



Epidemiological Highlights

Week 50 (13-19 Dec 2021)



**World Health
Organization**

Highlights: COVID-19

As of week 50, (13-19 Dec 2021) there were 3,304 confirmed cases of COVID-19 (SARS-CoV-2), out of 78,953 samples that had been tested. The total positivity rate now stands at 4.2%.

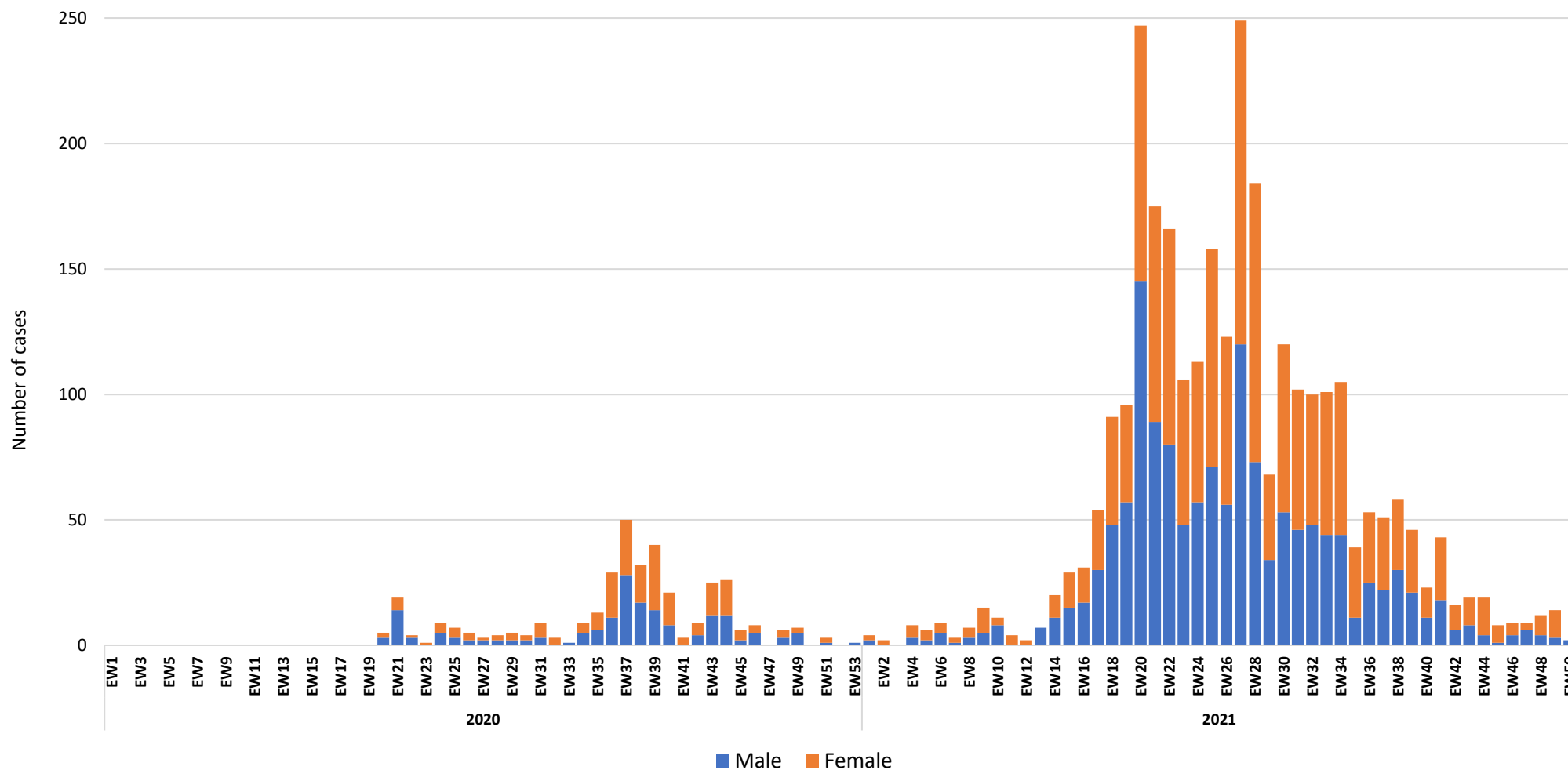
In the reporting week, two (2) new confirmed cases were detected, 761 total samples were tested which is a drop from 14 cases reported the previous week. This translated to a 0.3% weekly test positivity rate.

During the reporting week

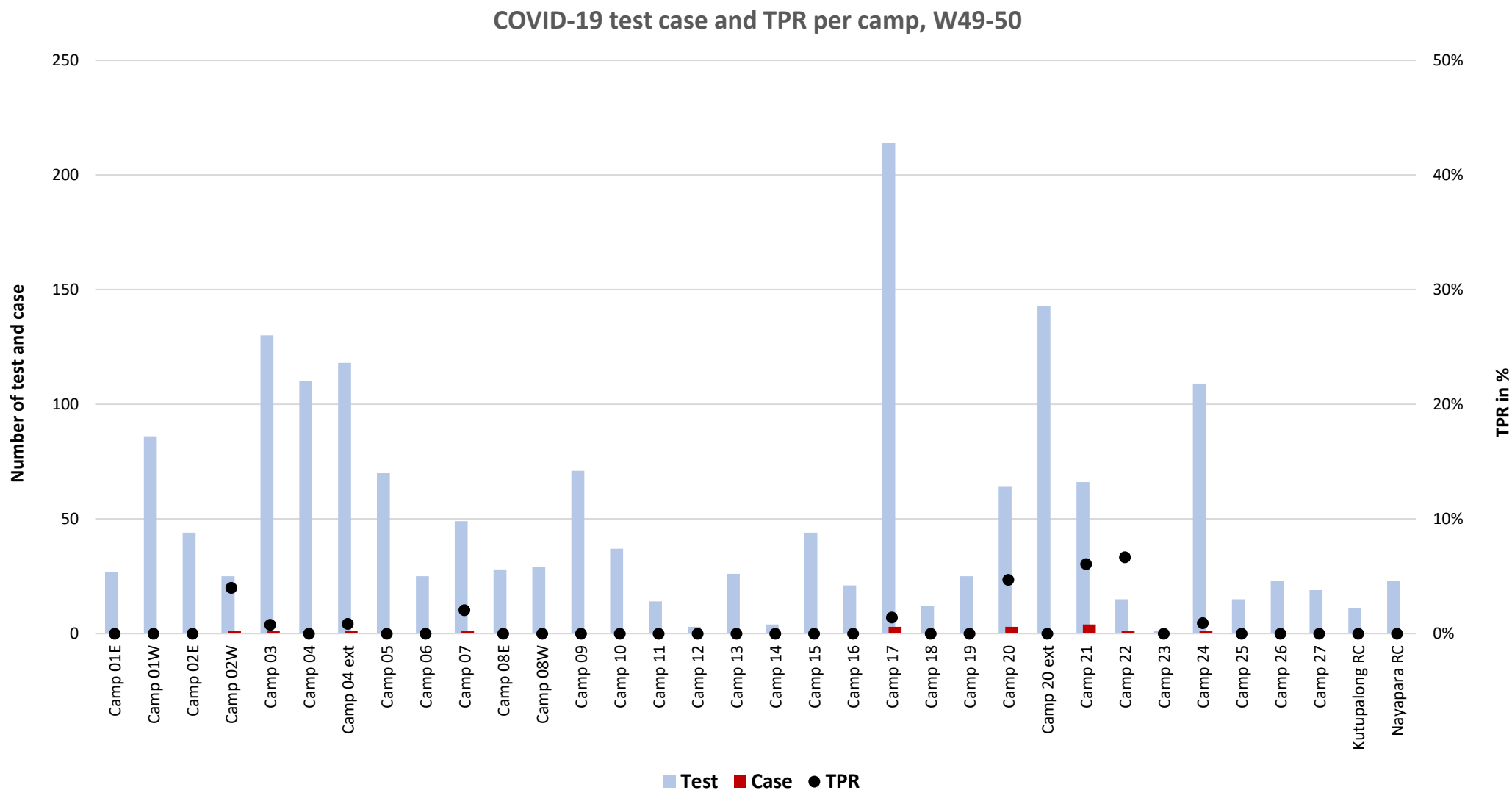
- Median age for tested and confirmed cases were 11 (0-120) and 21 (0-100) years respectively
- Proportions of females among tested and confirmed cases were 54% and 53% respectively
- All the 34 camps, have so far reported confirmed cases since the outbreak began, while the five camps with the highest number of reported cases were; C24-205, C3-203, C17-186, C2W-181, and C21-179.
- Total confirmed COVID-19 deaths so far reported to date stood at 34 with the average case fatality ratio of 1.0% so far.
- The weekly incidence drastically and significantly declined to 2.3 cases/1 million population in this Epi week as compared to 16.3 cases/1million population/week in the previous week.
- The Weekly Test Positivity rate also declined from 1.6% in Epi Week 49 to 0.3% in Epi week 50

Highlights: COVID-19

COVID-19 positive cases (n=3,304) by epidemiological week by date of test

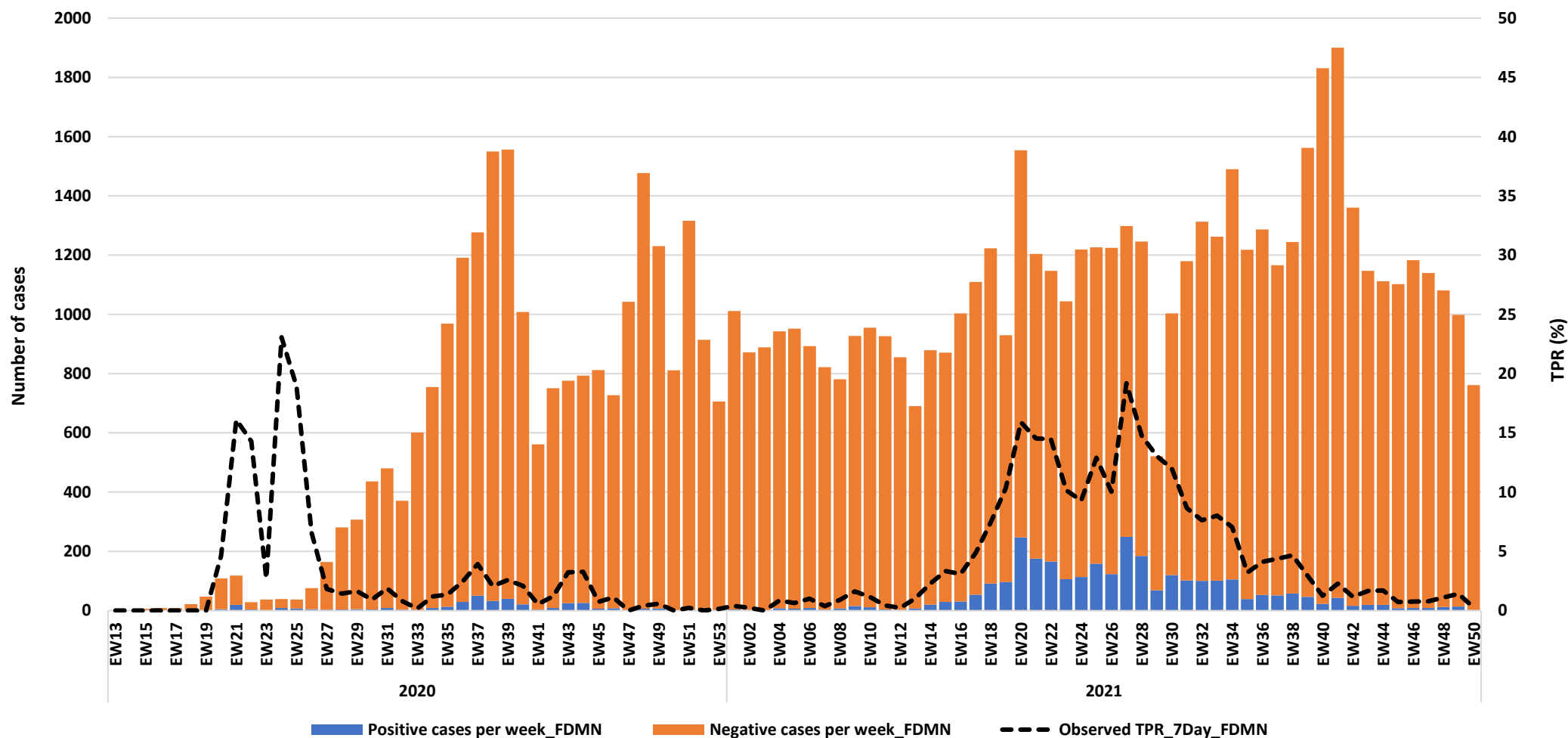


Highlights: COVID-19

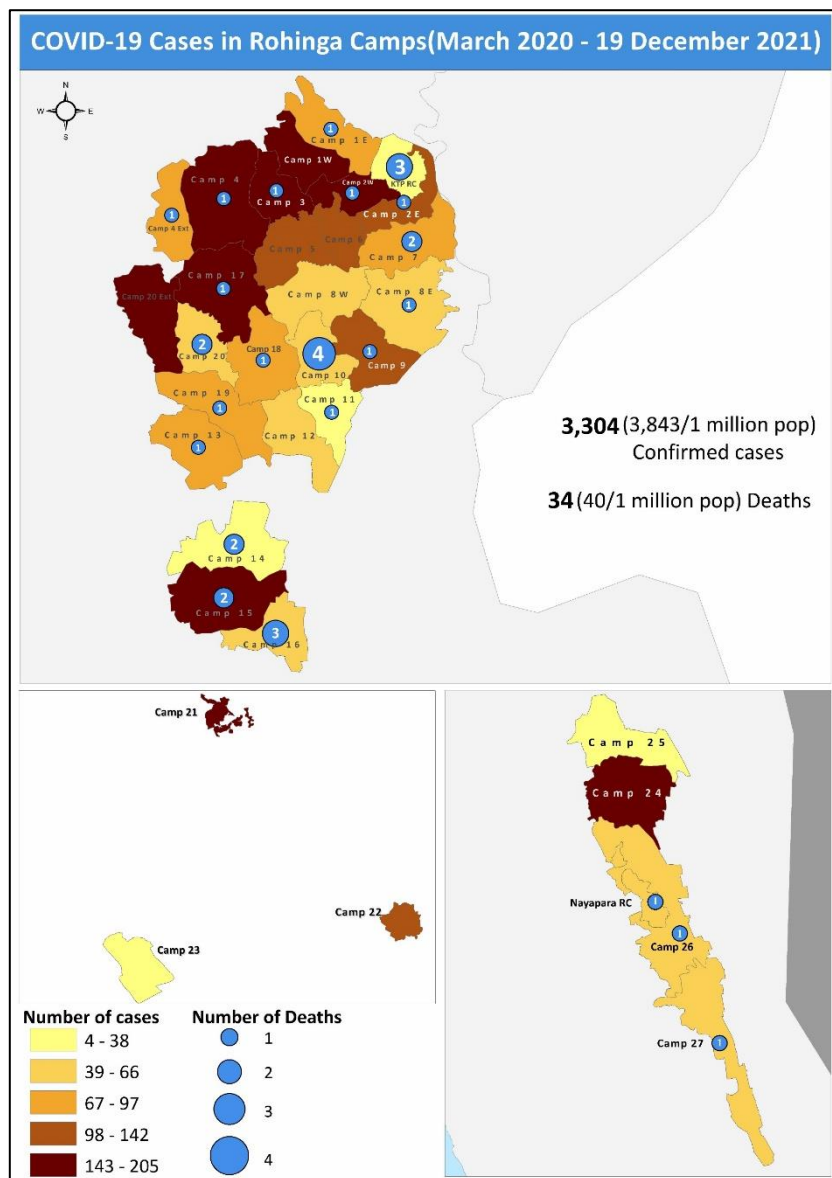


Highlights: COVID-19

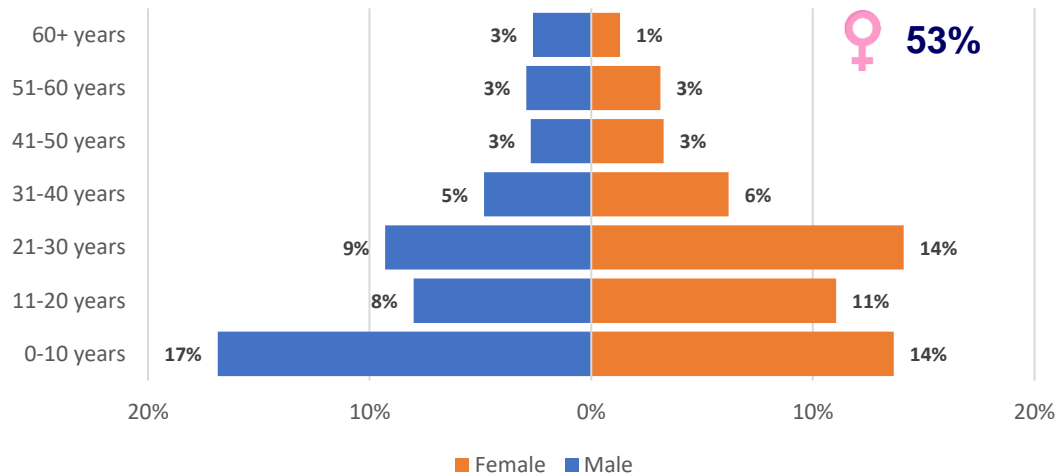
Weekly observed TPR, FDMN/Roingya Refugees, Cox's Bazar



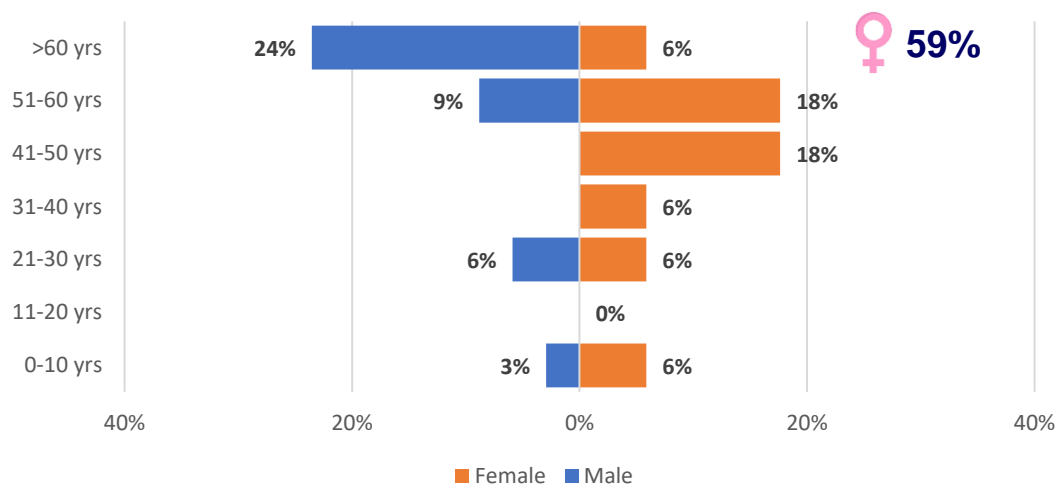
Highlights: COVID-19



Age and sex distribution (%) (n=3,304)

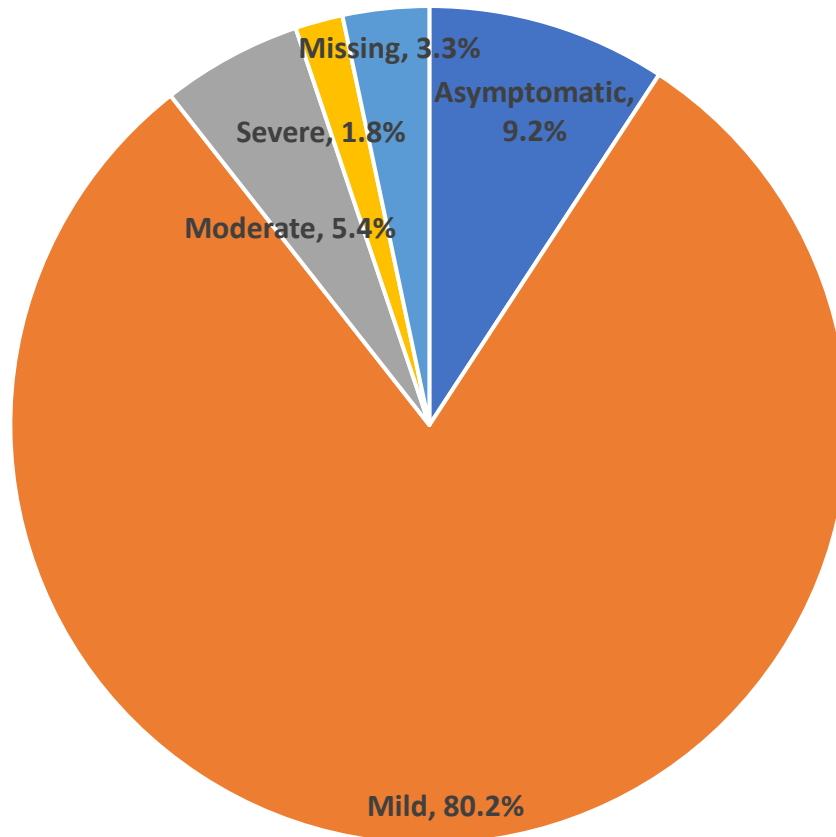


Death reported by age and sex (%) (n=34)

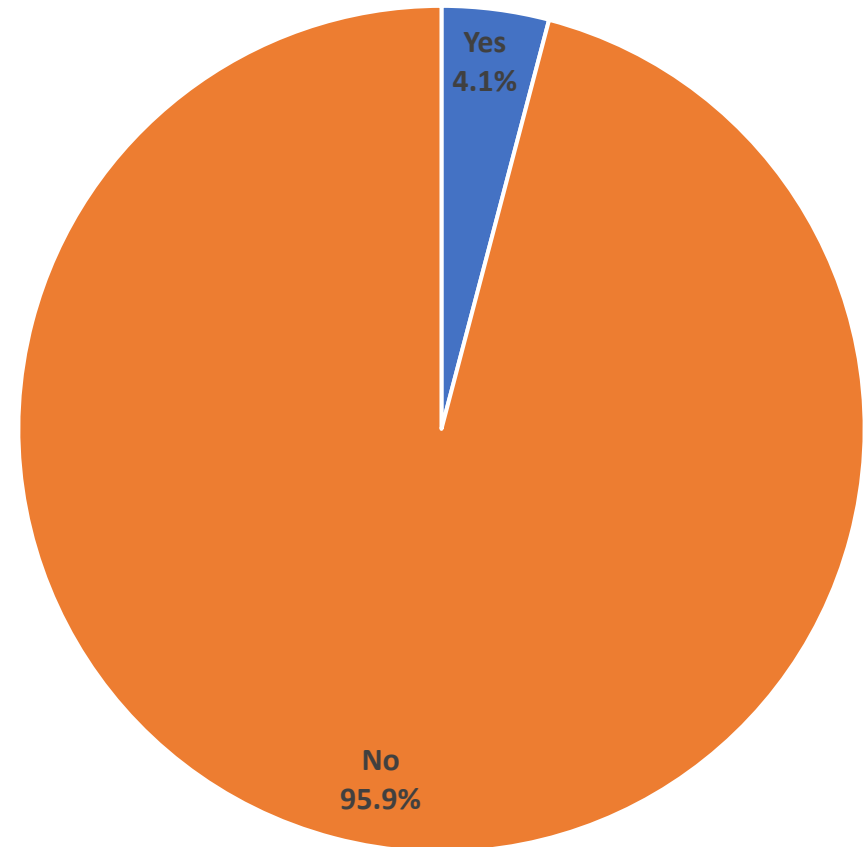


Highlights: COVID-19

Severity of reported cases at presentation (n=3,151)



Did the case report at least 1 co-morbidity (n=3,151)



Source: Go.Data

Highlights: COVID-19

- Total 3,151 (out of 3,304) of the confirmed cases have been investigated by the Rapid Investigation and Response Team (RIRT, a camp wise Contact Tracing(CT) network, composed of RIRT coordinator, Site Mx representation, CT supervisor, currently camp 34 teams are working with 34 supervisors and over 300 volunteers i.e. contact tracer).
- Contact tracing has been done by Contact Tracing (CT) supervisors with 8,970 (80%) contacts registered for follow-up in the Go.Data out of 11,202 contacts in total were identified during the field investigation.
- 6,595 (74%) contacts successfully accomplished the follow-up.
- 321 household contacts tested positive within the incubation period.

Source: Go.Data

EWARS Reporting Updates

- Currently, a total of 170 health facilities registered in EWARS
 - During the week, 141/170 weekly reports were received on time in week 50
 - Timeliness of reporting for this week was 83%
 - Eighty-eight (88) alerts were triggered
 - All alerts were reviewed and verified by the WHO EWARS team;
 - The number of alerts triggered this reporting week were less than that of the previous week (89 in week 49).

Highlights:

- Acute Respiratory Infection (18.1%), Diarrheal Diseases (4.2%) & Injury and wounds (2.2%) were the diseases and health conditions with the highest proportional morbidity in week 50.
- Monitoring of suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020.
 - During the Epi week, one (1) SARI deaths was reported
 - One hundred forty-one (141) suspected SARI deaths have been reported so far and reviewed subsequently by Rapid Investigation and Response Team (RIRT) for COVID-19.
 - Out of the 141 SARI suspected deaths so far reported, a total of fifteen (15) SARI deaths were verified through Verbal Autopsy and Health Facility Death Review and considered as death due to probable COVID-19 till date.

Diphtheria updates

Three (3) suspected diphtheria case was reported in go.data in week 50

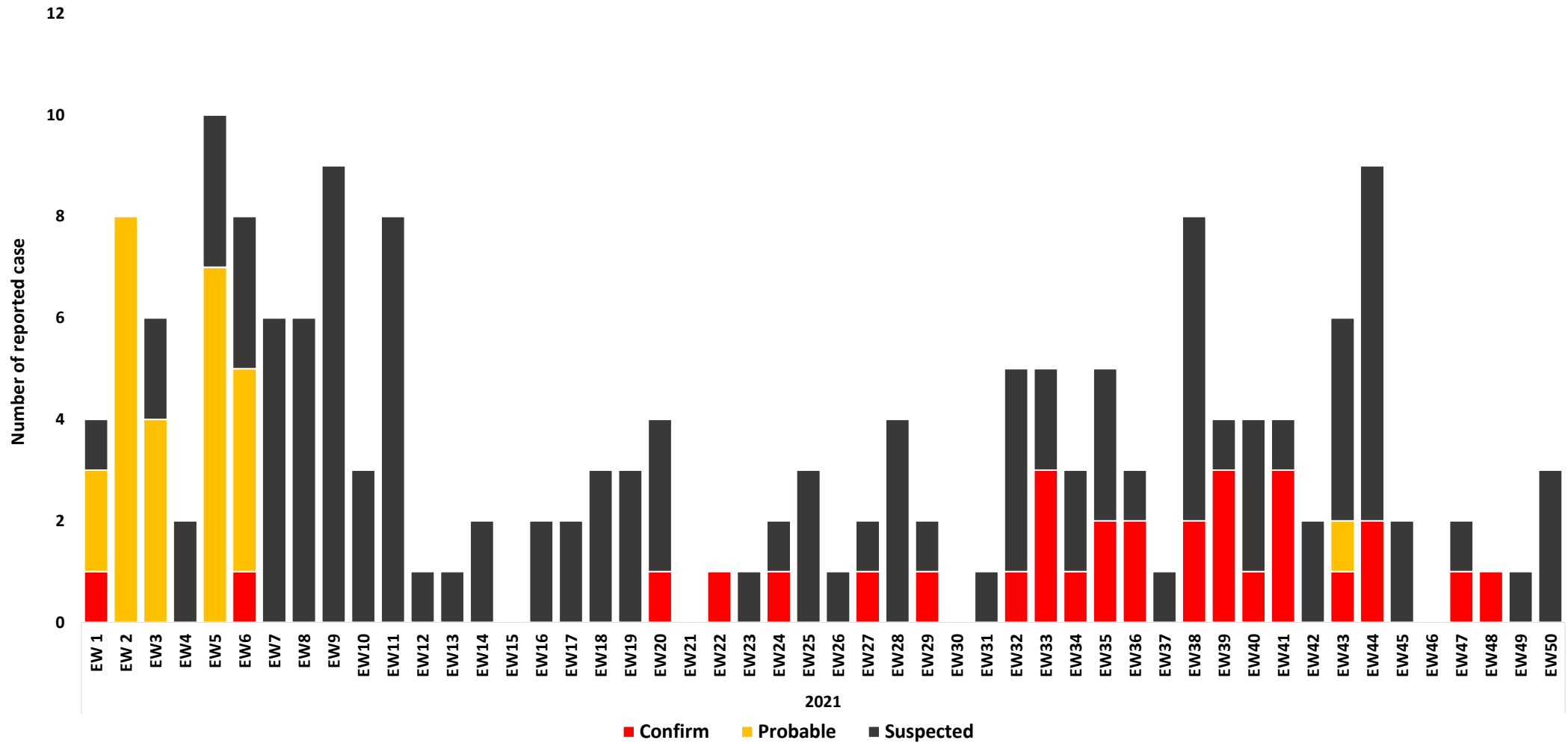
The last confirmed case was reported on 10 December 2021

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

Classification	2017	2018	2019	2020	2021
Confirmed	66	226	31	19	30
Probable	1154	1555	60	9	26
Suspected	1796	3549	523	198	117
Death	30	14	3	0	5

Diphtheria

Total number of diphtheria cases reported in EWARS from W1-50, 2021

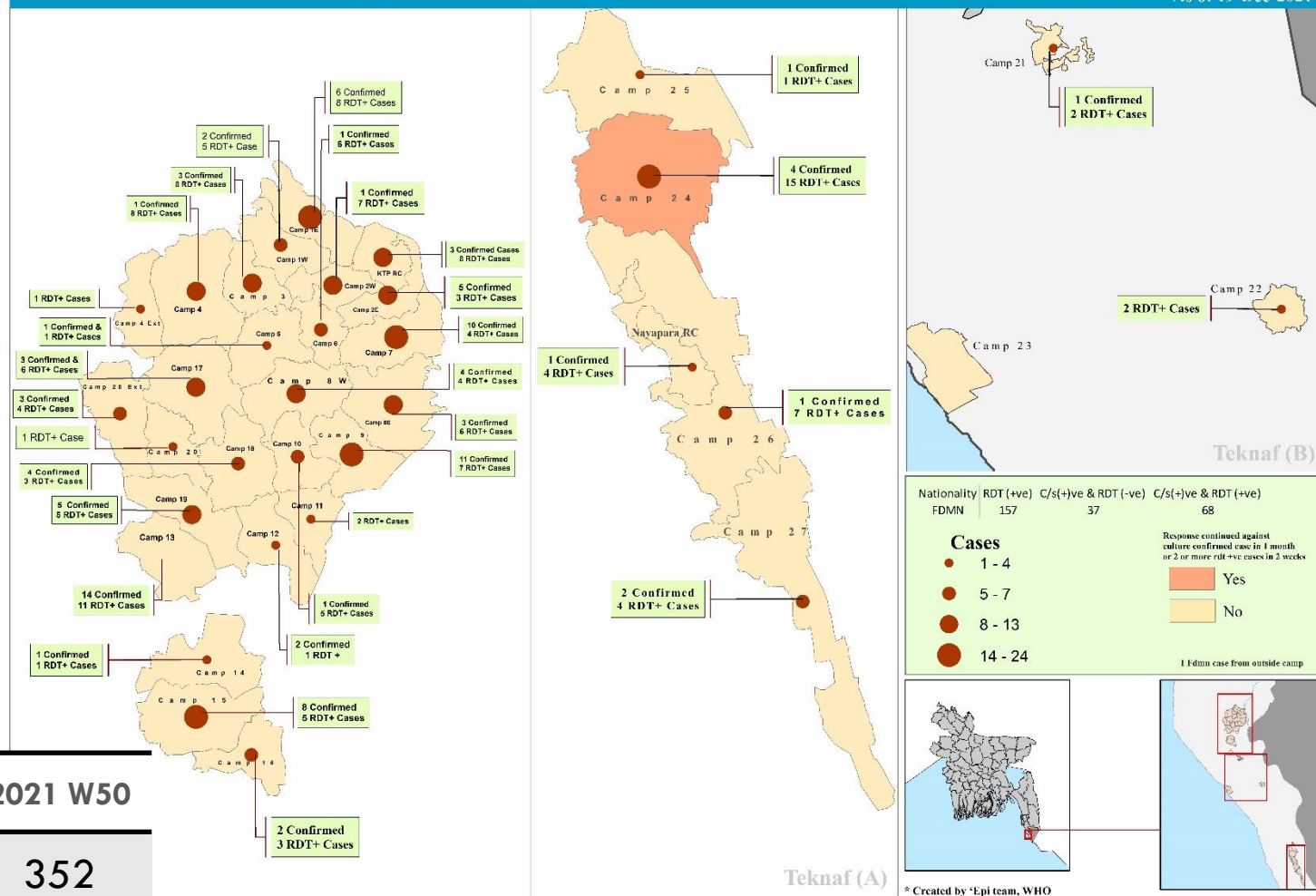


Cholera Surveillance

- In Epi week 50, no RDT positive case was reported.
- In 2021 total of three hundred and fifty-two (352) Cholera RDT positive/culture cases were reported as of Epi Week 50 2021. Out of these, there were 135 confirmed while 217 cases were RDT confirmed.
- 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.

Distribution of RDT positive and culture confirmed for Cholera cases in FDMN 2021

As of 19-Dec-2021



2018 2019 2020 2021 W50

RDT positive/culture confirmed for Cholera

49 258 28 352

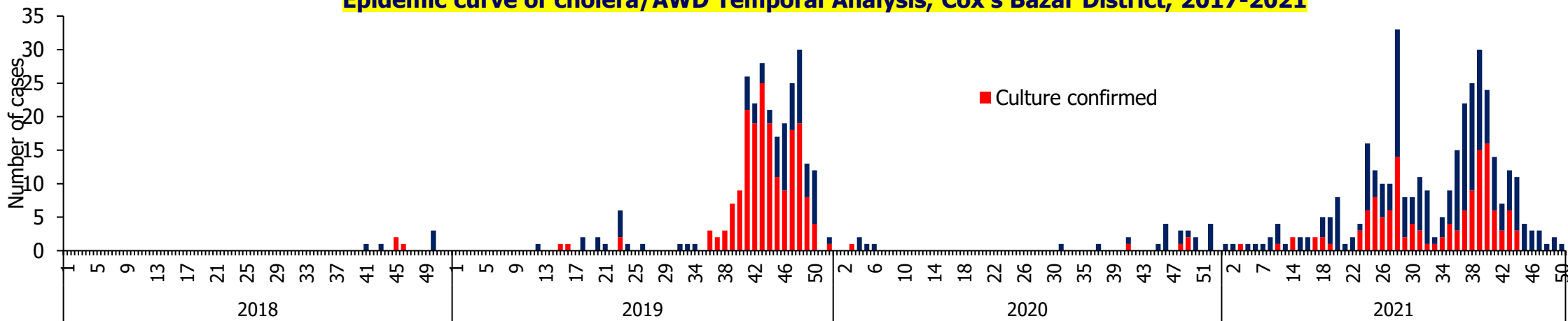
Culture confirmed for Cholera

7 184 5* 135

*3 culture confirmed cases were RDT negative in 2020

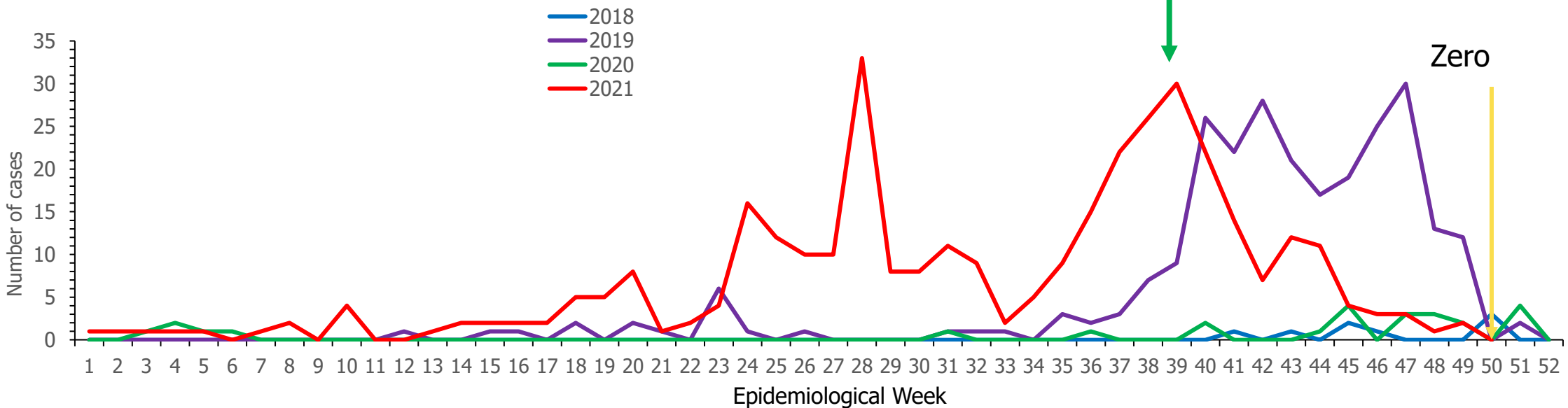
Cholera Surveillance

Epidemic curve of cholera/AWD Temporal Analysis, Cox's Bazar District, 2017-2021



First round OCV Campaign started

CASE DECLINE FOLLOWING OCV

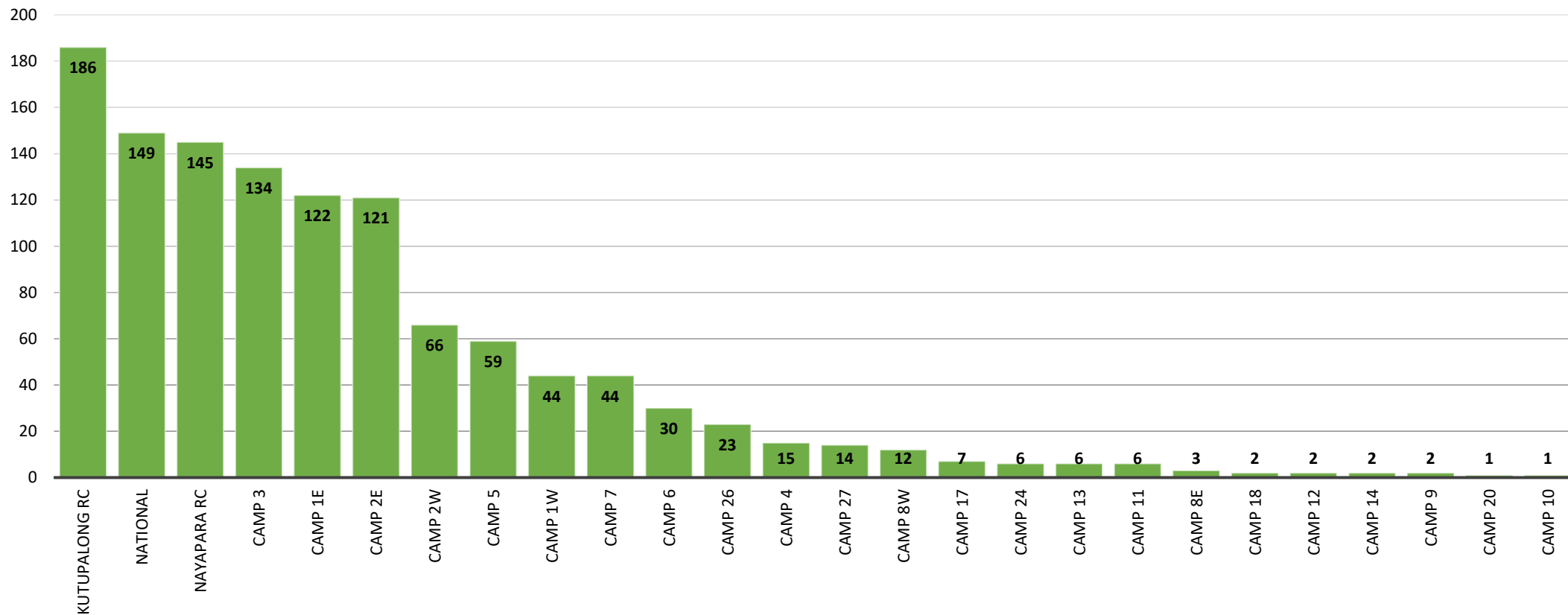


Dengue fever updates

	Week/month		Cumulative	
Month/Epi Week	Confirmed case	Death	Confirmed case	Death
March	1	0	1	0
May	2	0	3	0
June	1	0	4	0
August	1	0	5	0
September	4	0	9	0
Week 40 (4-10 Oct)	3	0	12	0
Week 41 (11-17 Oct)	10	0	22	0
Week 42 (18-24 Oct)	106	0	128	0
Week 43 (25-31 Oct)	98	1	226	1
Week 44 (1-7 Nov)	40	1	266	2
Week 45 (8-14 Nov)	35	0	301	2
Week 46 (15-21 Nov)	120	1	421	3
Week 47 (22-28 Nov)	225	0	646	3
Week 48 (29 Nov- 5 Dec)	224	0	870	3
Week 49 (6-12 Dec)	201	0	1,071	3
Week 50 (13-19 Dec)	138	0	1,209	3

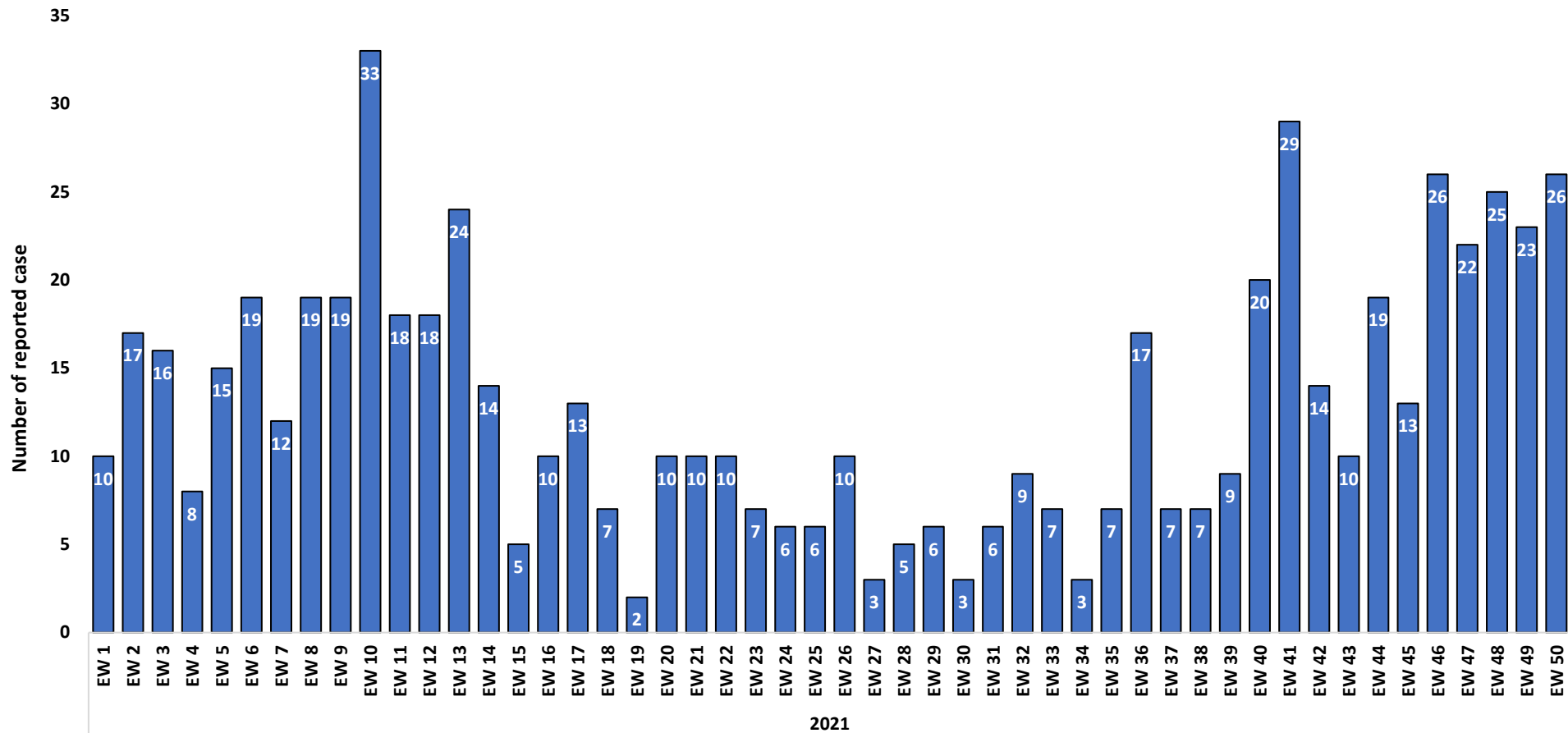
Dengue fever updates

Geographical distribution of Dengue confirmed cases (n=1,202)



Measles Updates

Total number of Measles suspected cases reported in EWARS from W1-47, 2021



Epi week

In week 50, 26 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 662 reported in 2021.

About 66% (435/662) of the total reported suspected measles cases were reported through case-based reporting and samples collected for laboratory confirmation

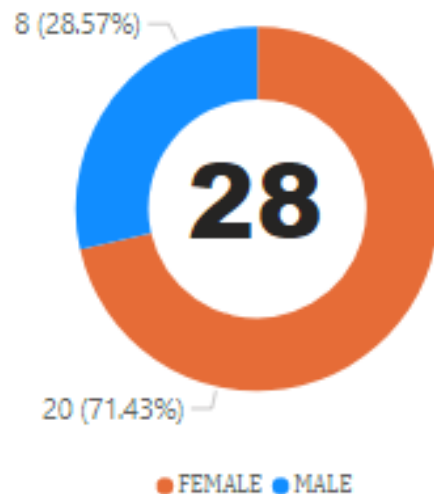
Community-based Mortality surveillance

Probable Cause of Death	Week 50	In 2021
Still Birth	5 (17%)	230 (12%)
Neonatal Death (<28 days old)	1 (4%)	194 (11%)
Infectious Disease	1 (4%)	42 (2%)
Severe Acute Respiratory Infection (SARI)	--	44 (2%)
Injury	1 (4%)	37 (2%)
Maternal Death	--	54 (3%)
Acute Malnutrition	--	1 (.05%)
Other	20 (71%)	1 262 (68%)
Total	28 (100%)	1864 (100%)

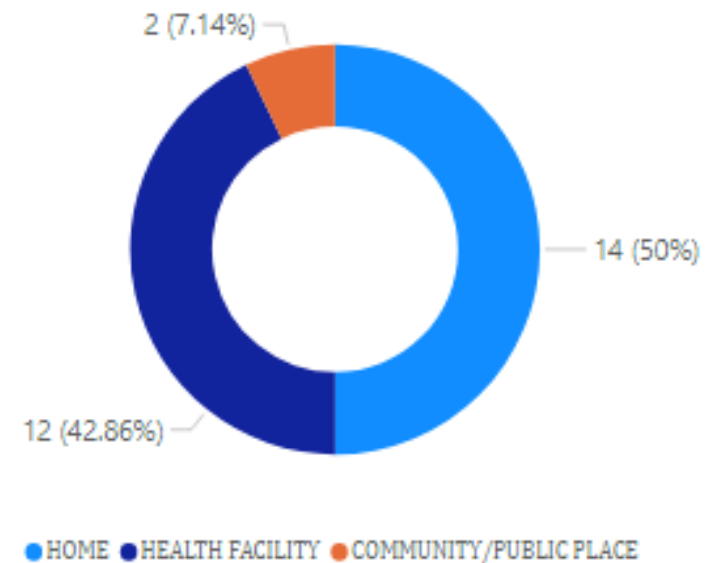
- Partners to report all mortalities into EWARS platform using both case and event-based reporting as applicable.

Community-based Mortality Surveillance

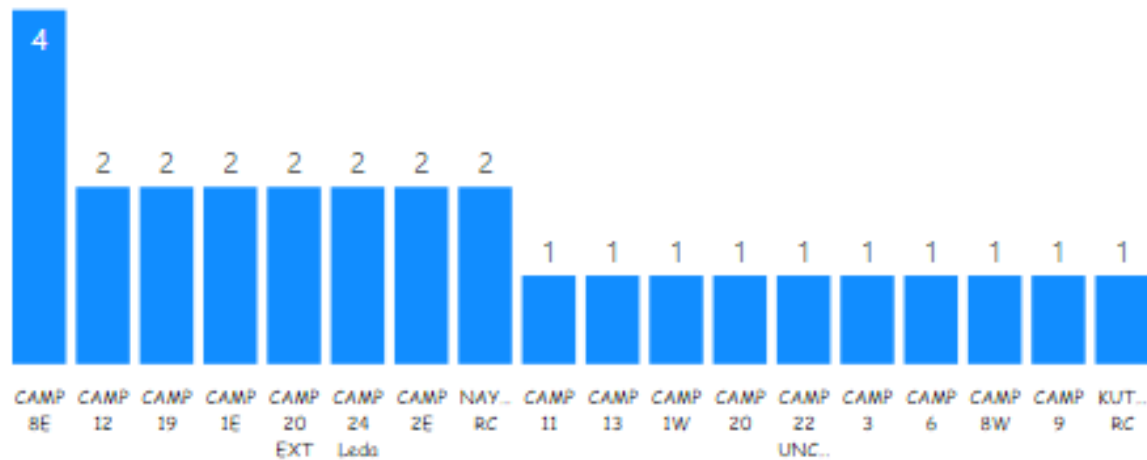
Gender distribution



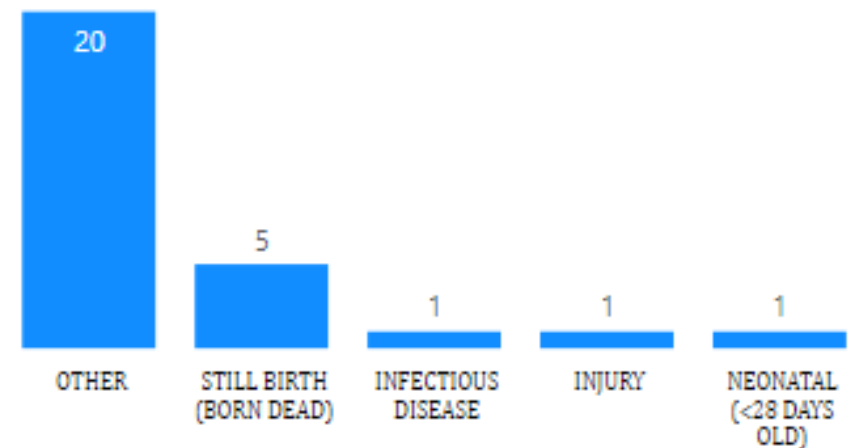
Place of death



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W50 2021



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

Highlights W50 2021

Table 1 | Coverage

#	%	
866,457	-	Estimated total Rohingya population ¹
866,457	100%	Total population under surveillance
175	-	Total number of health facilities
170	97%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

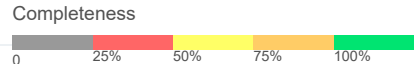
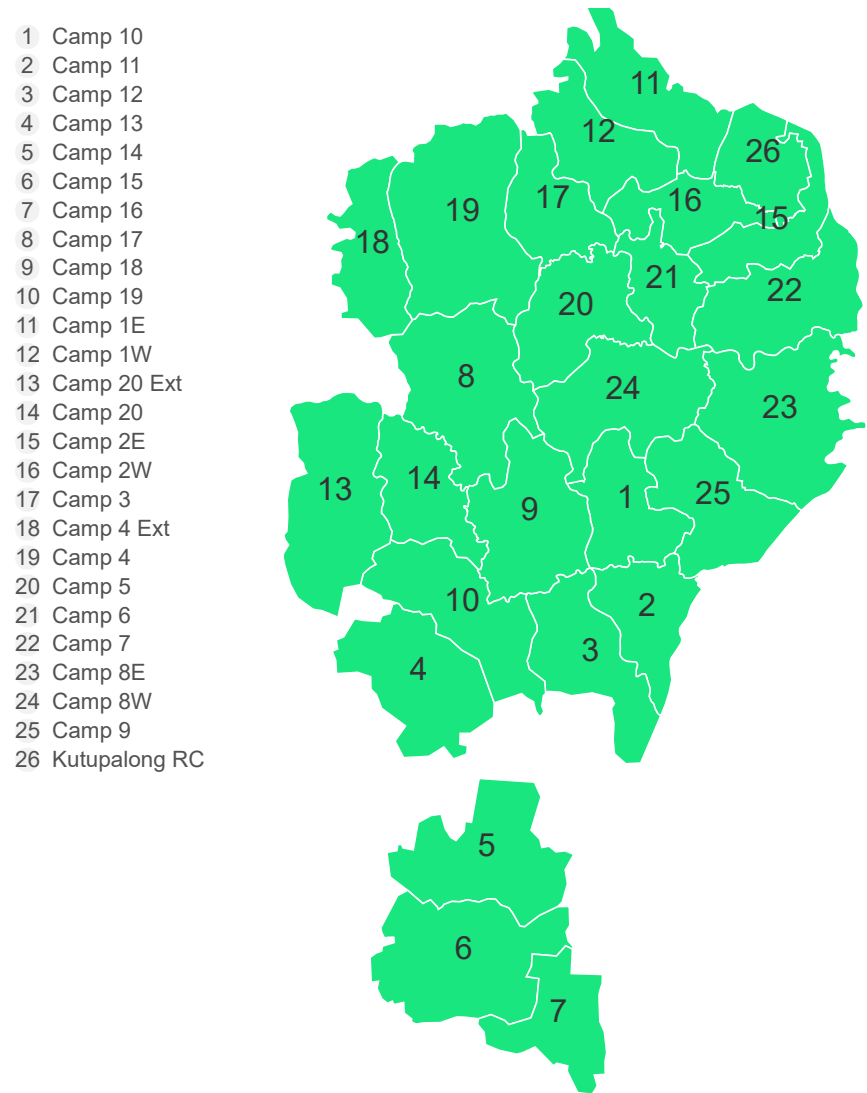
W50	Cumulative (2021)	
141	8243	Number of weekly reports received
83%	93%	Completeness
83%	87%	Timeliness

Table 3 Alert performance indicators

W50	Cumulative (2021)	
88	3,512	Total alerts raised
100%	100%	% verified
0%	0%	% auto-discarded
0%	1%	% undergoing risk assessment
0%	1%	% completed risk assessment

¹ Source: UNHCR. Bangladesh: Joint Government of Bangladesh- UNHCR Population Factsheet. 31 December 2020.

Map 1a | Ukhia completeness by camp



Map 1b | Teknaf completeness by camp

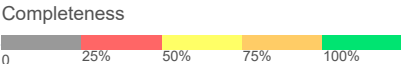
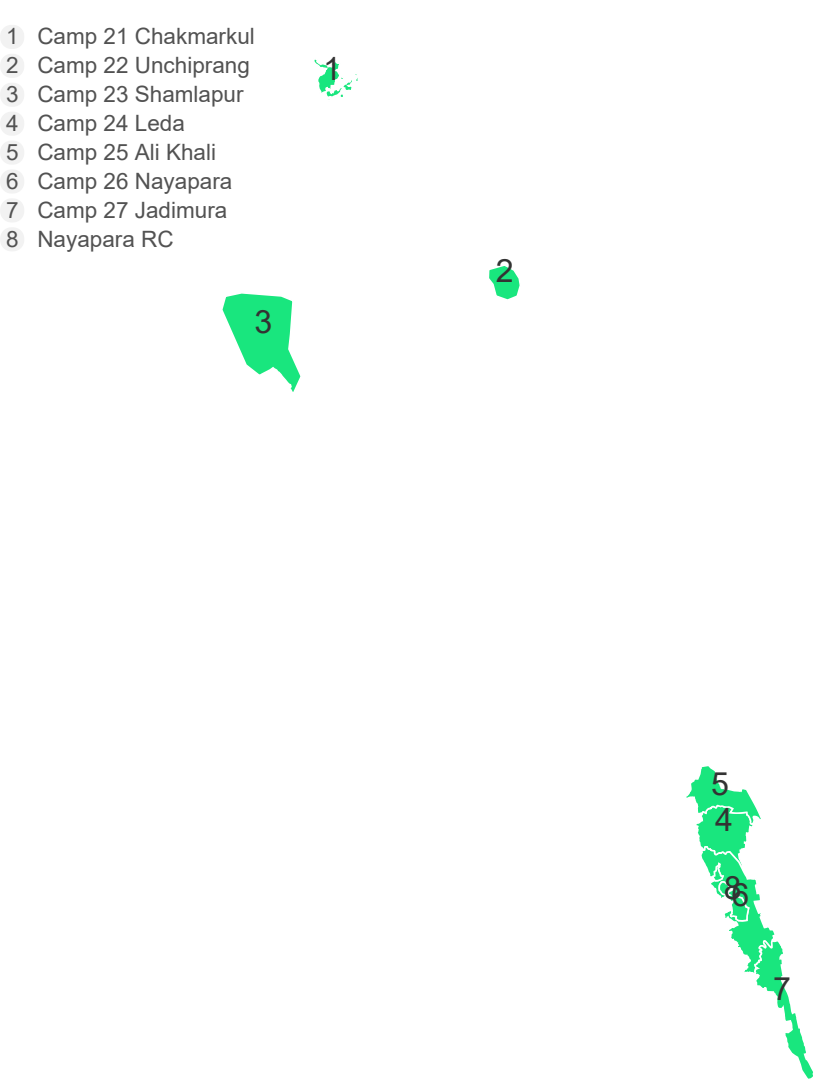
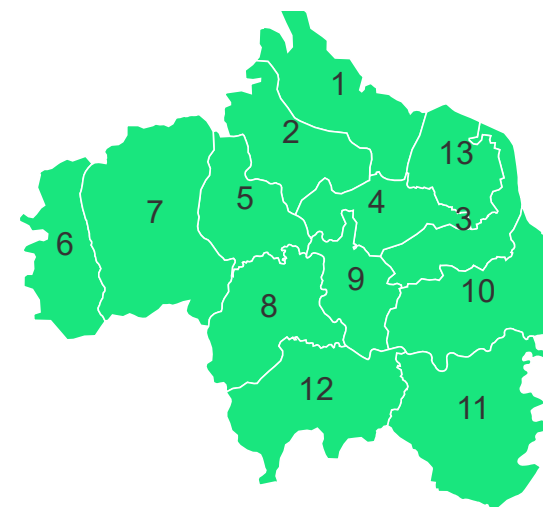


Table 4 | Performance by camp (W50 2021)

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	6	5	83%	83%
Camp 4 Ext	1	1	100%	100%
Camp 5	5	3	60%	60%
Camp 6	2	2	100%	100%
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



Completeness

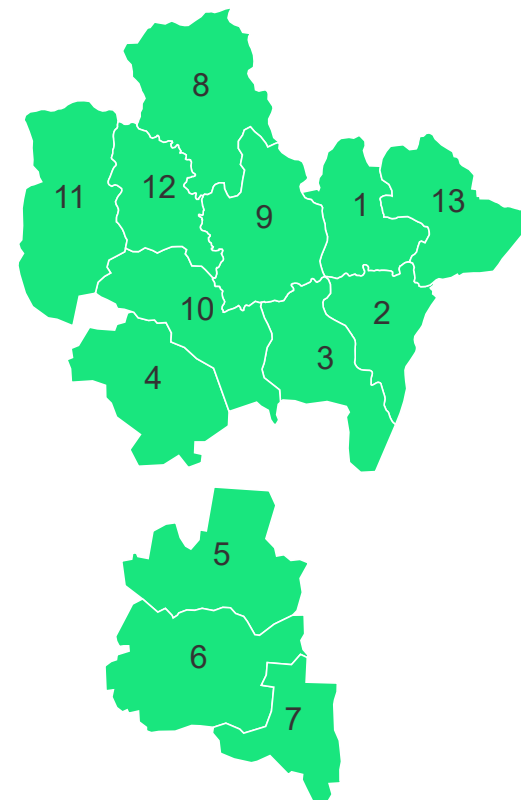


Table 5 | Performance by camp (W50 2021)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	3	75%	75%
Camp 11	8	7	88%	88%
Camp 12	6	6	100%	100%
Camp 13	10	9	90%	90%
Camp 14	7	7	100%	100%
Camp 15	9	8	89%	89%
Camp 16	7	7	100%	100%
Camp 17	5	2	40%	40%
Camp 18	5	3	60%	60%
Camp 19	5	5	100%	100%
Camp 20	3	3	100%	100%
Camp 20 Ext	3	2	67%	67%
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



Completeness

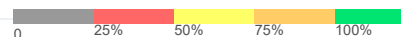


Table 6 | Performance by camp (W50 2021)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	4	3	75%	75%
Camp 22 Unchiprang	5	4	80%	80%
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	4	100%	100%
Camp 27 Jadimura	2	2	100%	100%
Nayapara RC	2	2	100%	100%

Map 4 | Completeness by camp

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

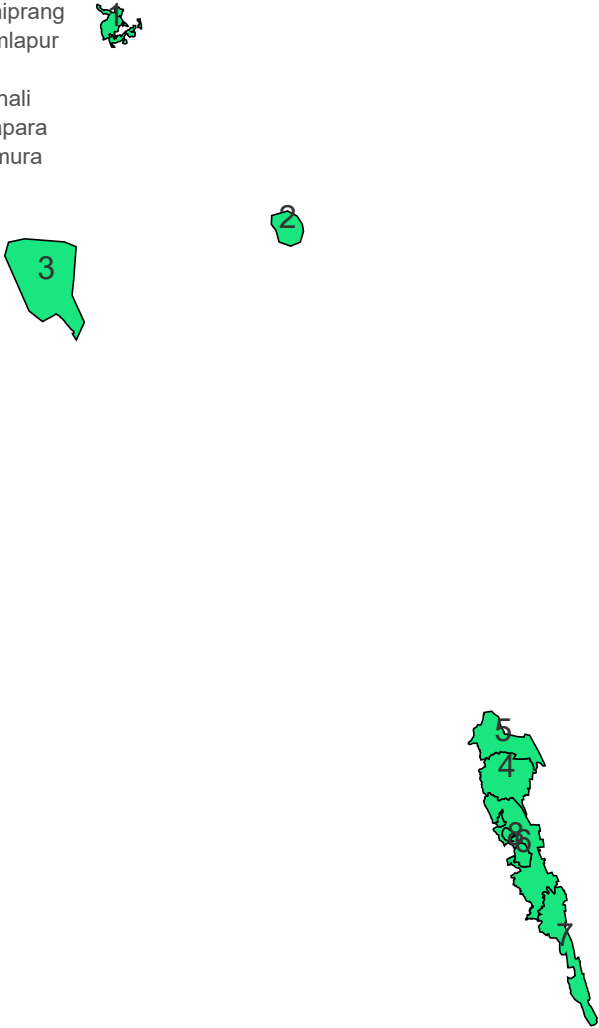


Table 7 | Performance by partner (W50 2021)

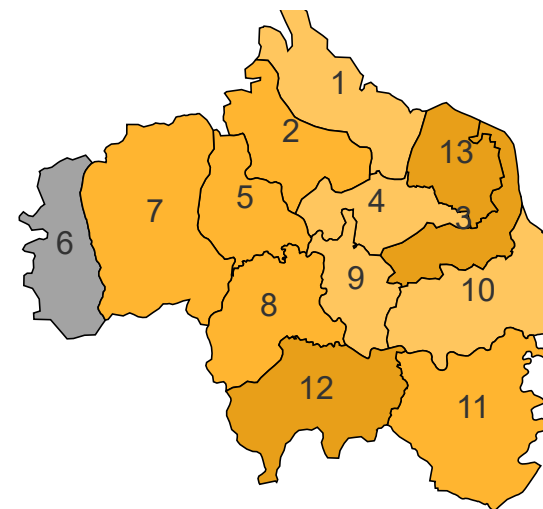
Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	1	0	0%	0%	IRC	2	2	100%	100%
AWARD	7	7	100%	100%	MSF	9	8	89%	89%
BASHMAH	1	1	100%	100%	MoH	19	14	74%	74%
BDRCS	11	10	91%	91%	MHI	0	0		
BRAC	11	11	100%	100%	Medair	2	2	100%	100%
CARE	4	4	100%	100%	FH/MTI	3	3	100%	100%
DAM	1	1	100%	100%	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	8	80%	80%
FRNDS	7	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	10	4	40%	40%
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	0	0%	0%	Turkish Government	1	1	100%	100%
ICRC	1	1	100%	100%	TdH	2	2	100%	100%
IOM	16	15	94%	94%					

Table 8 | Performance by camp

Northern group	W50		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	2	100%	93	100%
Camp 1W	4	100%	104	100%
Camp 2E	8	88%	362	99%
Camp 2W	2	100%	98	100%
Camp 3	4	100%	176	100%
Camp 4	3	100%	179	100%
Camp 4 Ext	0	0%	38	100%
Camp 5	3	100%	131	100%
Camp 6	2	100%	80	100%
Camp 7	1	100%	35	100%
Camp 8E	3	100%	62	100%
Camp 8W	6	100%	172	100%
Kutupalong RC	7	100%	52	100%

Map 5 | Number of alerts by camp

- 1 Camp 1E
- 2 Camp 1W
- 3 Camp 2E
- 4 Camp 2W
- 5 Camp 3
- 6 Camp 4 Ext
- 7 Camp 4
- 8 Camp 5
- 9 Camp 6
- 10 Camp 7
- 11 Camp 8E
- 12 Camp 8W
- 13 Kutupalong RC



of alerts

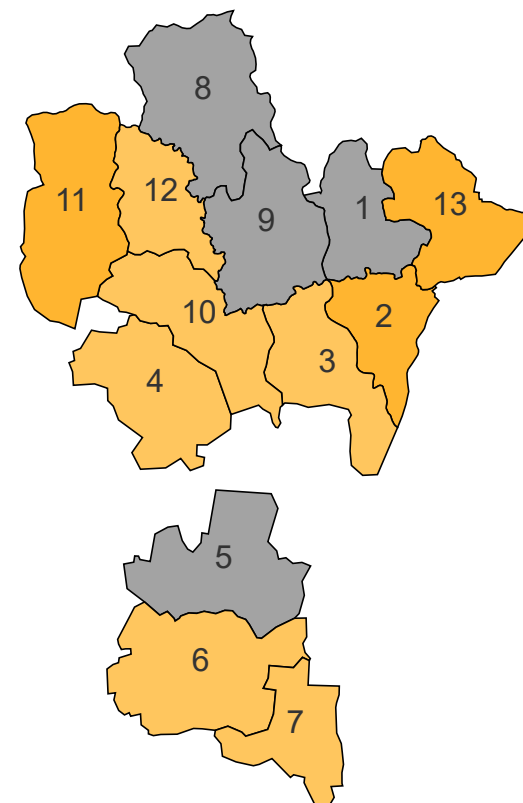


Table 9 | Performance by camp

Southern group	W50		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	0	0%	88	100%
Camp 11	4	100%	131	100%
Camp 12	1	100%	125	100%
Camp 13	2	100%	133	100%
Camp 14	0	0%	97	100%
Camp 15	2	100%	121	100%
Camp 16	1	100%	131	100%
Camp 17	0	0%	75	100%
Camp 18	0	0%	146	100%
Camp 19	1	100%	91	100%
Camp 20	2	100%	64	100%
Camp 20 Ext	3	100%	61	100%
Camp 9	4	100%	128	100%

Map 6 | Number of alerts by camp

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



of alerts

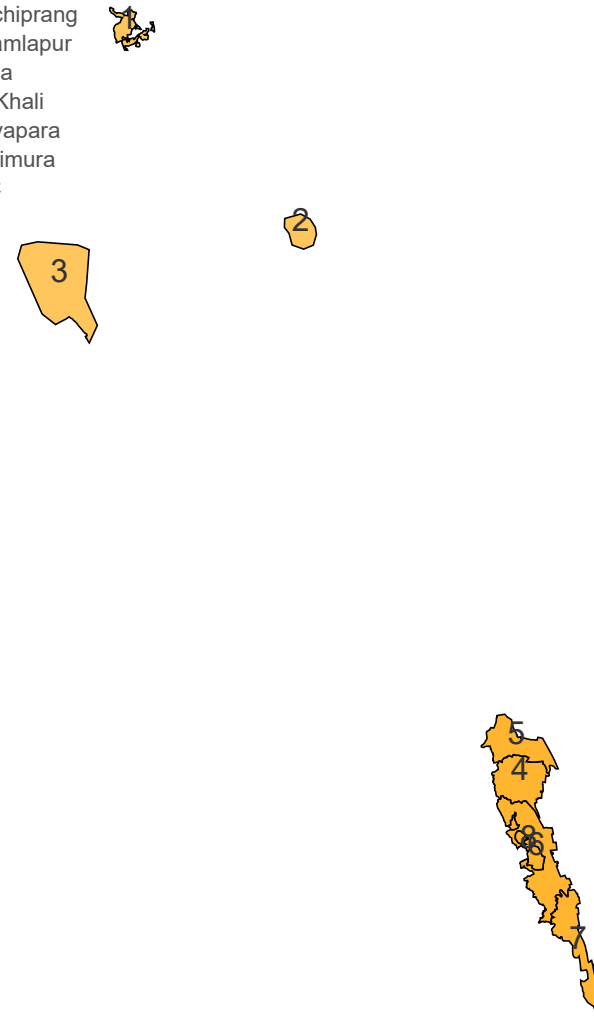


Table 10 | Performance by camp

Teknaf	W50		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	1	100%	33	100%
Camp 22 Unchiprang	2	100%	91	100%
Camp 23 Shamlapur	2	100%	30	100%
Camp 24 Leda	3	100%	74	100%
Camp 25 Ali Khali	4	100%	31	100%
Camp 26 Nayapara	3	100%	139	100%
Camp 27 Jadimura	3	100%	31	100%
Nayapara RC	3	100%	48	100%

Map 7 | Number of alerts by camp

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



of alerts



Table 11 | Performance by type of alert

Event	W50		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	5	100%
Measles	16	100%	410	100%
Bloody Diarr.	0	0%	0	0%
AFP	1	100%	22	100%
Meningitis	1	100%	36	100%
Haem. fever (susp.)	1	100%	15	100%
NNT	0	0%	4	100%
Unexp. fever	1	100%	177	100%
AWD	3	100%	293	100%
ARI	5	100%	333	100%
AJS	1	100%	53	100%
Varicella (Susp.)	0	0%	34	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	7	100%	253	100%

Table 12 | Risk assessment

W50	Cumulative (2021)	
0	20	Low risk
0	2	Moderate risk
0	1	High risk
0	0	Very high risk

For more help and support, please contact:

Dr. Sakia Haque
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World Health Organization
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Telephone: +88 017 0120 2994
Email: khan@who.int

Notes

WHO and the Ministry of Health and Family Welfare gratefully acknowledge all partners who have reported the data used in this bulletin.

The data been collected with support from the EWARS project. This is an initiative to strengthen early warning, alert and response in emergencies. It includes an online, desktop and mobile application that can be rapidly configured and deployed in the field. It is designed with frontline users in mind, and built to work in difficult and remote operating environments. This bulletin has been automatically published from the EWARS application.

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Ministry of
Health and
Family
Welfare
Bangladesh



World Health
Organization



HEALTH SECTOR
COX'S BAZAR



Global
EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W50 2021



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



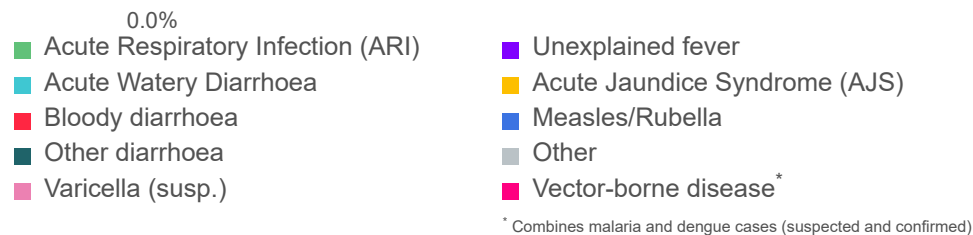
HEALTH SECTOR
COX'S BAZAR



Printed: 09:04 Tuesday, 21 December 2021 UTC

Proportional morbidity

Figure 1 | Proportional morbidity (W50 2021)



Disease	W50		2021	
	# cases	% morbidity	# cases	% morbidity
AWD	2,130	2.6%	146,279	3.4%
Bloody diarr.	394	0.5%	17,590	0.4%
Other diarr.	870	1.1%	47,781	1.1%
Susp. Varicella	22	0.0%	4,165	0.1%
ARI	14,993	18.1%	759,262	17.5%
Measles/Rub.	26	0.0%	662	0.0%
AFP	1	0.0%	22	0.0%
Susp. menin.	2	0.0%	133	0.0%
AJS	10	0.0%	572	0.0%
Susp. HF	5	0.0%	25	0.0%
Neo. tetanus	0	0.0%	2	0.0%
Adult tetanus	0	0.0%	4	0.0%
Malaria (conf.)	0	0.0%	27	0.0%
Malaria (susp.)	1,750	2.1%	48,143	1.1%
Dengue (conf.)	228	0.3%	1,638	0.0%
Dengue (susp.)	89	0.1%	1,501	0.0%
Unexpl. fever	1,459	1.8%	50,724	1.2%
Sev. Malnut.	28	0.0%	1,956	0.0%
Inj./Wounds	1,841	2.2%	112,031	2.6%
Other	58,578	70.9%	3,138,474	72.4%
Total	81,200	100%	4,334,252	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W50)

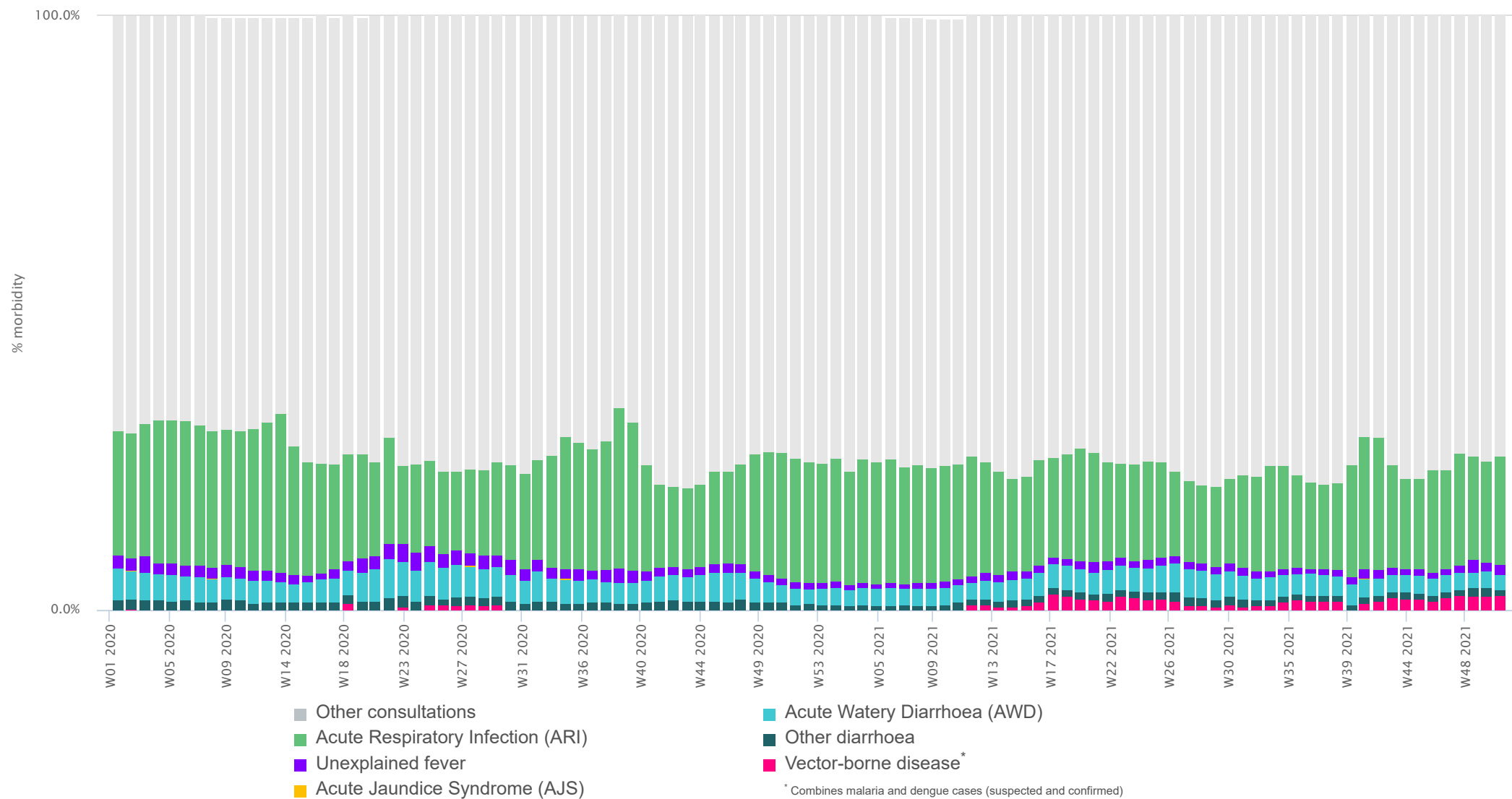
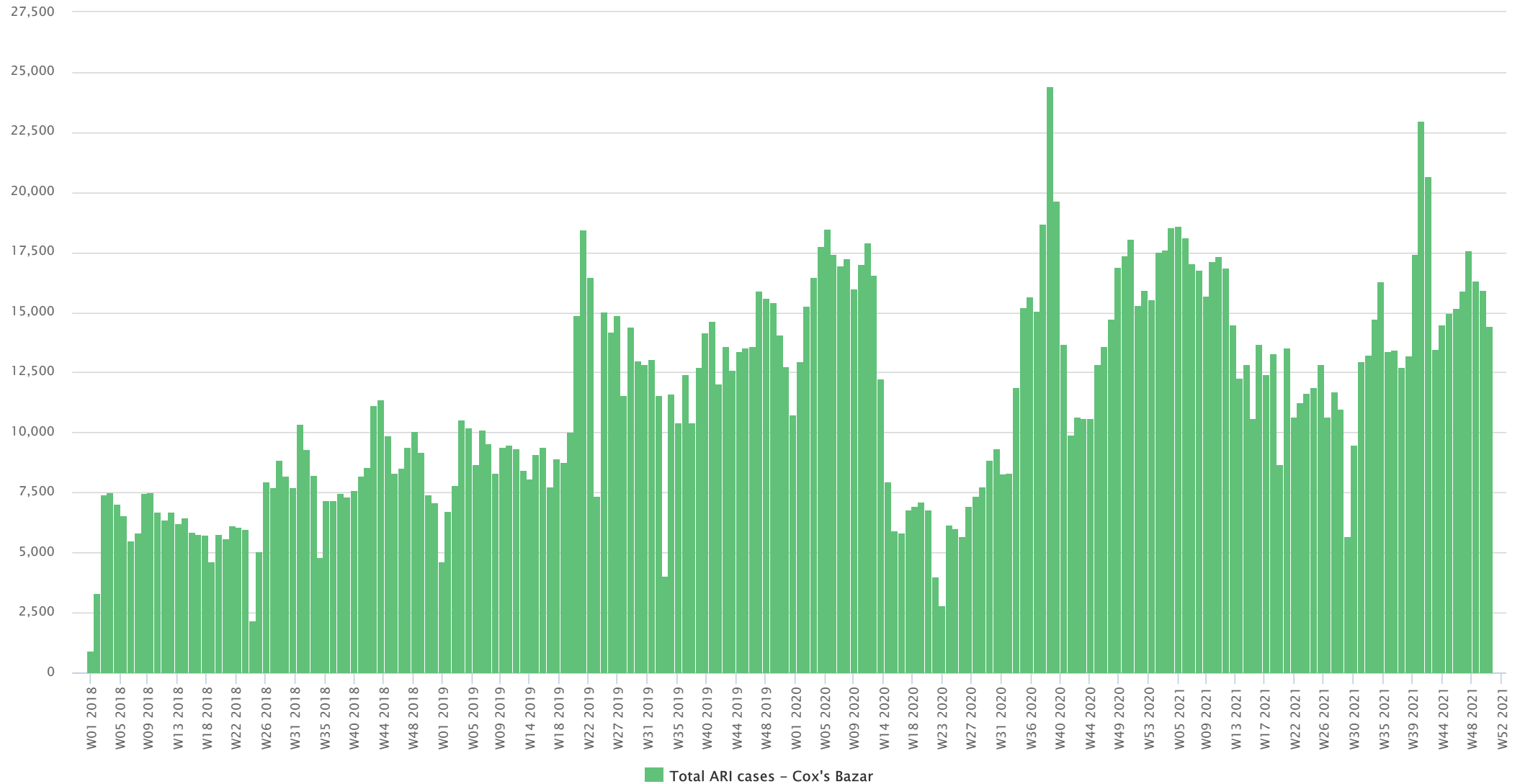


Figure 3 | Trend in number of cases over time (W38 2017 - W50 2021)



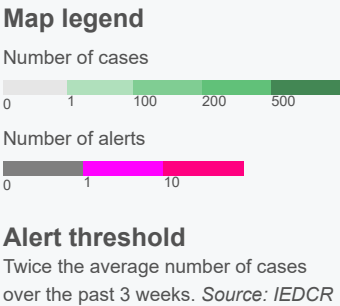
Map 1 | Map of cases by camp (W50 2021)

a. Ukhia | Number of cases
Loading...

b. Ukhia | Number of alerts
Loading...

c. Teknaf | Number of cases
Loading...

d. Teknaf | Number of alerts
Loading...



Alert management (W50 2021)

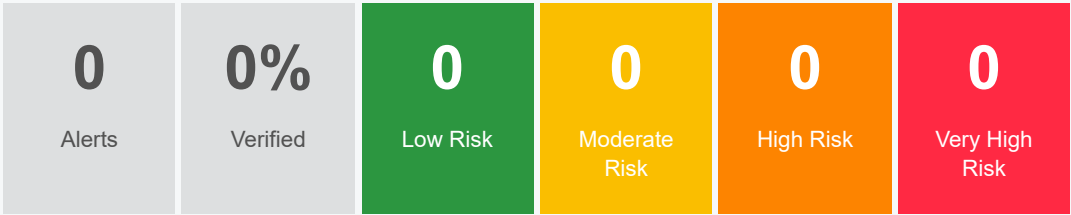


Figure | % sex

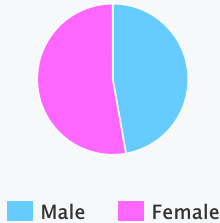


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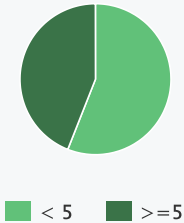
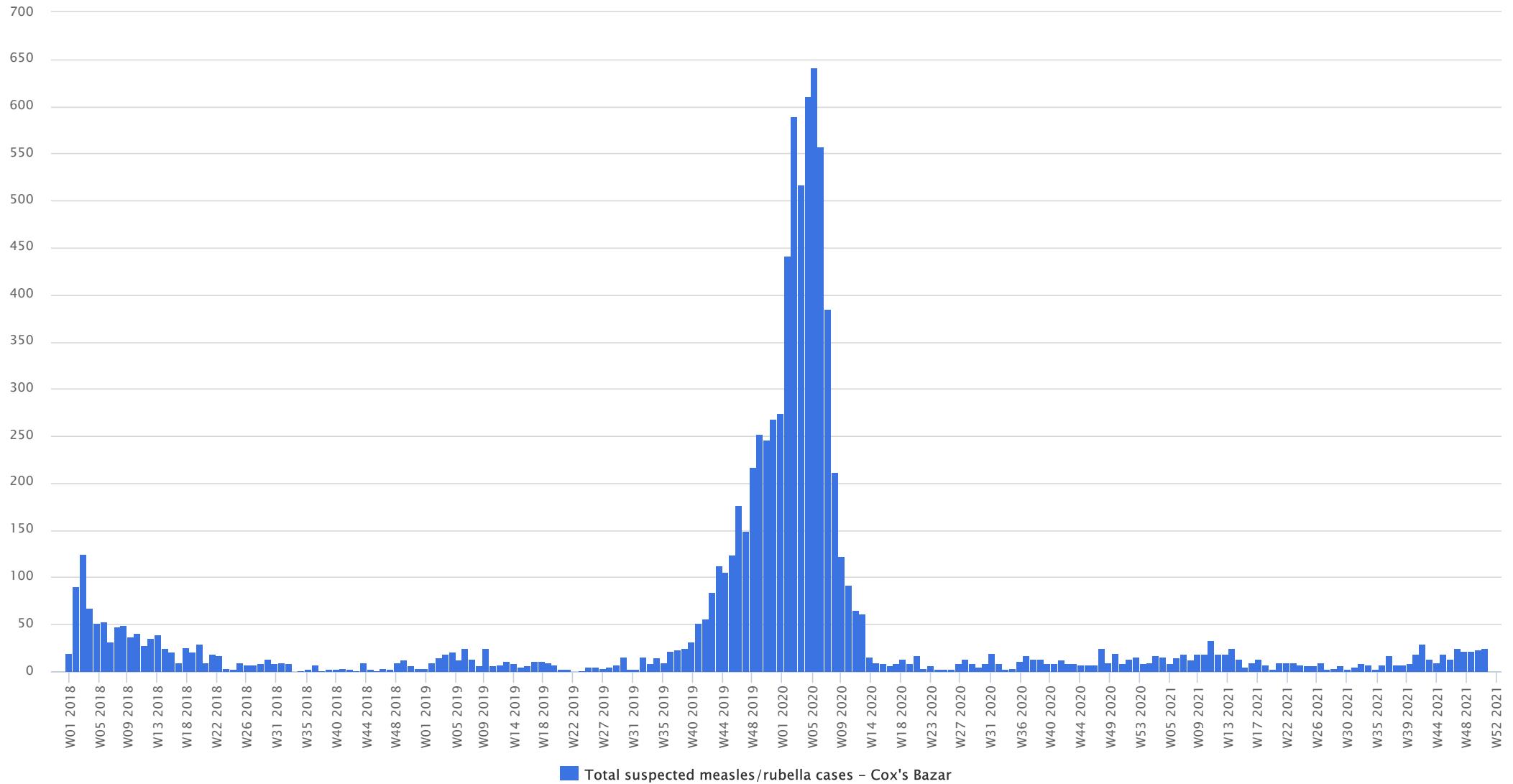


Figure 4 | Trend in number of suspected cases over time (W38 2017 - W50 2021)



Map 2 | Map of cases by camp (W50 2021)

a. Ukhia | Number of cases
Loading...

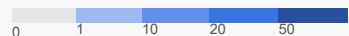
b. Ukhia | Number of alerts
Loading...

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 (W50 2021)

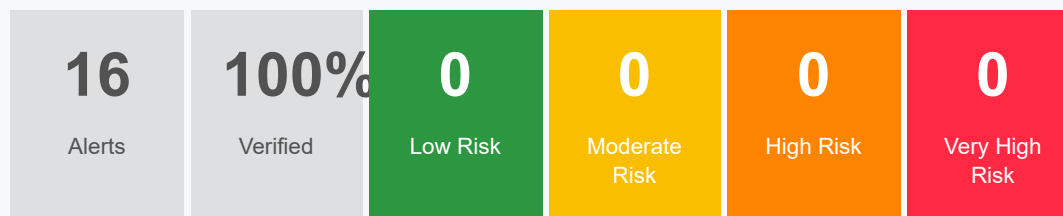
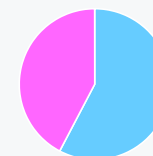
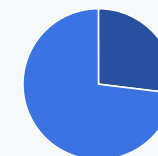


Figure | % sex



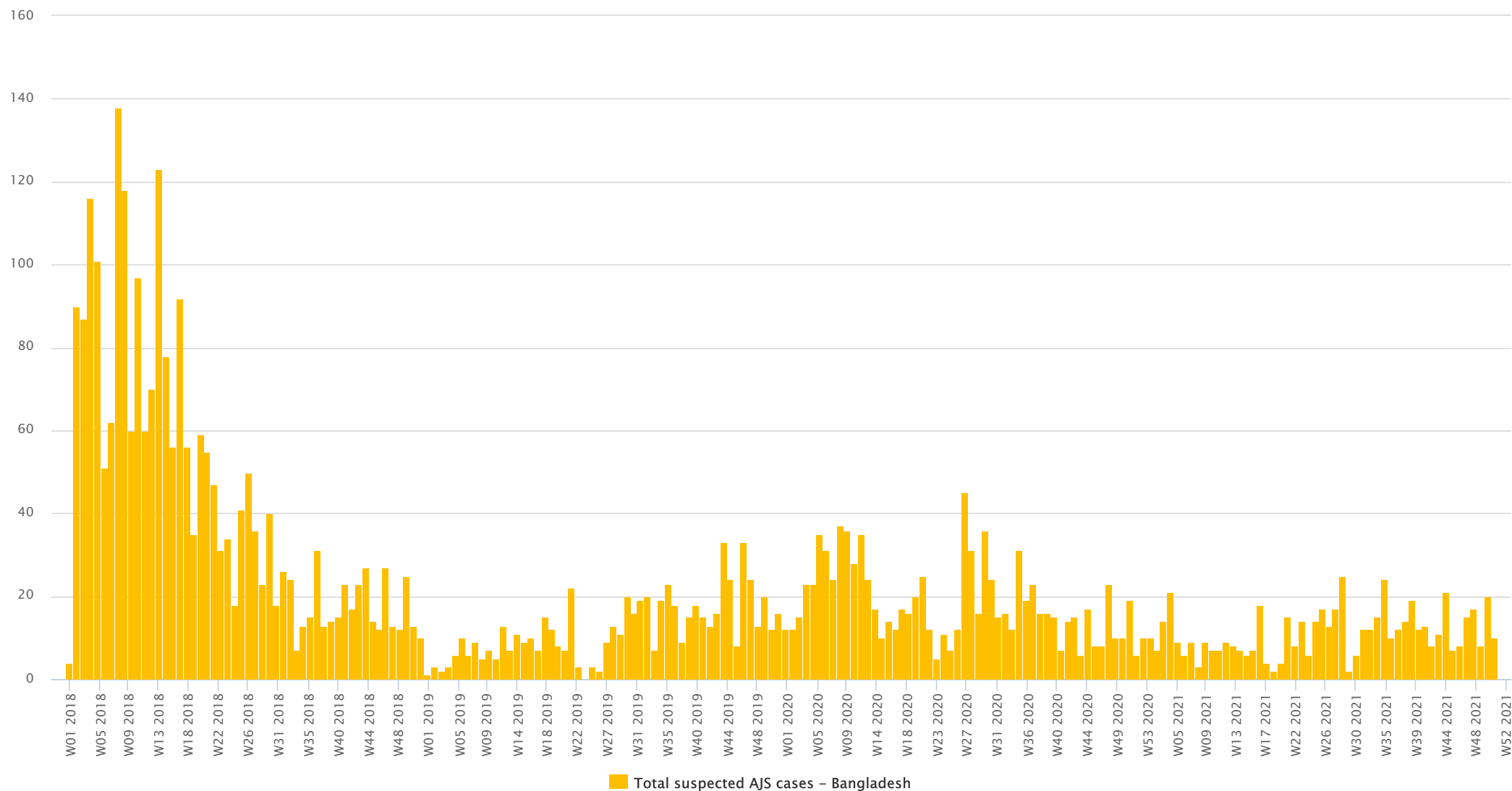
Male Female

Figure | % age



>= 5 < 5

Figure 5 | Trend in number of cases over time (W38 2017 - W50 2021)



Map 3 | Map of cases by camp (W37 2017 - W50 2021)

- a. Ukhia | Number of cases

Loading...
- b. Ukhia | Number of alerts

Loading...
- c. Teknaf | Number of cases

Loading...
- d. Teknaf | Number of alerts

Loading...

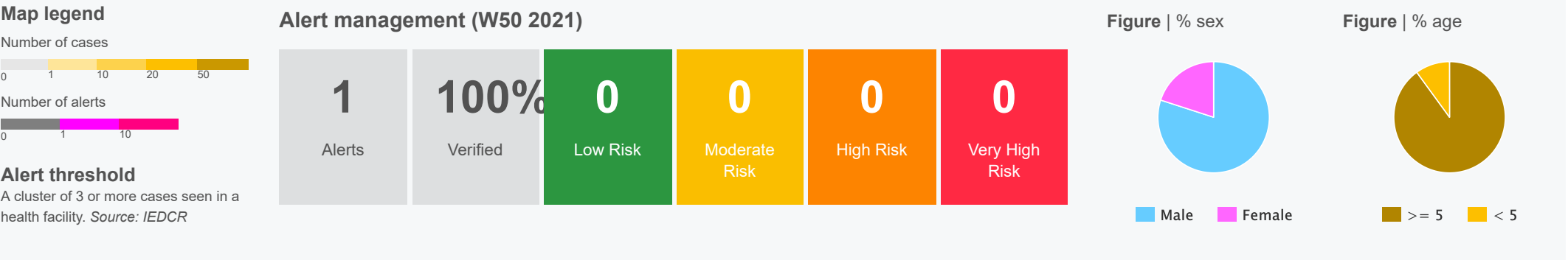


Figure 6 | Trend in number of cases over time (W38 2017 - W50 2021)

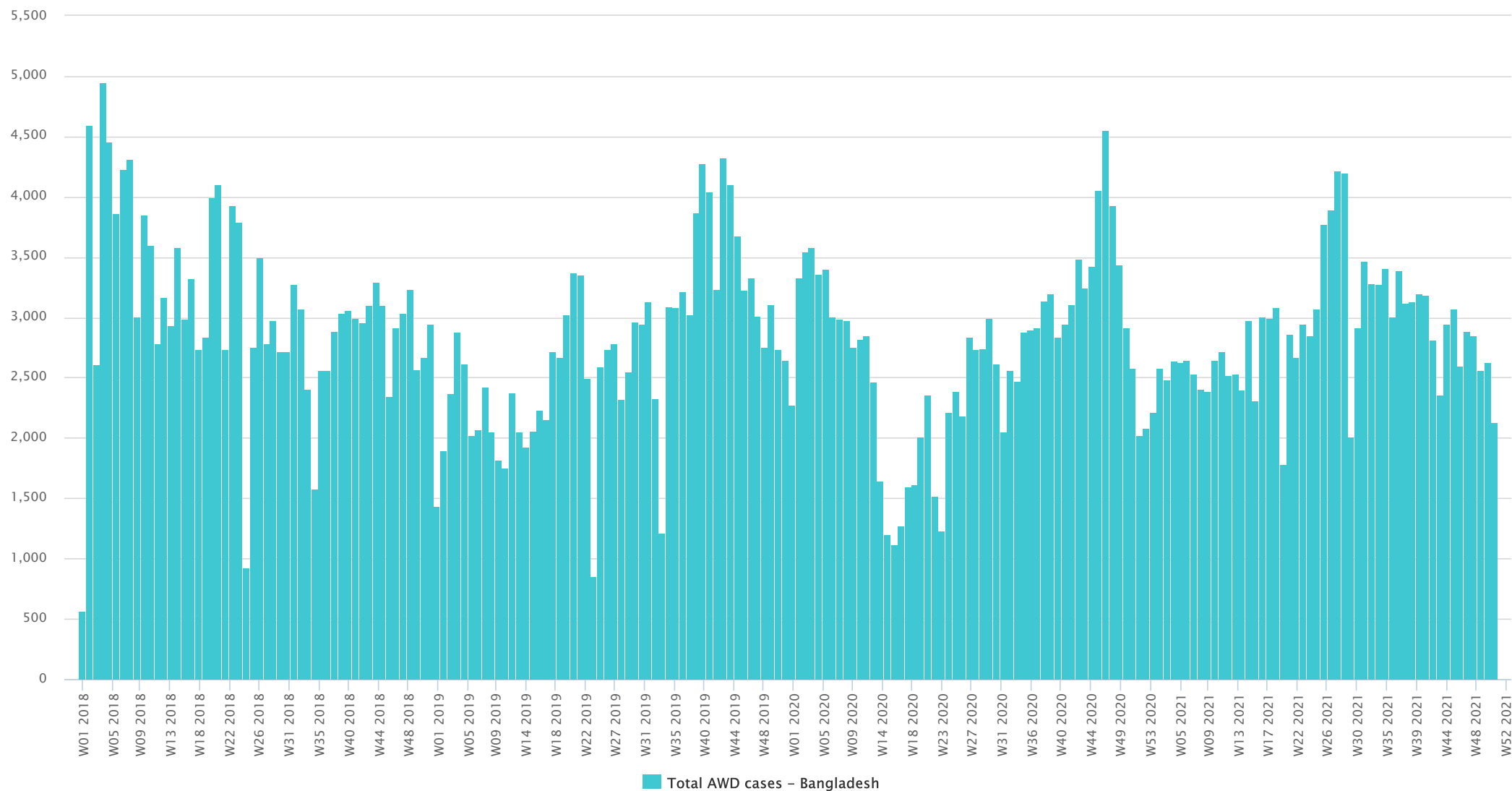
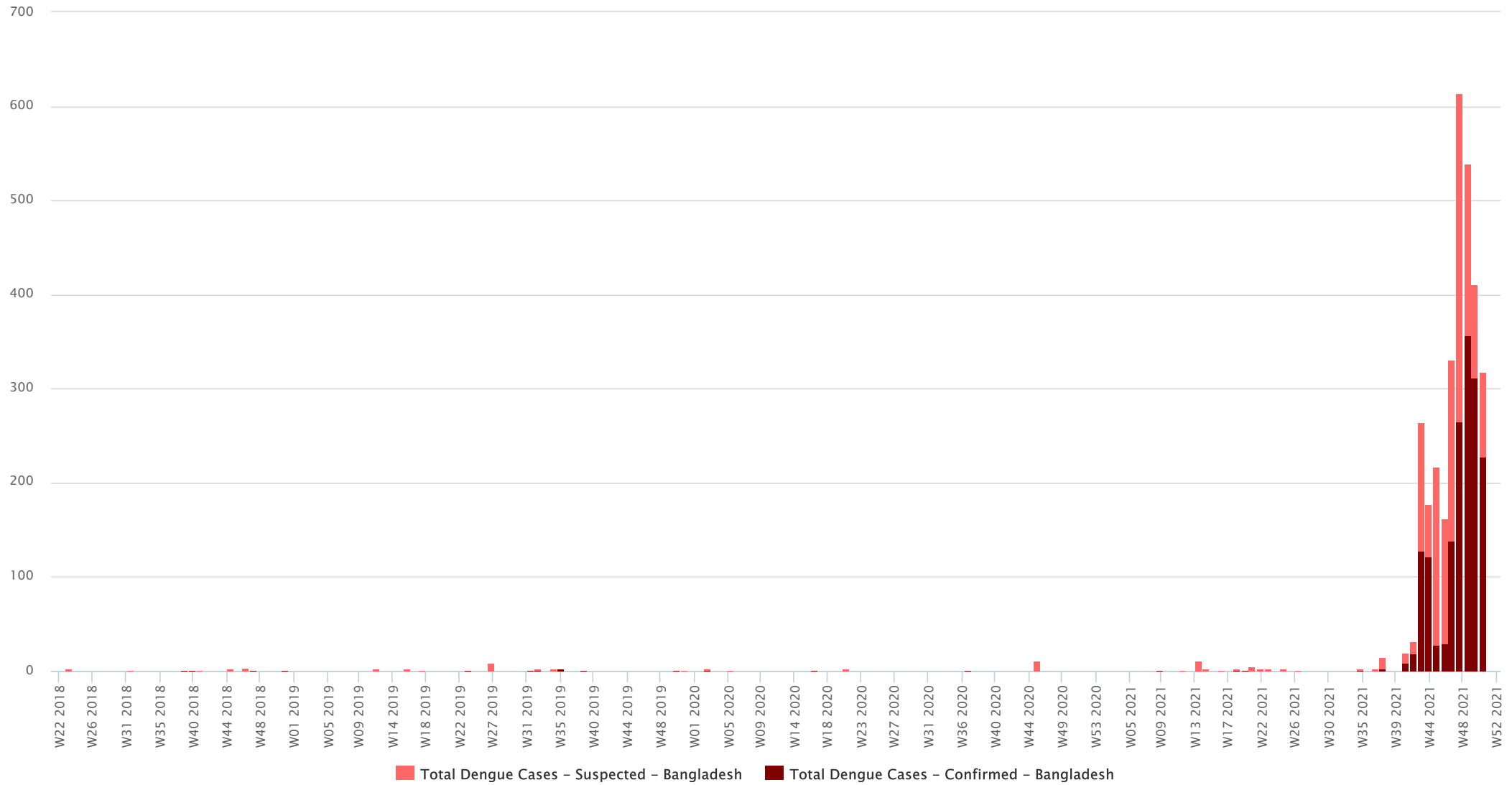


Figure 7 | Trend in number of cases over time (W38 2017 - W50 2021)



Map 4 | Map of cases by camp (W37 2017 - W50 2021)

a. Ukhia | Number of cases
Loading...

b. Ukhia | Number of alerts
Loading...

c. Teknaf | Number of cases
Loading...

d. Teknaf | Number of alerts
Loading...

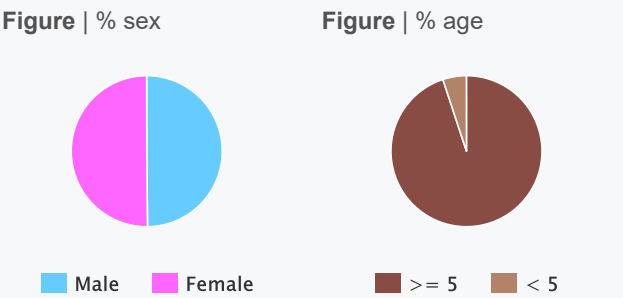
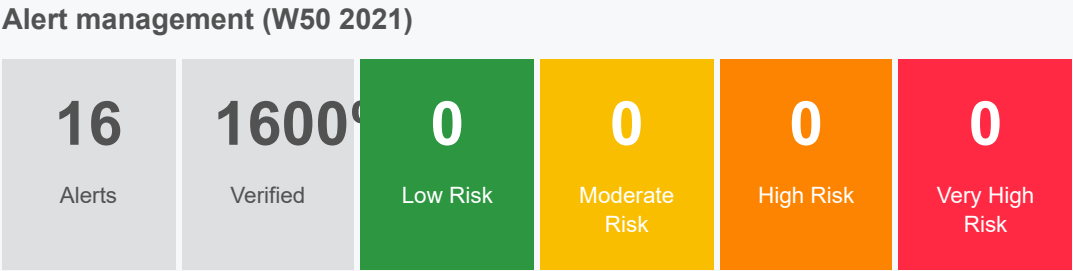
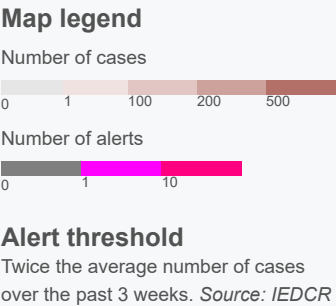
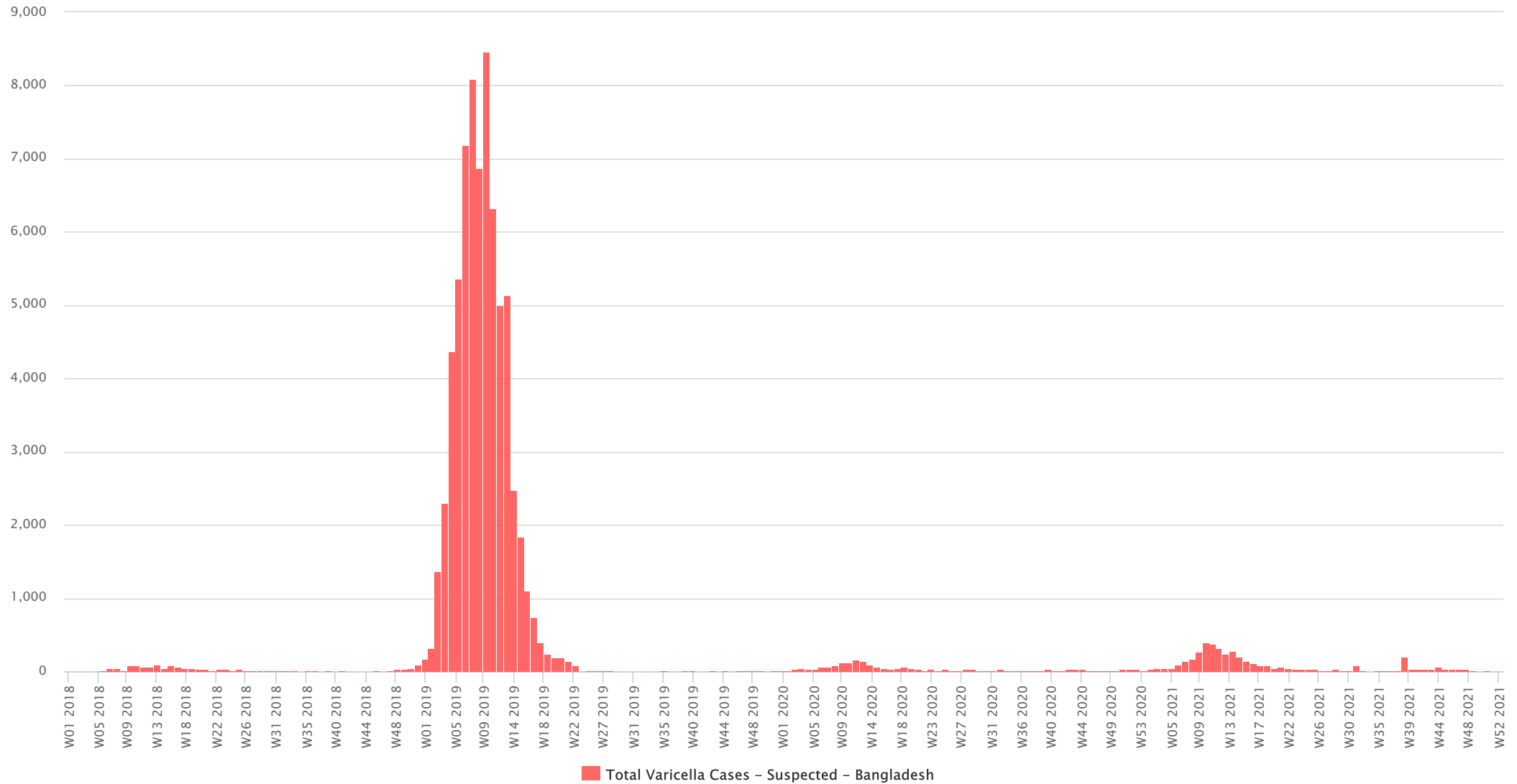


Figure 7 | Trend in number of cases over time (W38 2017 - W50 2021)



Map 4 | Map of cases by camp (W37 2017 - W50 2021)

a. Ukhia | Number of cases

Loading...

c. Teknaf | Number of cases

Loading...

Map legend

Number of cases

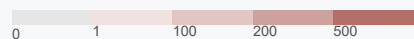
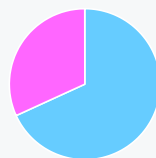
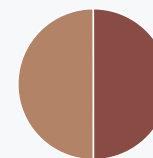


Figure | % sex



Male Female

Figure | % age



≥ 5 < 5

For more help and support, please contact:

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Notes

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