



Epidemiological Highlights

Week 4 (24-30 Jan 2022)



**World Health
Organization**

Highlights: COVID-19

As of week 4, (24-30 Jan 2022) there were 3,703 confirmed cases of COVID-19 (SARS-CoV-2), out of 86,201 samples that had been submitted for testing. The total positivity rate now stands at 4.3%.

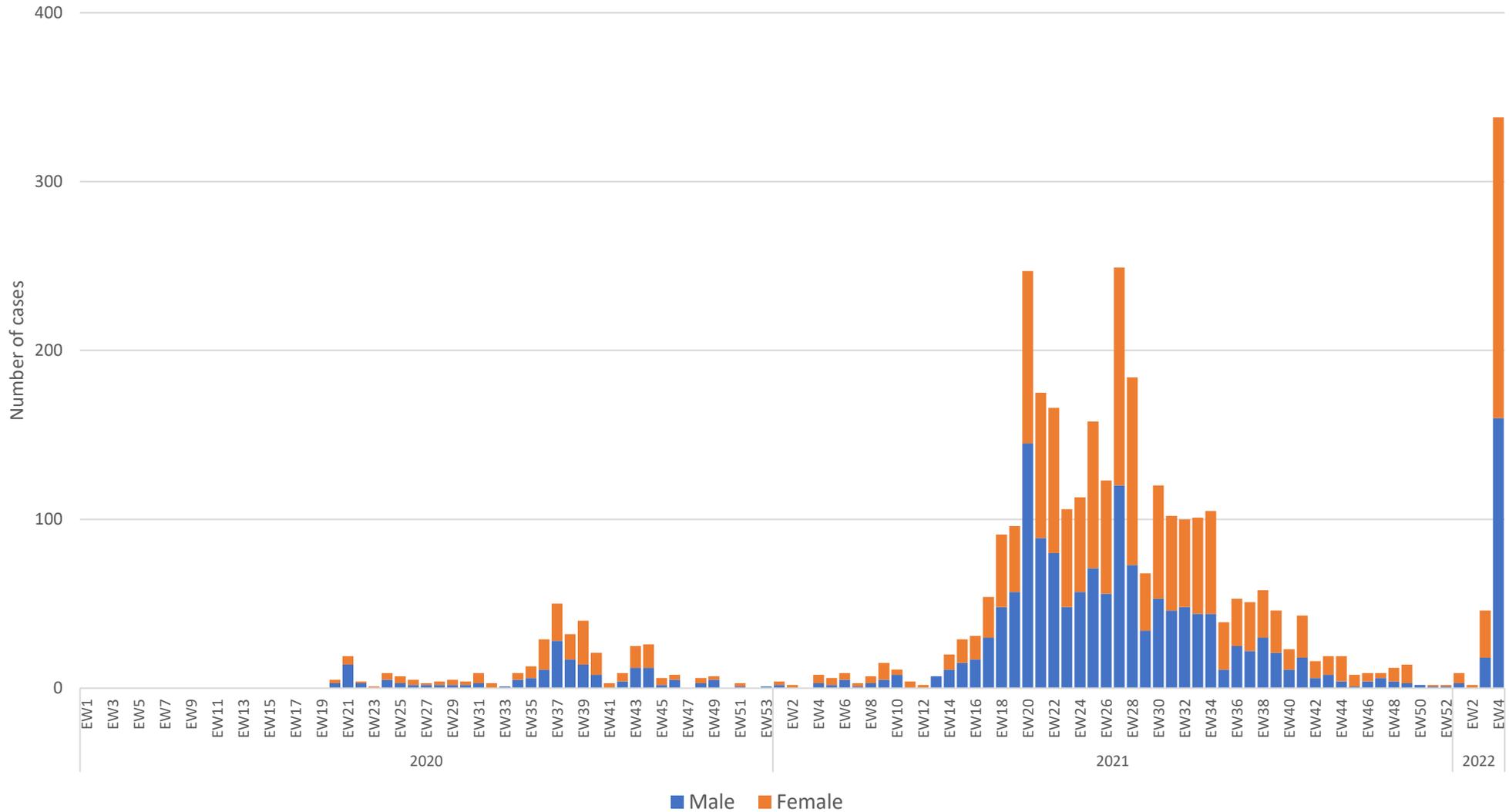
In the reporting week, three hundred and thirty-eight (338) new confirmed cases were detected out of 1,610 total samples tested. This translated to a 21.0% Test positivity Rate (TPR) which is up from 3.3% reported the previous week.

As of this week (week 4)

- 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; C2W-237, C24-228, C3-222, C17-220, and Camp4-211.
- One new death was reported in this Epi week. Total confirmed COVID-19 deaths so far reported to date stands at 35 with the average case fatality ratio of 0.9%
- The weekly incidence was 393.1 cases/1 million population in this Epi week which is higher in comparison with the previous week's 53.5 cases/1 million population.

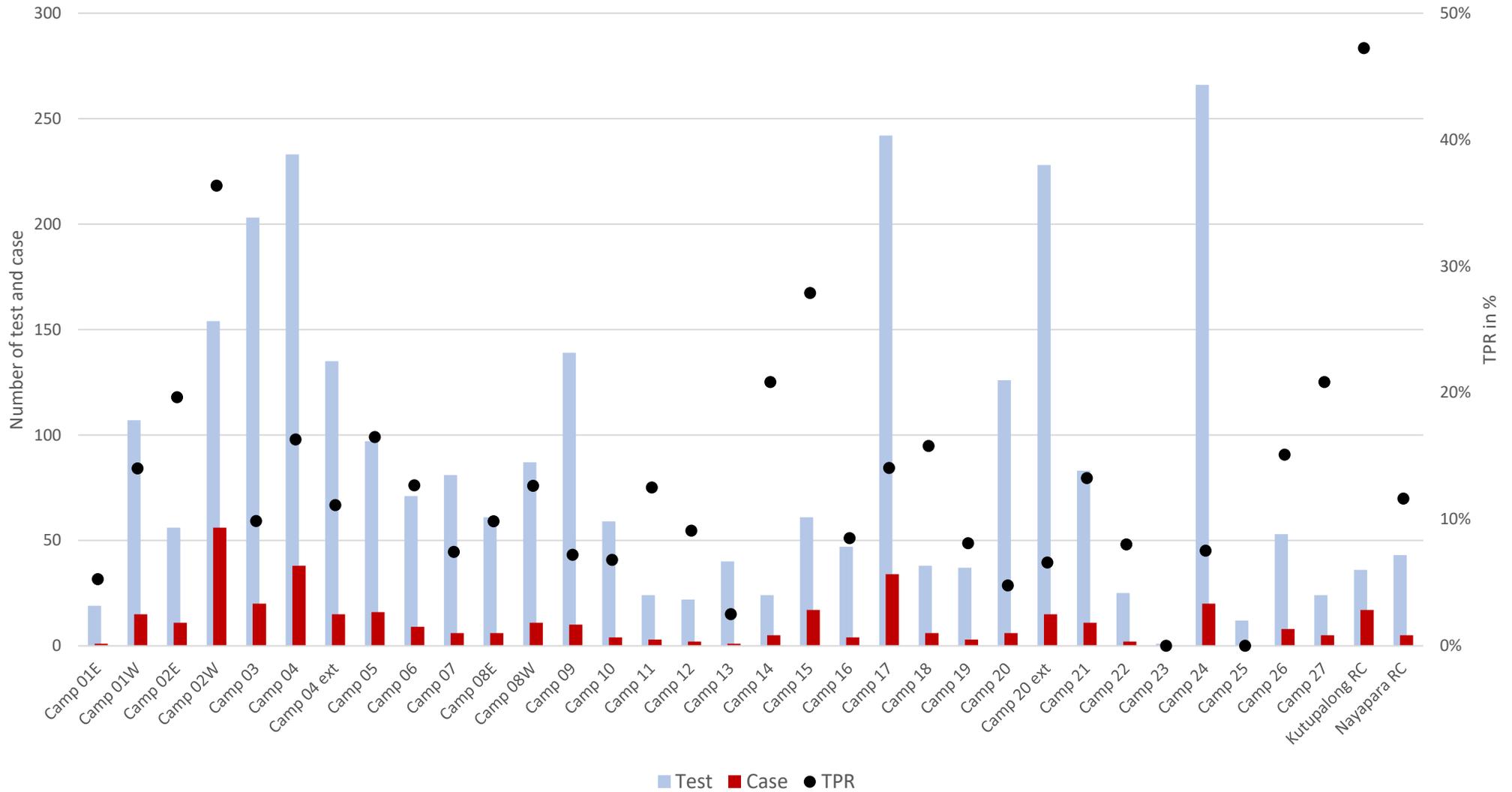
Highlights: COVID-19

COVID-19 positive cases (n=3,703) by epidemiological week by date of test



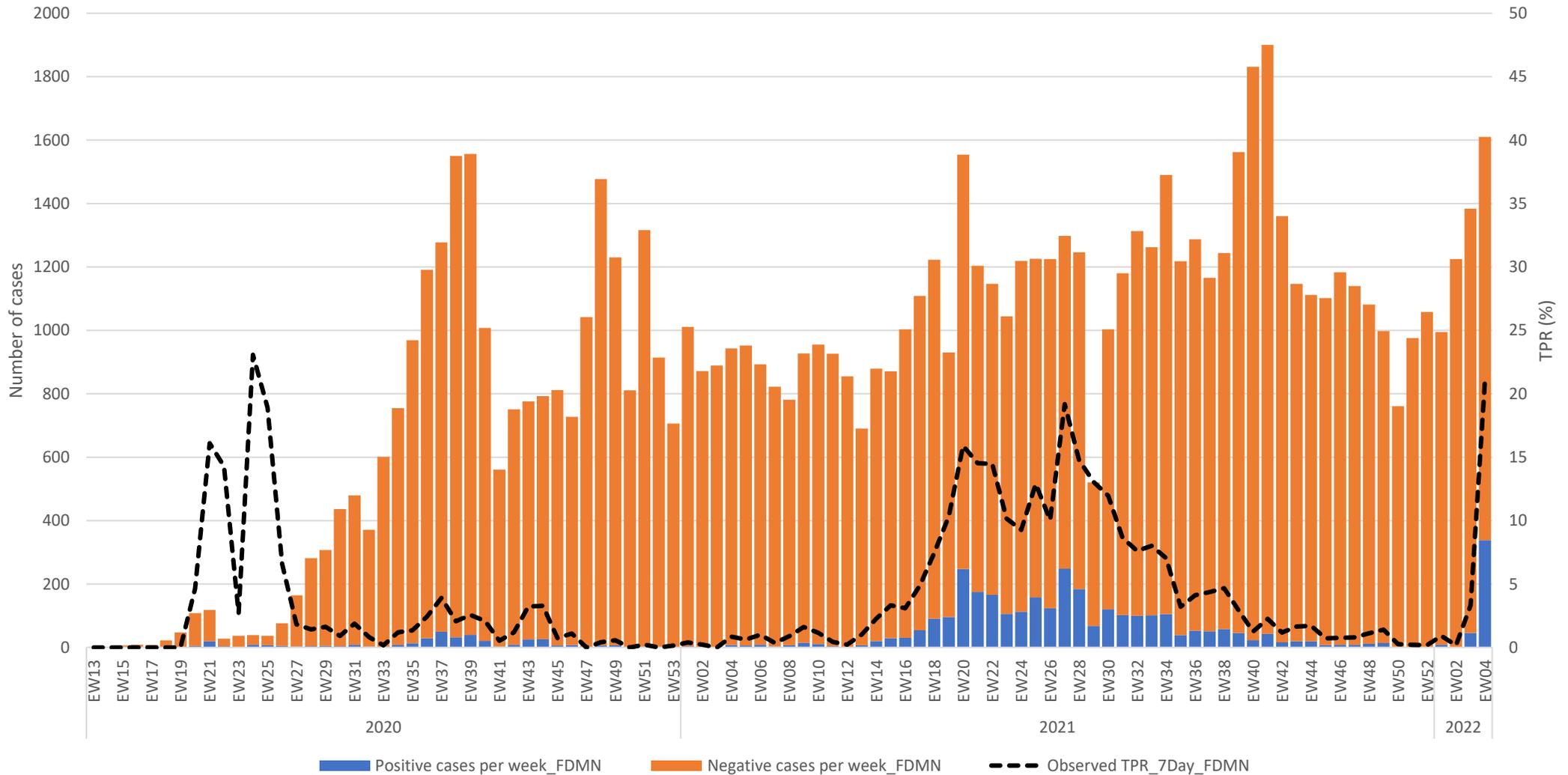
Highlights: COVID-19

COVID-19 test case and TPR per camp, week 03-04

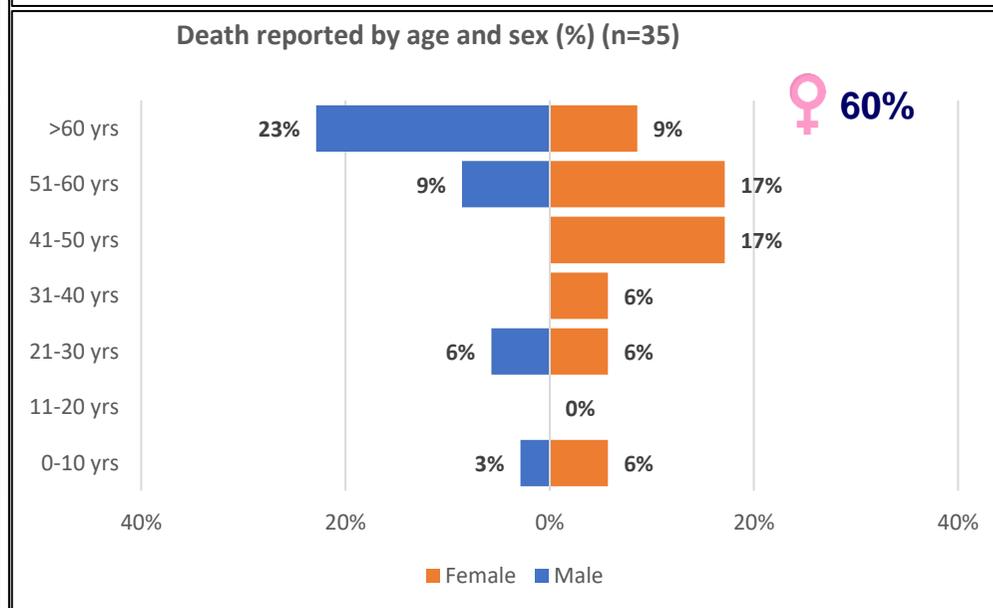
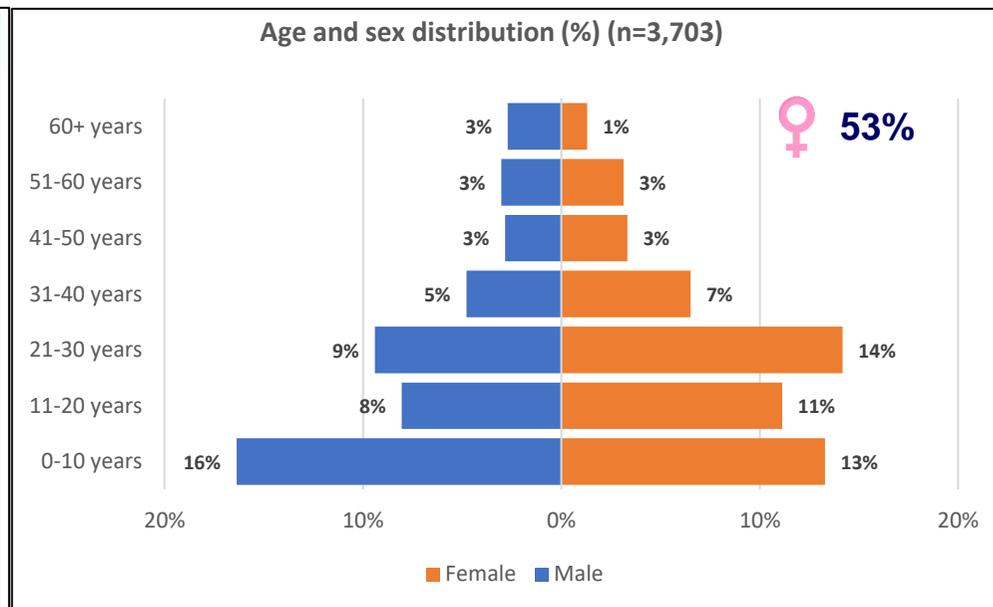
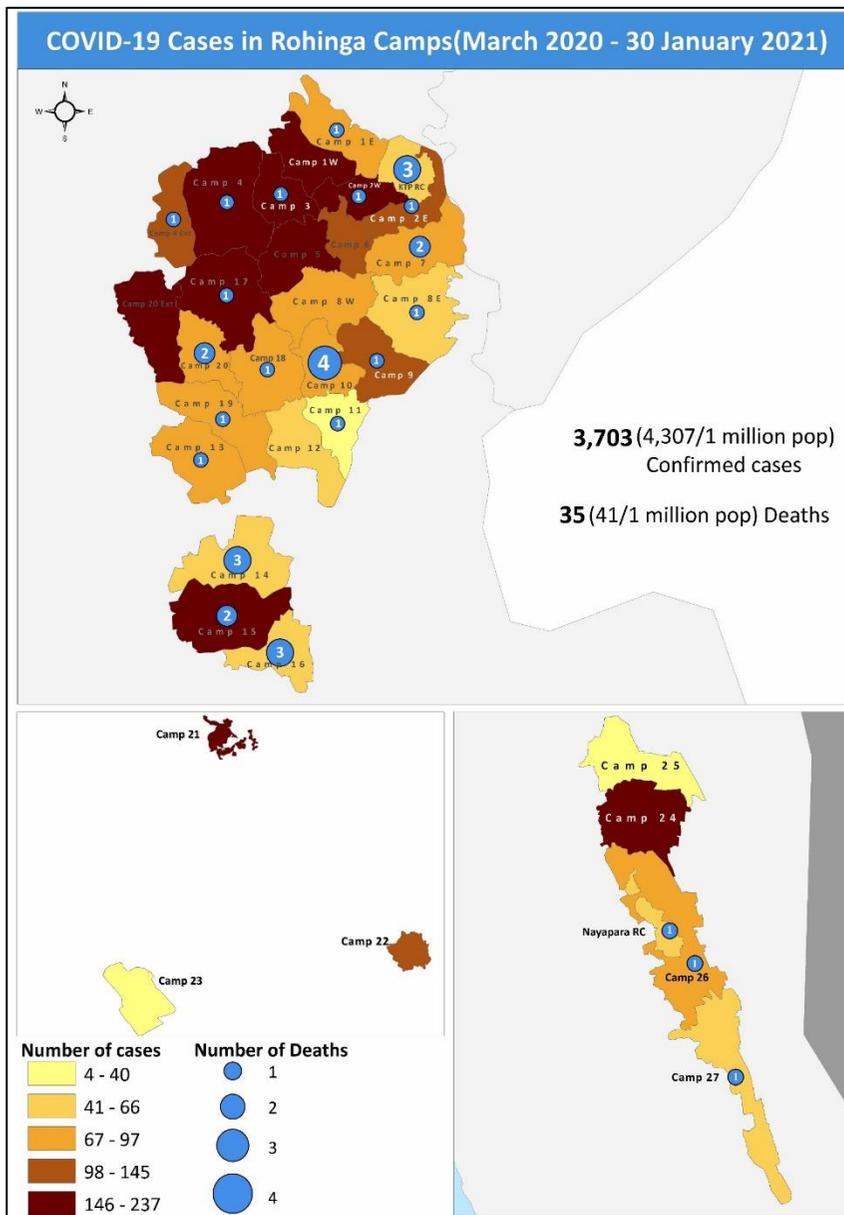


Highlights: COVID-19

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

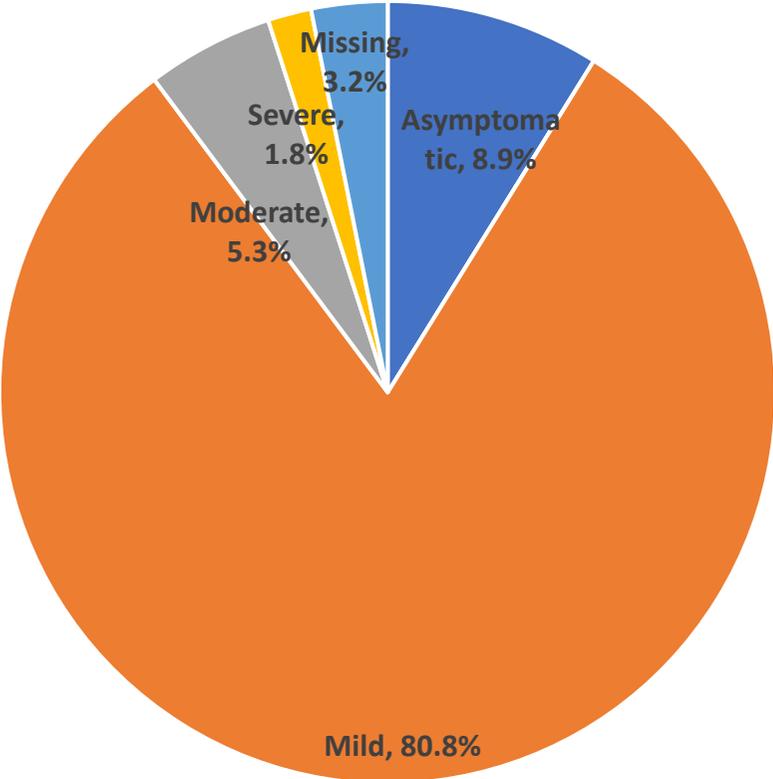


Highlights: COVID-19

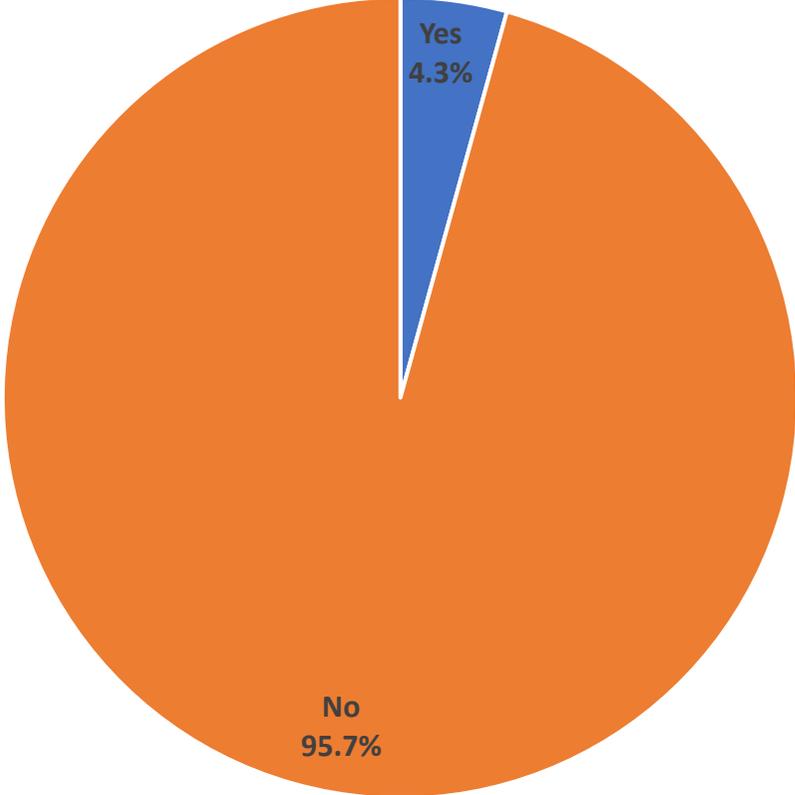


Highlights: COVID-19

Severity of reported cases at presentation (n=3,316)



Did the case report at least 1 co-morbidity (n=3,316)



Source: Go.Data

Highlights: COVID-19

- Total 3,316 (out of 3,703) of the confirmed cases have been investigated by the Rapid Investigation and Response Team(RIRTs)
- Contact tracing continues to be undertaken by CT supervisors with 9,558 (79%) contacts registered for follow-up in the Go.Data out of 12,042 total contacts so far were identified during the field investigation.
- 7,613 (80%) contacts successfully accomplished the follow-up.
- 325 household contacts tested positive within the incubation period. This translates to a 3.4% seroconversion rate based on contacts registered in Go.Data

Source: Go.Data

EWARS Reporting Updates

- Currently, a total of 168 health facilities are registered in EWARS
 - In week 4, 141/168 weekly reports were received on time
 - Timeliness of reporting for this week was 83%
 - Seventy-six (76) alerts were triggered in the reporting period
 - All alerts are reviewed and verified by the WHO EWARS team; the number is less than that of the previous week (94 alerts in week 3, 2022).

Highlights: Morbidity and Mortality

- Acute Respiratory Infections (18.0%), Diarrheal Diseases (4.1%) & Injury and wounds (1.8%) were the diseases and health conditions with the highest proportional morbidity in week 4.
- Monitoring of suspected SARI death under enhanced community-based mortality surveillance has been continued since week 28, 2020. This Epi week, there were two (2) suspected SARI death reported, which stands in total 16 in 2022 and further details given below

Year	Suspected SARI death reported	Reclassified as probable death due to COVID-19
2022	16	1
2021	96	15
2020	49	2

Diphtheria Surveillance Updates

Two (2) confirmed and 4 suspected diphtheria cases were reported in Go.Data in this week

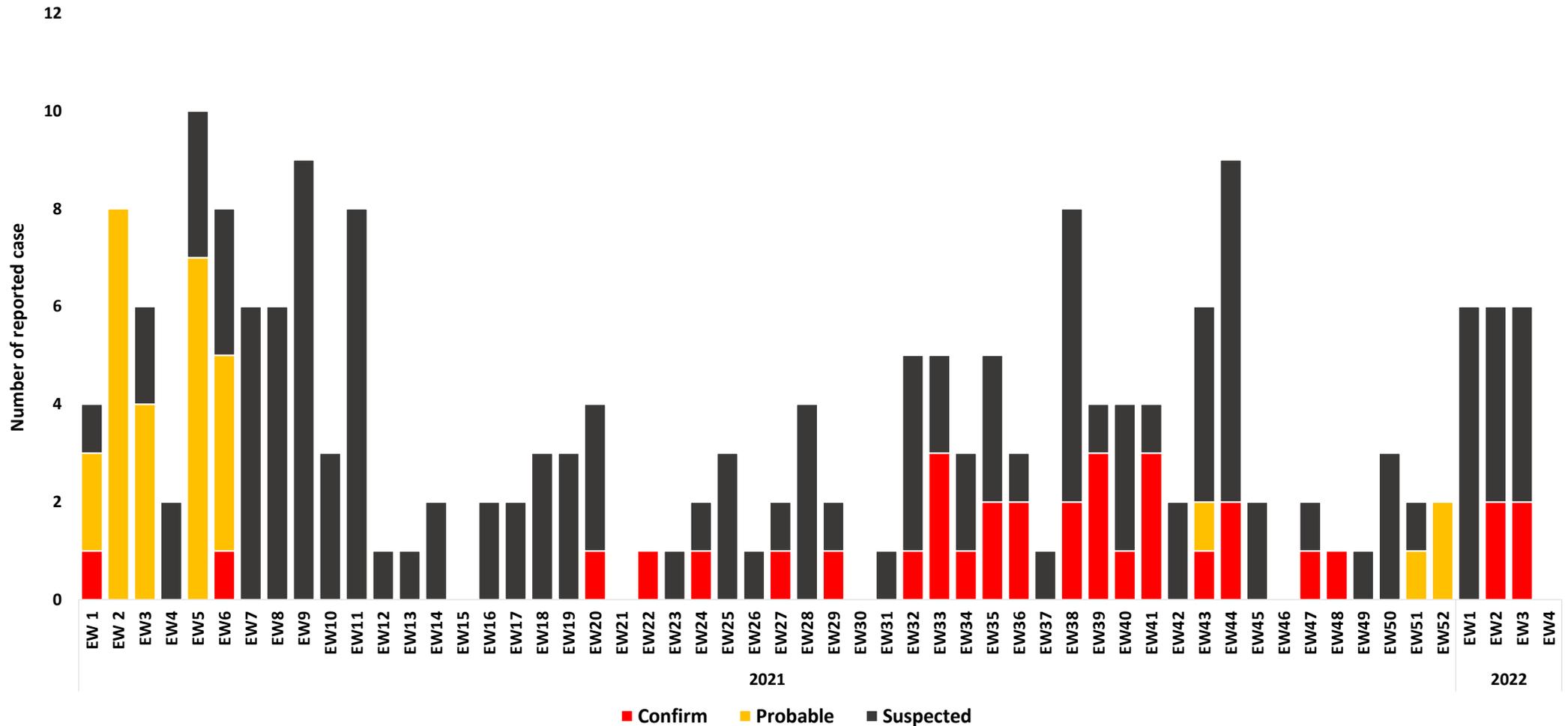
The last confirmed case was reported on 15 January 2022

In total 52 deaths have so far been reported since 2017, the last death reported on 5 November 2021

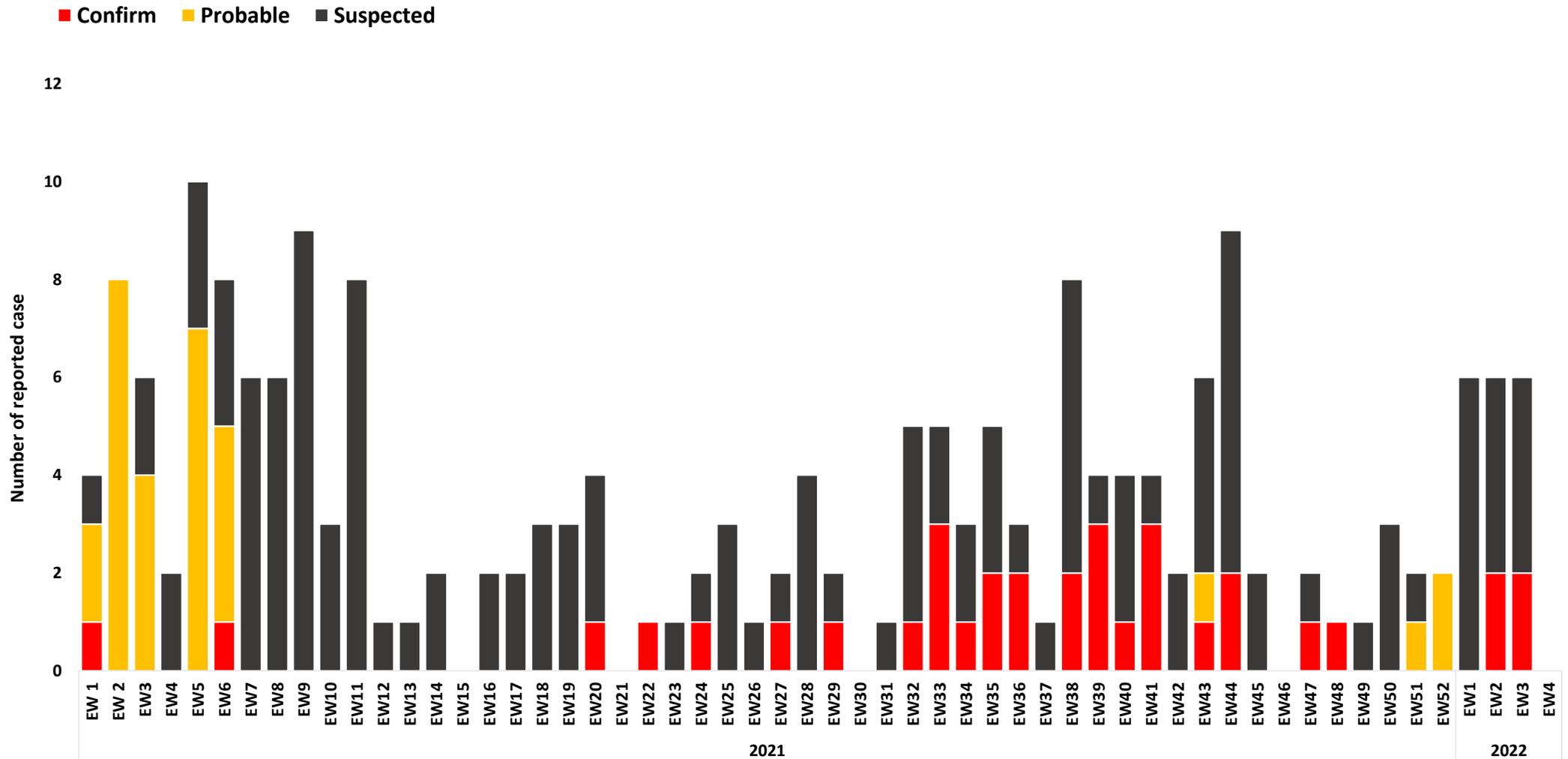
Classification	2017	2018	2019	2020	2021	2022
Confirmed	66	226	31	19	30	2
Probable	1154	1555	60	9	29	0
Suspected	1796	3549	523	198	118	10
Death	30	14	3	0	5	0

Diphtheria Surveillance Updates

Total number of diphtheria case reported in EWARS from 2021- EW4, 2022



Diphtheria Surveillance Updates

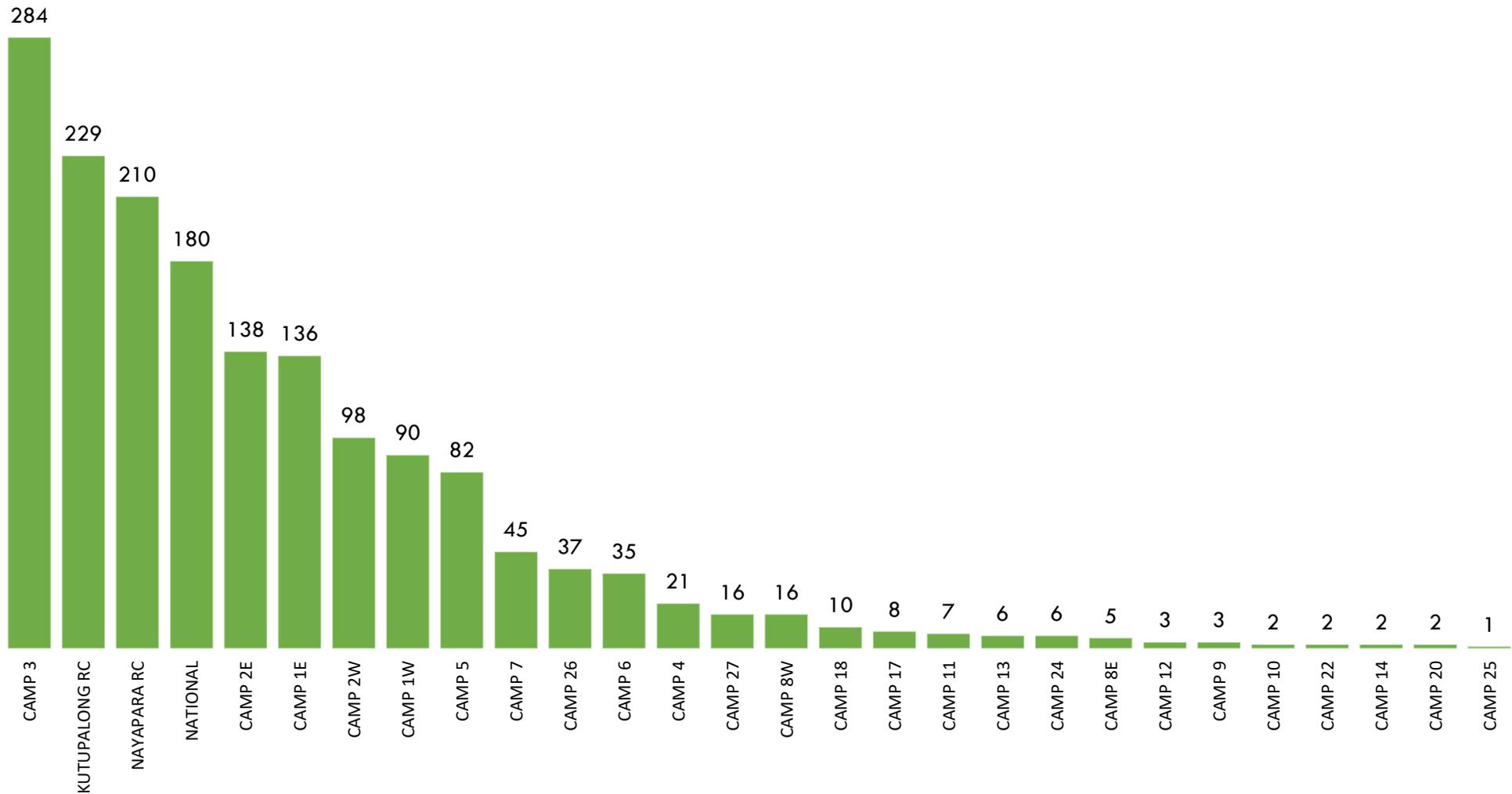


Dengue Surveillance Updates, 2021-22

Year	Month/Epi Week	Week/month		Cumulative	
		Confirmed case	Death	Confirmed case	Death
2021	Jan-Mar	1	0	1	0
	Apr-Jun	3	0	4	0
	Jul-Sep	6	0	10	0
	Oct-Dec	1,494	3	1,504	3
2022	W1 (3-9 Jan)	88	0	1,592	3
	W2 (11-17 Jan)	53	0	1,645	3
	W3 (17-23 Jan)	41	0	1,686	3
	W4 (24-30 Jan)	13	0	1,699	3

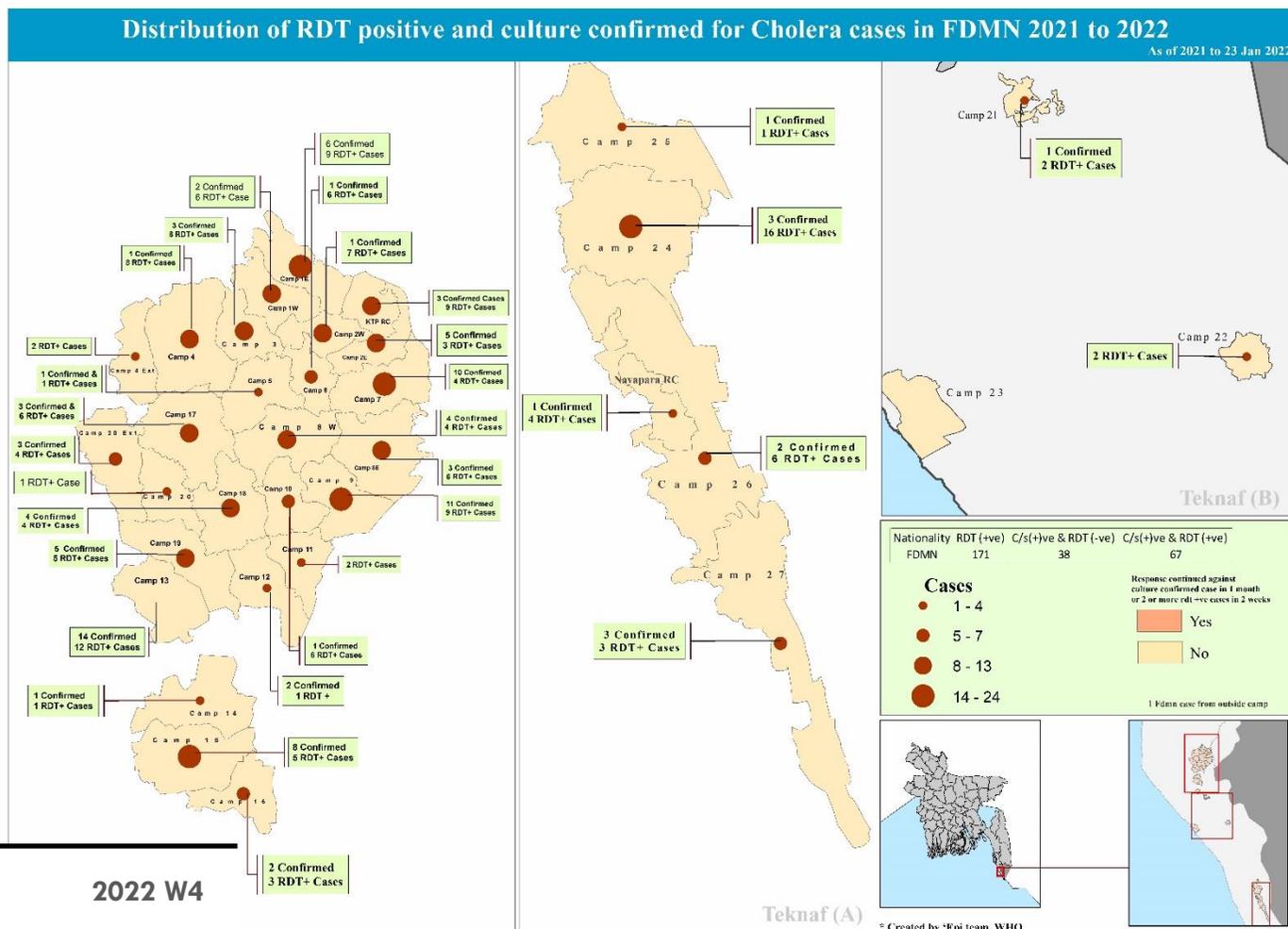
Dengue Surveillance Updates, 2021-22

Geographical distribution of Dengue confirmed cases (n=1,699)



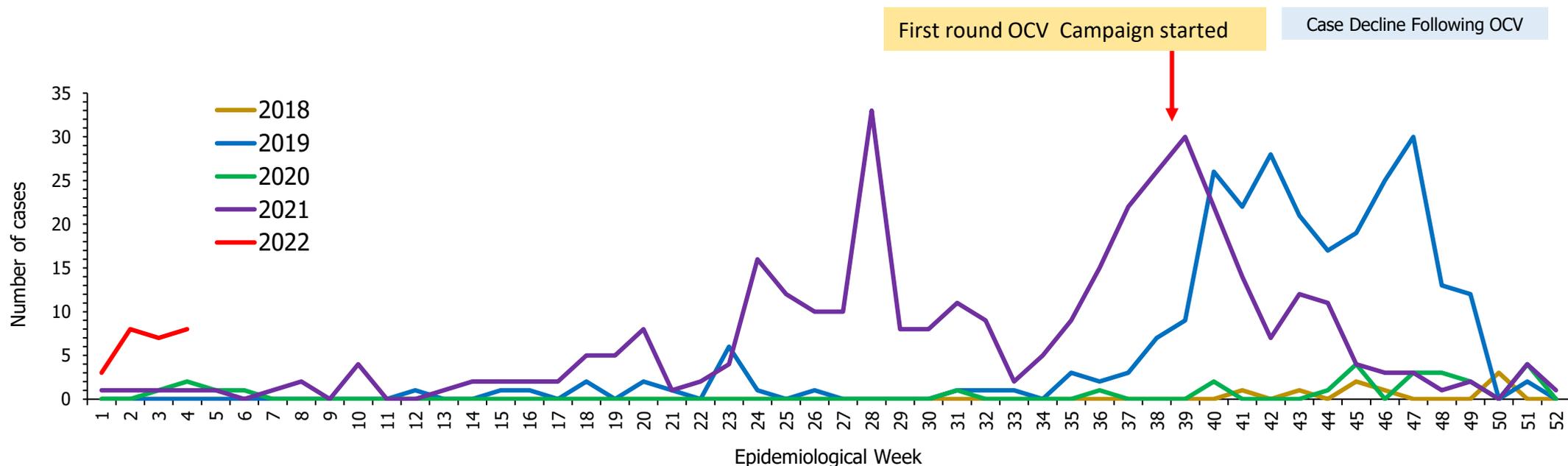
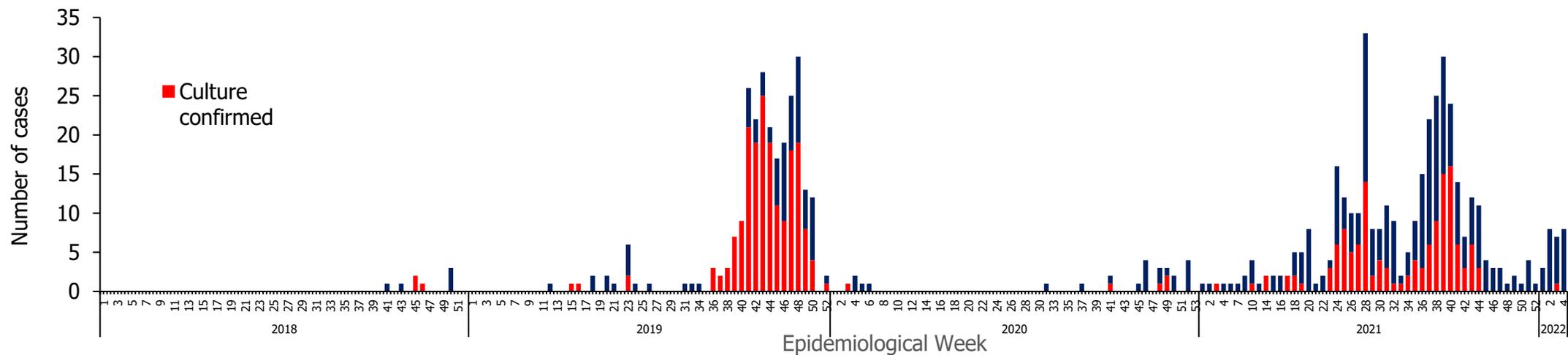
Cholera/AWD Surveillance Updates, 2017-2022 W4

- In this week, eight (8) RDT positive cases were reported, among samples sent for testing.
- In 2022 total of twenty-six (26) cholera cases were reported as of W4 2022. Of these 1 was positive 16 were negative and 9 awaiting laboratory confirmation.
- In 2020, a total of 28 RDT/Culture positive cases for Cholera were detected through sentinel testing. Specifically, 5 became confirmed by culture – 2 from Ukhiya Host, 1 from Teknaf host, and 2 from Refugees.



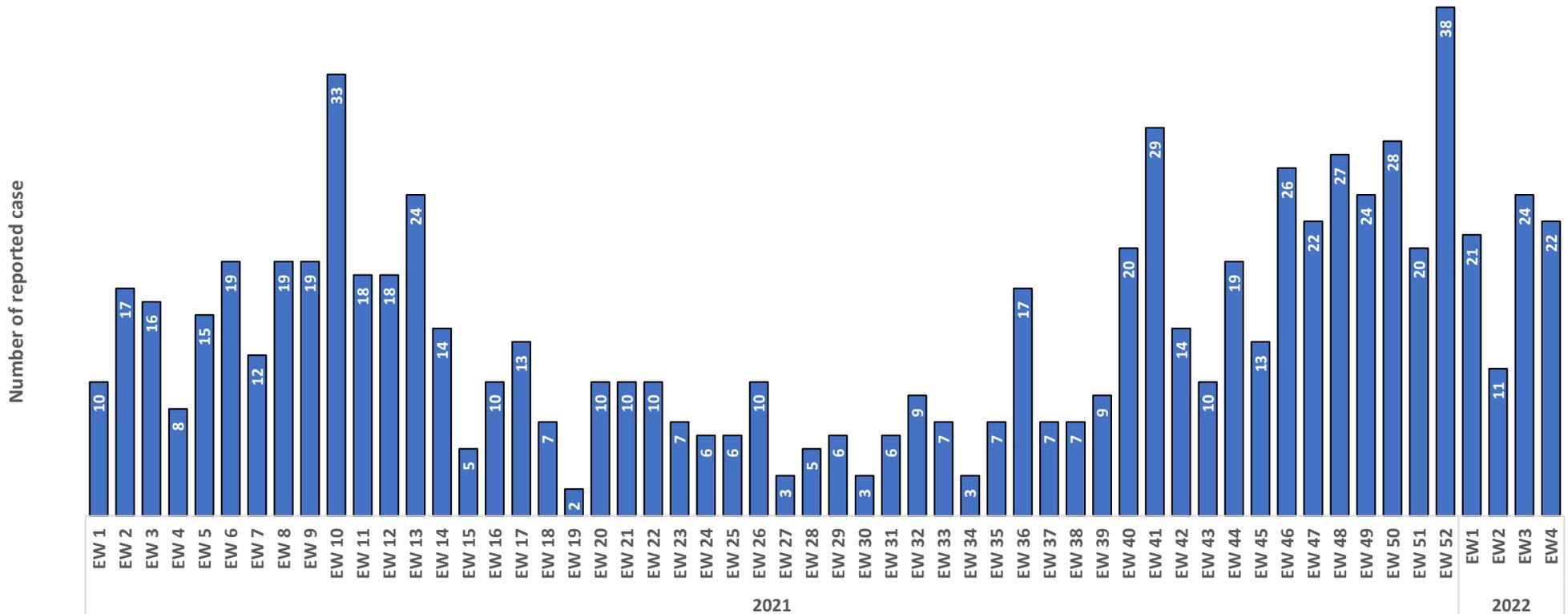
	2018	2019	2020	2021	2022 W4
RDT positive/culture confirmed for Cholera	49	258	28	357	26
Culture confirmed for Cholera	7	184	5	136	1

Epidemic curve of cholera, Cox's Bazar District, 2017-Epi Week 4, 2022



Measles Surveillance Updates, 2021-22

Total number of Measles case reported in EWARS from 2021- W4, 2022



- > In week 4, 22 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 78 reported in 2022.
- > Sixty-eight (68%, 53/78) percent of the total reported suspected measles cases were reported through case-based reporting and samples collected for laboratory confirmation

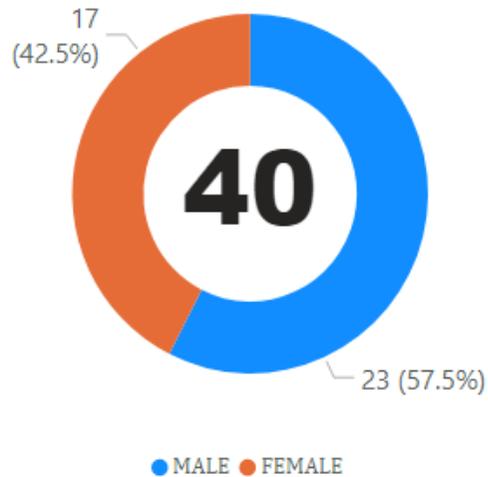
Community-based Mortality Surveillance Updates

Probable Cause of Death	Week 4	In 2022
Still Birth	9 (23%)	25 (14%)
Neonatal Death (<28 days old)	3 (7%)	13 (7%)
Infectious Disease	1 (3%)	5 (4%)
Severe Acute Respiratory Infection (SARI)	--	5 (4%)
Injury	--	2 (1%)
Maternal Death	--	6 (3%)
Acute Malnutrition	--	--
Other	26 (64%)	118 (67%)
Total	40 (100%)	174 (100%)

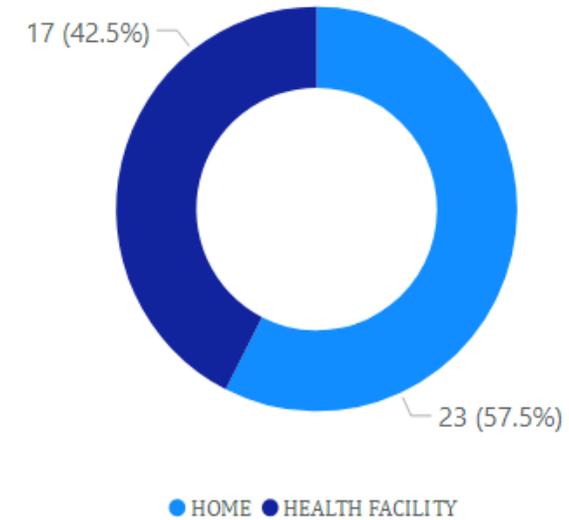
- Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable.

Community-based Mortality Surveillance Updates

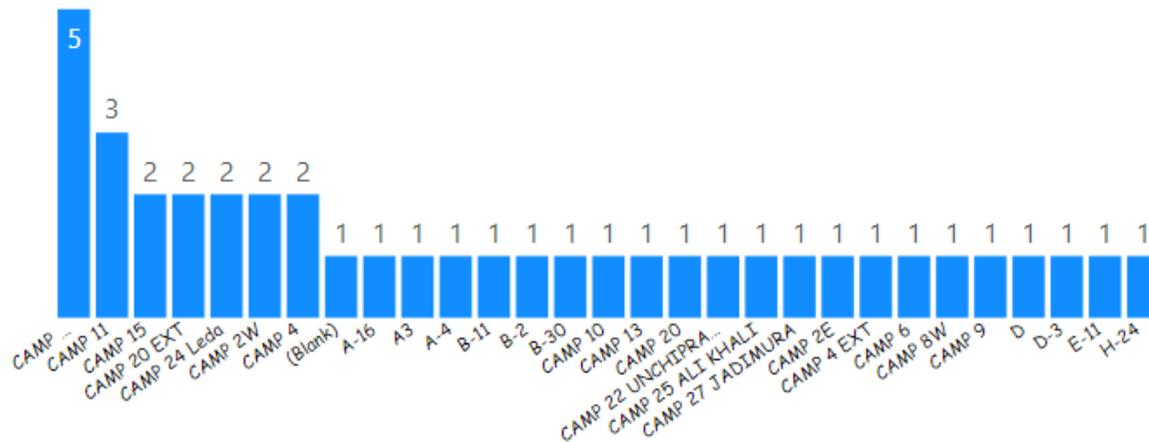
Gender distribution



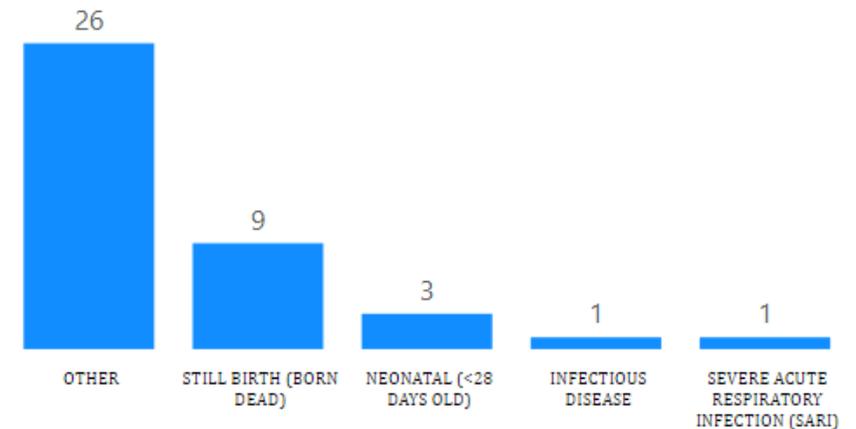
Place of death



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W4 2022



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



HEALTH SECTOR
COX'S BAZAR



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Sources of data

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

Table 1 | Coverage

#	%	
918,841	-	Estimated total Rohingya population ¹
902,066	98%	Total population under surveillance
175	-	Total number of health facilities
168	96%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W4	Cumulative (2022)	
141	778	Number of weekly reports received
83%	93%	Completeness
83%	88%	Timeliness

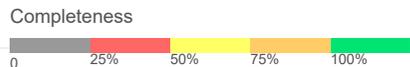
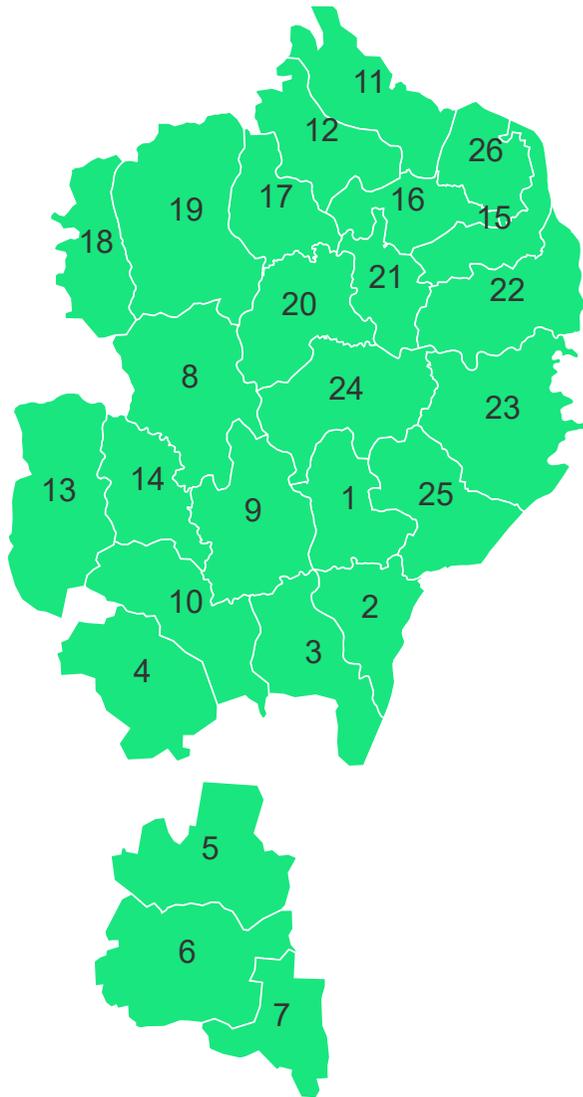
Table 3 Alert performance indicators

W4	Cumulative (2022)	
76	462	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

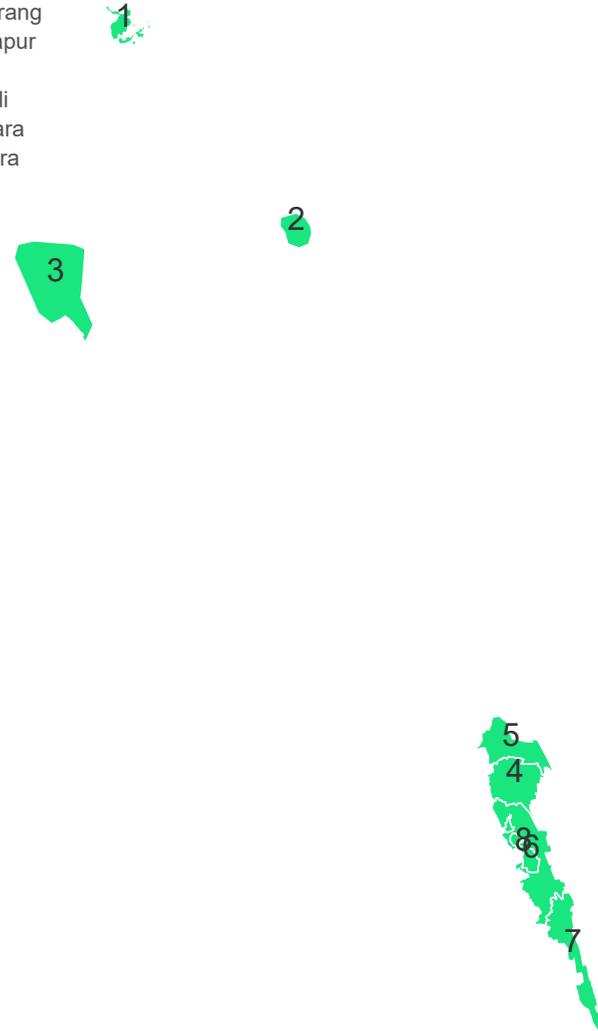


Table 4 | Performance by camp (W4 2022)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	3	75%	75%
Camp 1W	5	4	80%	80%
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	4	80%	80%
Camp 6	3	2	67%	67%
Camp 7	5	3	60%	60%
Camp 8E	7	6	86%	86%
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

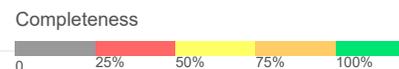
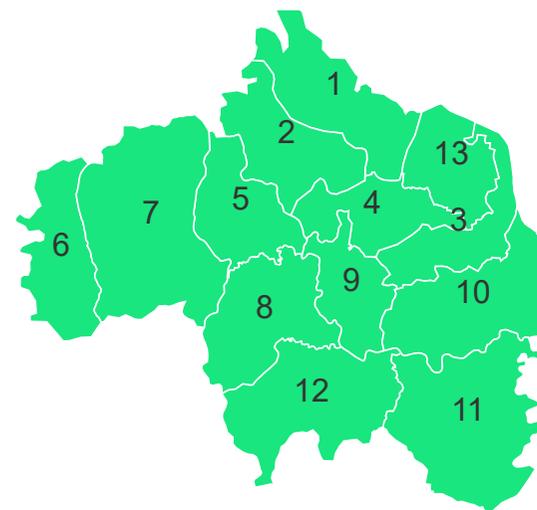


Table 5 | Performance by camp (W4 2022)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	100%
Camp 11	7	7	100%	100%
Camp 12	6	6	100%	100%
Camp 13	10	10	90%	90%
Camp 14	7	6	86%	86%
Camp 15	9	7	78%	78%
Camp 16	7	5	71%	71%
Camp 17	5	5	100%	100%
Camp 18	5	5	100%	100%
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

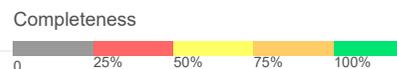
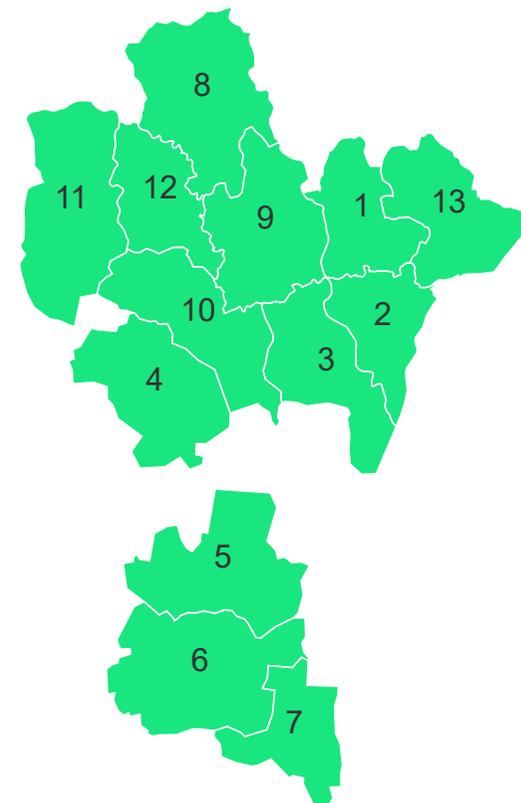


Table 6 | Performance by camp (W4 2022)

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	2	67%	67%
Camp 24 Leda	1	1	100%	100%
Camp 25 Ali Khali	3	3	100%	100%
Camp 26 Nayapara	4	2	50%	50%
Camp 27 Jadimura	2	1	50%	50%
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

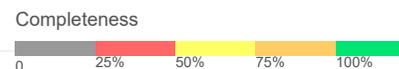
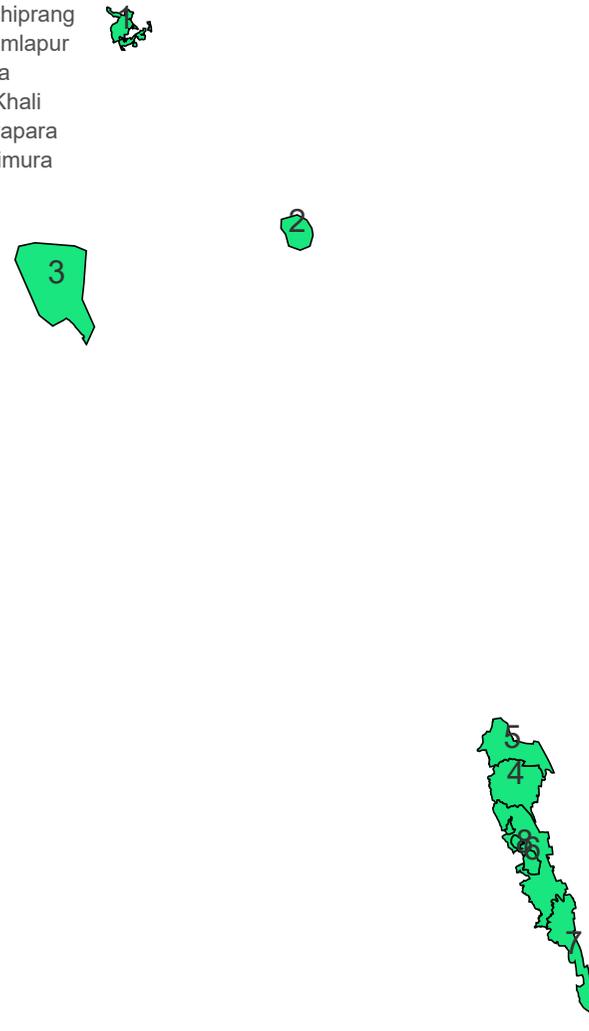


Table 7 | Performance by partner (W4 2022)

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	4	44%	44%
BASHMAH	1	0	0%	0%	MoH	18	14	78%	78%
BDRCS	12	9	75%	75%	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	0	0			PHD	10	10	100%	100%
FRNDS	6	0	0%	0%	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%	SHED	0	0		
HOPE	1	1	100%	100%	Turkish Government	1	1	100%	100%
ICRC	1	1	100%	100%	TdH	2	0	0%	0%
IOM	18	17	94%	94%					

Table 8 | Performance by camp

Northern group	W4		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	2	100%	7	100%
Camp 1W	3	100%	19	100%
Camp 2E	10	100%	52	100%
Camp 2W	2	100%	15	100%
Camp 3	4	100%	28	100%
Camp 4	3	100%	17	100%
Camp 4 Ext	1	100%	4	100%
Camp 5	4	100%	22	100%
Camp 6	2	100%	9	100%
Camp 7	0	0%	13	100%
Camp 8E	1	100%	7	100%
Camp 8W	5	100%	27	100%
Kutupalong RC	0	0%	7	100%

Map 5 | Number of alerts by camp

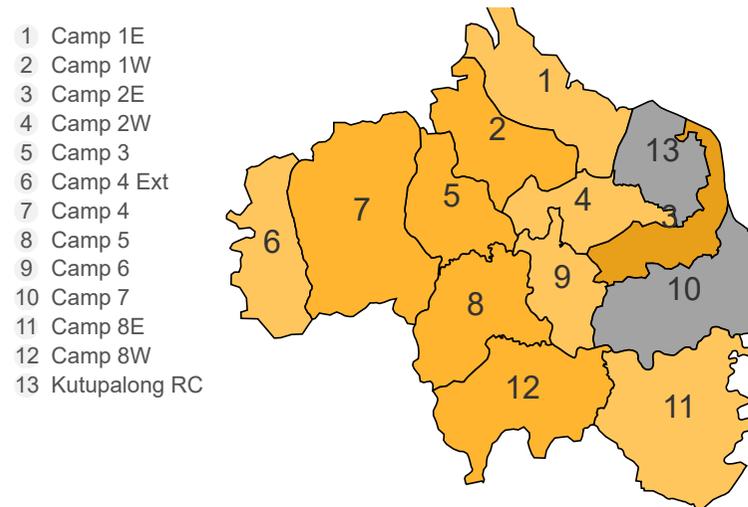


Table 9 | Performance by camp

Southern group	W4		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	5	100%	11	100%
Camp 11	5	100%	15	100%
Camp 12	2	100%	17	100%
Camp 13	4	100%	18	100%
Camp 14	2	100%	7	100%
Camp 15	0	0%	11	100%
Camp 16	1	100%	10	100%
Camp 17	0	0%	5	100%
Camp 18	3	100%	24	100%
Camp 19	1	100%	5	100%
Camp 20	1	100%	8	100%
Camp 20 Ext	3	100%	8	100%
Camp 9	3	100%	21	100%

Map 6 | Number of alerts by camp

- 1 Camp 10
- 2 Camp 11
- 3 Camp 12
- 4 Camp 13
- 5 Camp 14
- 6 Camp 15
- 7 Camp 16
- 8 Camp 17
- 9 Camp 18
- 10 Camp 19
- 11 Camp 20 Ext
- 12 Camp 20
- 13 Camp 9

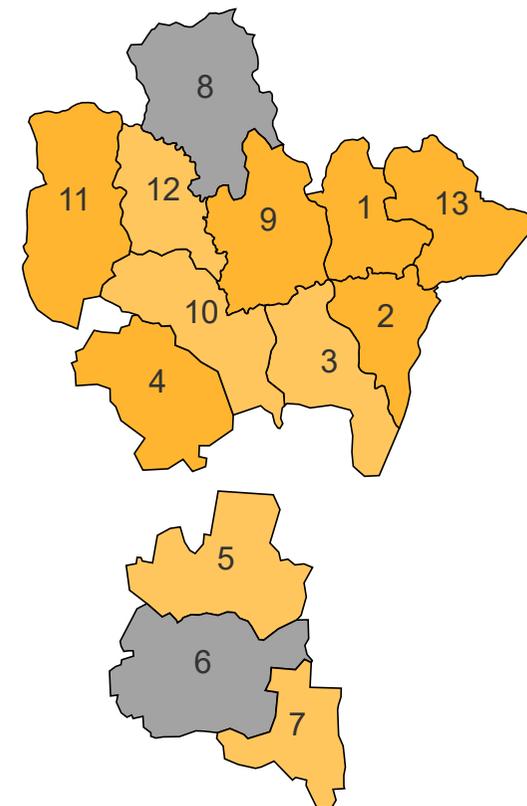


Table 10 | Performance by camp

Teknaf	W4		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	0	0%	7	100%
Camp 22 Unchiprang	1	100%	9	100%
Camp 23 Shamlapur	0	0%	1	100%
Camp 24 Leda	2	100%	12	100%
Camp 25 Ali Khali	1	100%	6	100%
Camp 26 Nayapara	4	100%	19	100%
Camp 27 Jadimura	0	0%	6	100%
Nayapara RC	0	0%	5	100%

Map 7 | Number of alerts by camp

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

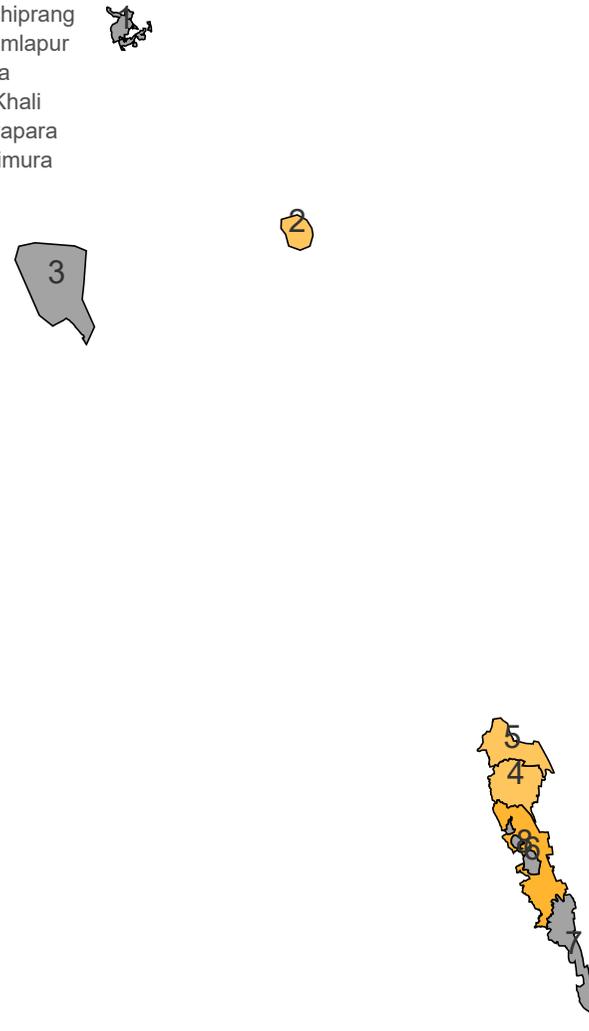


Table 11 | Performance by type of alert

Event	W4		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	1	100%
Measles	12	100%	61	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	1	100%
Meningitis	0	0%	1	100%
Haem. fever (susp.)	0	0%	0	0%
NNT	0	0%	2	100%
Unexp. fever	6	100%	23	100%
AWD	0	0%	42	100%
ARI	7	100%	44	100%
AJS	0	0%	7	100%
Varicella (Susp.)	0	0%	0	0%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	9	100%	35	100%

Table 12 | Risk assessment

W4	Cumulative (2022)	
0	0	Low risk
0	0	Moderate risk
0	0	High risk
0	0	Very high risk

For more help and support, please contact:

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Notes

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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 W4 2022



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



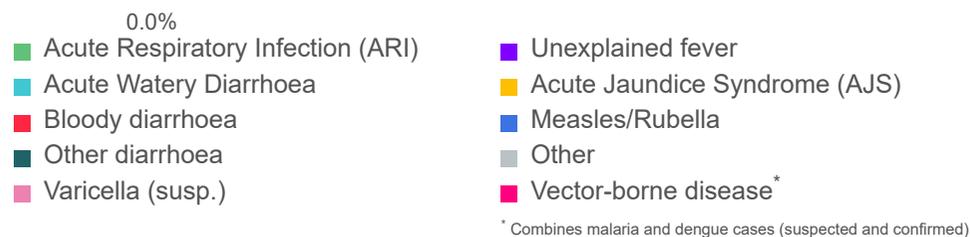
HEALTH SECTOR
COX'S BAZAR



Printed: 06:35 Wednesday, 02 February 2022 UTC

Proportional morbidity

Figure 1 | Proportional morbidity (W4 2022)



Disease	W4		2022	
	# cases	% morbidity	# cases	% morbidity
AWD	2,296	2.5%	13,739	2.6%
Bloody diarr.	320	0.3%	1,965	0.4%
Other diarr.	698	0.8%	4,898	0.9%
Susp. Varicella	68	0.1%	281	0.1%
ARI	20,735	22.4%	103,098	19.7%
Measles/Rub.	22	0.0%	121	0.0%
AFP	0	0.0%	5	0.0%
Susp. mening.	0	0.0%	4	0.0%
AJS	16	0.0%	77	0.0%
Susp. HF	0	0.0%	0	0.0%
Neo. tetanus	0	0.0%	4	0.0%
Adult tetanus	1	0.0%	1	0.0%
Malaria (conf.)	1	0.0%	204	0.0%
Malaria (susp.)	2,292	2.5%	13,740	2.6%
Dengue (conf.)	35	0.0%	330	0.1%
Dengue (susp.)	30	0.0%	223	0.0%
Unexpl. fever	1,065	1.2%	7,146	1.4%
Sev. Malnut.	37	0.0%	394	0.1%
Inj./Wounds	1,506	1.6%	9,652	1.8%
Other	63,150	68.4%	367,809	70.1%
Total	91,326	100%	524,364	100%

Trend in consultations and key diseases

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

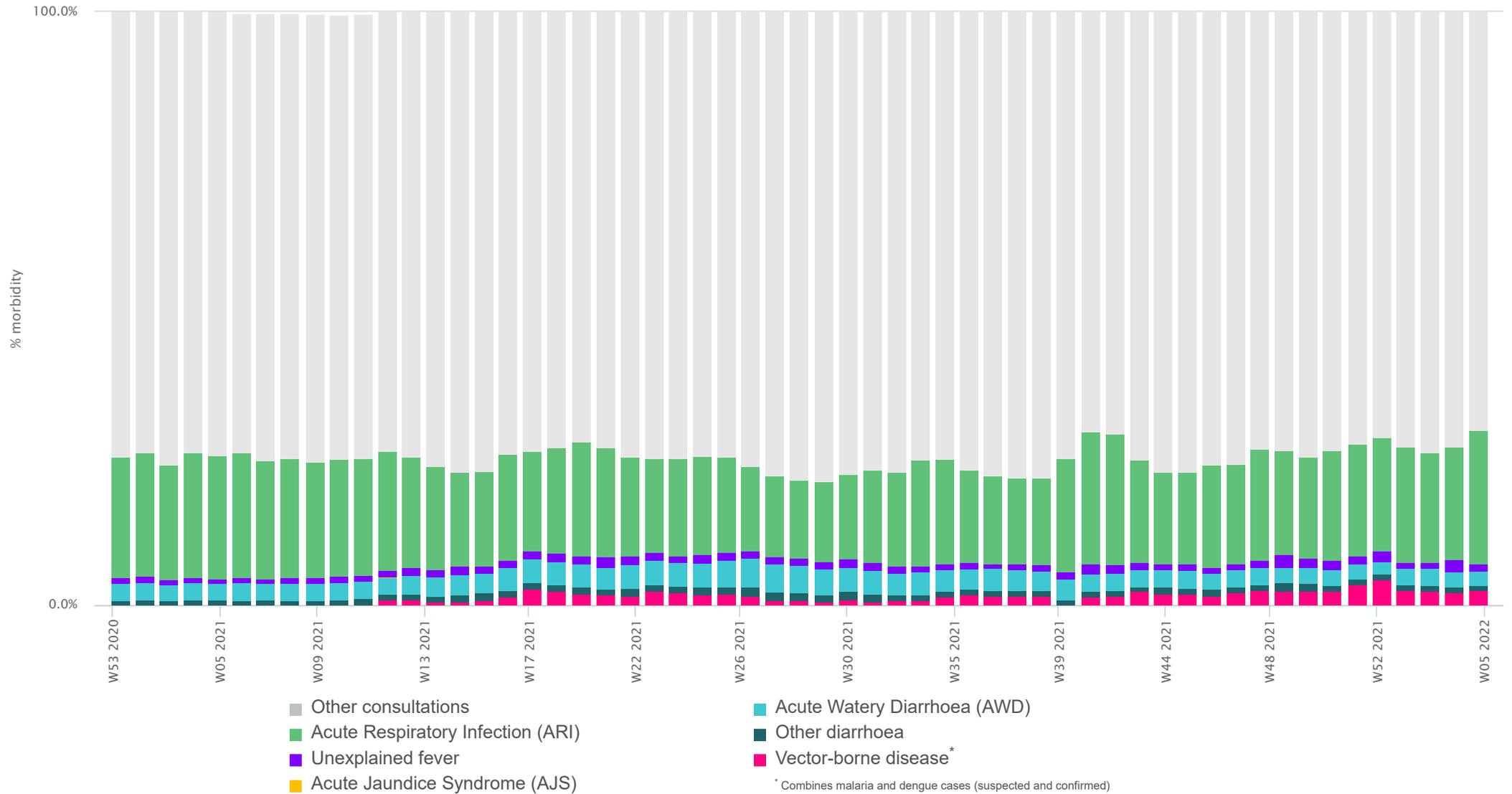
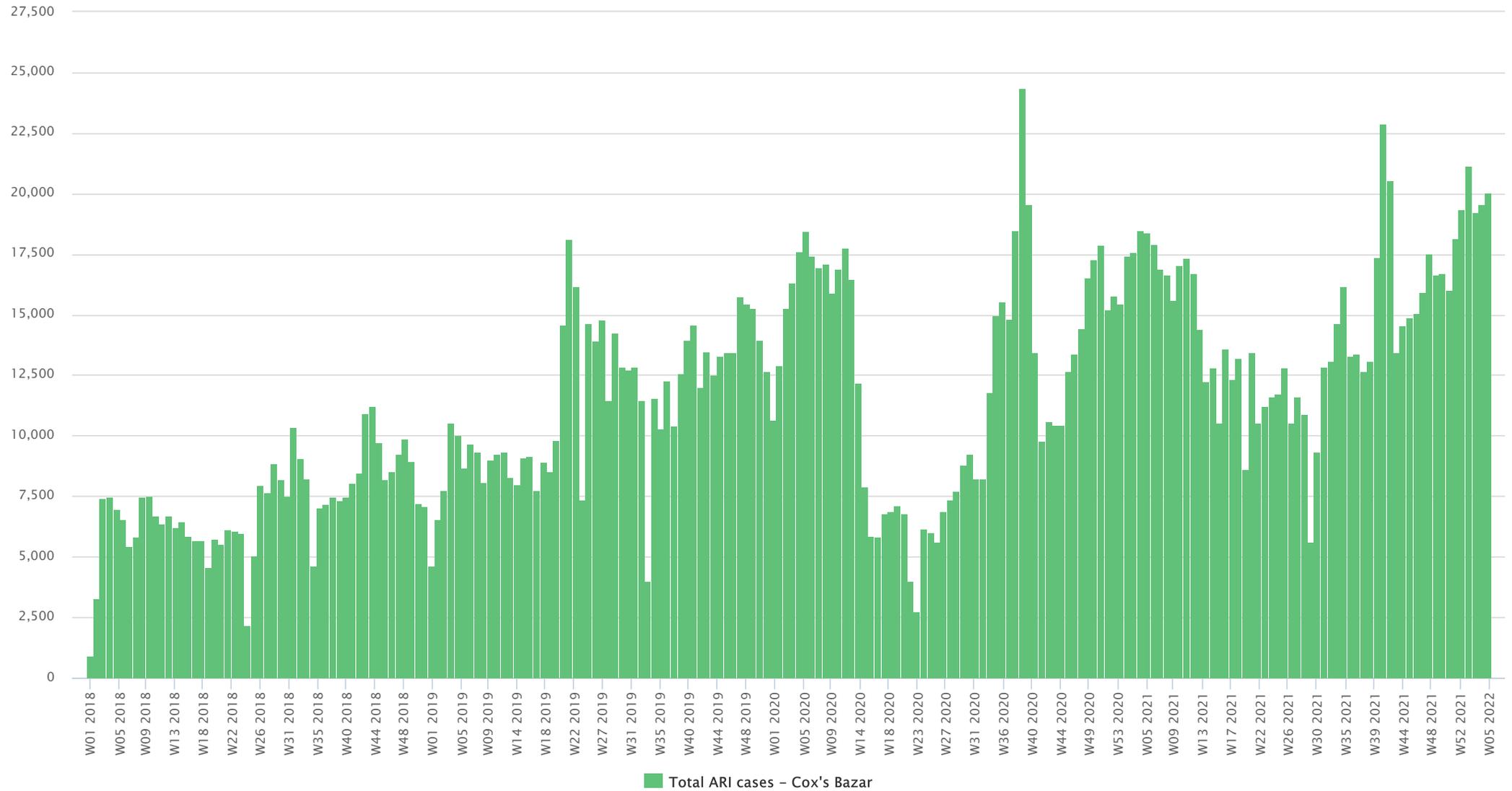


Figure 3 | Trend in number of cases over time (W38 2017 - W4 2022)



Map 1 | Map of cases by camp (W4 2022)

a. Ukhia | Number of cases

Loading...

b. Ukhia | Number of alerts

Loading...

c. Teknaf | Number of cases

Loading...

d. Teknaf | Number of alerts

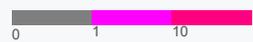
Loading...

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 (W4 2022)

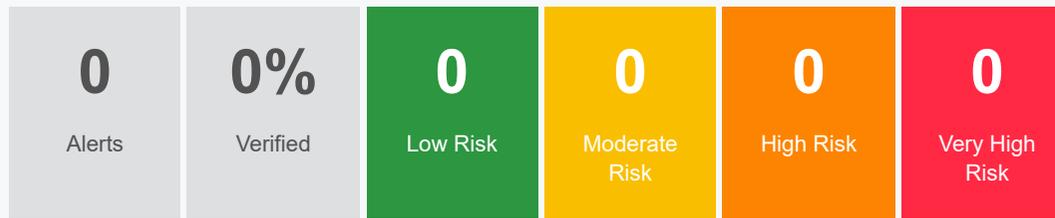
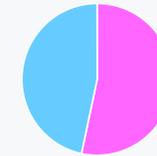
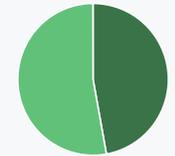


Figure | % sex



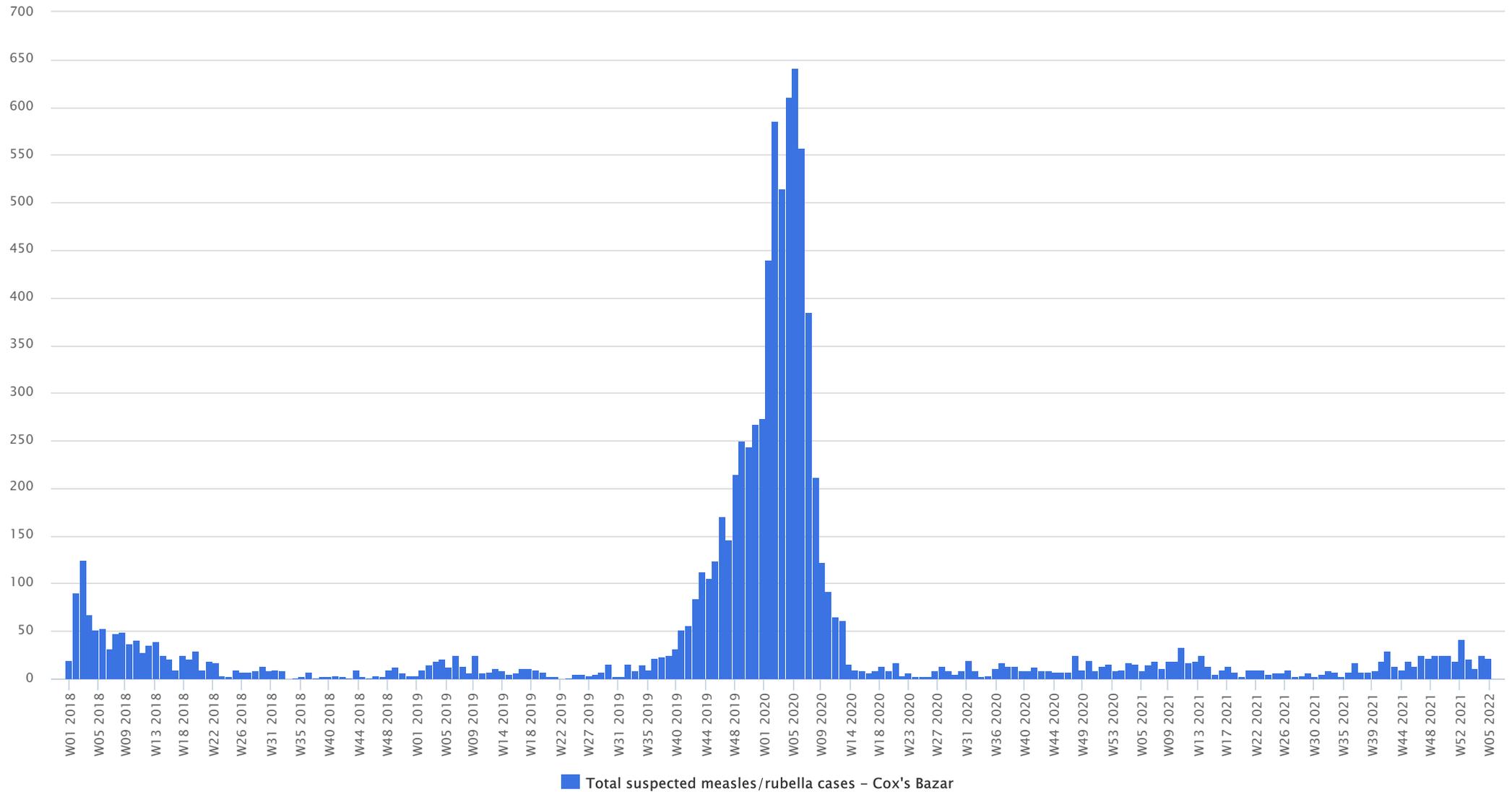
Female Male

Figure | % age



>=5 < 5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W4 2022)



Map 2 | Map of cases by camp (W4 2022)

a. Ukhia | Number of cases
Loading...

b. Ukhia | Number of alerts
Loading...

c. Teknaf | Number of cases
Loading...

d. Teknaf | Number of alerts
Loading...

Map legend

Number of cases



Number of alerts



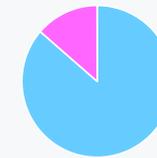
Alert threshold

1 case. Source: IEDCR

Alert management (W4 2022)



Figure | % sex



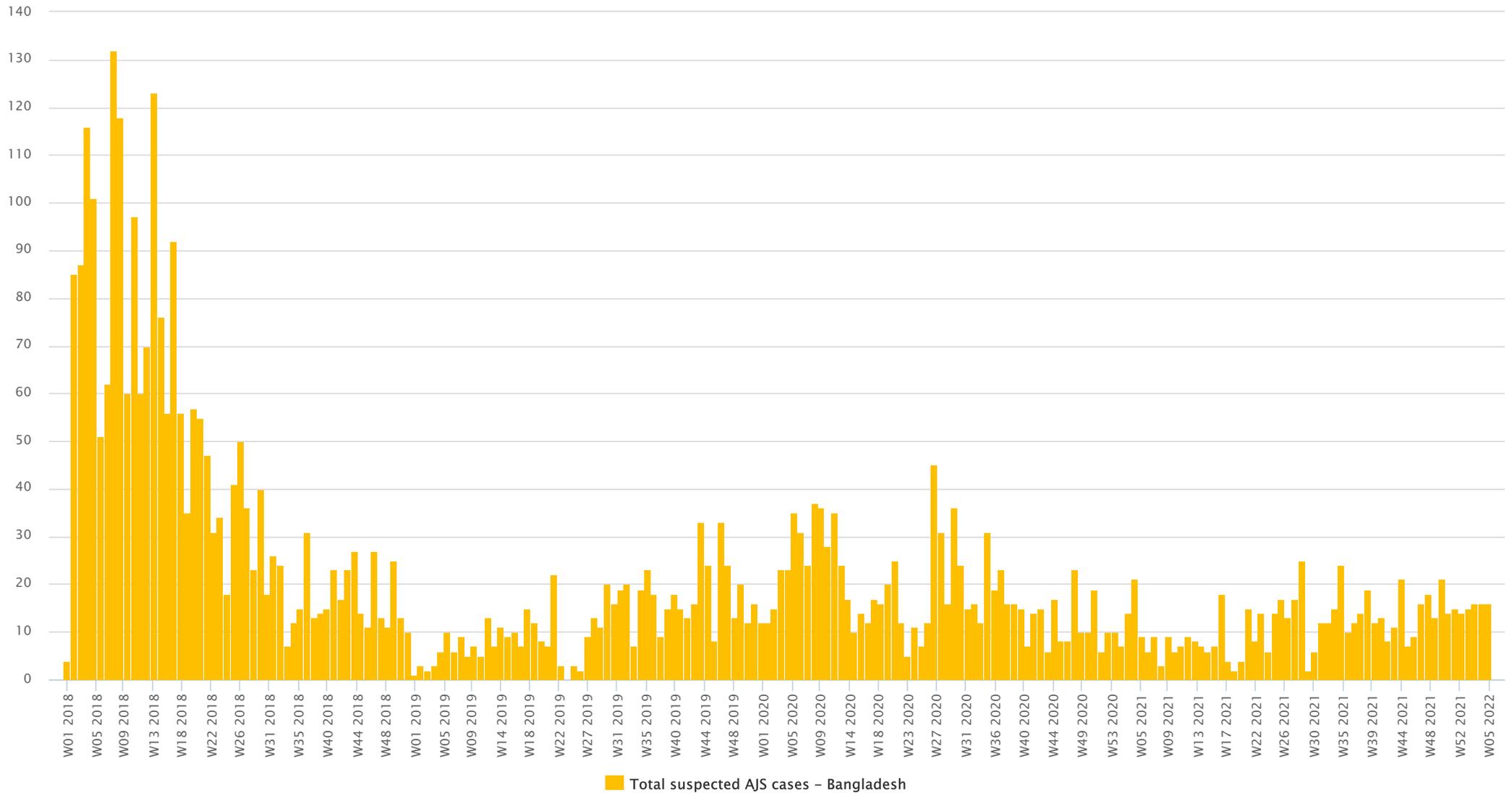
Male Female

Figure | % age



>= 5 < 5

Figure 5 | Trend in number of cases over time (W38 2017 - W4 2022)



Map 3 | Map of cases by camp (W37 2017 - W4 2022)

a. Ukhia | Number of cases
Loading...

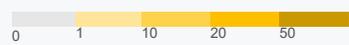
b. Ukhia | Number of alerts
Loading...

c. Teknaf | Number of cases
Loading...

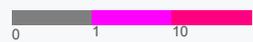
d. Teknaf | Number of alerts
Loading...

Map legend

Number of cases



Number of alerts



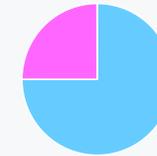
Alert threshold

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

Alert management (W4 2022)

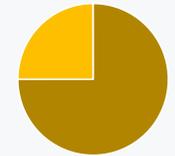


Figure | % sex



Male Female

Figure | % age



>= 5 < 5

Figure 6 | Trend in number of cases over time (W38 2017 - W4 2022)

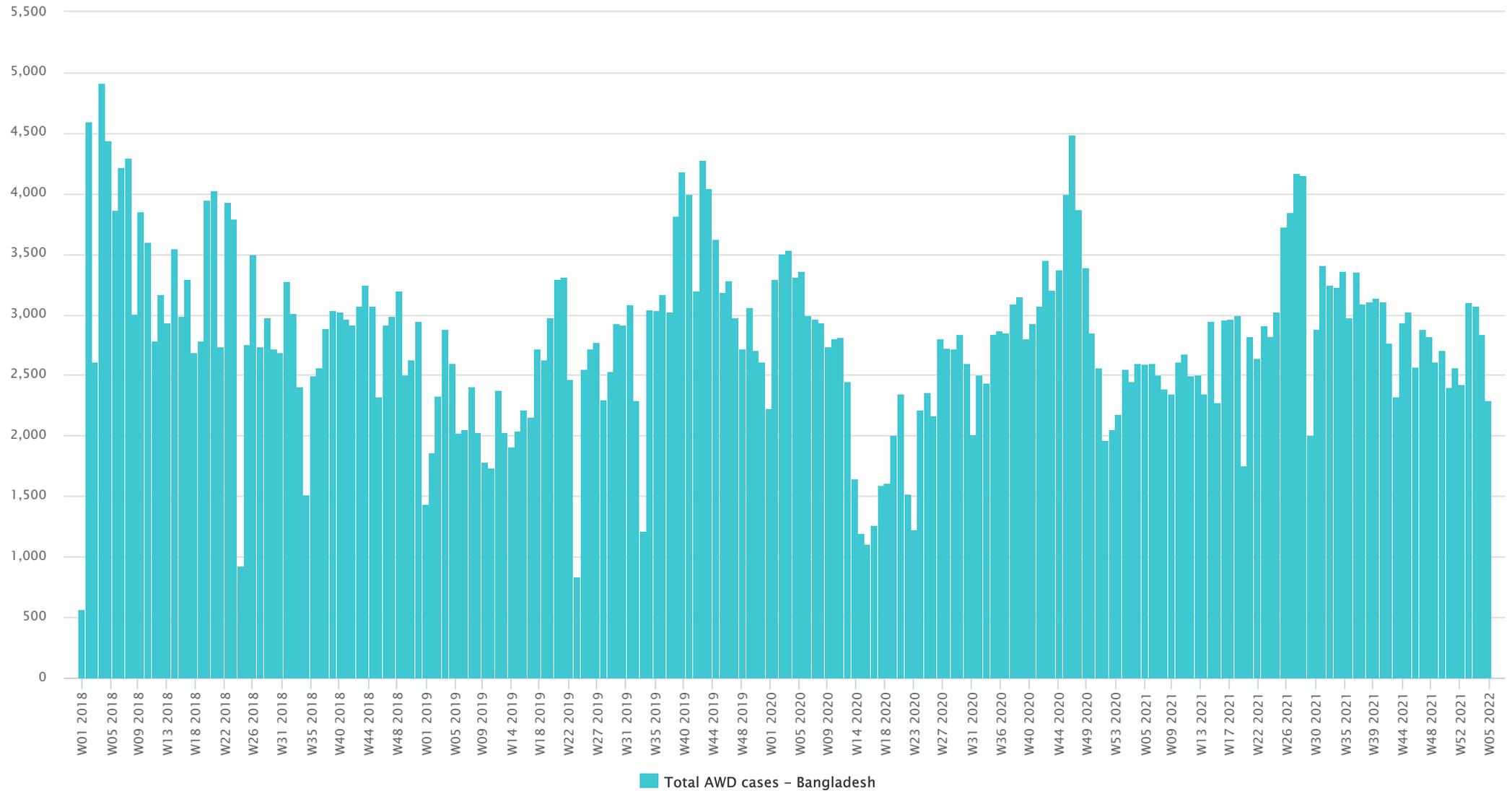
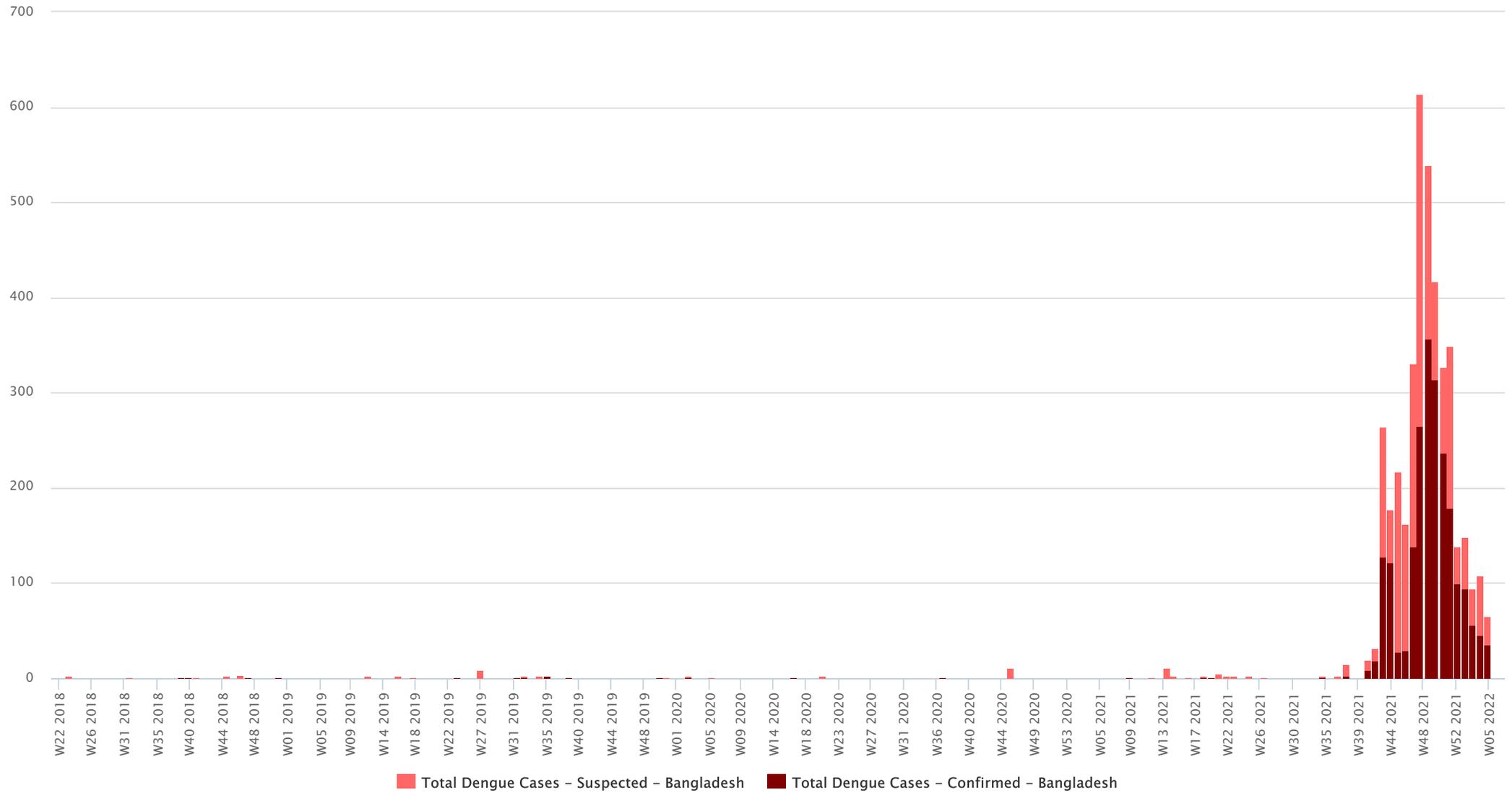


Figure 7 | Trend in number of cases over time (W38 2017 - W4 2022)



Map 4 | Map of cases by camp (W37 2017 - W4 2022)

a. Ukhia | Number of cases

Loading...

b. Ukhia | Number of alerts

Loading...

c. Teknaf | Number of cases

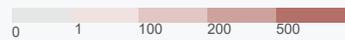
Loading...

d. Teknaf | Number of alerts

Loading...

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 (W4 2022)

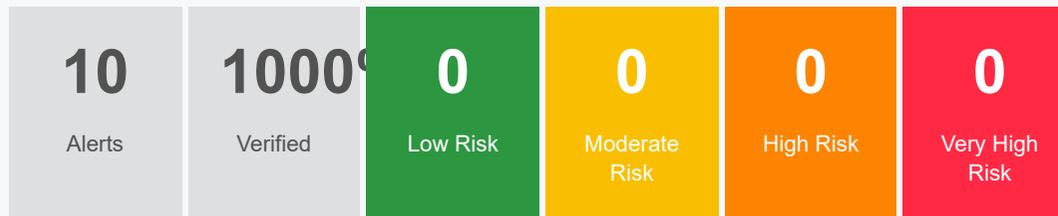
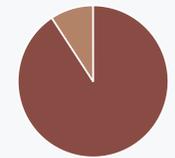


Figure | % sex



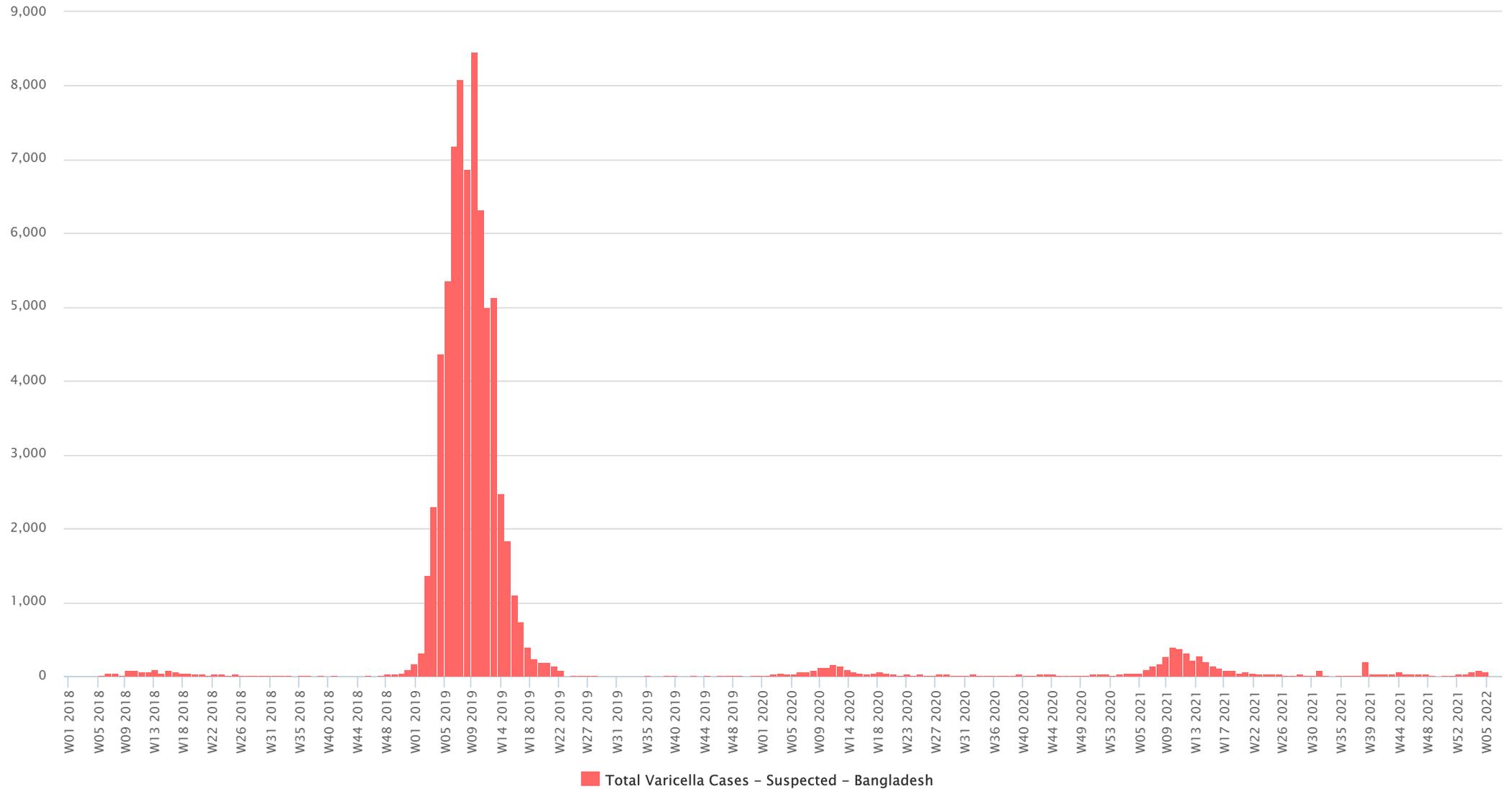
Female Male

Figure | % age



>= 5 < 5

Figure 7 | Trend in number of cases over time (W38 2017 - W4 2022)



Map 4 | Map of cases by camp (W37 2017 - W4 2022)

a. Ukhia | Number of cases

Loading...

c. Teknaf | Number of cases

Loading...

Map legend

Number of cases

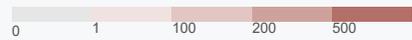


Figure | % sex



Male Female

Figure | % age



< 5 >= 5

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