions with the highest proportional morbidity in week 21.
- Monitoring of suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020.
- This Epi week, two new SARI death was reported as highlighted below:

Year	Suspected SARI death reported	Reclassified as death due to probable COVID-19
2022	53	6
2021	96	15
2020	49	2

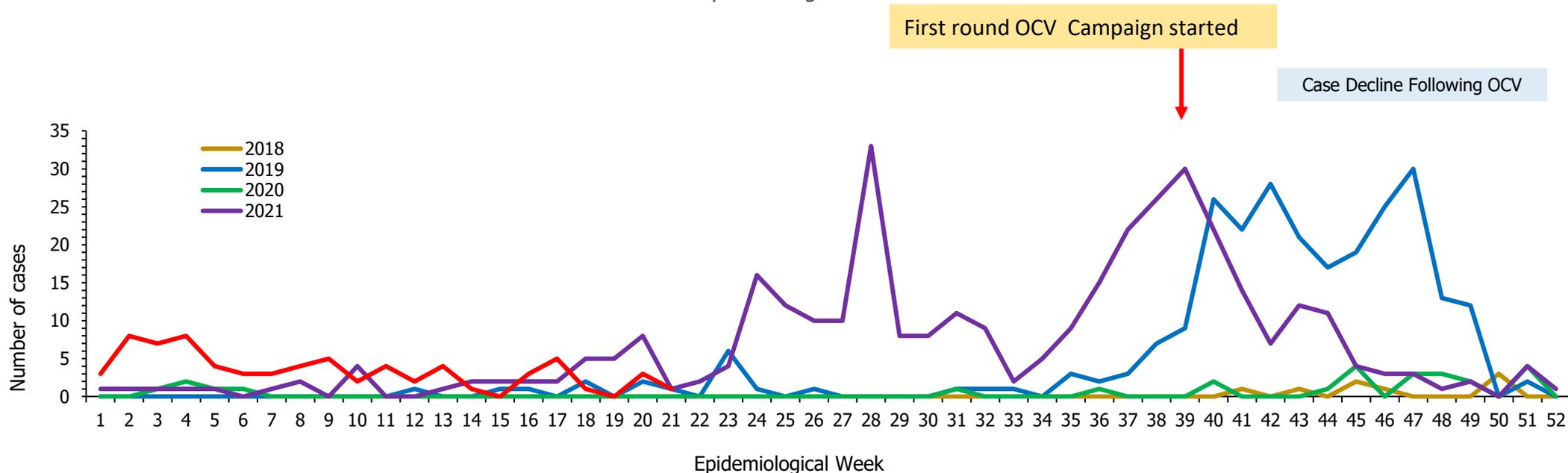
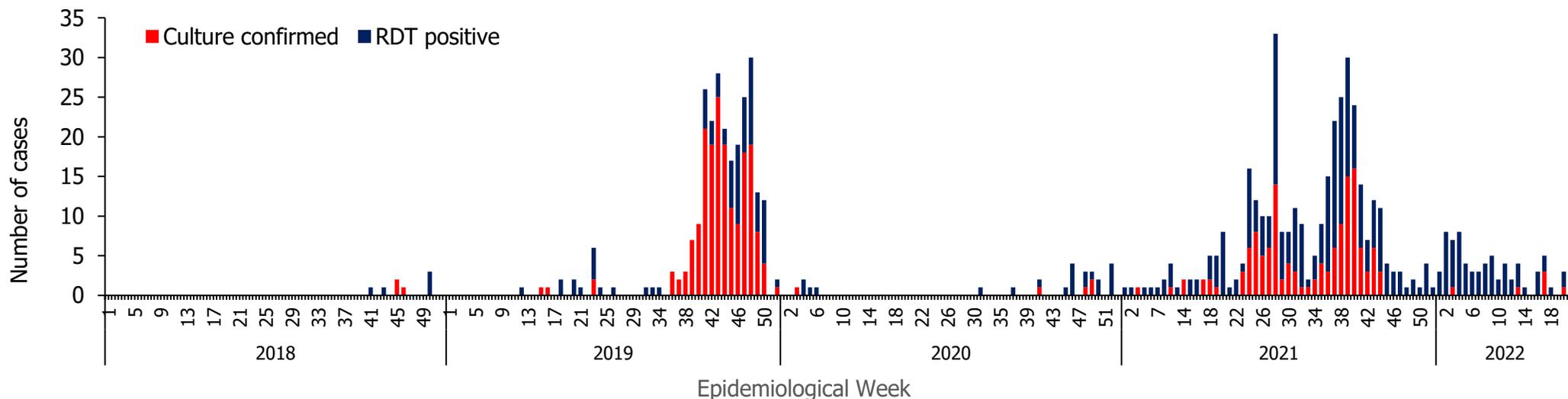
Cholera/AWD Surveillance Updates

- In this week, there is one (1) new RDT-positive case was reported, among samples sent for testing.
- In 2022 total of seventy-one (71) RDT confirmed cholera cases were reported as of W21 2022. Of these six (6) were positive for culture, and 65 were negative for culture.
- 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 W21
RDT positive/culture confirmed for Cholera	49	258	28	357	71
Culture confirmed for Cholera	7	184	5	136	6

Epidemic curve of cholera, Cox's Bazar District, 2017-2022 (W21)



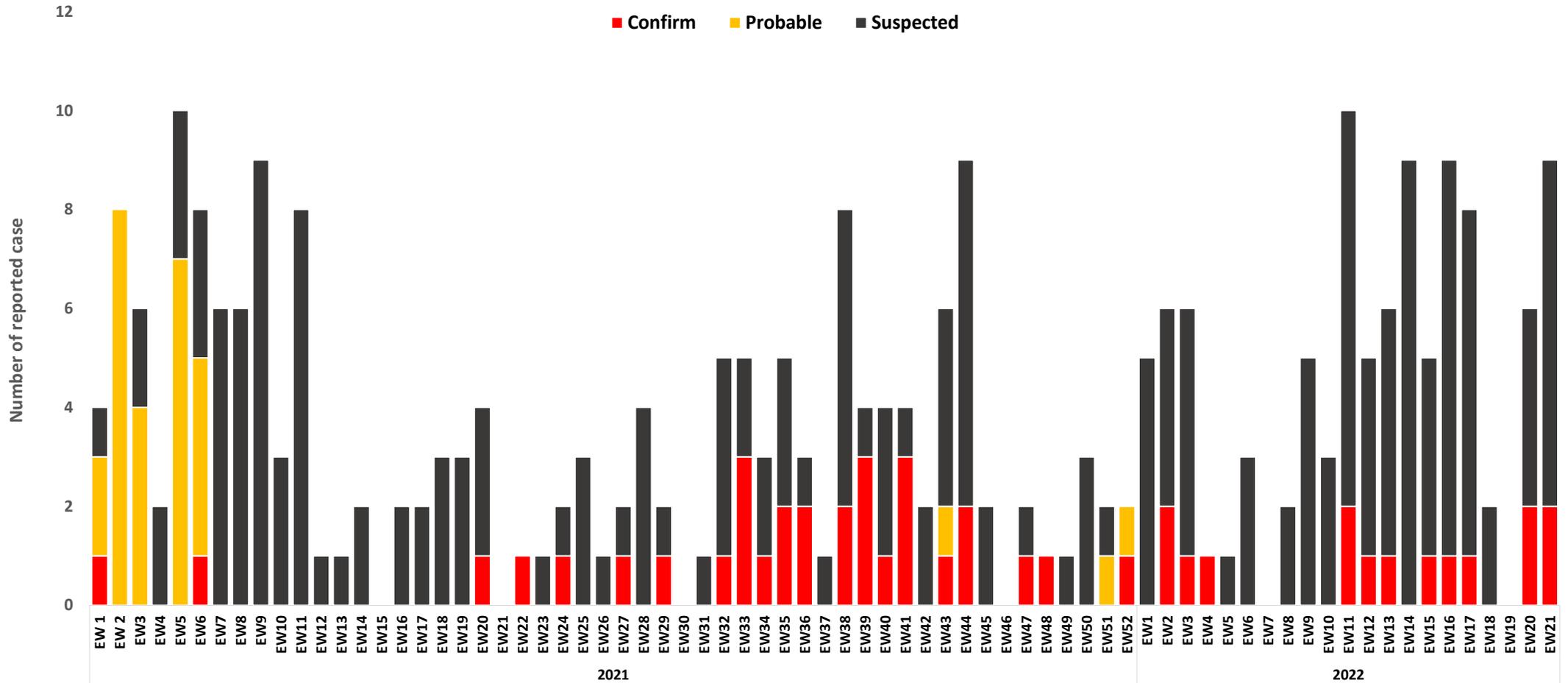
Diphtheria Surveillance Updates

- Two (2) confirmed and 7 suspected diphtheria cases were reported in go.data in this Epi week 21
- The last confirmed case was reported on 28 May 2022
- In total 53 deaths have so far been reported since 2017, the last death reported on 25 April 2022

Classification	2017	2018	2019	2020	2021	2022
Confirmed	66	226	31	19	30	15
Probable	1154	1555	60	9	29	0
Suspected	1796	3549	523	198	118	86
Death	30	14	3	0	5	1

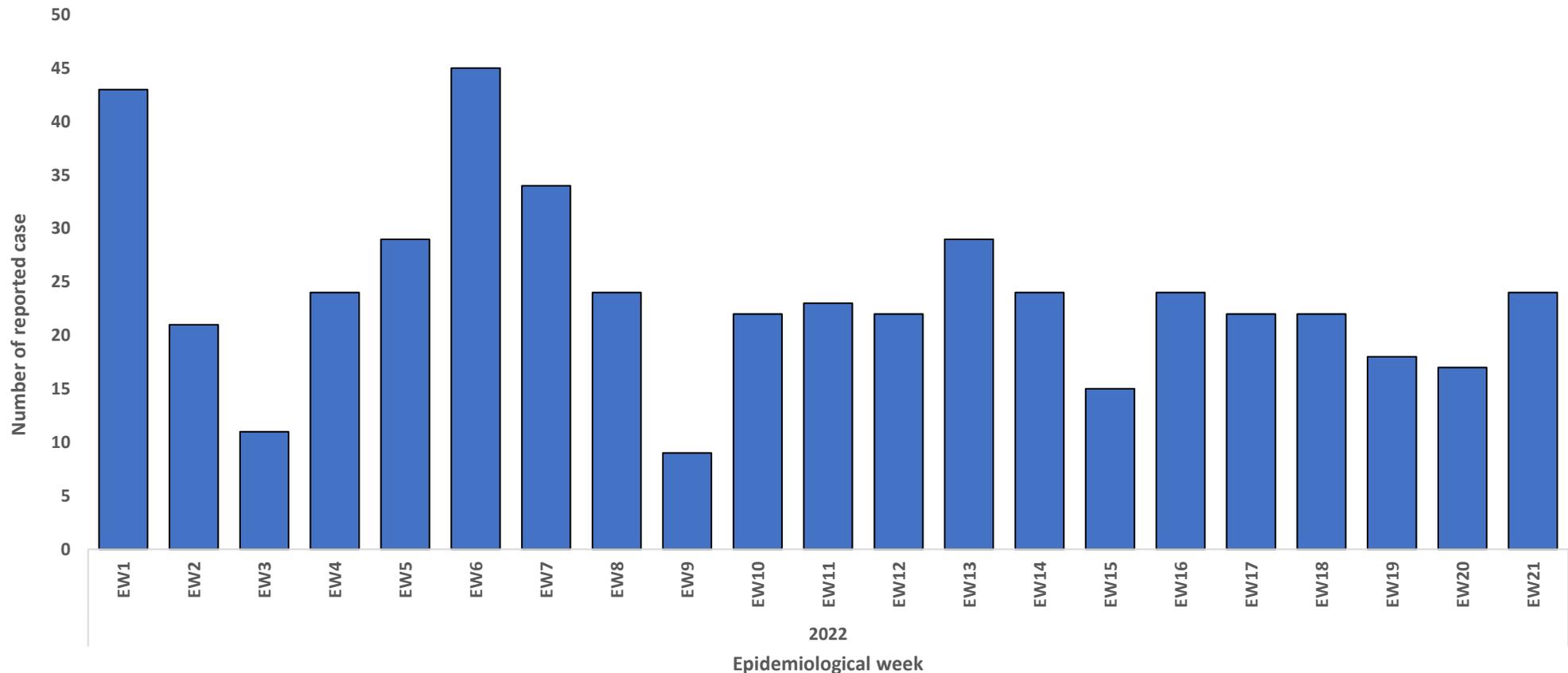
Trends of Diphtheria cases

Total number of diphtheria case reported in EWARS from 2021- EW21, 2022



Epi Curve of Suspected Measles Cases

Total number of Measles case reported in EWARS in 2022 (as of epi week 21)



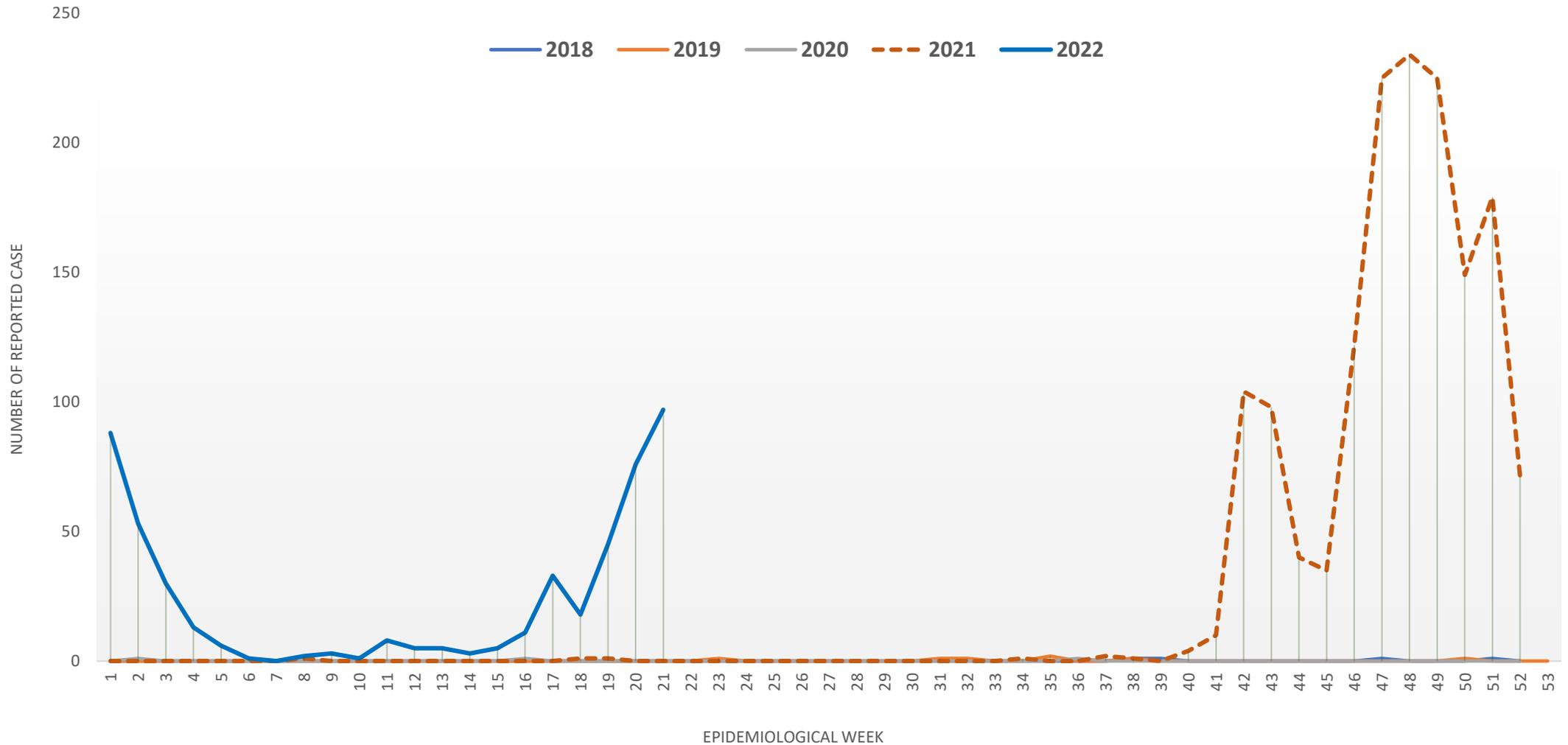
- > In week 21, 24 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 502 reported in 2022
- > About 51% (257/502) of the total suspected measles cases were reported through case-based reporting and samples collected for laboratory confirmation

Dengue Surveillance Updates

Year	Month/Epi Week	Confirmed case	Death	Confirmed case (cumulative)	Death (cumulative)
2022	Jan	189	0	189	0
	Feb	9	0	198	0
	March	17	0	215	0
	April	57	0	272	0
	Week 18 (2-8 May)	18	0	290	0
	Week 19 (9-15 May)	45	0	335	0
	Week 20 (16-22 May)	76	0	411	0
	Week 21 (23-29 May)	97	0	508	0

Dengue Surveillance Updates

Yearly Trends of Dengue case trend from 2018 - Epi Week 21, 2022



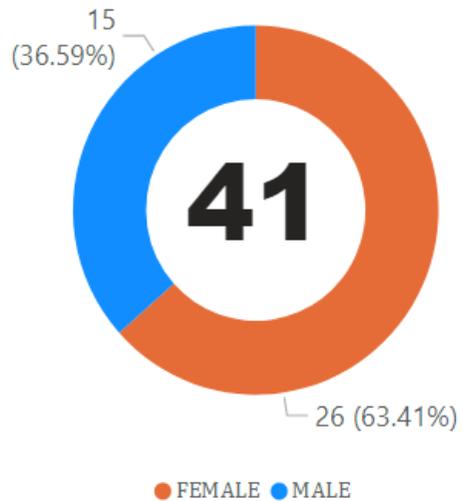
Community-based Mortality surveillance updates Epi week 21

Probable causes of death	Epi week 21	In 2022
Still Birth	3 (7%)	86 (12%)
Neonatal Death (<28 days old)	2 (5%)	73 (10%)
Infectious Disease	--	23 (3%)
Severe Acute Respiratory Infection (SARI)	2 (2%)	19 (2%)
Injury	--	15 (2%)
Maternal Death	--	20 (3%)
Acute Malnutrition	--	1 (0%)
Other	35 (85%)	507 (68%)
Total	41 (100%)	703 (100%)

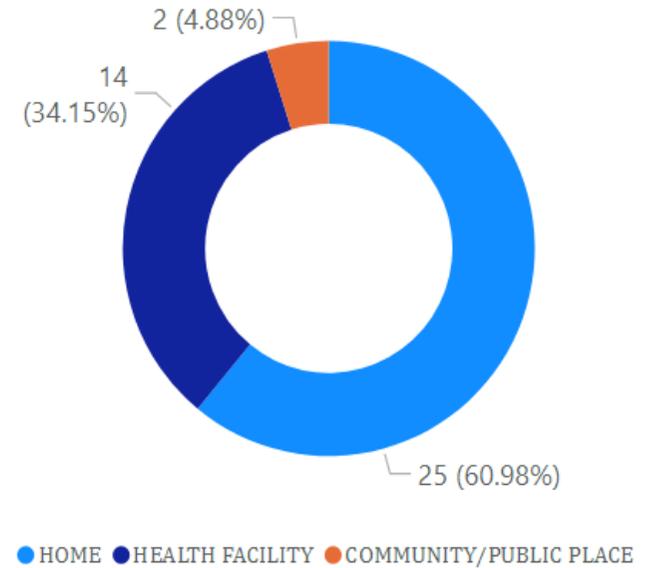
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable.

Community-based Mortality surveillance updates Epi week 21

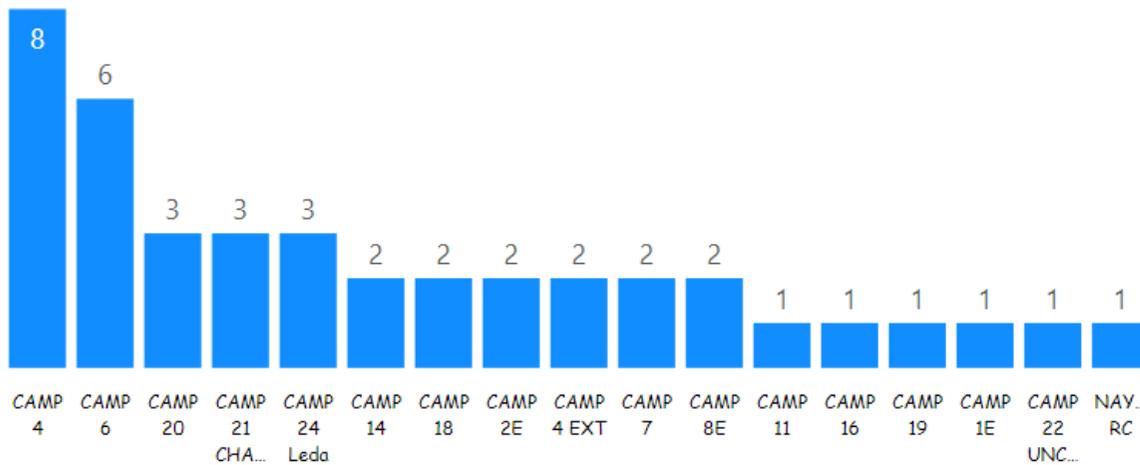
Gender distribution



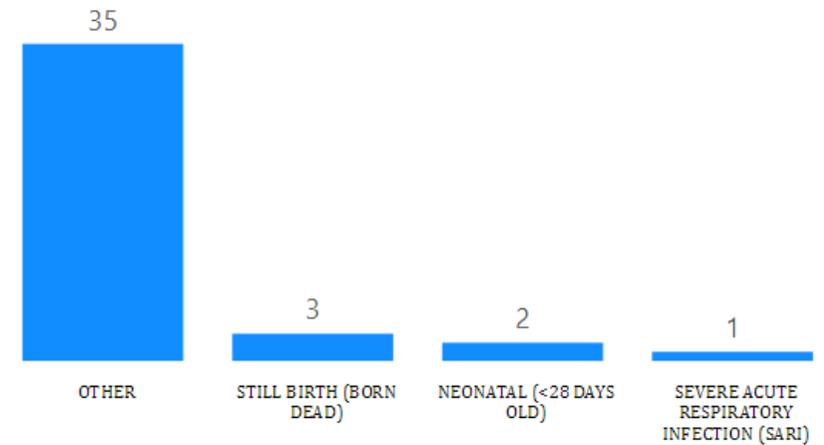
Place of death



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W21 2022



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



HEALTH SECTOR
COX'S BAZAR



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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

W21	Cumulative (2022)	
156	3687	Number of weekly reports received
93%	93%	Completeness
93%	91%	Timeliness

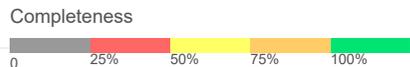
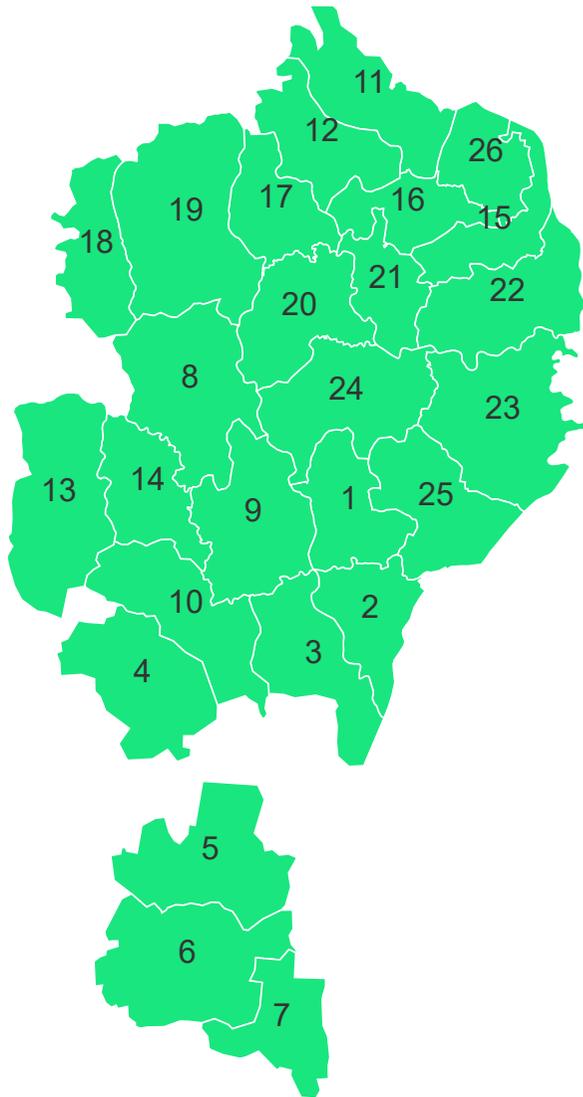
Table 3 Alert performance indicators

W21	Cumulative (2022)	
32	1,658	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

- 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

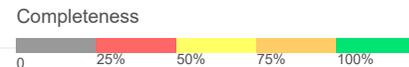
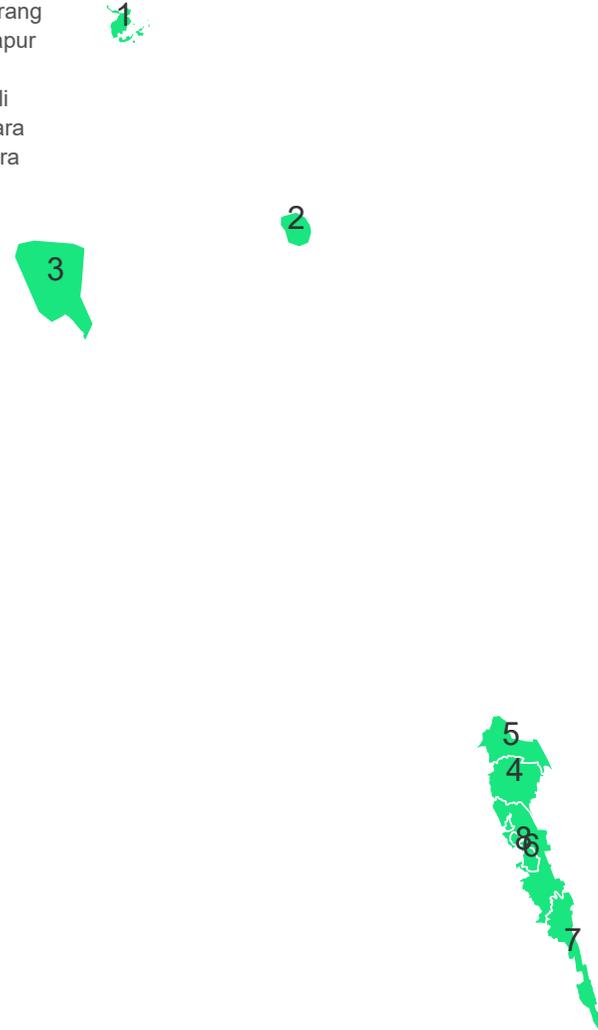


Table 4 | Performance by camp (W21 2022)

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	2	67%	0%
Camp 2W	3	3	100%	0%
Camp 3	6	6	100%	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	5	5	100%	0%
Camp 8E	7	7	100%	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

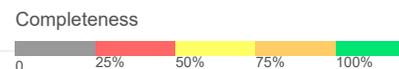
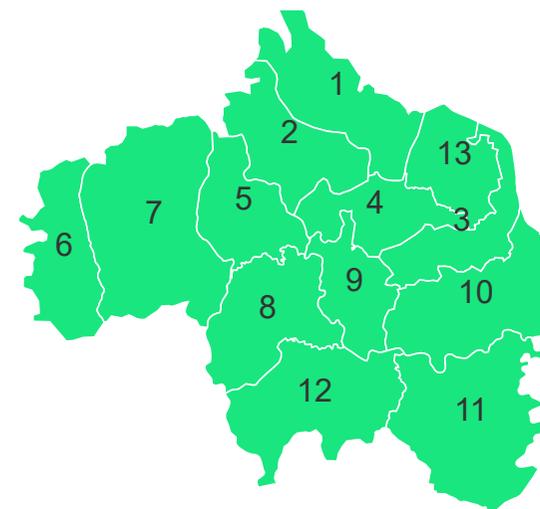


Table 5 | Performance by camp (W21 2022)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	13%
Camp 11	7	7	100%	0%
Camp 12	6	6	67%	0%
Camp 13	10	10	100%	10%
Camp 14	7	7	100%	0%
Camp 15	9	8	89%	11%
Camp 16	7	7	100%	0%
Camp 17	5	5	100%	20%
Camp 18	5	5	100%	0%
Camp 19	5	5	100%	20%
Camp 20	3	3	100%	0%
Camp 20 Ext	3	3	67%	0%
Camp 9	6	5	83%	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

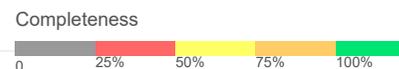
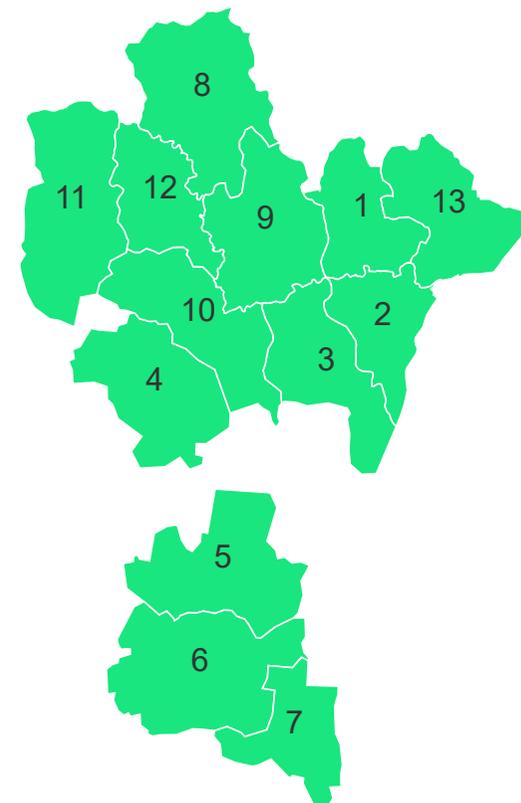


Table 6 | Performance by camp (W21 2022)

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	4	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

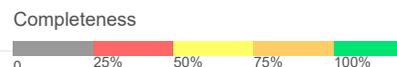
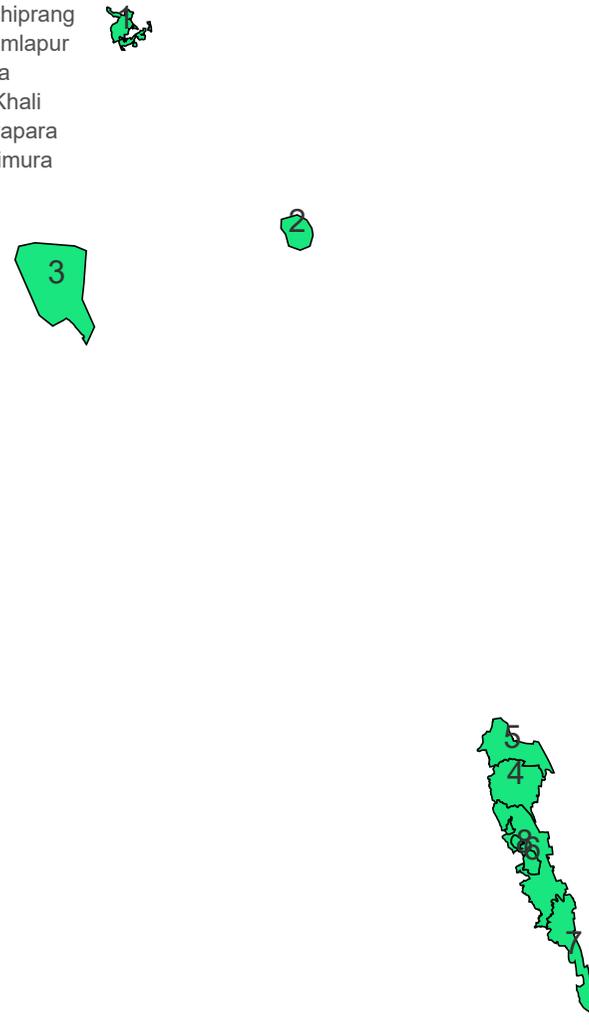


Table 7 | Performance by partner (W21 2022)

Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	1	0	0%	0%	IRC	2	2	100%	100%
AWARD	7	7	100%	100%	MSF	9	5	56%	56%
BASHMAH	1	1	100%	0%	MoH	15	13	87%	87%
BDRCS	12	11	92%	83%	MHI	0	0		
BRAC	11	11	100%	100%	Medair	2	2	100%	50%
CARE	4	2	50%	50%	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	1	100%	0%	QC	1	1	100%	100%
DCHT-PWJ	1	1	100%	100%	PHD	10	10	100%	100%
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	3	100%	100%
GUSS	1	1	100%	100%	RTMI	9	8	89%	89%
HAEFA	2	2	100%	100%	SALT	1	1	100%	100%
HAIB	8	8	100%	100%	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	17	89%	89%					

Table 8 | Performance by camp

Northern group	W21		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	1	100%	35	100%
Camp 1W	2	100%	84	100%
Camp 2E	6	100%	186	100%
Camp 2W	1	100%	47	100%
Camp 3	3	100%	90	100%
Camp 4	0	0%	75	100%
Camp 4 Ext	3	100%	24	100%
Camp 5	0	0%	50	100%
Camp 6	1	100%	54	100%
Camp 7	0	0%	34	100%
Camp 8E	1	100%	25	100%
Camp 8W	0	0%	76	100%
Kutupalong RC	2	100%	30	100%

Map 5 | Number of alerts by camp

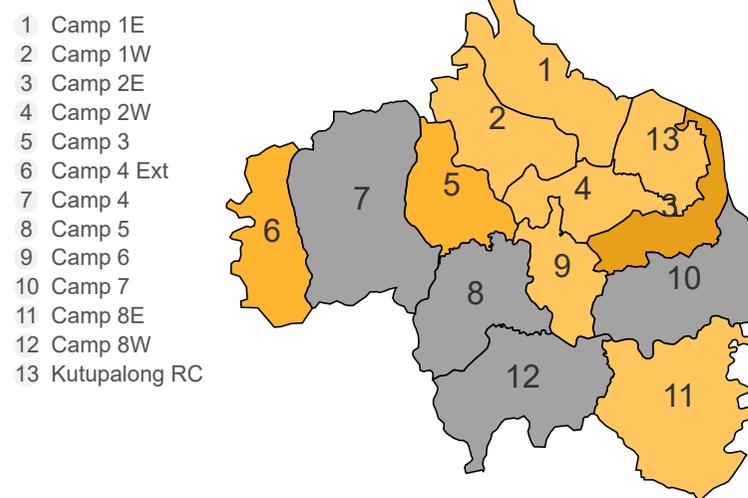


Table 9 | Performance by camp

Southern group	W21		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	0	0%	22	100%
Camp 11	0	0%	40	100%
Camp 12	3	100%	64	100%
Camp 13	1	100%	68	100%
Camp 14	0	0%	36	100%
Camp 15	0	0%	52	100%
Camp 16	1	100%	53	100%
Camp 17	0	0%	31	100%
Camp 18	1	100%	76	100%
Camp 19	0	0%	22	100%
Camp 20	0	0%	25	100%
Camp 20 Ext	0	0%	15	100%
Camp 9	0	0%	76	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

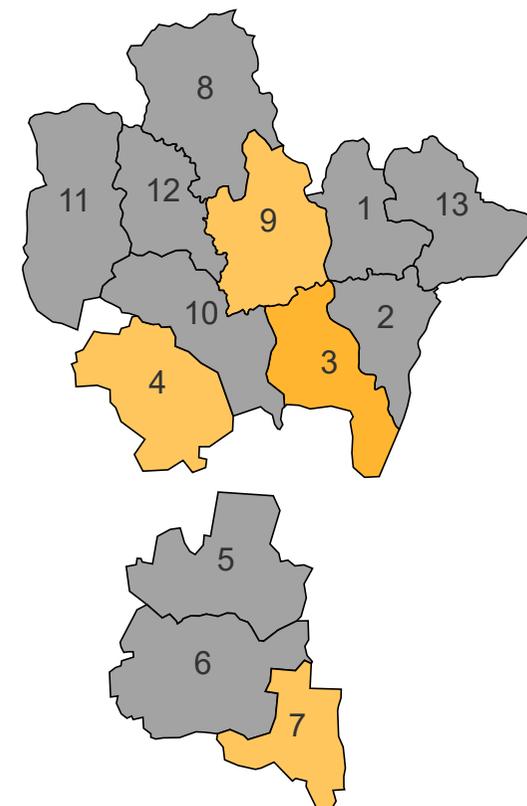


Table 10 | Performance by camp

Teknaf	W21		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	0	0%	28	100%
Camp 22 Unchiprang	1	100%	34	100%
Camp 23 Shamlapur	0	0%	12	100%
Camp 24 Leda	3	100%	42	100%
Camp 25 Ali Khali	0	0%	13	100%
Camp 26 Nayapara	0	0%	49	100%
Camp 27 Jadimura	2	100%	31	100%
Nayapara RC	0	0%	17	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

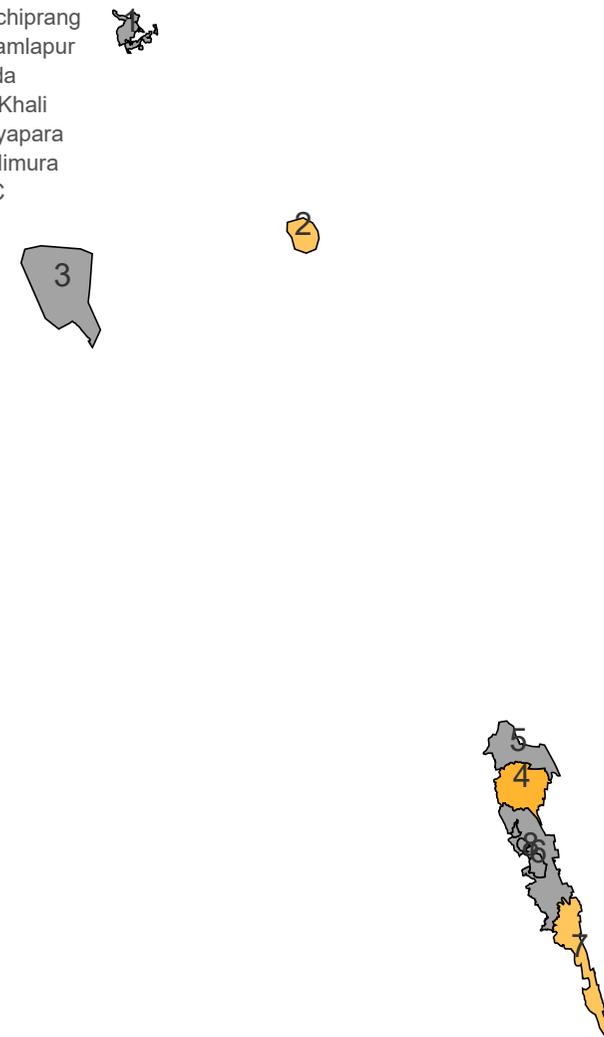


Table 11 | Performance by type of alert

Event	W21		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	2	100%
Measles	3	100%	252	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	17	100%
Meningitis	0	0%	9	100%
Haem. fever (susp.)	0	0%	8	100%
NNT	0	0%	3	100%
Unexp. fever	1	100%	69	100%
AWD	3	100%	127	100%
ARI	1	100%	106	100%
AJS	0	0%	28	100%
Varicella (Susp.)	1	100%	105	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	3	100%	116	100%

Table 12 | Risk assessment

W21	Cumulative (2022)	
0	6	Low risk
0	1	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 W21 2022



Ministry of Health and Family
Welfare Bangladesh



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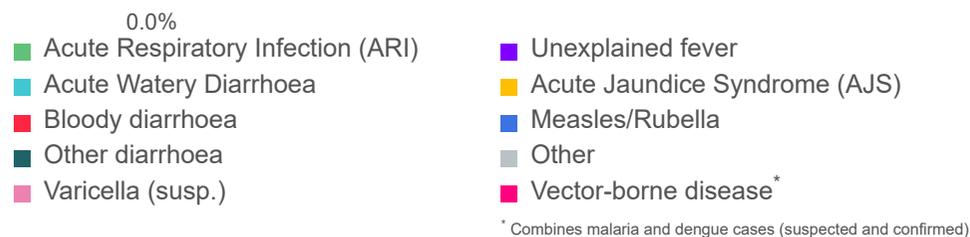
HEALTH SECTOR
COX'S BAZAR



Printed: 05:15 Thursday, 04 August 2022 UTC

Proportional morbidity

Figure 1 | Proportional morbidity (W21 2022)



* Combines malaria and dengue cases (suspected and confirmed)

Disease	W21		2022	
	# cases	% morbidity	# cases	% morbidity
AWD	3,088	3.5%	78,345	2.6%
Bloody diarr.	317	0.4%	11,055	0.4%
Other diarr.	1,164	1.3%	31,312	1.0%
Susp. Varicella	146	0.2%	8,649	0.3%
ARI	12,654	14.5%	531,132	17.6%
Measles/Rub.	21	0.0%	678	0.0%
AFP	0	0.0%	49	0.0%
Susp. menin.	4	0.0%	103	0.0%
AJS	31	0.0%	693	0.0%
Susp. HF	1	0.0%	34	0.0%
Neo. tetanus	0	0.0%	8	0.0%
Adult tetanus	0	0.0%	12	0.0%
Malaria (conf.)	0	0.0%	320	0.0%
Malaria (susp.)	1,447	1.7%	45,138	1.5%
Dengue (conf.)	68	0.1%	11,246	0.4%
Dengue (susp.)	18	0.0%	4,930	0.2%
Unexpl. fever	744	0.9%	36,566	1.2%
Sev. Malnut.	27	0.0%	1,208	0.0%
Inj./Wounds	2,239	2.6%	66,189	2.2%
Other	65,088	74.6%	2,184,577	72.4%
Total	86,469	100%	3,018,831	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W21)

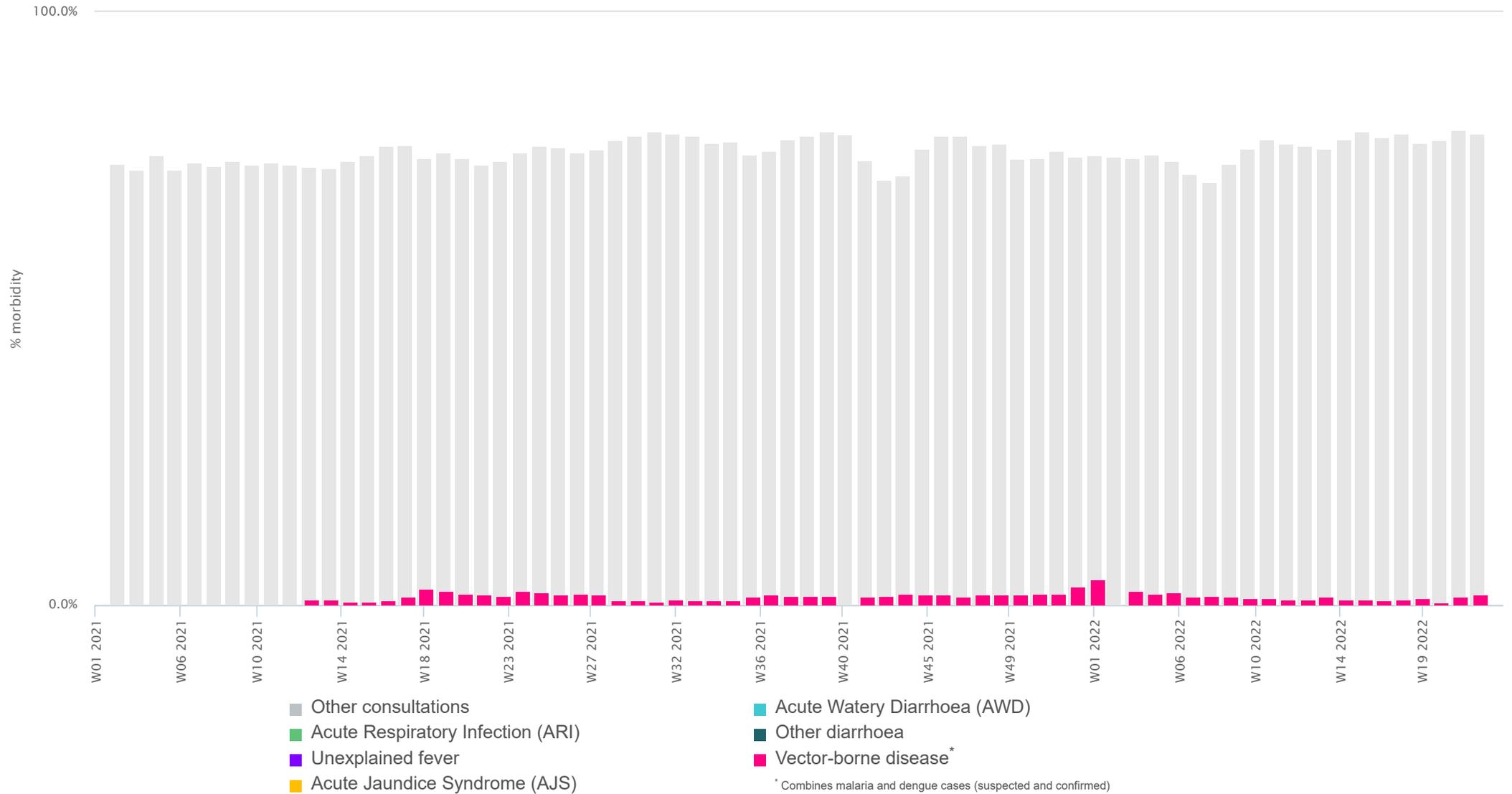
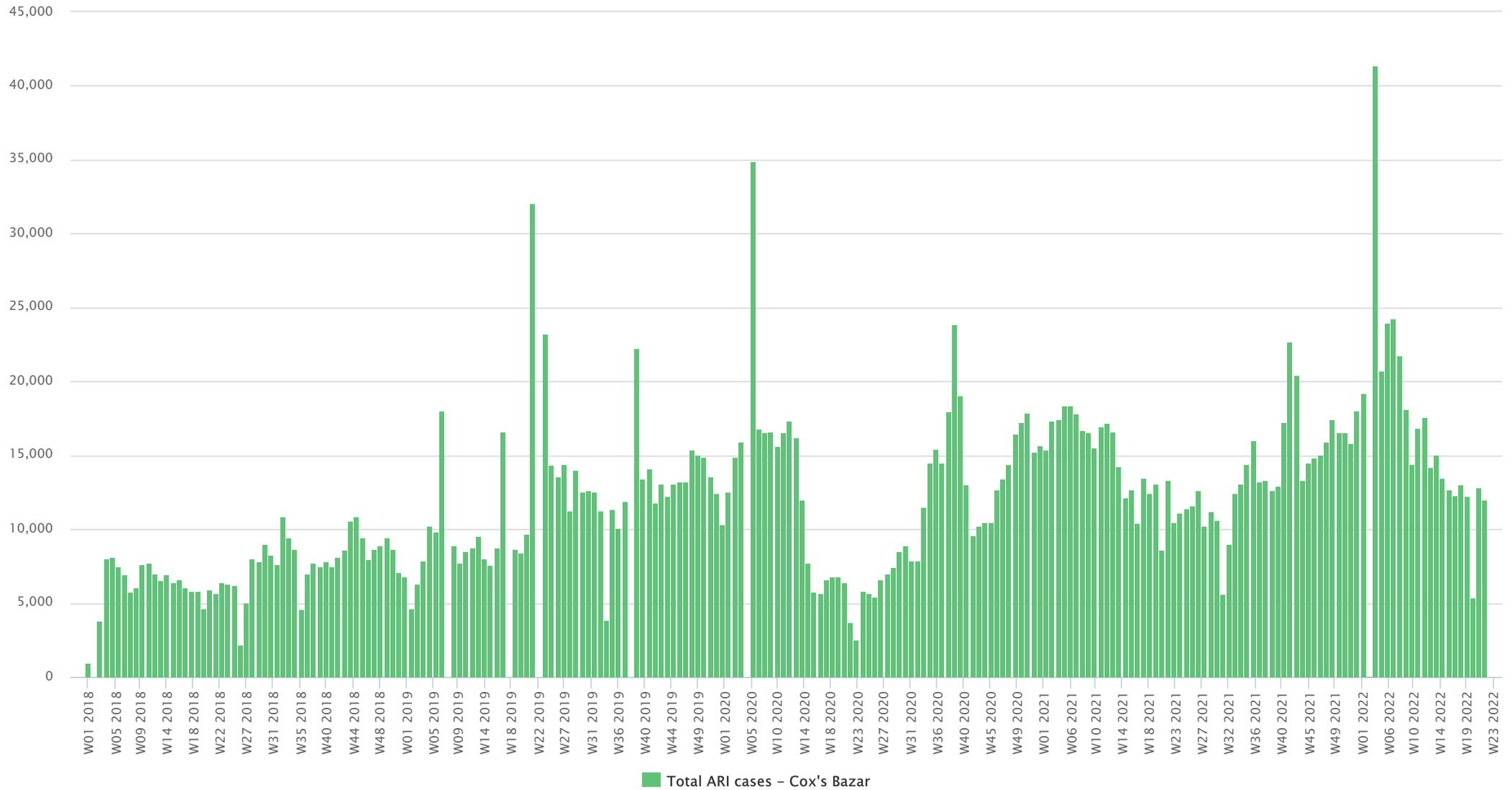
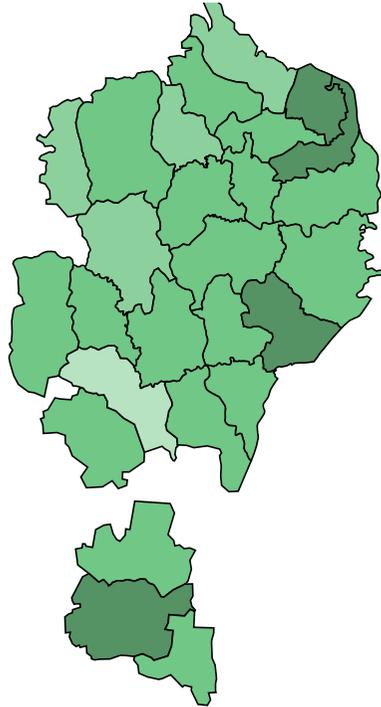


Figure 3 | Trend in number of cases over time (W38 2017 - W21 2022)



Map 1 | Map of cases by camp (W21 2022)

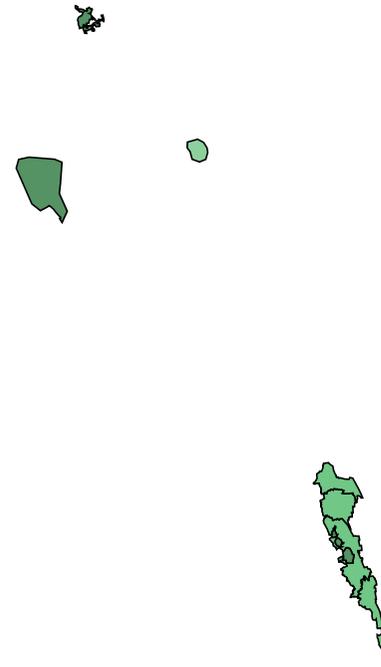
a. Ukhia | Number of cases



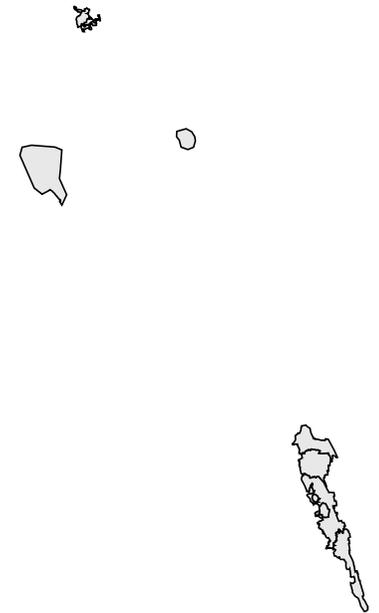
b. Ukhia | Number of alerts



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 (W21 2022)

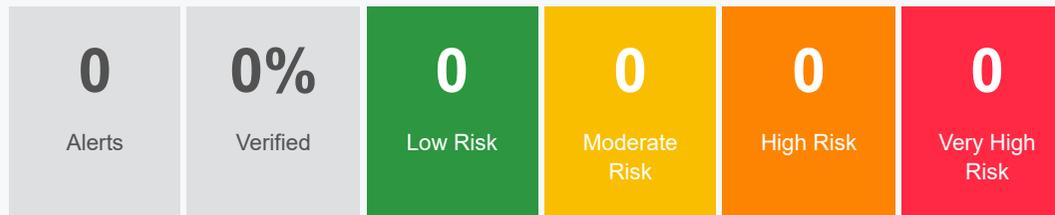


Figure | % sex

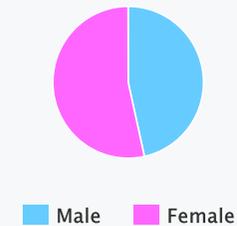


Figure | % age

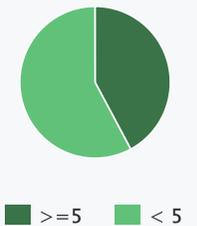
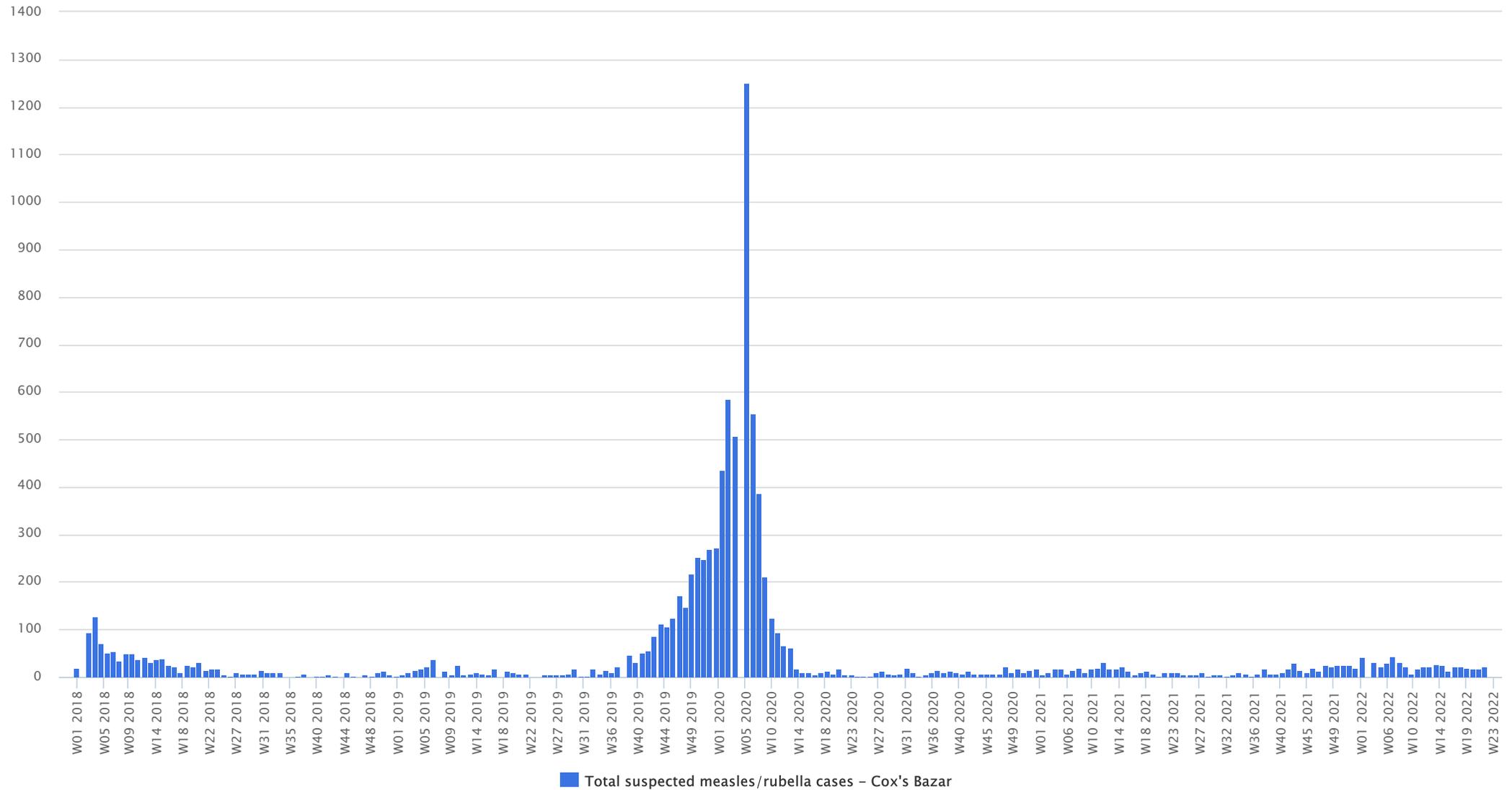
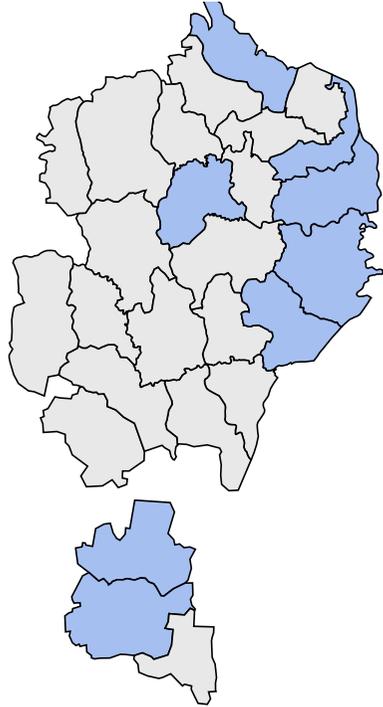


Figure 4 | Trend in number of suspected cases over time (W38 2017 - W21 2022)

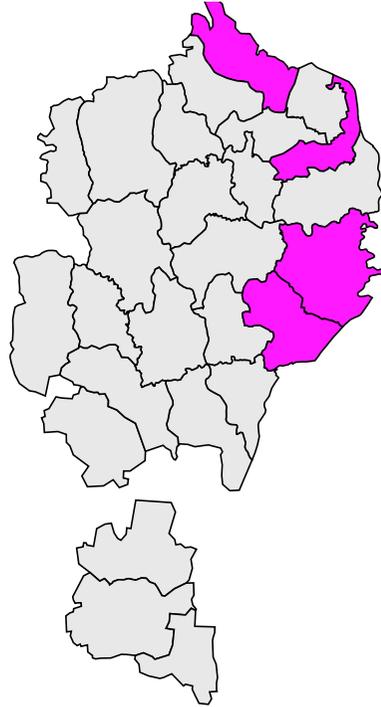


Map 2 | Map of cases by camp (W21 2022)

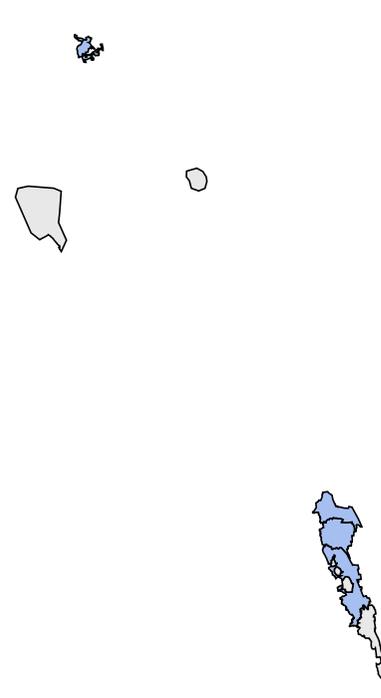
a. Ukhia | Number of cases



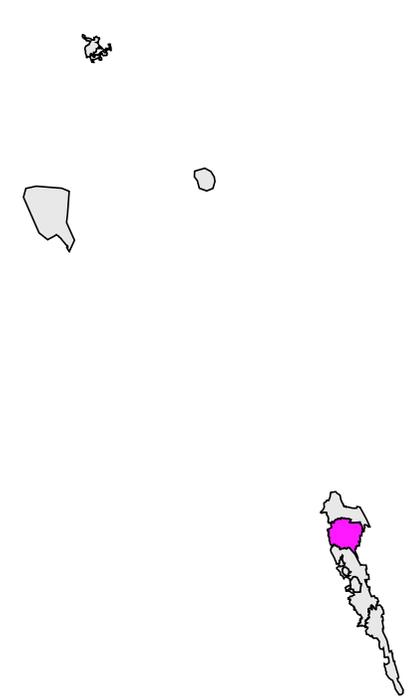
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W21 2022)

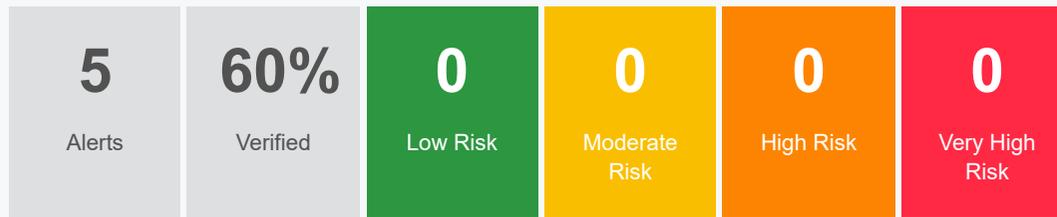
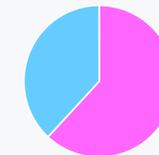


Figure | % sex



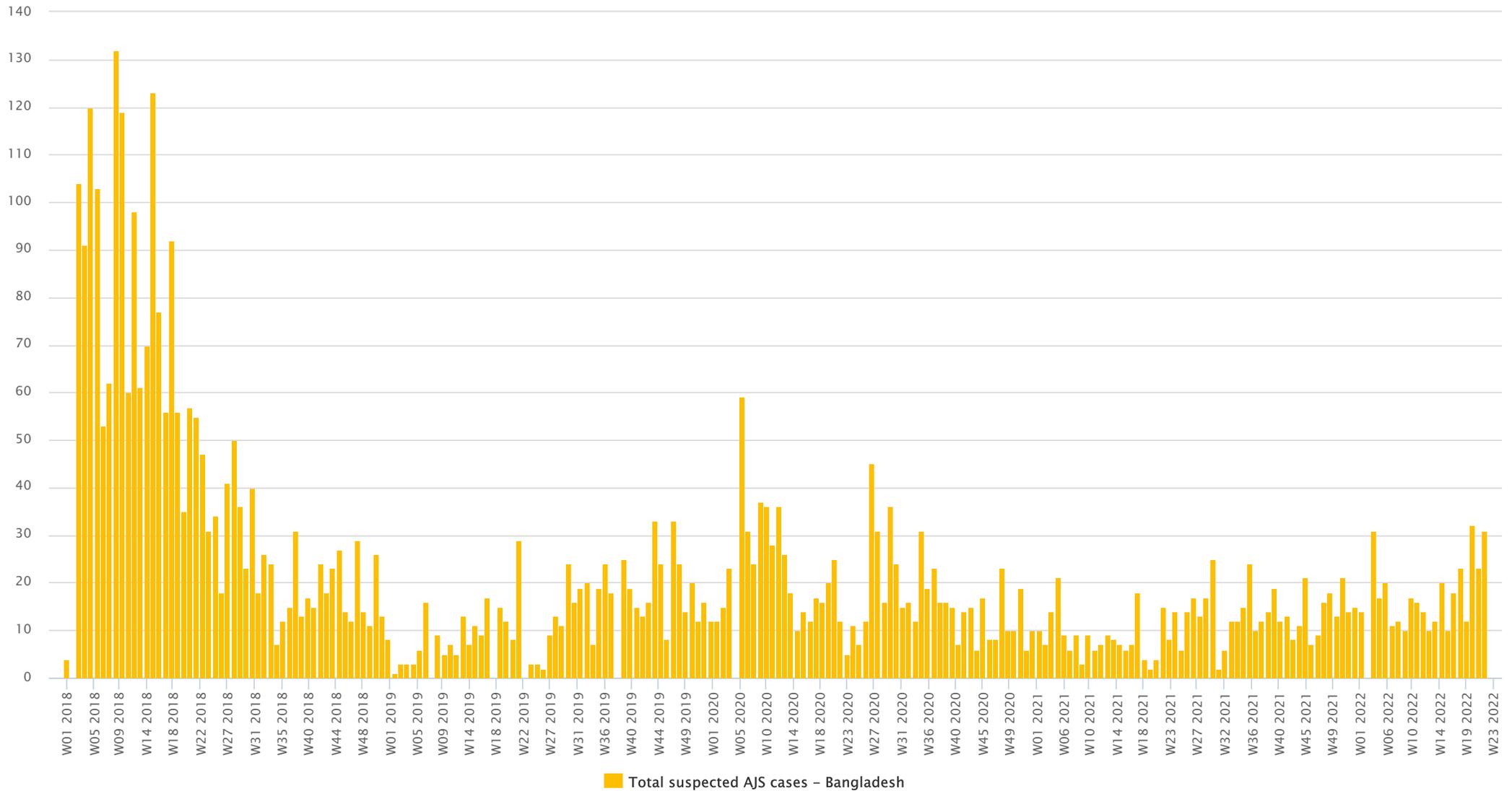
Female Male

Figure | % age



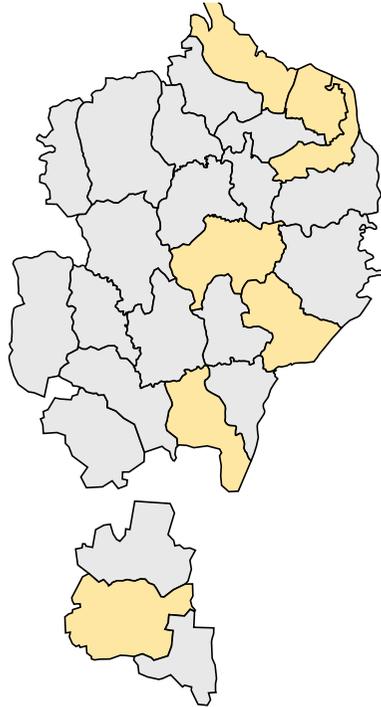
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Figure 5 | Trend in number of cases over time (W38 2017 - W21 2022)

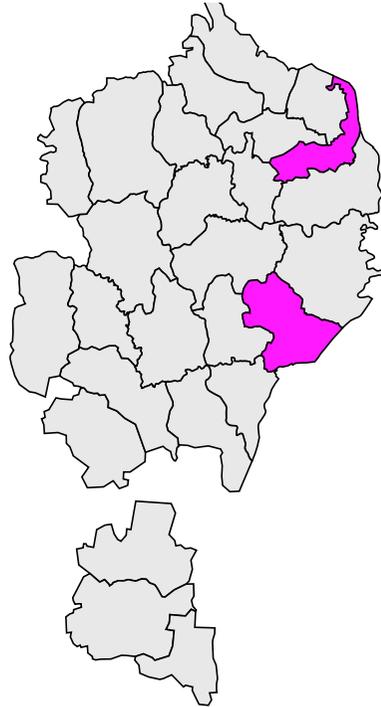


Map 3 | Map of cases by camp (W37 2017 - W21 2022)

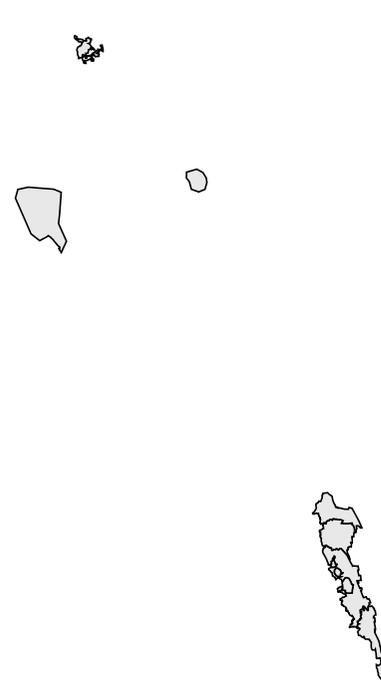
a. Ukhia | Number of cases



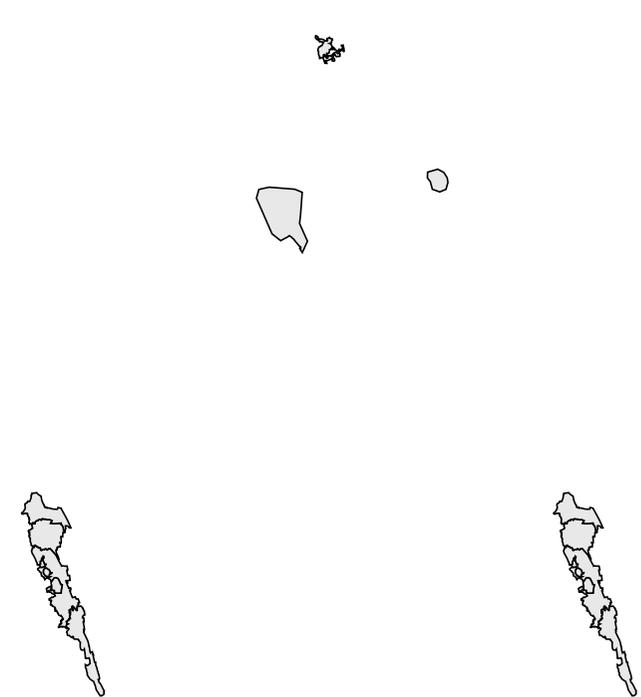
b. Ukhia | Number of alerts



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 (W21 2022)

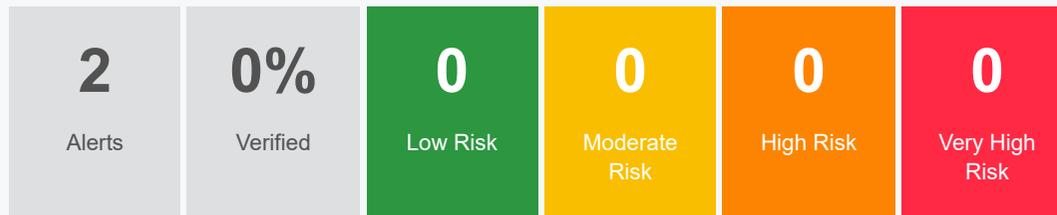


Figure | % sex

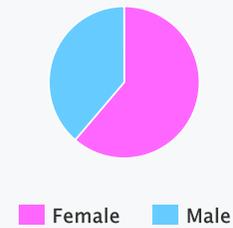


Figure | % age

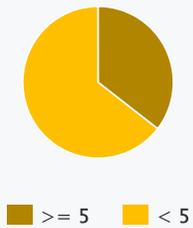


Figure 6 | Trend in number of cases over time (W38 2017 - W21 2022)

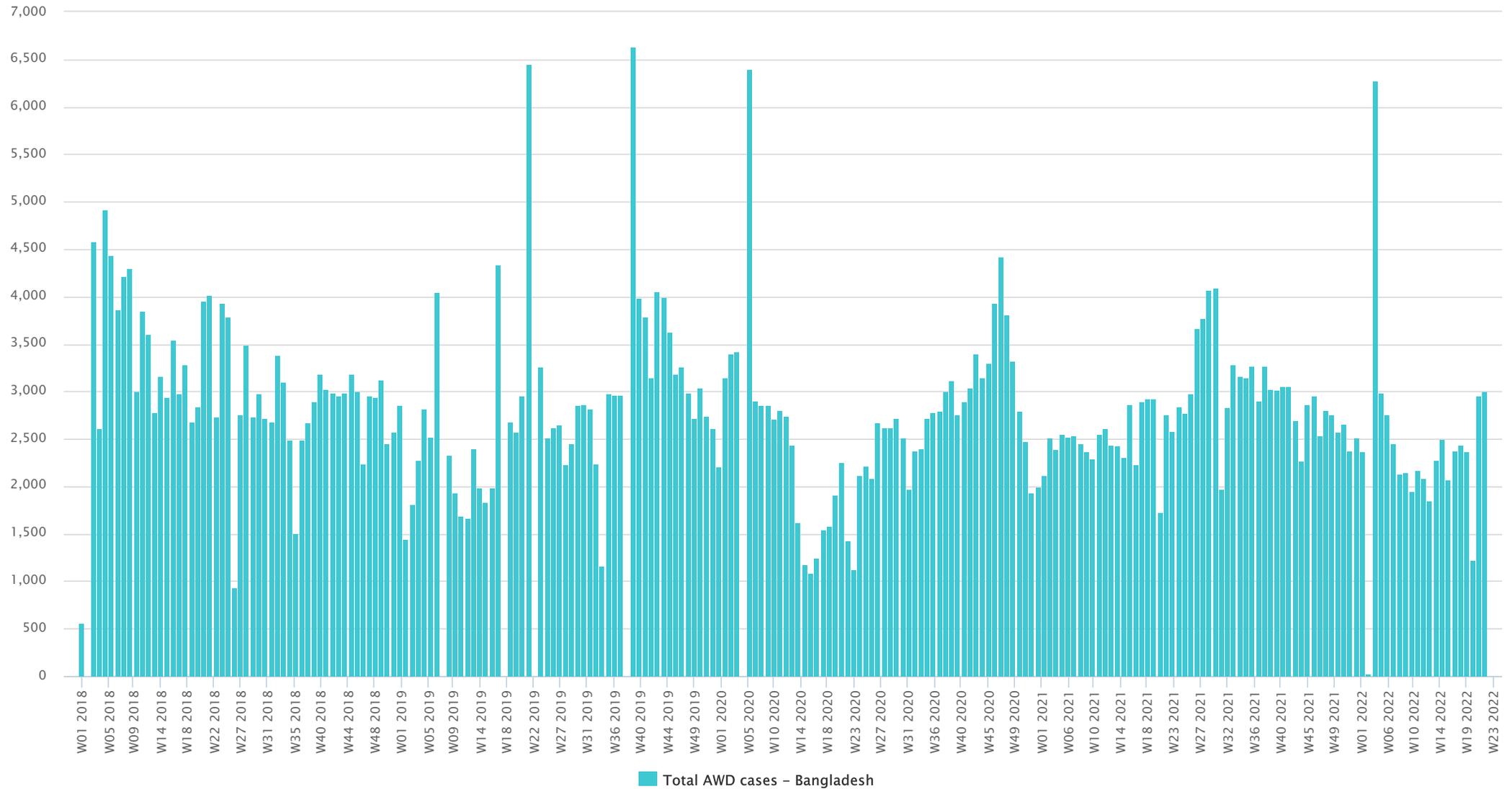
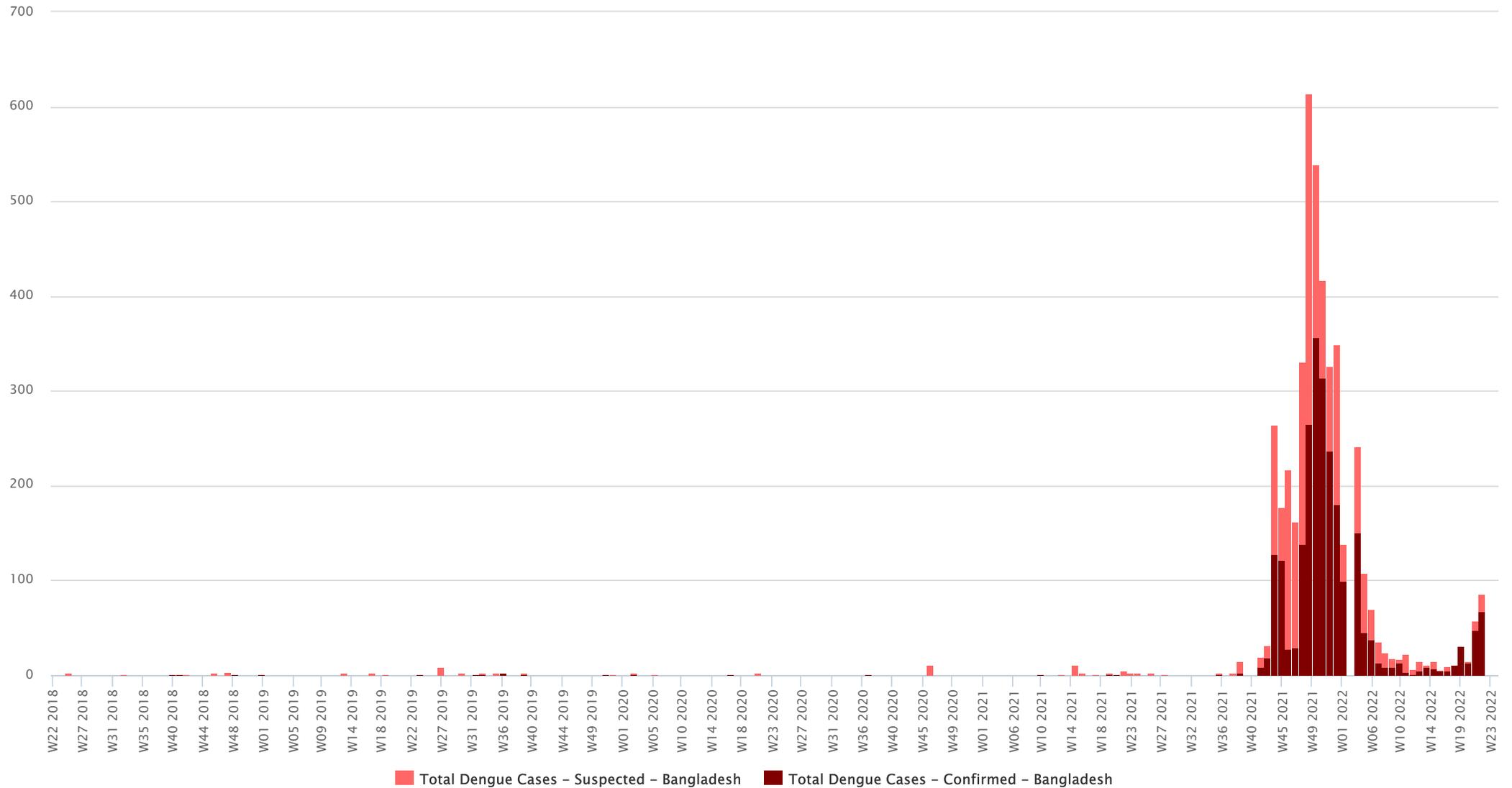
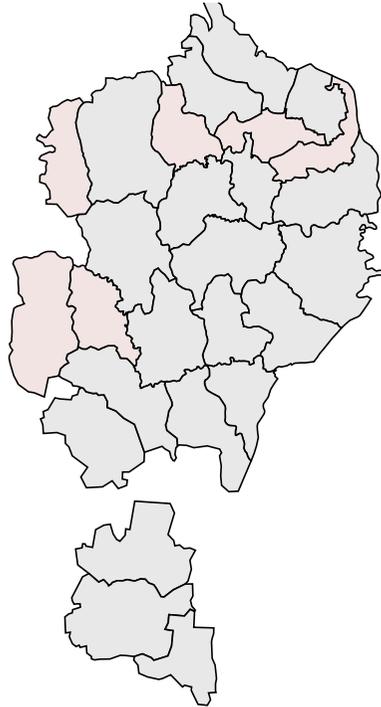


Figure 7 | Trend in number of cases over time (W38 2017 - W21 2022)

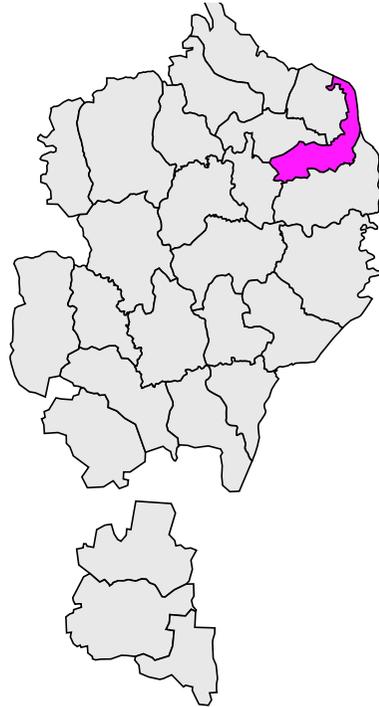


Map 4 | Map of cases by camp (W37 2017 - W21 2022)

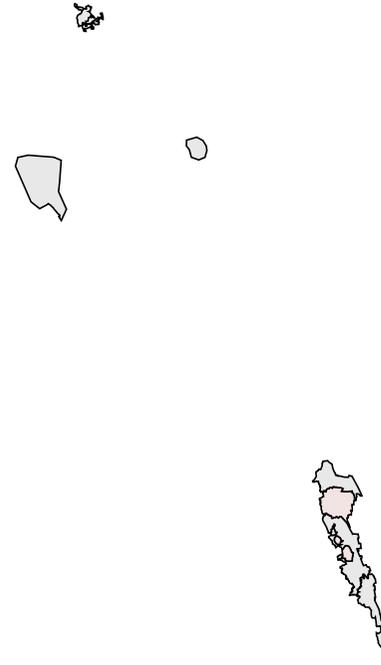
a. Ukhia | Number of cases



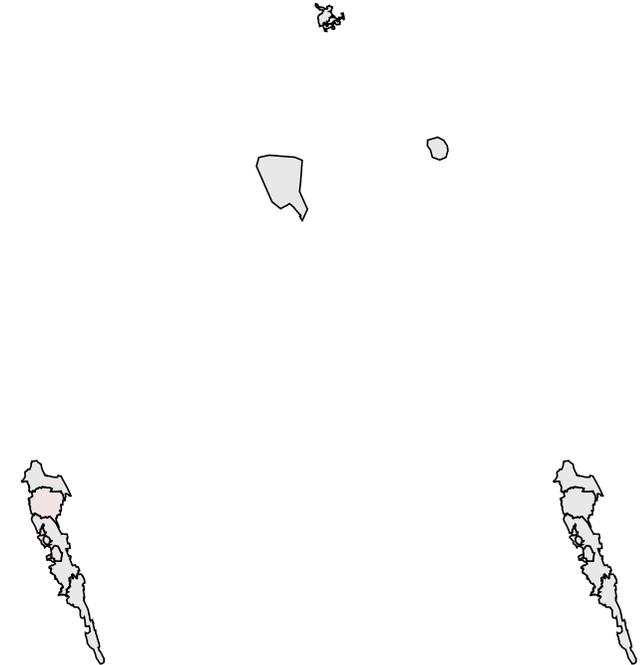
b. Ukhia | Number of alerts



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 (W21 2022)



Figure | % sex

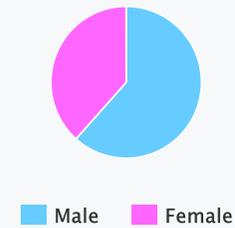


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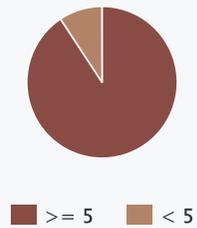
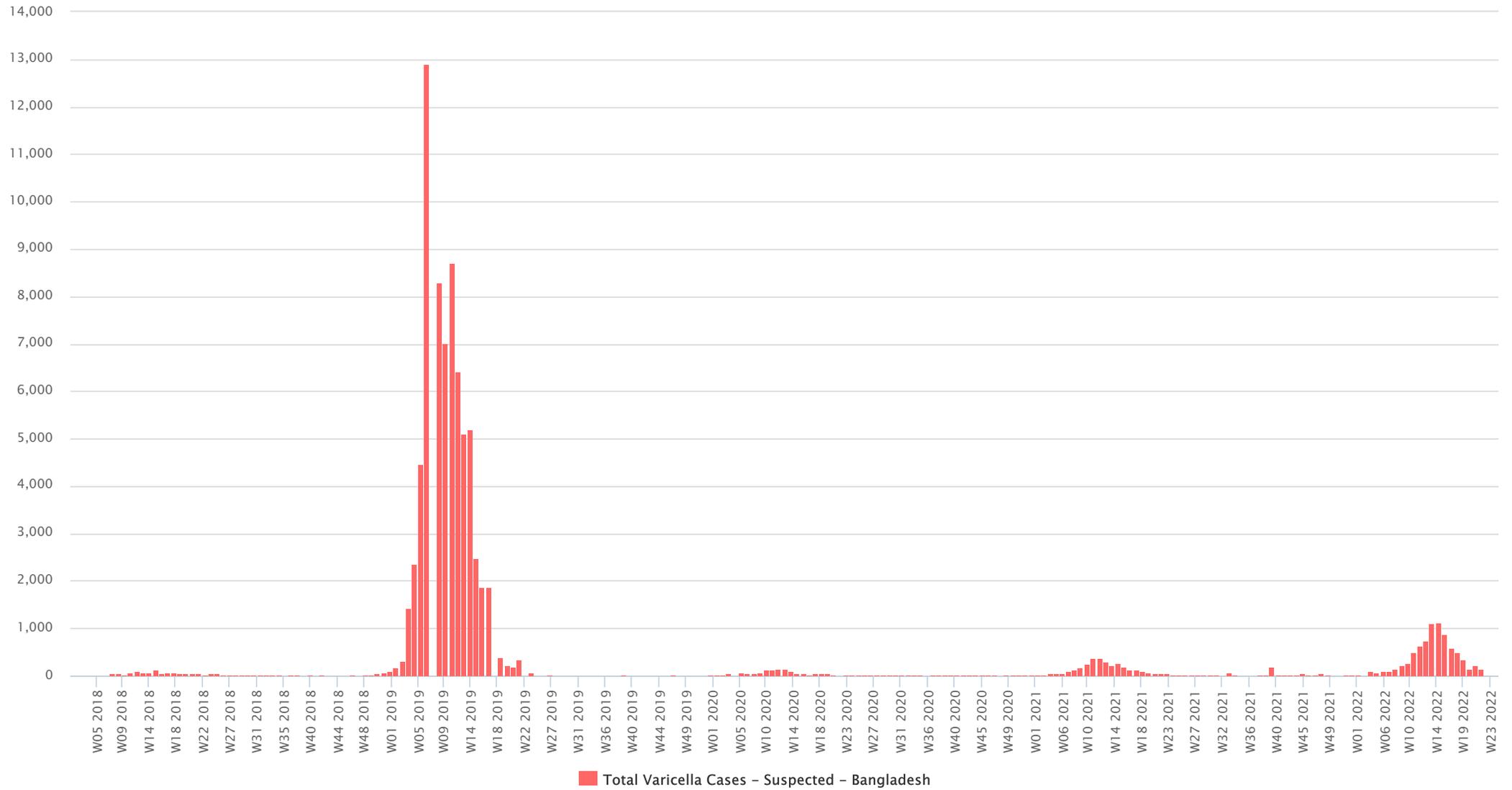
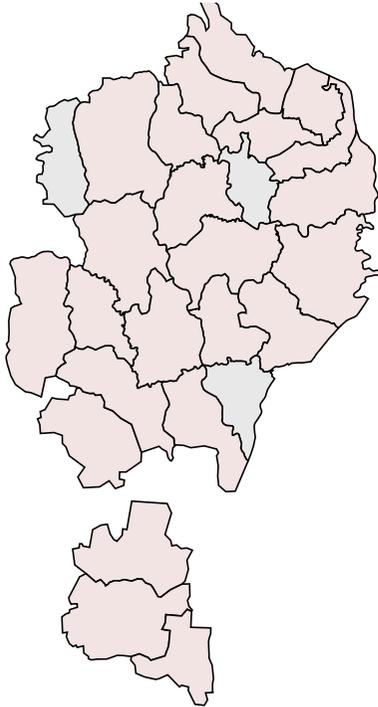


Figure 7 | Trend in number of cases over time (W38 2017 - W21 2022)

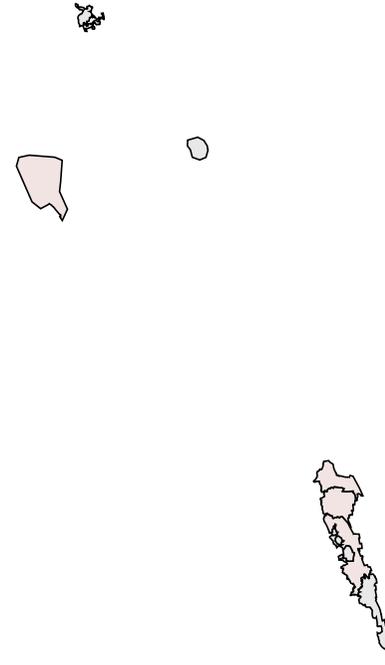


Map 4 | Map of cases by camp (W37 2017 - W21 2022)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

Number of cases

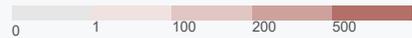
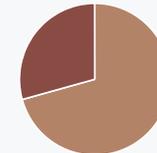


Figure | % sex



Male Female

Figure | % age



< 5 >= 5

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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.

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