



Epidemiological Highlights

Week 7 (14-20 Feb 2022)



**World Health
Organization**

Highlights: COVID-19

As of week 7, (14-20 Feb 2022) there were 5,543 confirmed cases of COVID-19 (SARS-CoV-2), out of 90,947 samples that had been submitted for testing. The total positivity rate now stands at 6.1%.

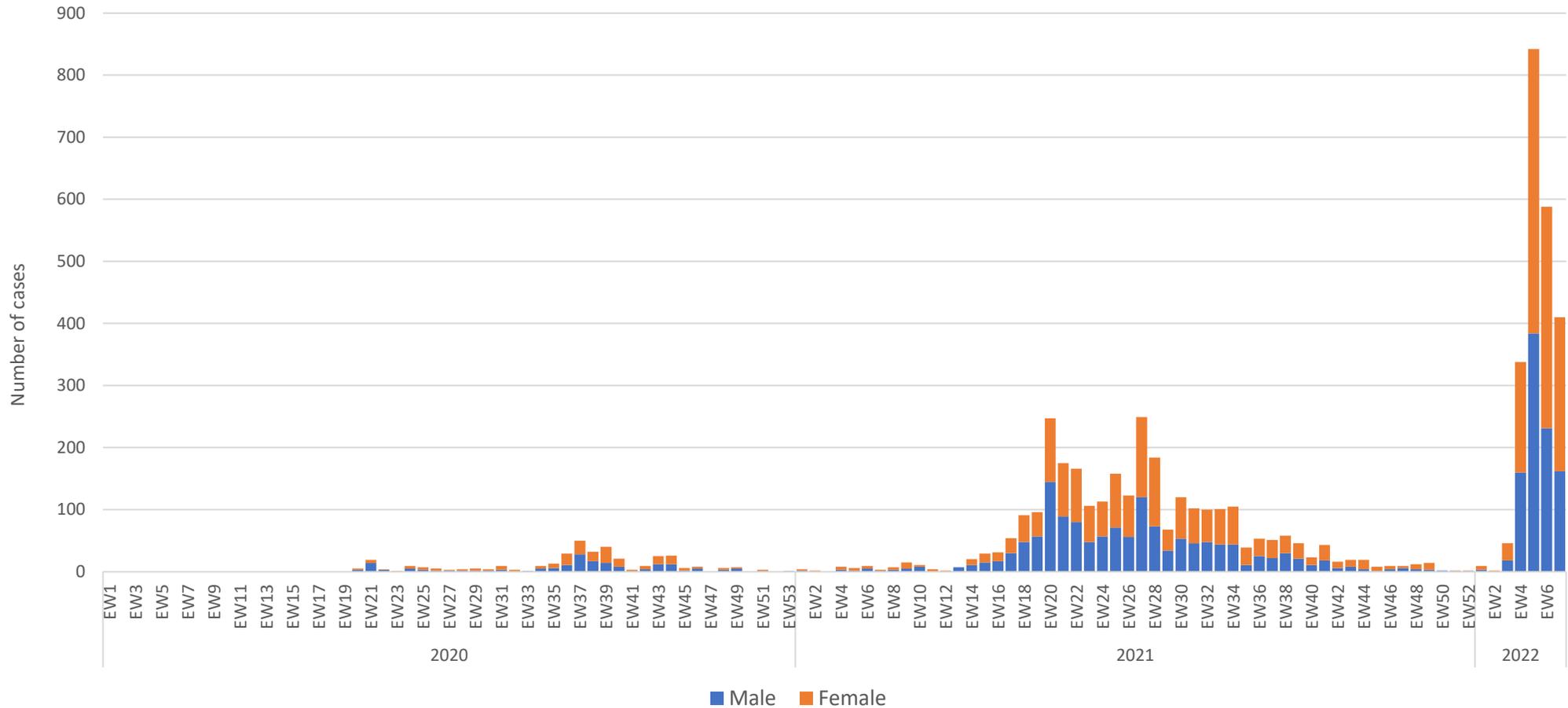
In the reporting week, four hundred & ten (410) new confirmed cases were detected out of 1,357 total samples tested. This translated to a 30.2% Test positivity Rate (TPR) which is up from 39.3% reported the previous week.

As of this week (week 7)

- **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 54% respectively
- All the 34 **camp**s, have so far reported confirmed cases since the outbreak began, while the five camps with the highest number of reported cases were; C17-377, C24-360, C2W-348, C4-345 and C3-313
- Two new **death** was reported this week (CFR 0.2%). Total confirmed COVID-19 deaths so far reported 40 with the average case fatality ratio of 0.7%
- The **weekly incidence** was 476.9 cases/1 million population in this Epi week which is lower at 30% in comparison with the previous week.

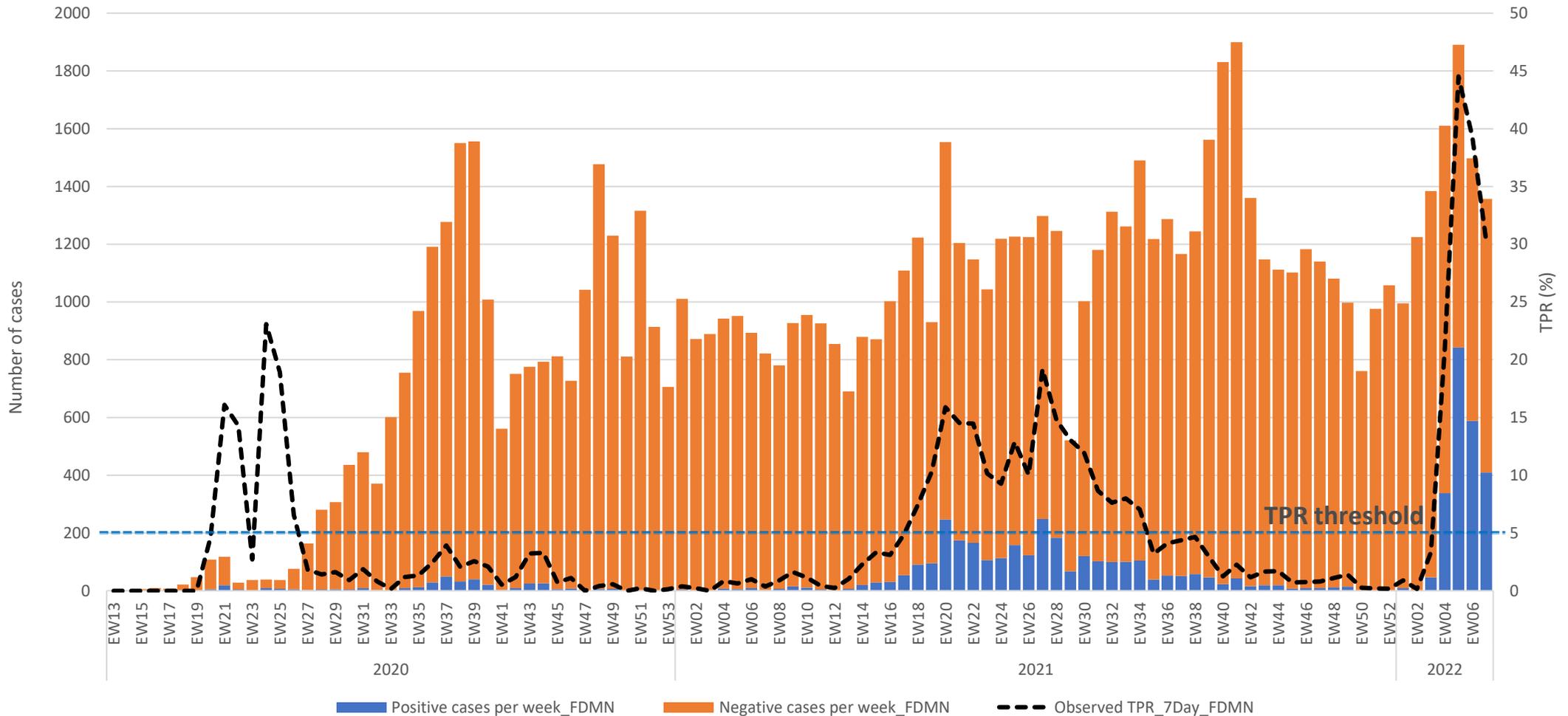
Highlights: COVID-19

COVID-19 positive cases (n=5,543) by epidemiological week by date of test



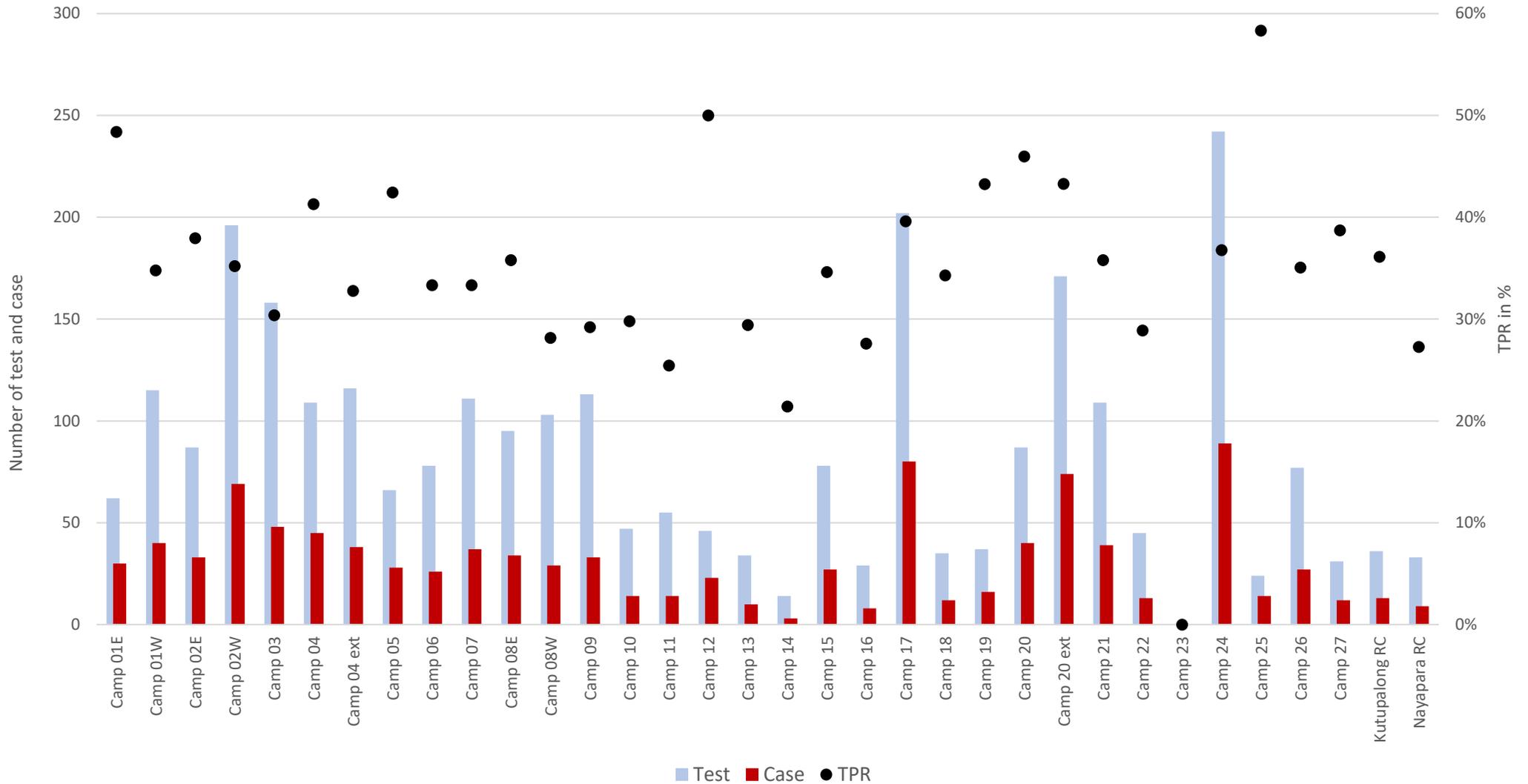
Highlights: COVID-19

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



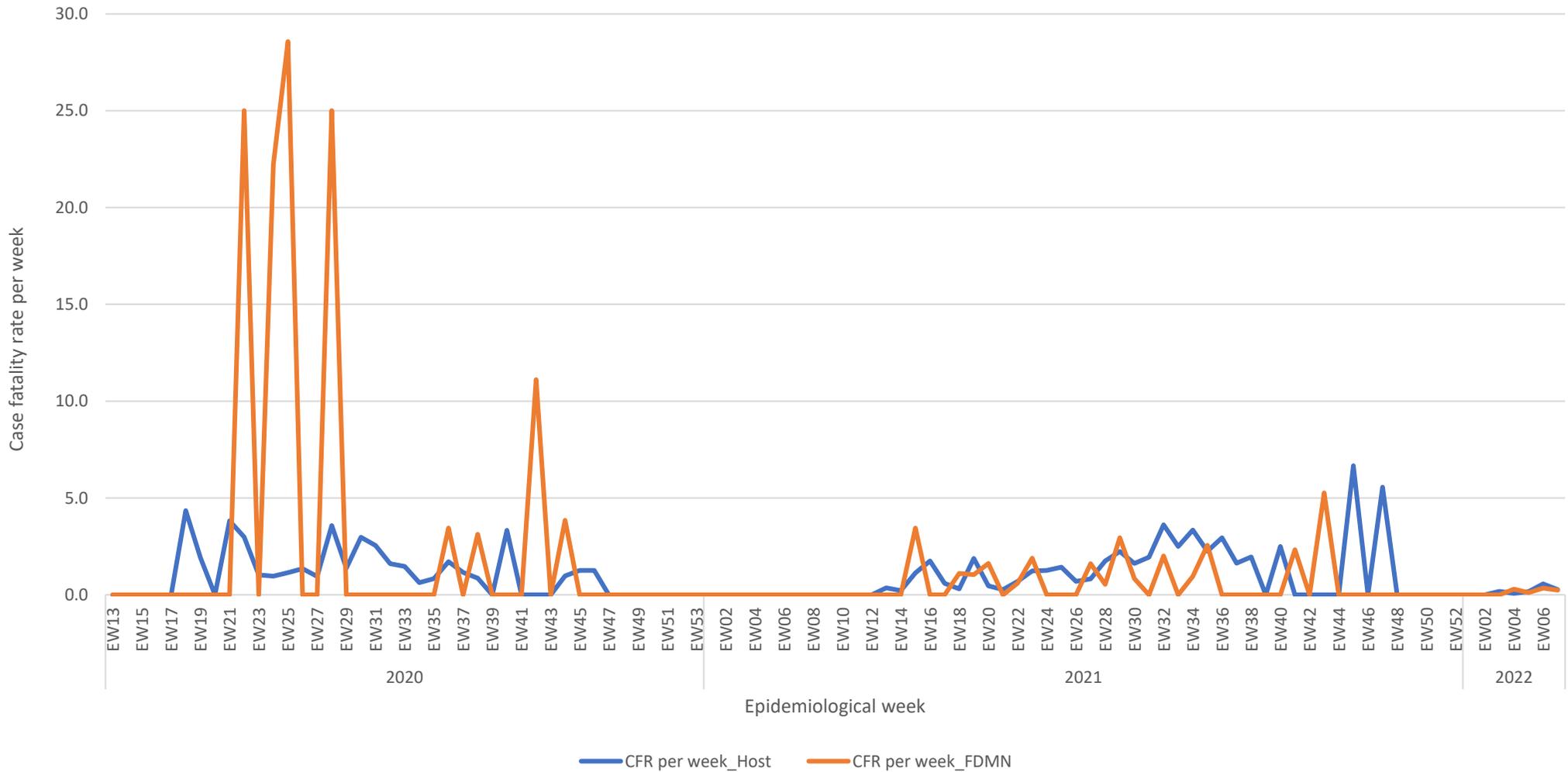
Highlights: COVID-19

COVID-19 test case and TPR per camp, week 6-7



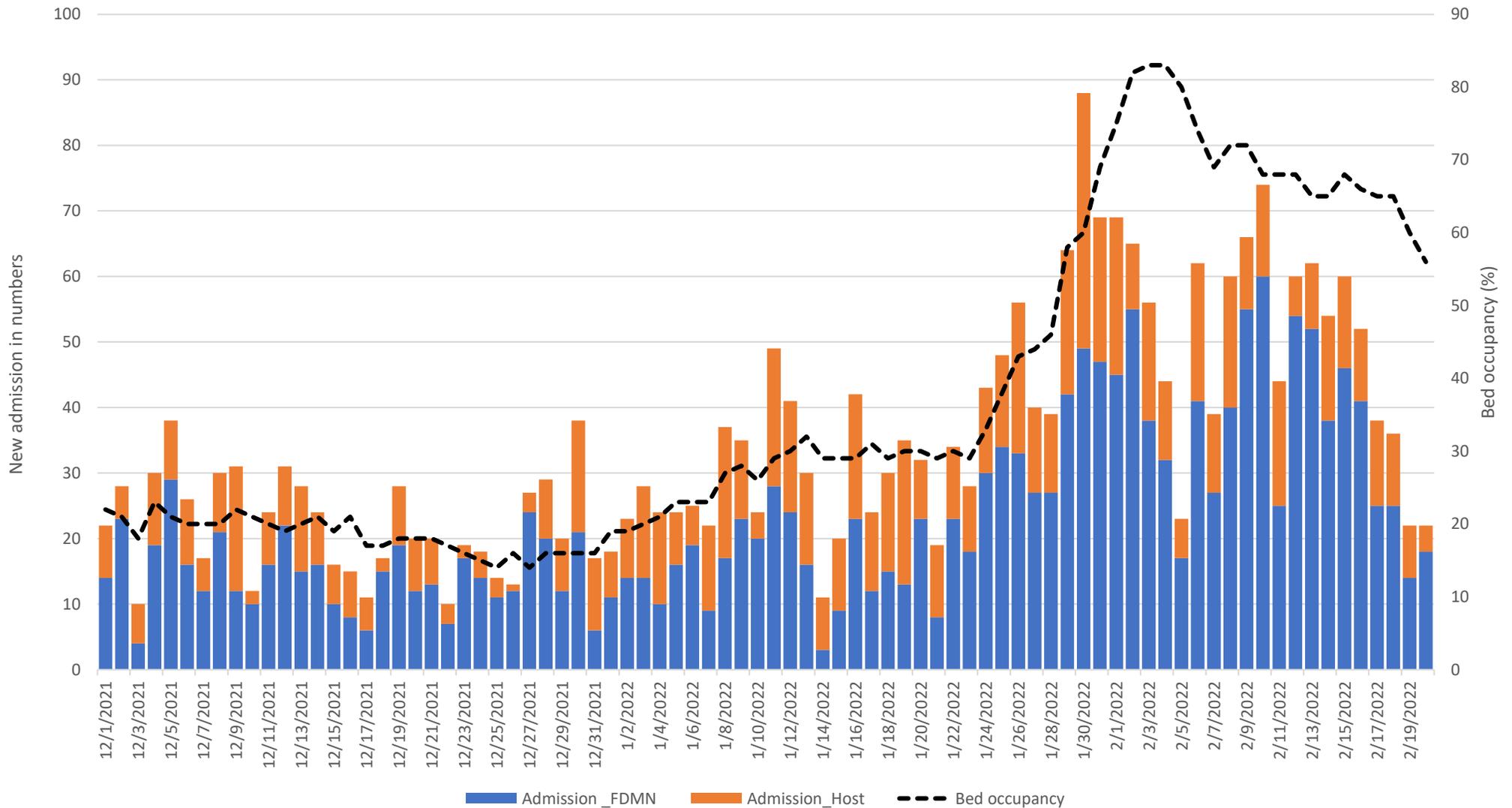
Highlights: COVID-19

Case fatality rate (%) trends per week
(number of death in Host 266, CFR 1.2%, FDMN/Rohingya Refugees 39, CFR 0.7%)



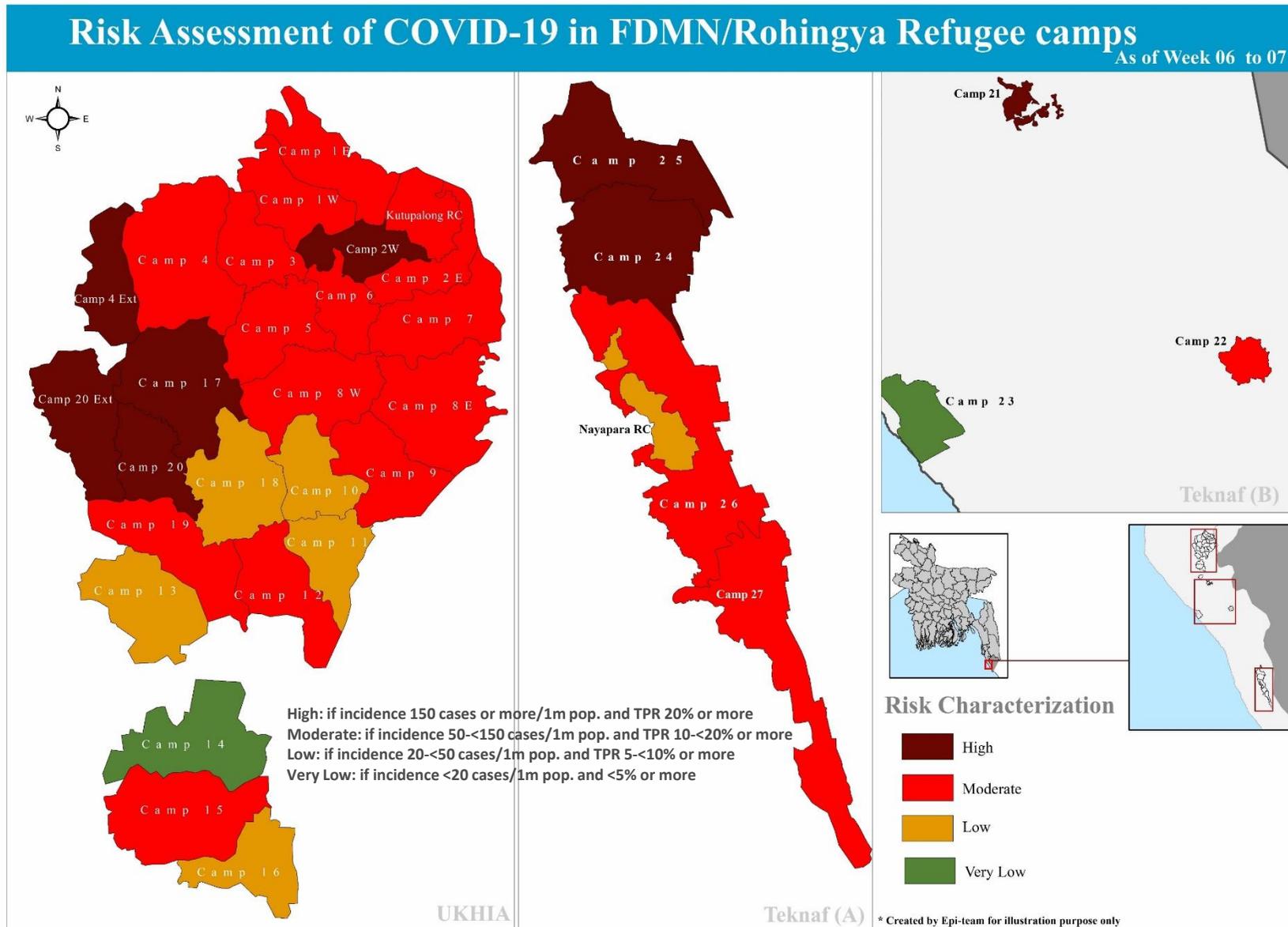
Highlights: COVID-19

Daily new admissions and bed occupancy in SARI ITC as of 20 Feb (capacity 589)

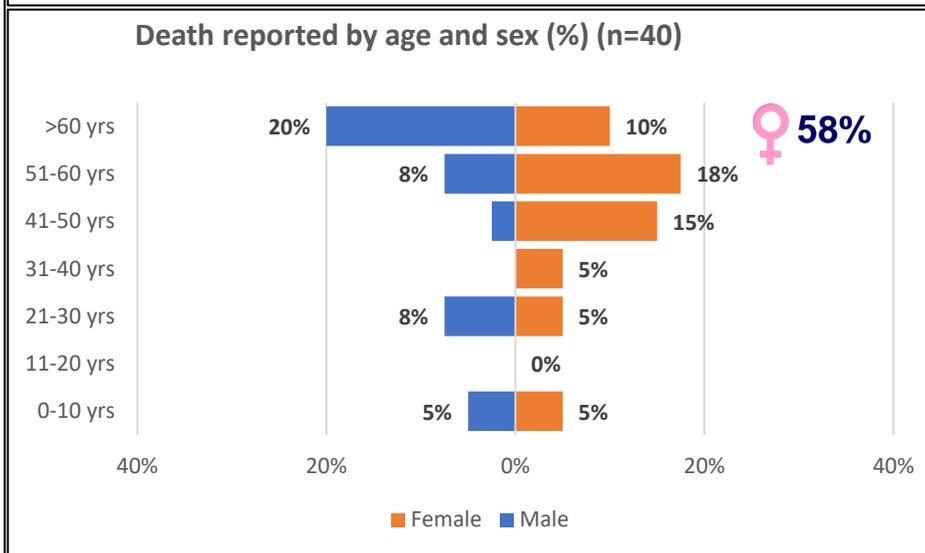
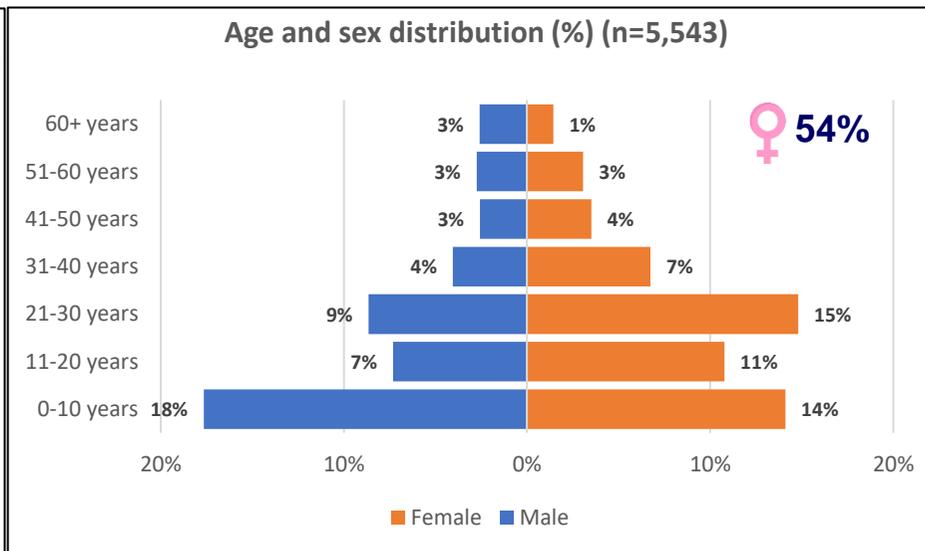
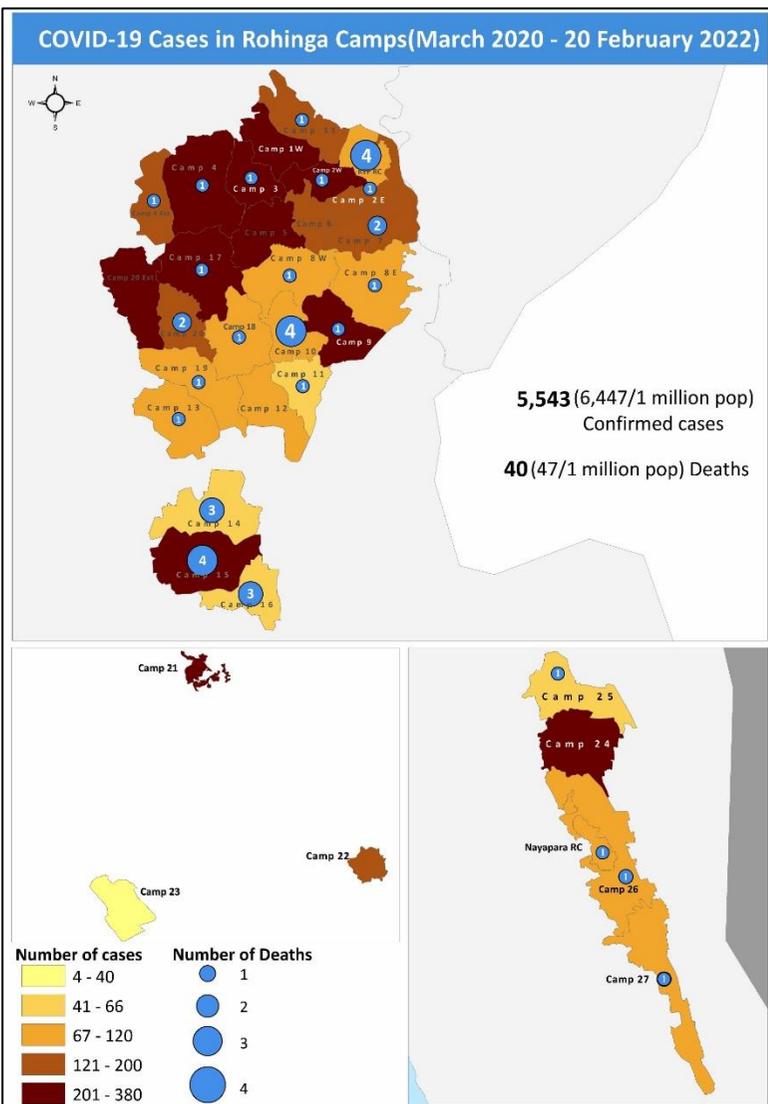


Highlights: COVID-19

Risk Analysis of COVID-19 by case incidence and TPR in FDMN/Rohingya Refugee camps

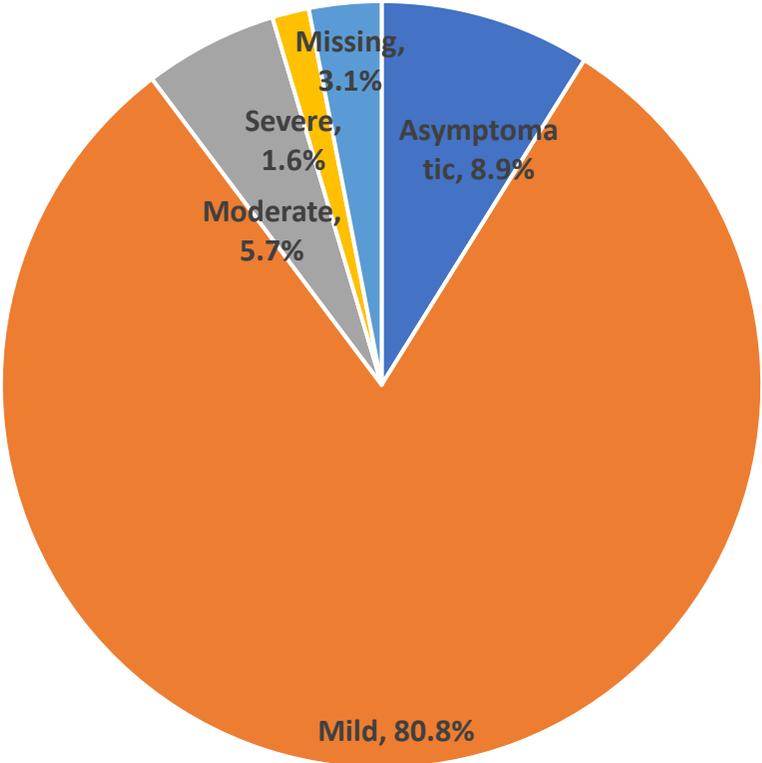


Highlights: COVID-19

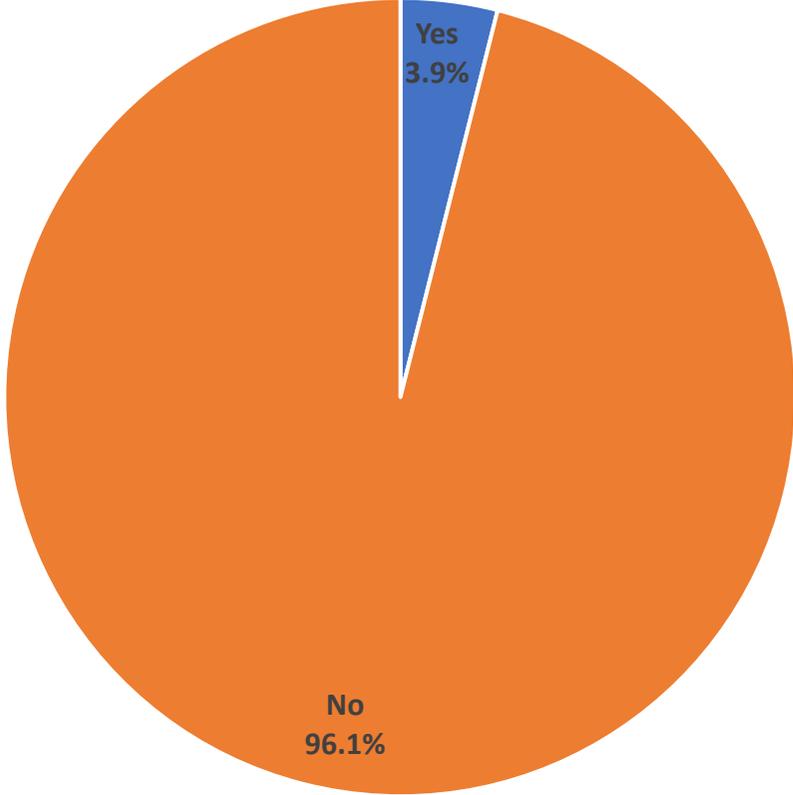


Highlights: COVID-19

Severity of reported cases at presentation
(n=4,233)



Did the case report at least 1 co-morbidity
(n=4,233)



Source: Go.Data

Highlights: COVID-19

Contact Tracing of COVID-19:

- Total 4,233 (out of 5,543) 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 10,591 (68%) contacts registered for follow-up in the Go.Data out of 15,670 total contacts so far were identified during the field investigation.
- 7,962 (75%) contacts successfully accomplished the follow-up.
- 359 household contacts tested positive within the incubation period.

Source: Go.Data

EWARS Reporting Updates

- Currently, a total of 165 health facilities are registered in EWARS
 - Only 125/165 weekly reports were received on time in week 7
 - Timeliness of reporting for this week was 76%
 - Sixty-five (65) alerts were triggered
 - All alerts were reviewed and verified by the WHO EWARS team; the number is more than that of the previous week (60 alerts in week 6, 2022).

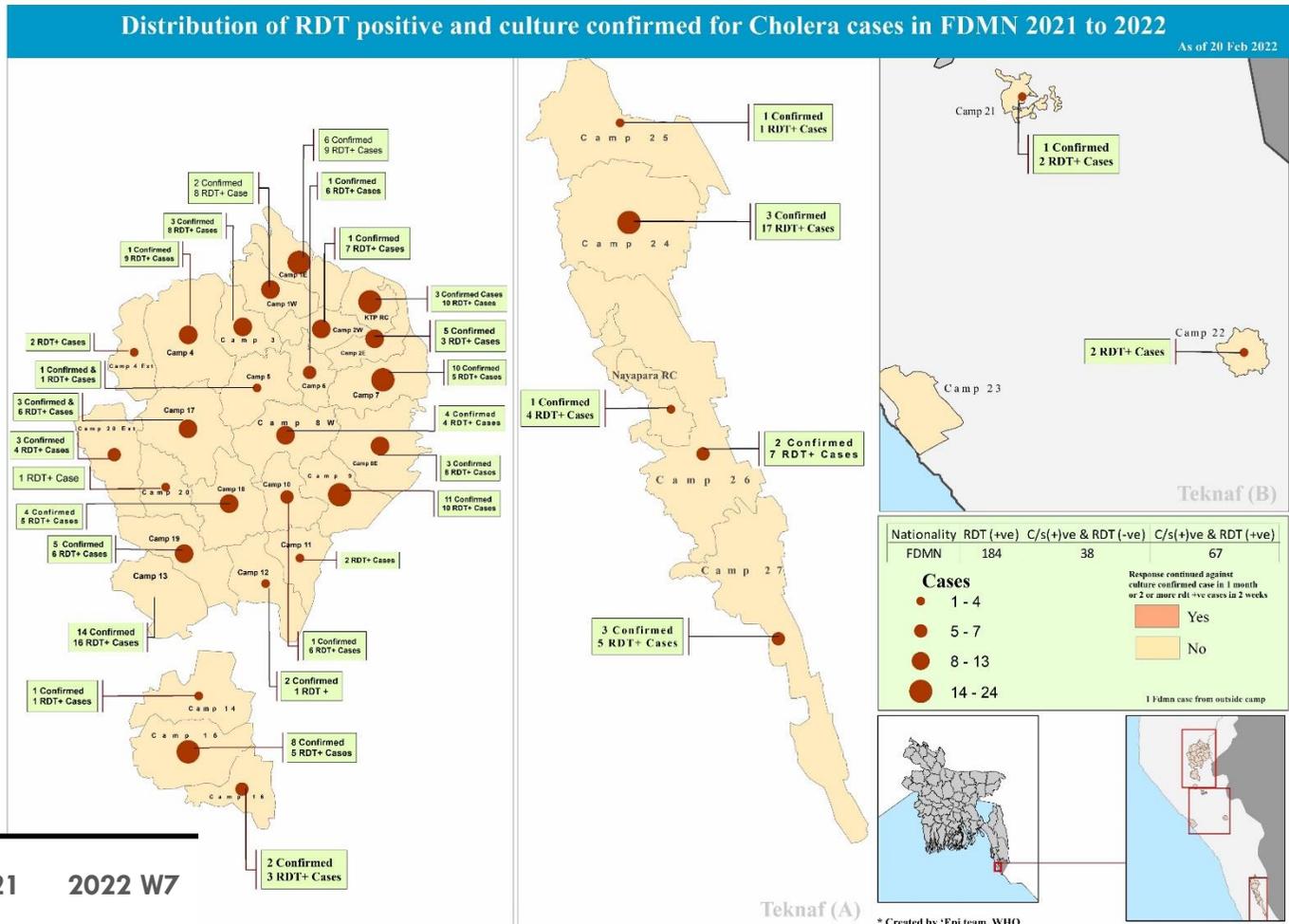
Highlights: Morbidities and Mortalities

- Acute Respiratory Infections (18.0%), Diarrheal Diseases (3.3%) & Injury and wounds (2.1%) were the diseases and health conditions with the highest proportional morbidity in week 7.
- Monitoring of suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020.
- This Epi week, there was four (4) suspected SARI death reported. The detailed update was given below:

Year	Suspected SARI death reported	Reclassified as death due to probable COVID-19
2022	27	4
2021	96	15
2020	49	2

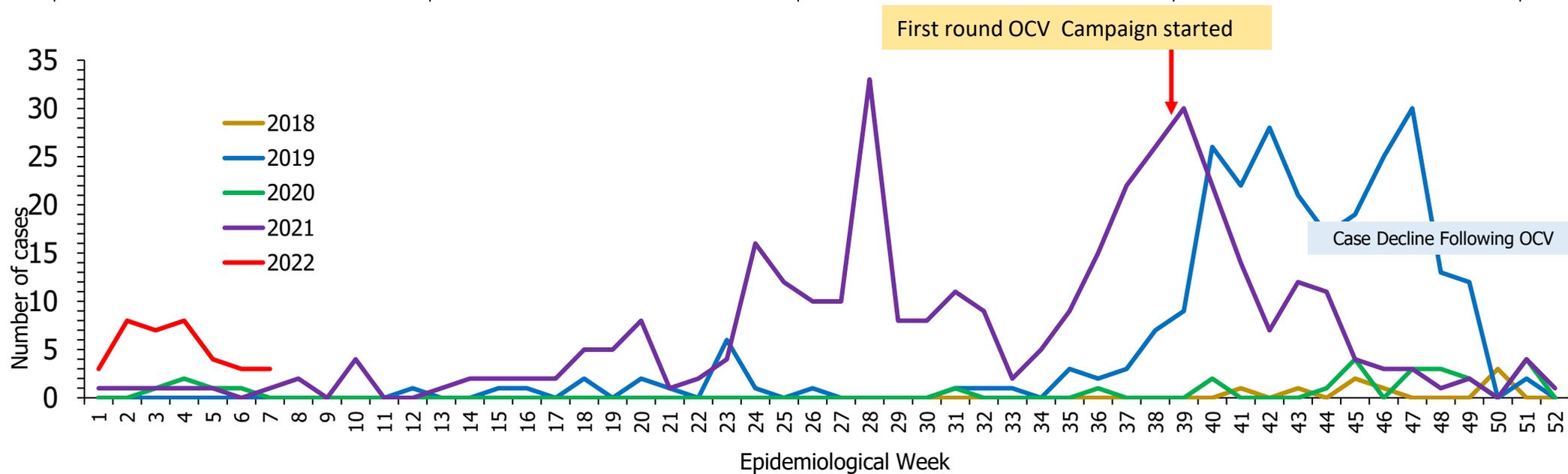
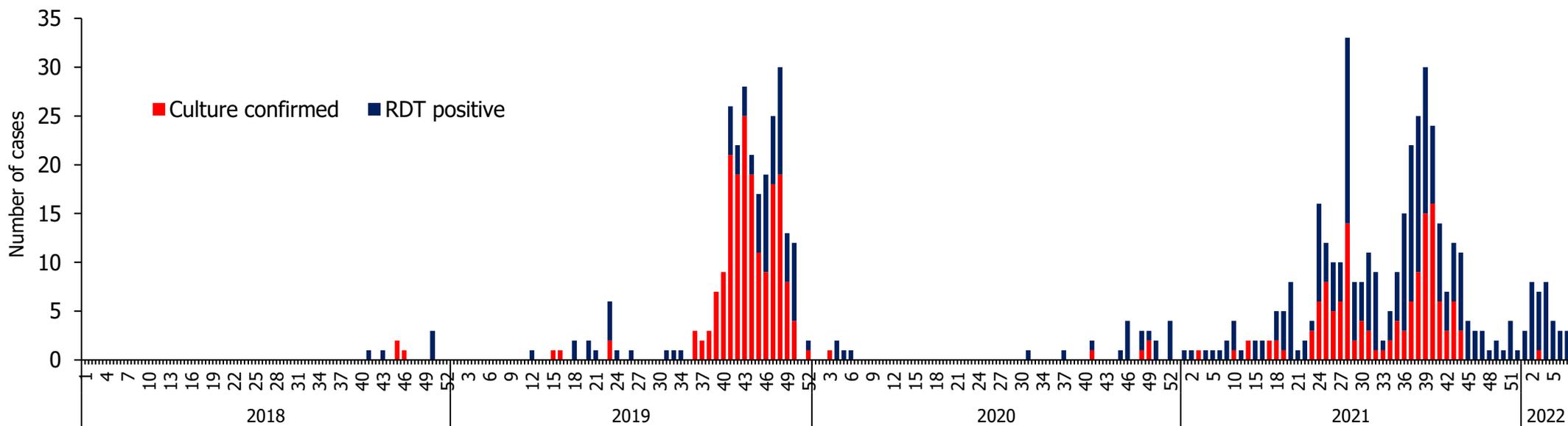
Cholera/AWD Surveillance Updates

- In this week, three (3) RDT positive cases were reported, among samples sent for testing.
- In 2022 total of thirty-three (36) cholera cases were reported as of W7 2022. Of these 1 was positive 18 were negative and 17 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 W7
RDT positive/culture confirmed for Cholera	49	258	28	357	36
Culture confirmed for Cholera	7	184	5	136	1

Epidemic curve of cholera, Cox's Bazar District, 2017-2022 (W7)



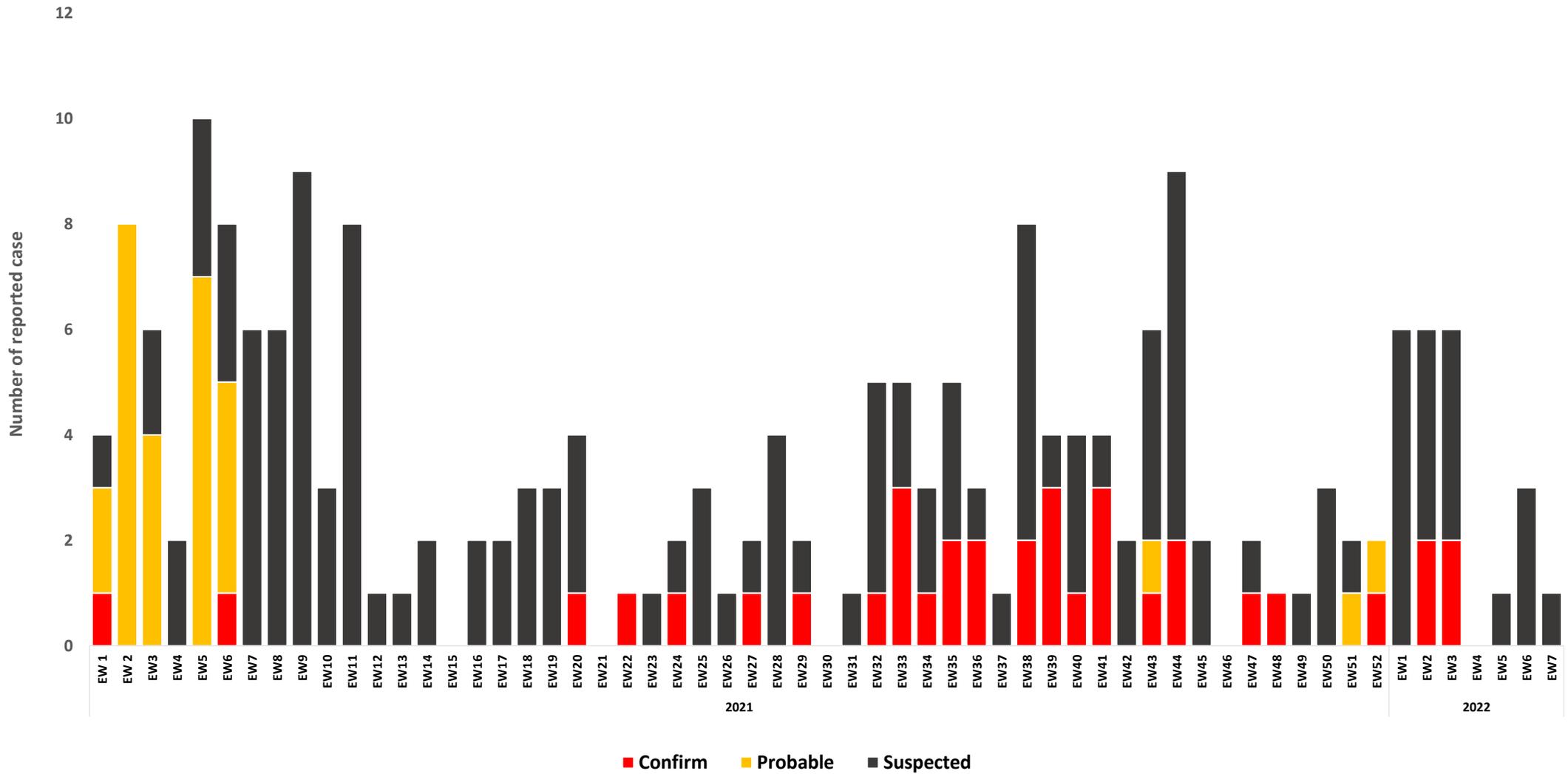
Diphtheria Surveillance Updates

- One (1) 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	19
Death	30	14	3	0	5	0

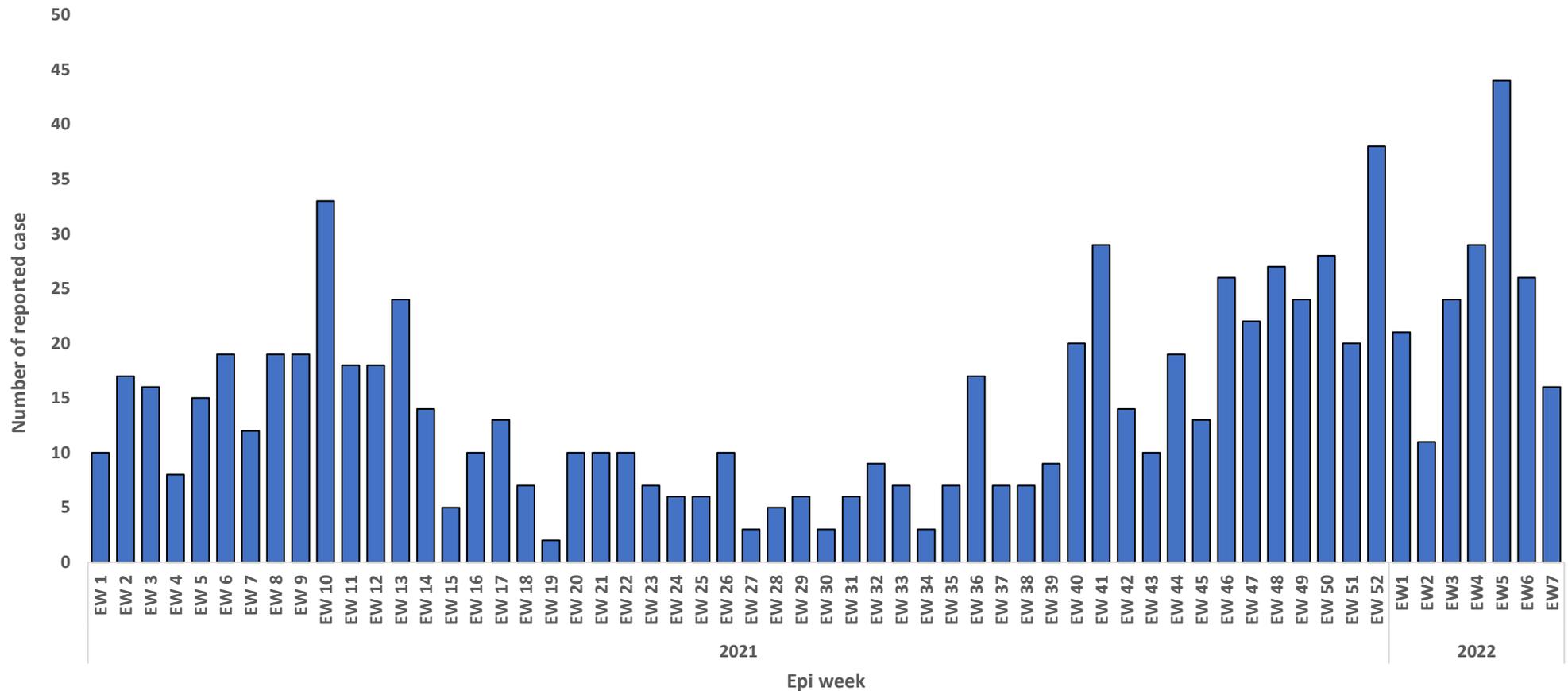
Diphtheria Surveillance Updates

Total number of diphtheria case reported in EWARS from 2021-2022 (W7)



Measles Surveillance Updates

Total number of Measles case reported in EWARS from 2021- 2022 (W7)



> In week 7, 16 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 171 reported in 2022.

> About 50% (86/171) of the total reported 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	W1 (3-9 Jan)	88	0	1,591	3
	W2 (10-16 Jan)	53	0	1,644	3
	W3 (17-23 Jan)	30	0	1,674	3
	W4 (24-30 Jan)	13	0	1,687	3
	W5 (31 Jan- 6 Feb)	5	0	1,692	3
	W6 (7-13 Feb)	1	0	1,693	3
	W7 (14-20 Feb)	0	0	1,693	3

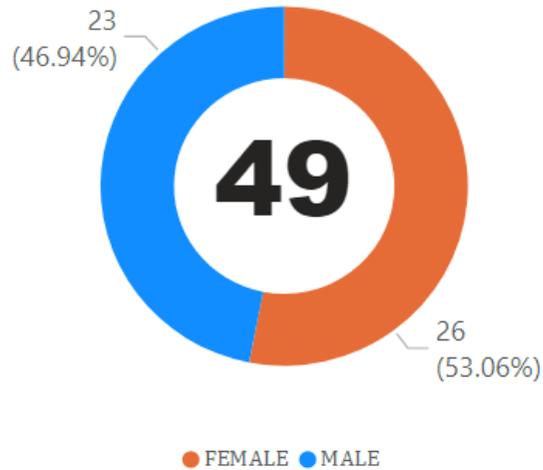
Community-based Mortality surveillance Updates

Probable Causes of Death	Week 7	In 2022
Still Birth	5 (10%)	38 (13%)
Neonatal Death (<28 days old)	5 (10%)	24 (8%)
Infectious Disease	--	7 (2%)
Severe Acute Respiratory Infection (SARI)	1 (2%)	7 (2%)
Injury	1 (2%)	4 (1%)
Maternal Death	--	8 (3%)
Acute Malnutrition	--	1 (0%)
Other	37 (76%)	213 (71%)
Total	49 (100%)	302 (100%)

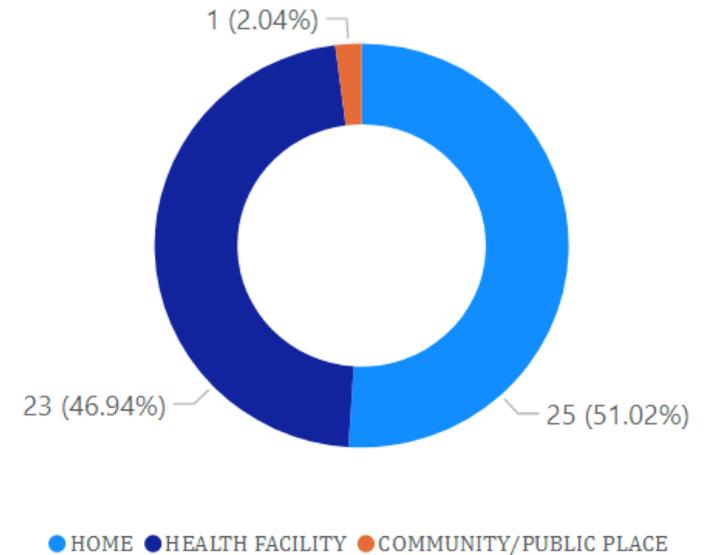
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable.

Community-based Mortality surveillance Updates

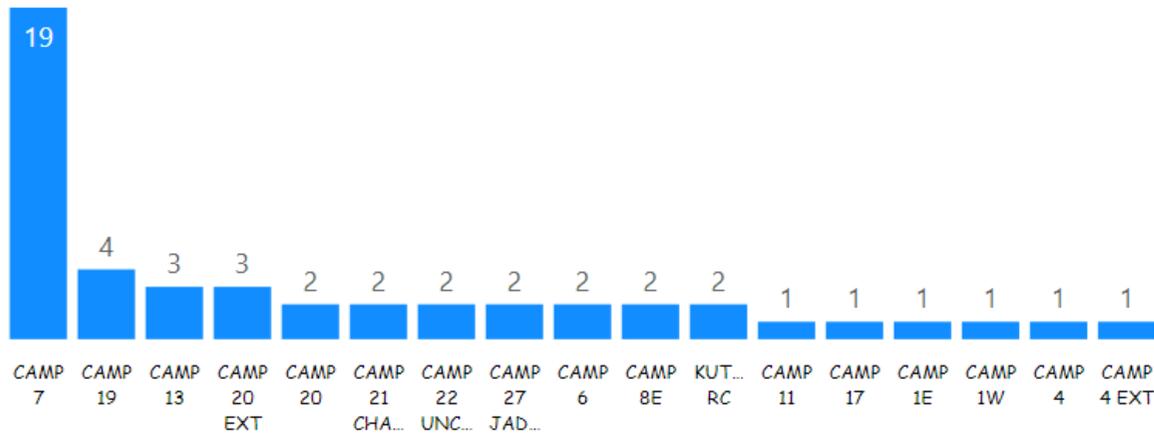
Gender distribution



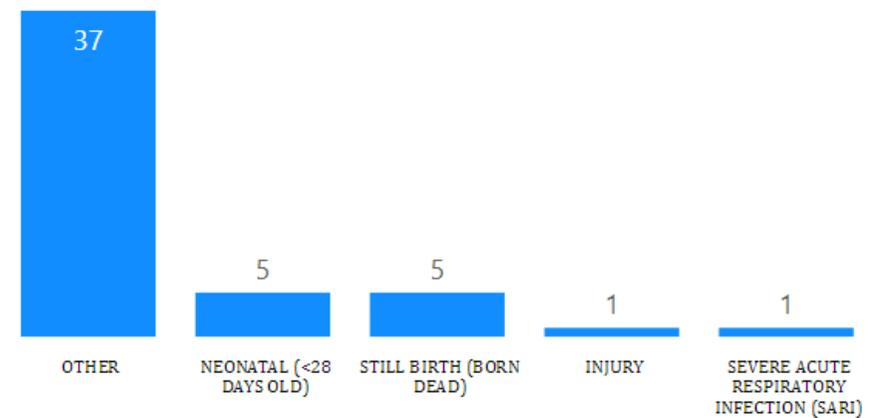
Place of death



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W7 2022



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



HEALTH SECTOR
COX'S BAZAR



Printed: 05:34 Wednesday, 23 February 2022 UTC

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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
165	94%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W7	Cumulative (2022)	
125	1245	Number of weekly reports received
76%	94%	Completeness
76%	90%	Timeliness

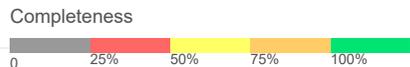
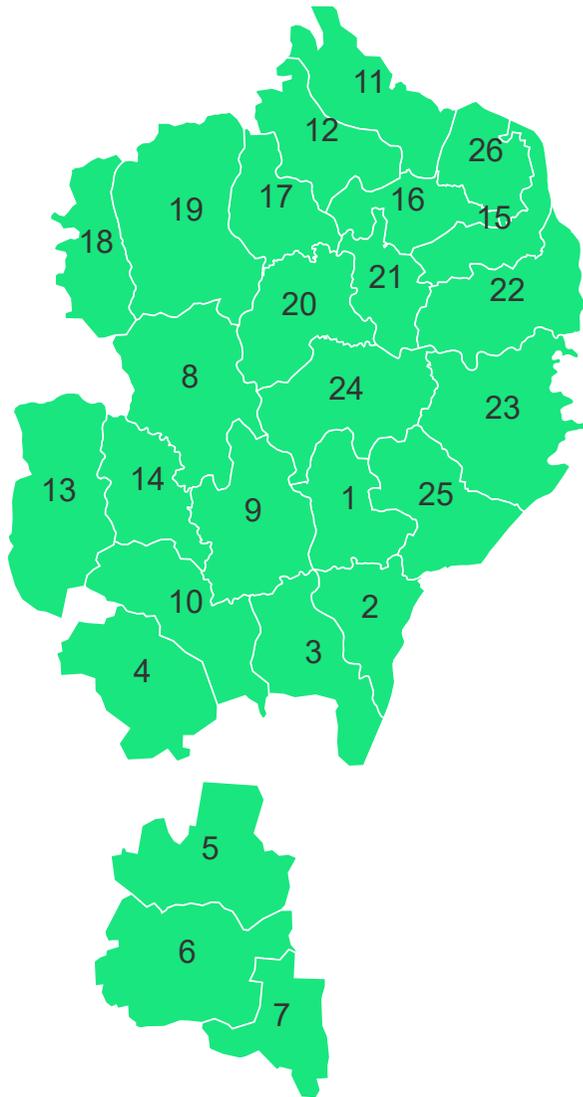
Table 3 Alert performance indicators

W7	Cumulative (2022)	
65	680	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

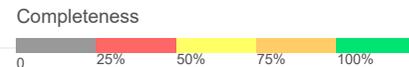
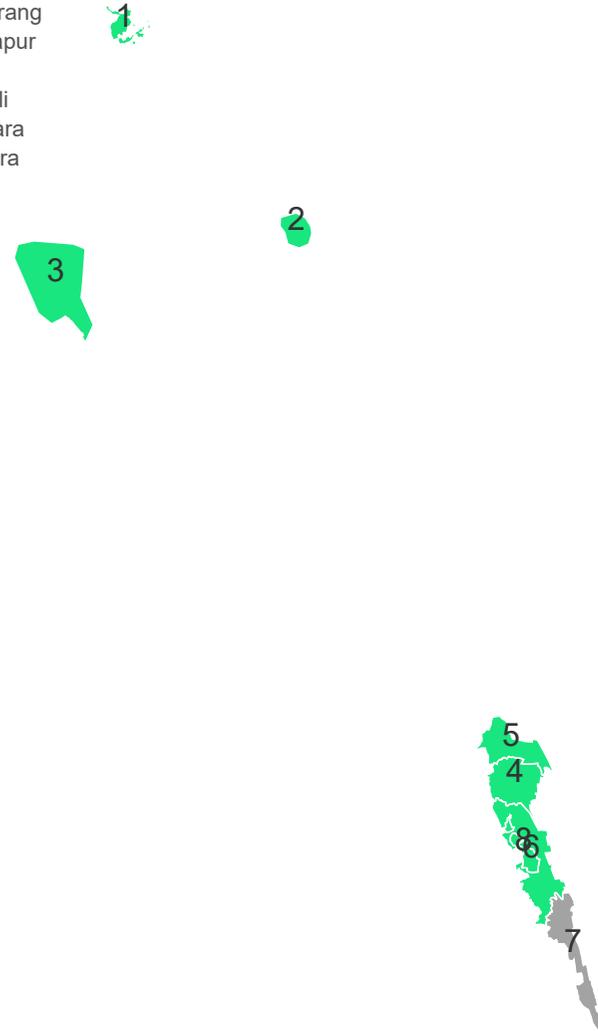


Table 4 | Performance by camp (W7 2022)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	3	75%	75%
Camp 1W	5	3	60%	60%
Camp 2E	3	2	67%	67%
Camp 2W	3	3	100%	100%
Camp 3	6	6	100%	100%
Camp 4	5	4	80%	80%
Camp 4 Ext	1	1	100%	100%
Camp 5	5	5	100%	100%
Camp 6	3	3	100%	100%
Camp 7	5	4	80%	80%
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

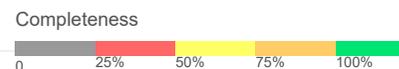
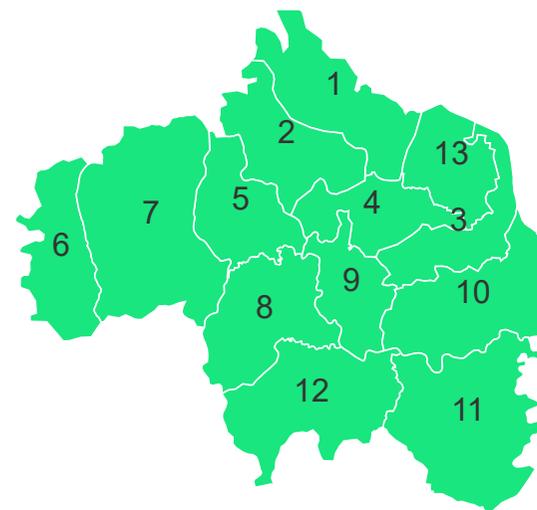


Table 5 | Performance by camp (W7 2022)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	100%
Camp 11	7	5	71%	71%
Camp 12	6	5	83%	83%
Camp 13	10	7	70%	70%
Camp 14	7	6	86%	86%
Camp 15	9	6	67%	67%
Camp 16	7	4	57%	57%
Camp 17	5	5	100%	100%
Camp 18	5	5	100%	100%
Camp 19	5	5	100%	100%
Camp 20	3	2	67%	67%
Camp 20 Ext	3	3	100%	100%
Camp 9	6	4	67%	67%

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

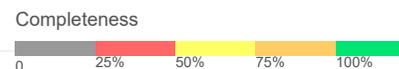
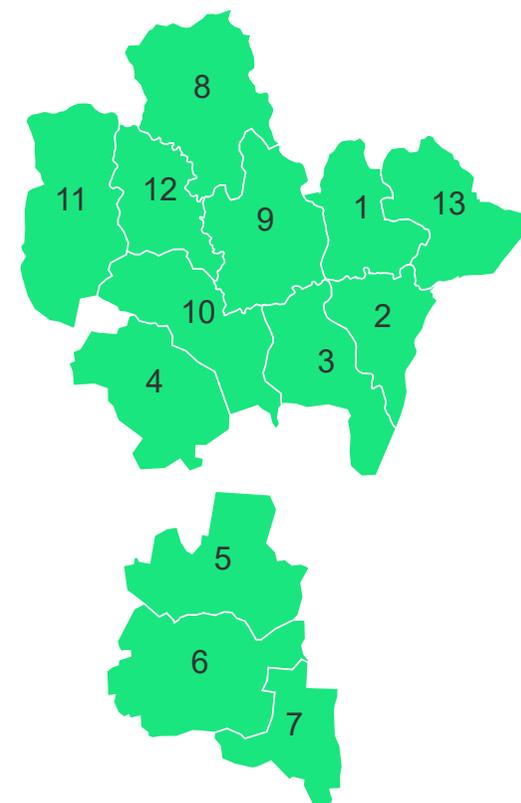


Table 6 | Performance by camp (W7 2022)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	4	2	50%	50%
Camp 22 Unchiprang	5	2	40%	40%
Camp 23 Shamlapur	3	1	33%	33%
Camp 24 Leda	1	1	100%	100%
Camp 25 Ali Khali	3	1	33%	33%
Camp 26 Nayapara	4	3	75%	75%
Camp 27 Jadimura	2	0	0%	0%
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

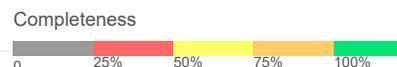
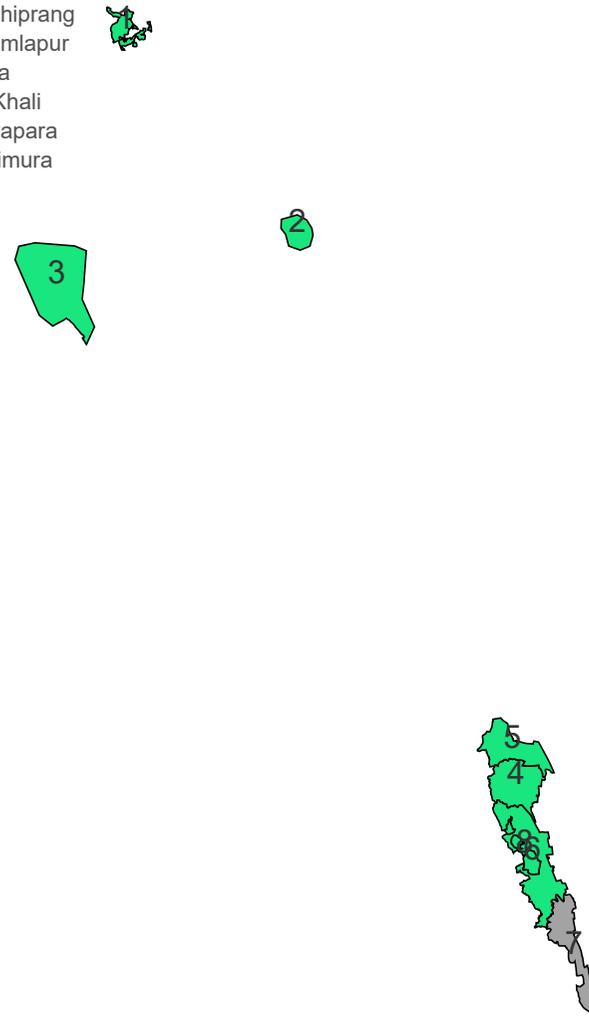


Table 7 | Performance by partner (W7 2022)

Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	1	0	0%	0%	IRC	2	0	0%	0%
AWARD	7	7	100%	100%	MSF	9	6	67%	67%
BASHMAH	1	0	0%	0%	MoH	15	10	67%	67%
BDRCS	12	11	92%	92%	MHI	0	0		
BRAC	11	0	0%	0%	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	1	100%	100%
DCHT-PWJ	0	0			PHD	10	10	100%	100%
FRNDS	6	6	100%	100%	RPN	2	2	100%	100%
GK	10	9	90%	90%	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	0	0%	0%
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	1	50%	50%
IOM	18	16	89%	89%					

Table 8 | Performance by camp

Northern group	W7		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	0	0%	8	100%
Camp 1W	1	100%	22	100%
Camp 2E	8	100%	76	100%
Camp 2W	0	0%	20	100%
Camp 3	3	100%	38	100%
Camp 4	3	100%	27	100%
Camp 4 Ext	1	100%	8	100%
Camp 5	1	100%	25	100%
Camp 6	1	100%	15	100%
Camp 7	1	100%	16	100%
Camp 8E	0	0%	11	100%
Camp 8W	5	100%	41	100%
Kutupalong RC	1	100%	11	100%

Map 5 | Number of alerts by camp

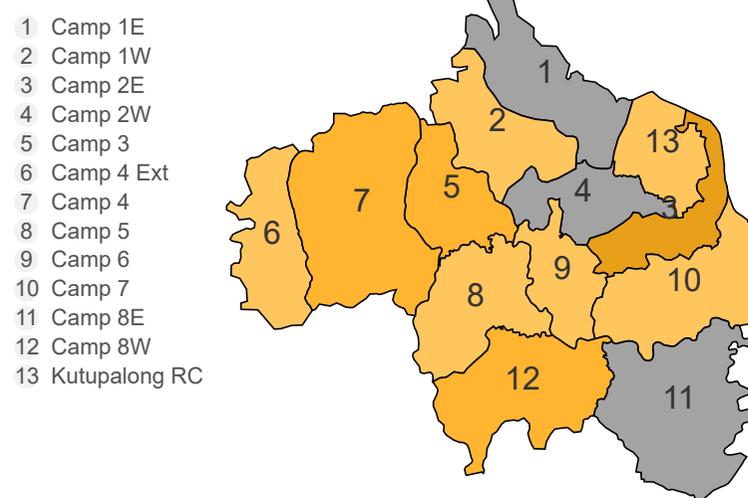


Table 9 | Performance by camp

Southern group	W7		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	0	0%	14	100%
Camp 11	0	0%	19	100%
Camp 12	2	100%	22	100%
Camp 13	3	100%	28	100%
Camp 14	2	100%	13	100%
Camp 15	2	100%	18	100%
Camp 16	3	100%	24	100%
Camp 17	3	100%	11	100%
Camp 18	3	100%	37	100%
Camp 19	3	100%	11	100%
Camp 20	2	100%	12	100%
Camp 20 Ext	2	100%	11	100%
Camp 9	3	100%	32	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

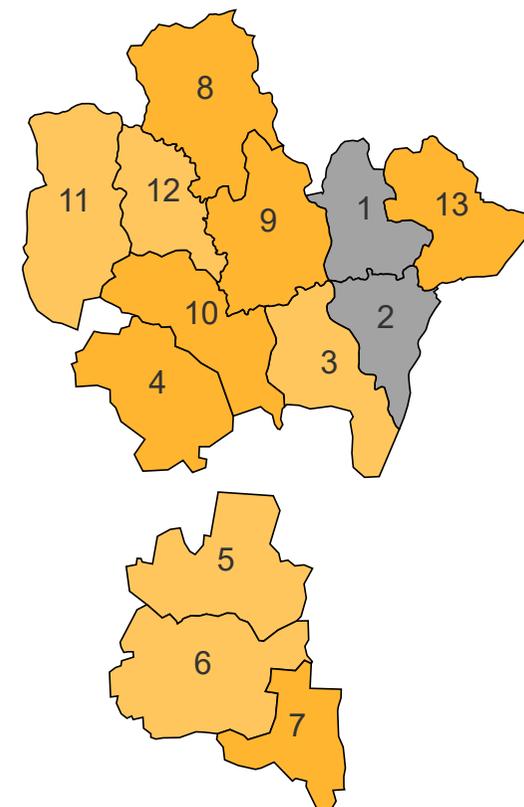


Table 10 | Performance by camp

Teknaf	W7		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	1	100%	10	100%
Camp 22 Unchiprang	2	100%	17	100%
Camp 23 Shamlapur	1	100%	2	100%
Camp 24 Leda	0	0%	15	100%
Camp 25 Ali Khali	0	0%	6	100%
Camp 26 Nayapara	3	100%	25	100%
Camp 27 Jadimura	2	100%	11	100%
Nayapara RC	0	0%	8	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

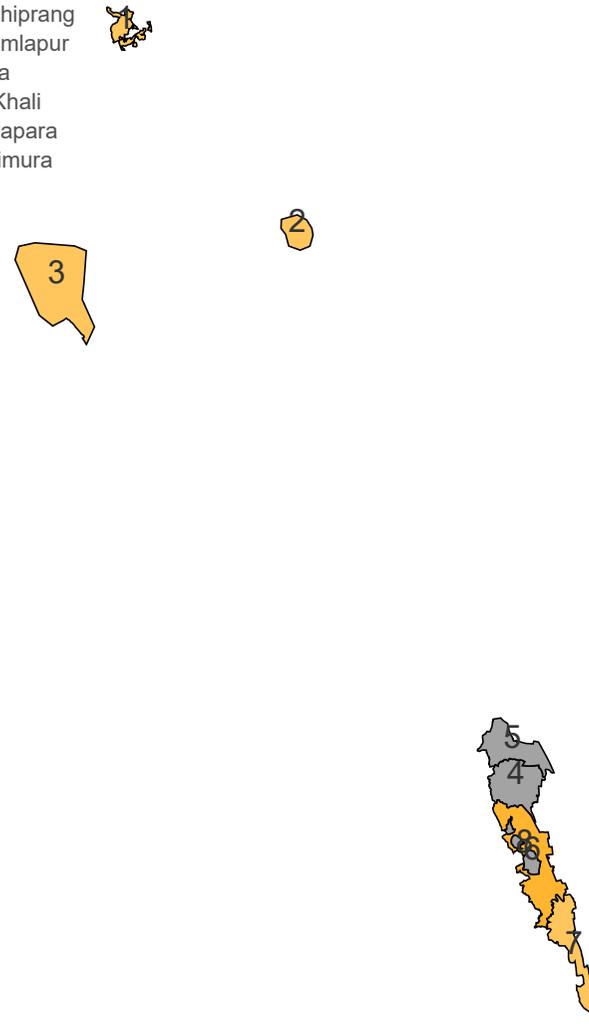


Table 11 | Performance by type of alert

Event	W7		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	2	100%
Measles	10	100%	110	100%
Bloody Diarr.	0	0%	0	0%
AFP	2	100%	6	100%
Meningitis	0	0%	4	100%
Haem. fever (susp.)	0	0%	1	100%
NNT	0	0%	2	100%
Unexp. fever	1	100%	33	100%
AWD	5	100%	52	100%
ARI	2	100%	54	100%
AJS	0	0%	10	100%
Varicella (Susp.)	2	100%	6	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	7	100%	52	100%

Table 12 | Risk assessment

W7	Cumulative (2022)	
0	1	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 W7 2022



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



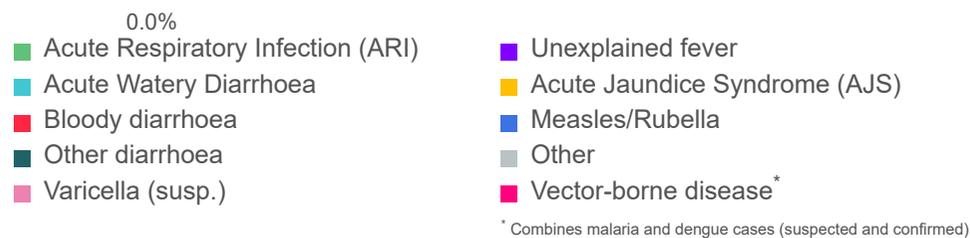
HEALTH SECTOR
COX'S BAZAR



Printed: 05:37 Wednesday, 23 February 2022 UTC

Proportional morbidity

Figure 1 | Proportional morbidity (W7 2022)



Disease	W7		2022	
	# cases	% morbidity	# cases	% morbidity
AWD	1,768	2.1%	20,953	2.5%
Bloody diarr.	249	0.3%	2,958	0.3%
Other diarr.	740	0.9%	7,806	0.9%
Susp. Varicella	165	0.2%	724	0.1%
ARI	14,851	18.0%	170,966	20.2%
Measles/Rub.	16	0.0%	222	0.0%
AFP	2	0.0%	11	0.0%
Susp. menin.	1	0.0%	21	0.0%
AJS	7	0.0%	109	0.0%
Susp. HF	0	0.0%	8	0.0%
Neo. tetanus	0	0.0%	4	0.0%
Adult tetanus	0	0.0%	1	0.0%
Malaria (conf.)	1	0.0%	206	0.0%
Malaria (susp.)	17	0.0%	16,679	2.0%
Dengue (conf.)	8	0.0%	363	0.0%
Dengue (susp.)	6	0.0%	269	0.0%
Unexpl. fever	987	1.2%	11,005	1.3%
Sev. Malnut.	22	0.0%	507	0.1%
Inj./Wounds	1,722	2.1%	16,133	1.9%
Other	61,612	74.9%	595,477	70.4%
Total	81,295	100%	845,447	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W7)

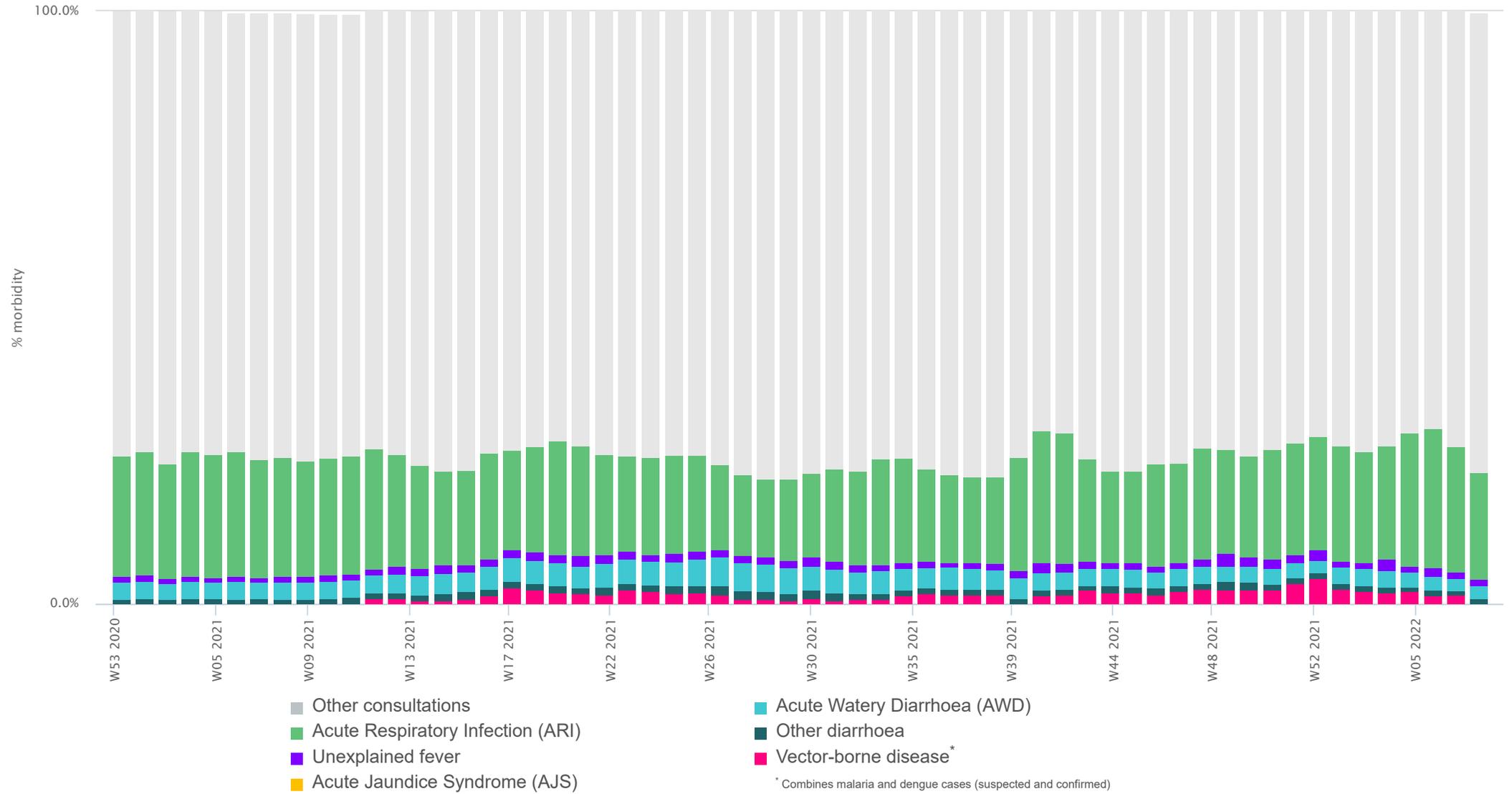
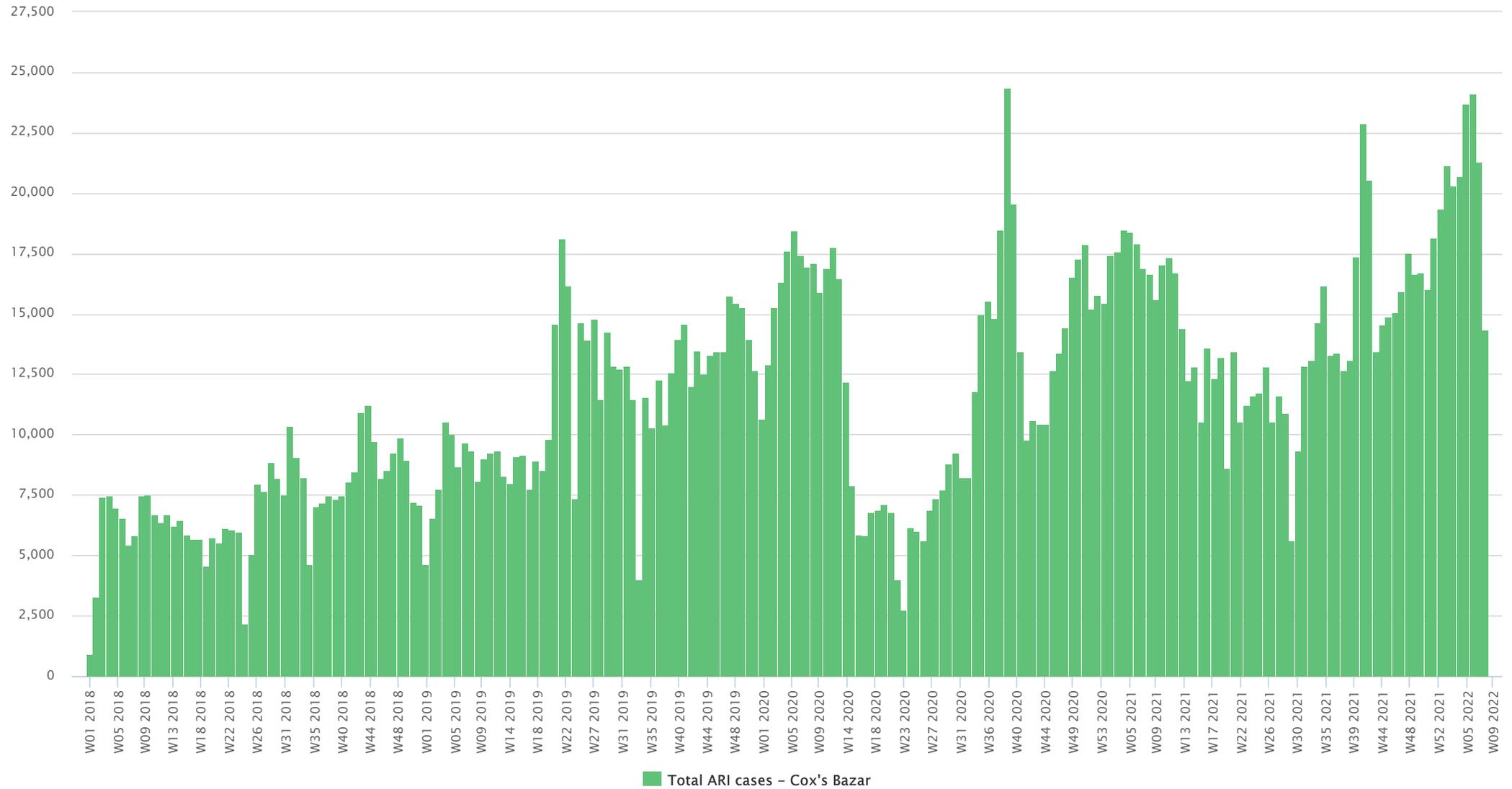
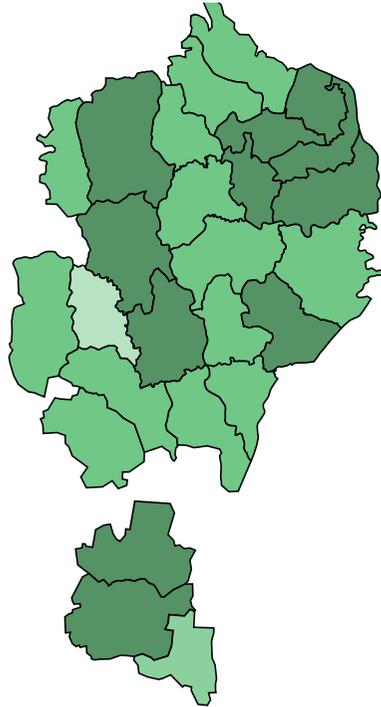


Figure 3 | Trend in number of cases over time (W38 2017 - W7 2022)

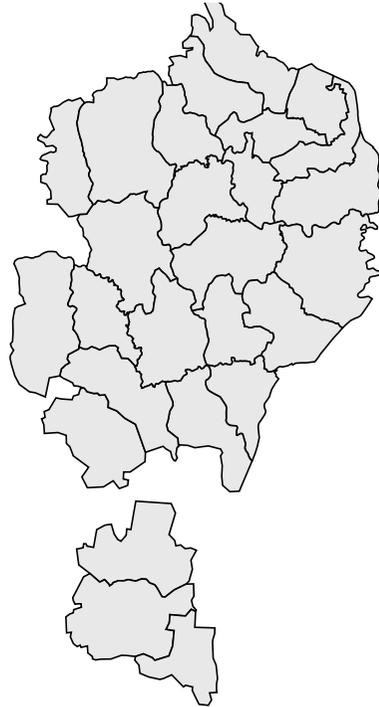


Map 1 | Map of cases by camp (W7 2022)

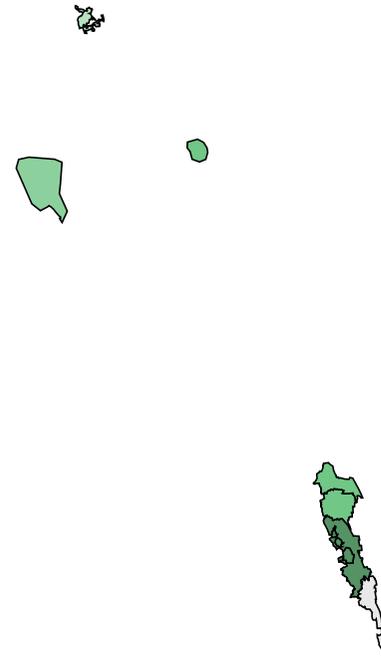
a. Ukhia | Number of cases



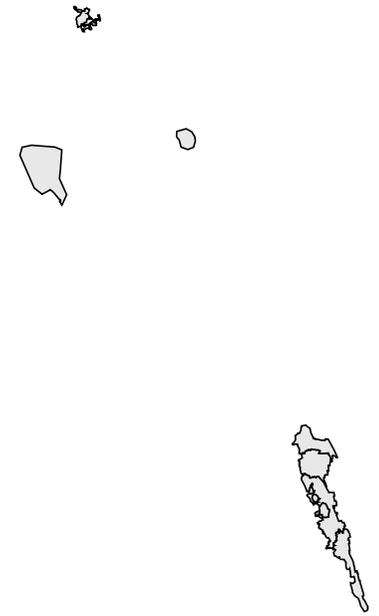
b. Ukhia | Number of alerts



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 (W7 2022)

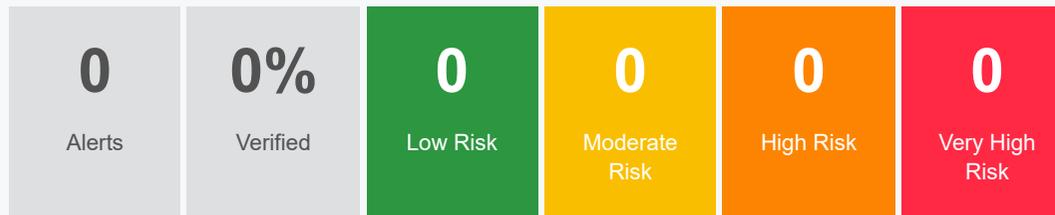
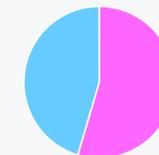
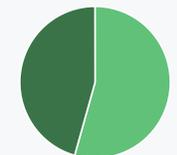


Figure | % sex



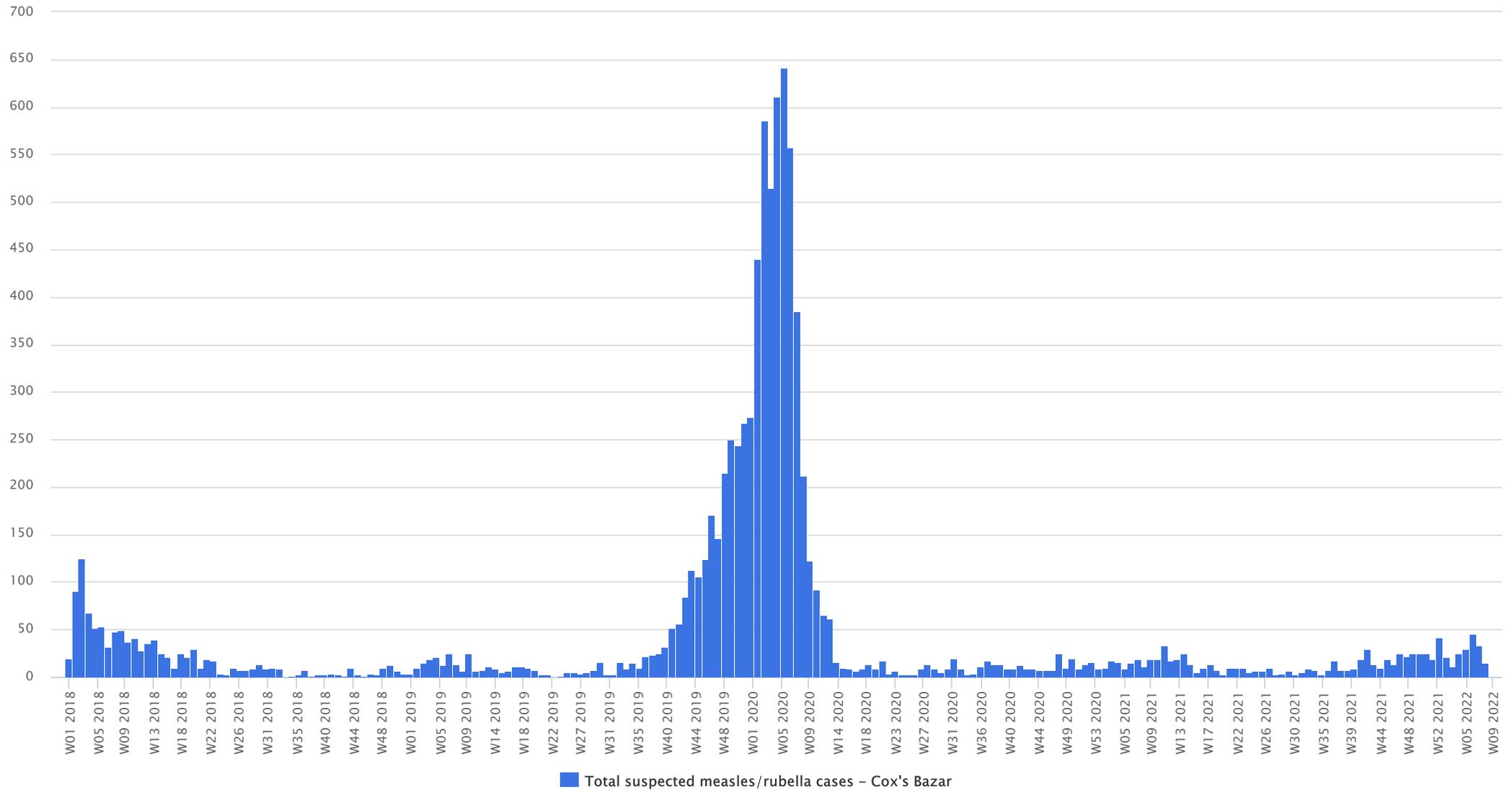
Female Male

Figure | % age



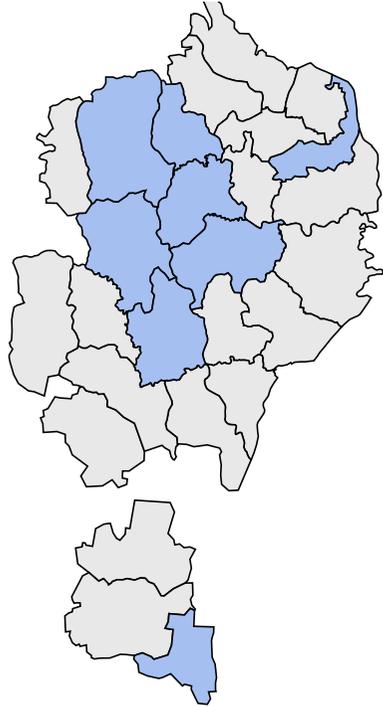
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Figure 4 | Trend in number of suspected cases over time (W38 2017 - W7 2022)

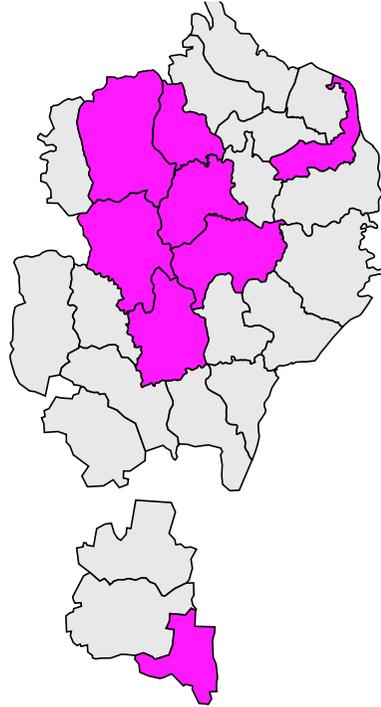


Map 2 | Map of cases by camp (W7 2022)

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 (W7 2022)

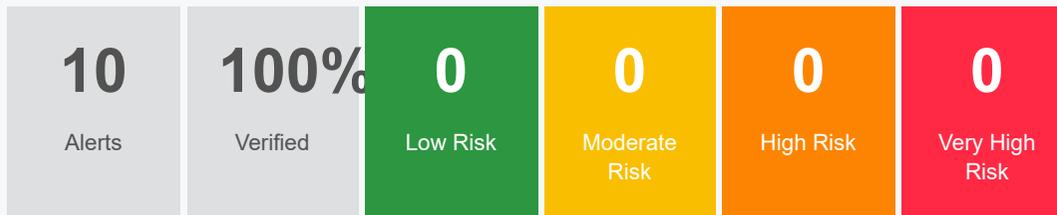


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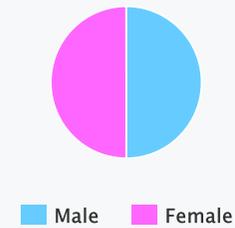


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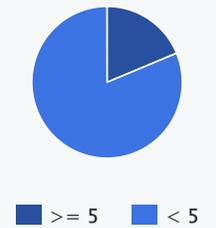
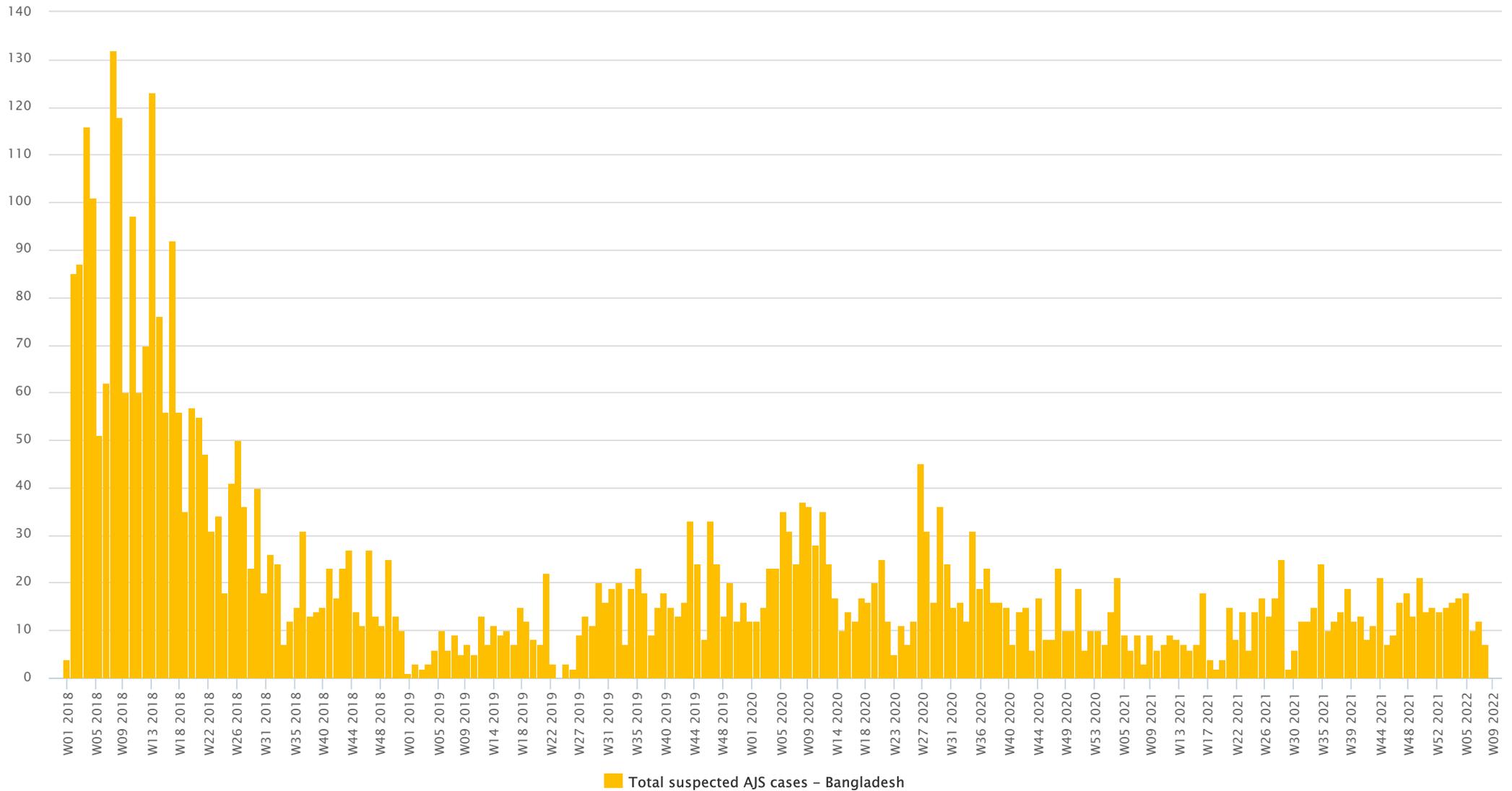
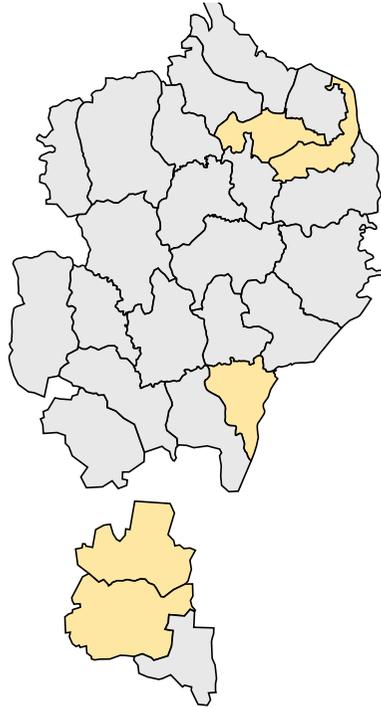


Figure 5 | Trend in number of cases over time (W38 2017 - W7 2022)

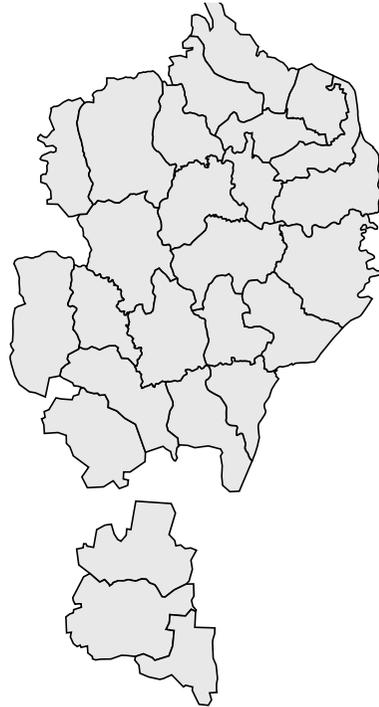


Map 3 | Map of cases by camp (W37 2017 - W7 2022)

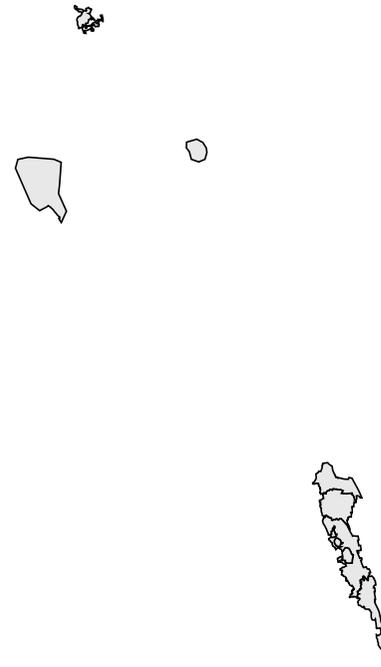
a. Ukhia | Number of cases



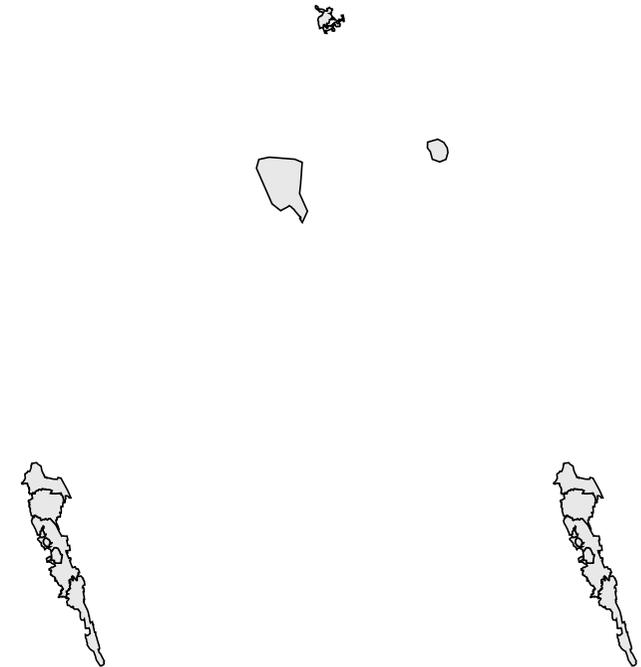
b. Ukhia | Number of alerts



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 (W7 2022)

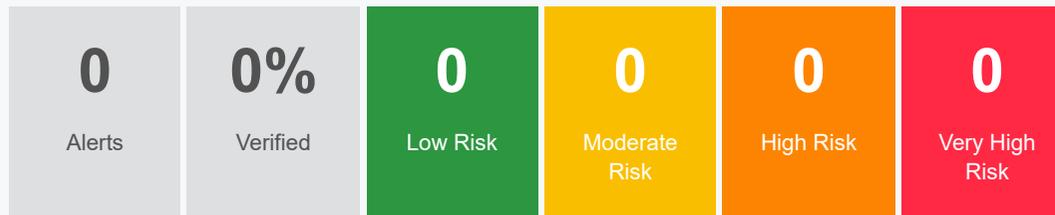


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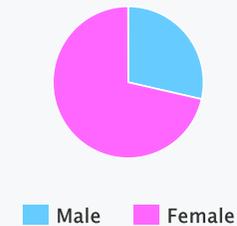


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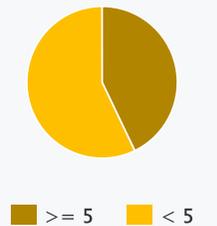


Figure 6 | Trend in number of cases over time (W38 2017 - W7 2022)

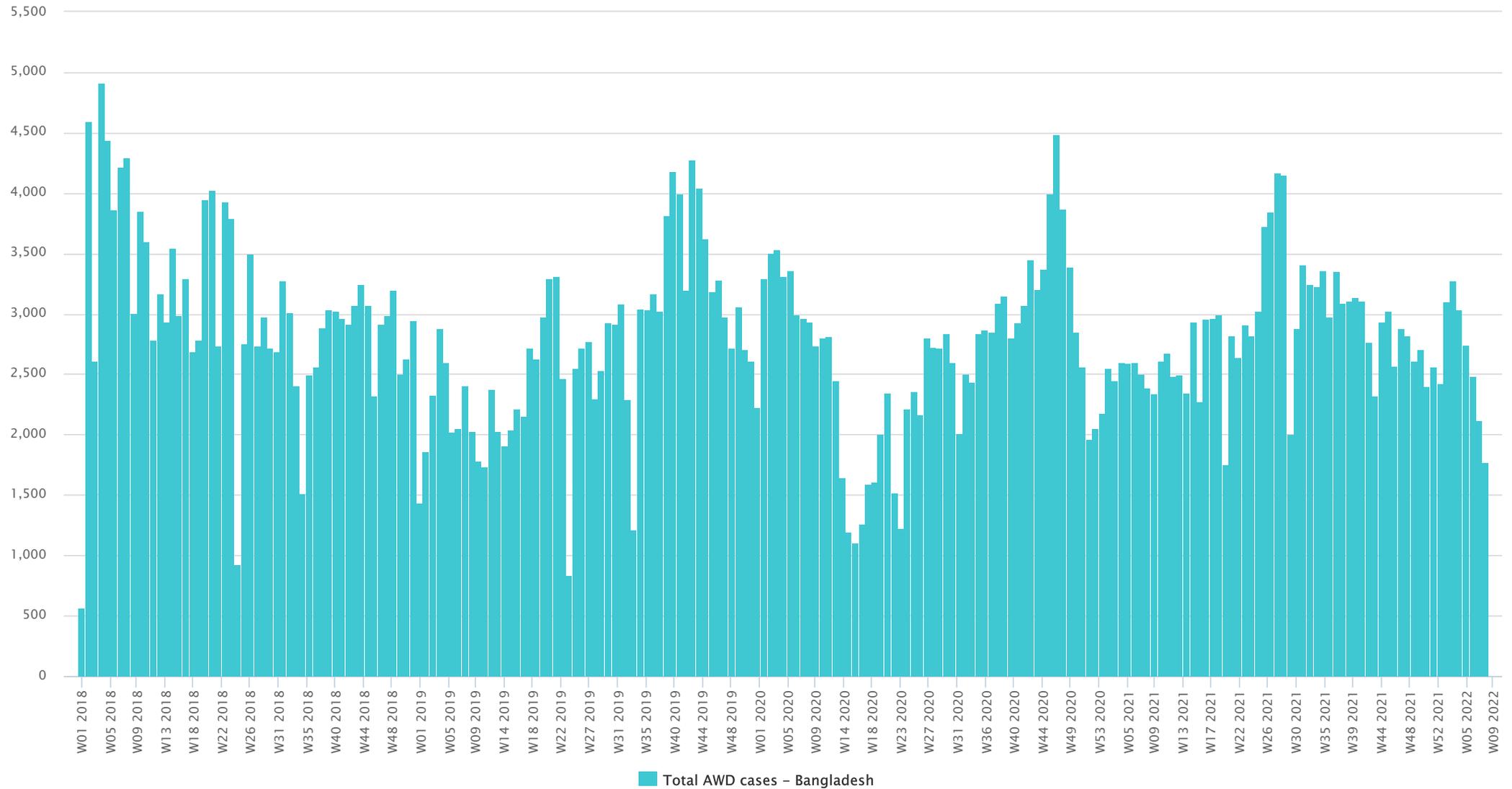
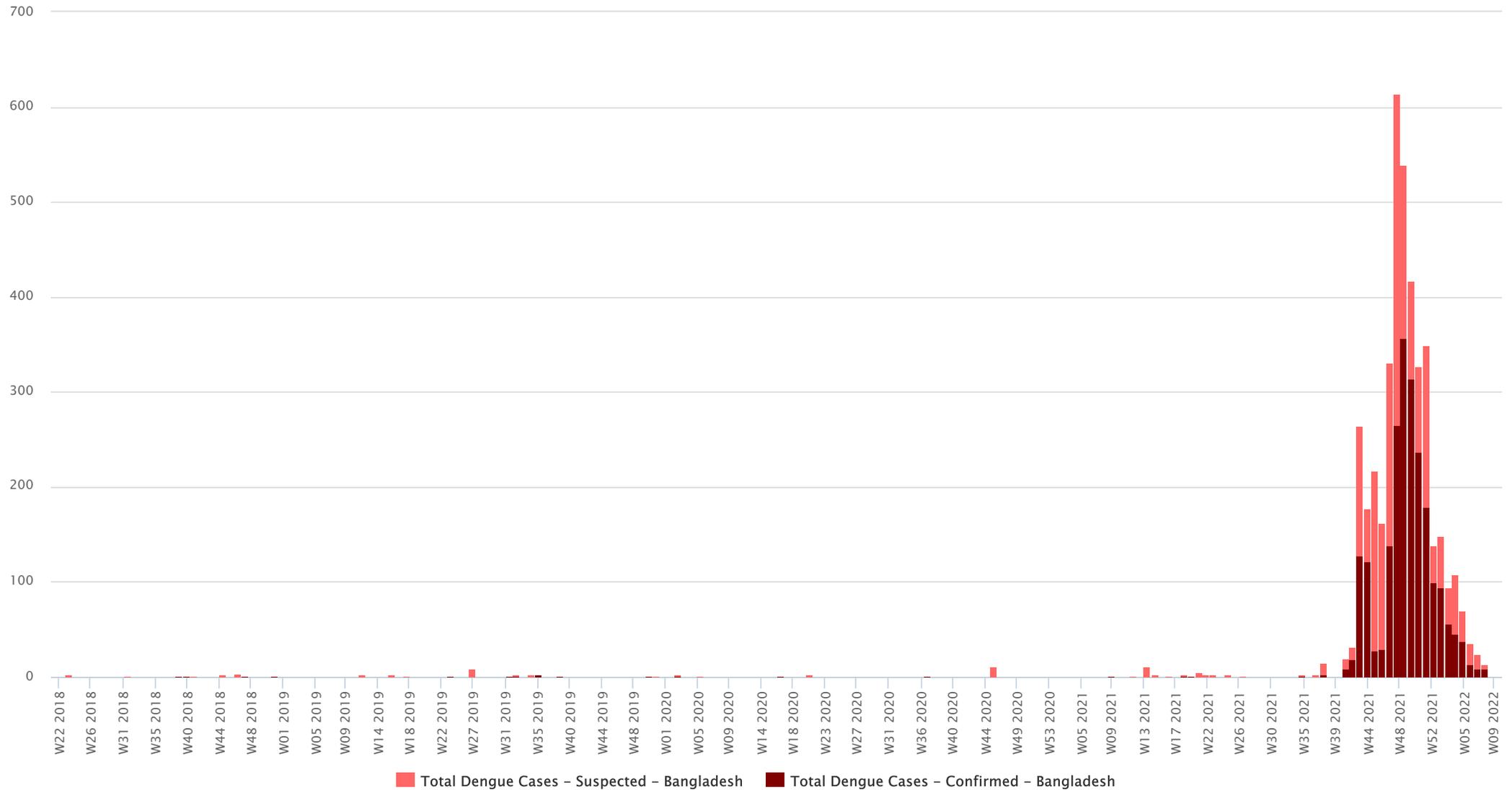
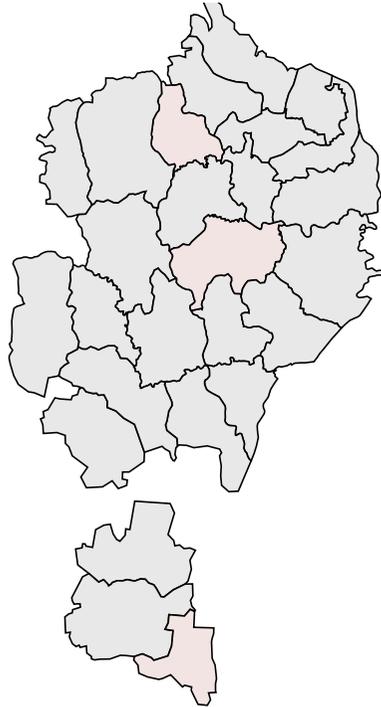


Figure 7 | Trend in number of cases over time (W38 2017 - W7 2022)

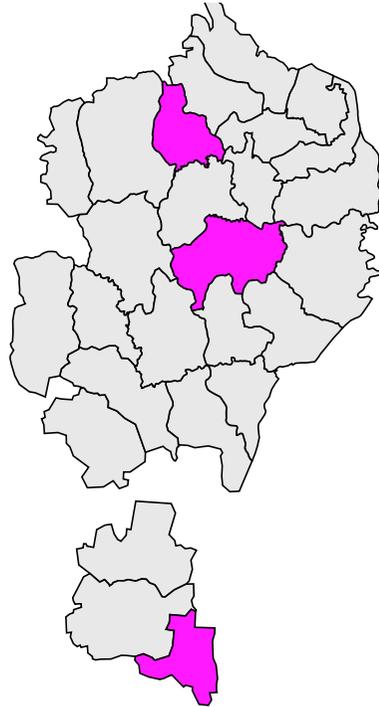


Map 4 | Map of cases by camp (W37 2017 - W7 2022)

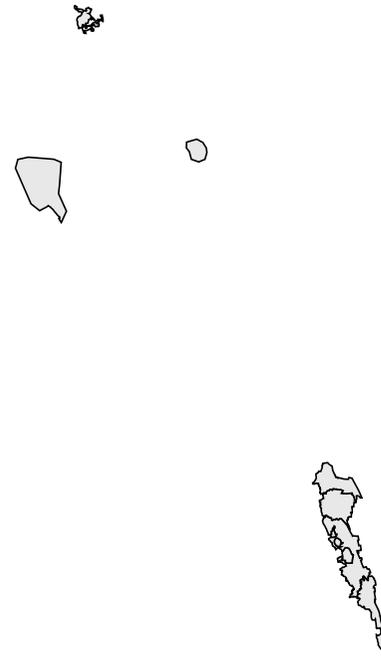
a. Ukhia | Number of cases



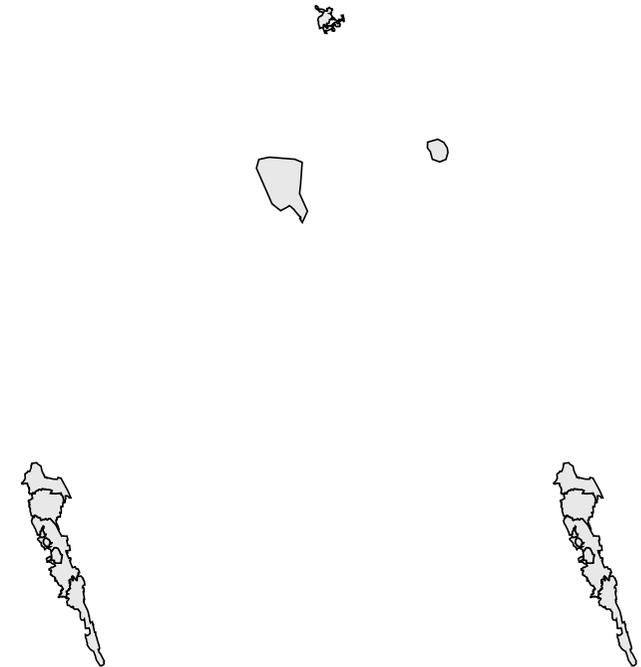
b. Ukhia | Number of alerts



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 (W7 2022)

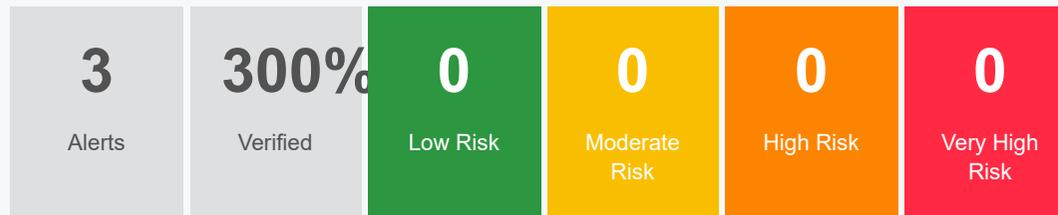


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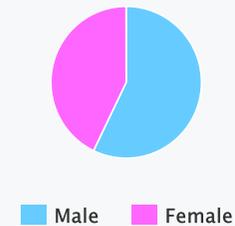
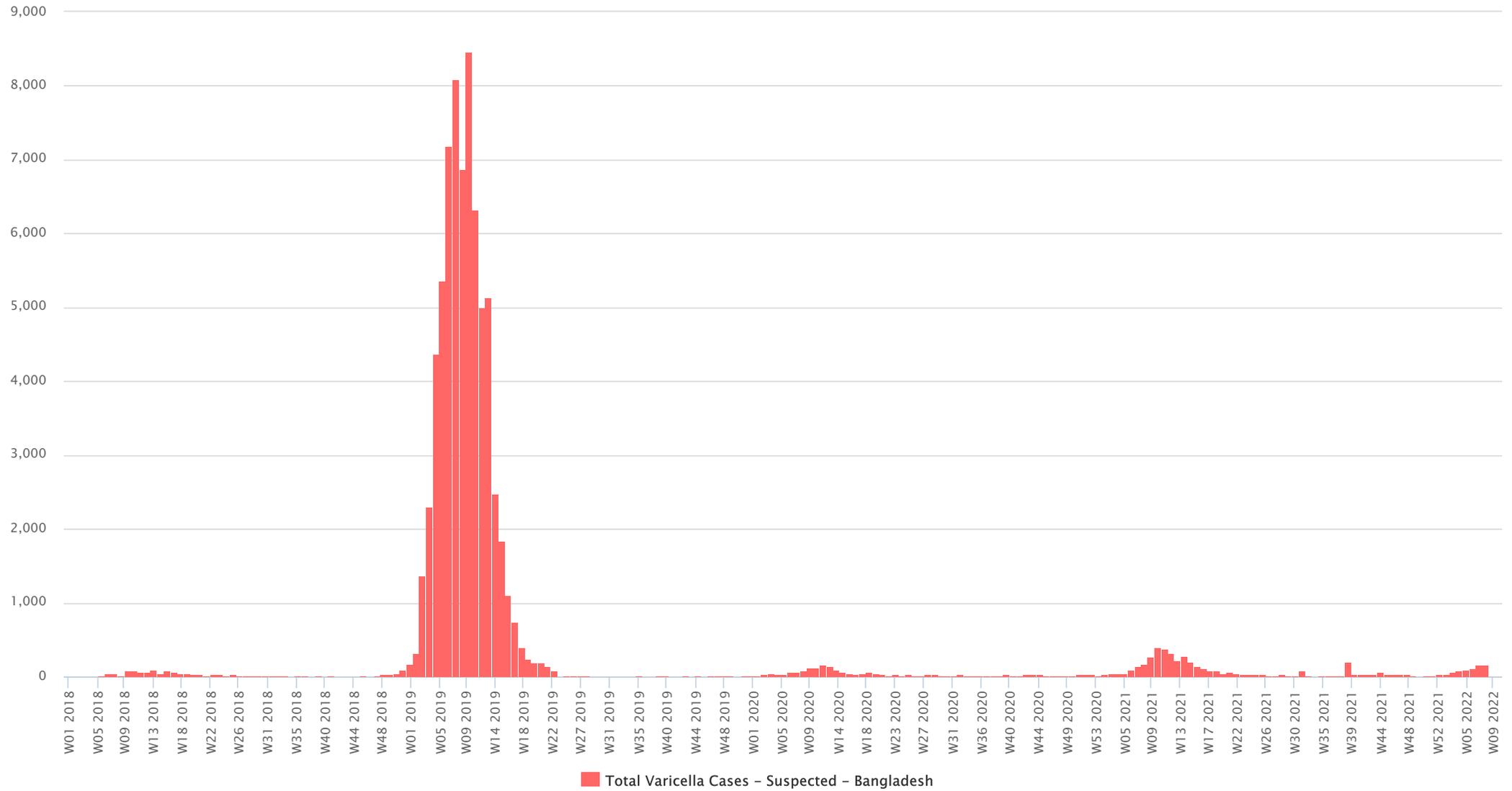


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Figure 7 | Trend in number of cases over time (W38 2017 - W7 2022)

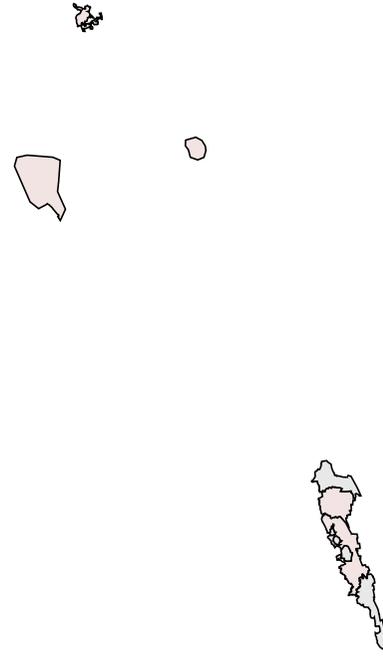


Map 4 | Map of cases by camp (W37 2017 - W7 2022)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

Number of cases

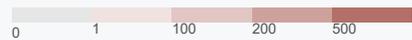
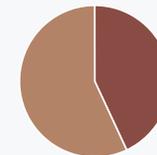


Figure | % sex



Male Female

Figure | % age



>= 5 < 5

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