



Epidemiological Highlights

Week 23 (7-13 June 2021)



**World Health
Organization**

Highlights: COVID-19

As of week 23, (7-13 June 2021) there are 1 460 confirmed cases of COVID-19 (SARS-CoV-2), 45 787 samples were tested, total positivity rate 3.2%.

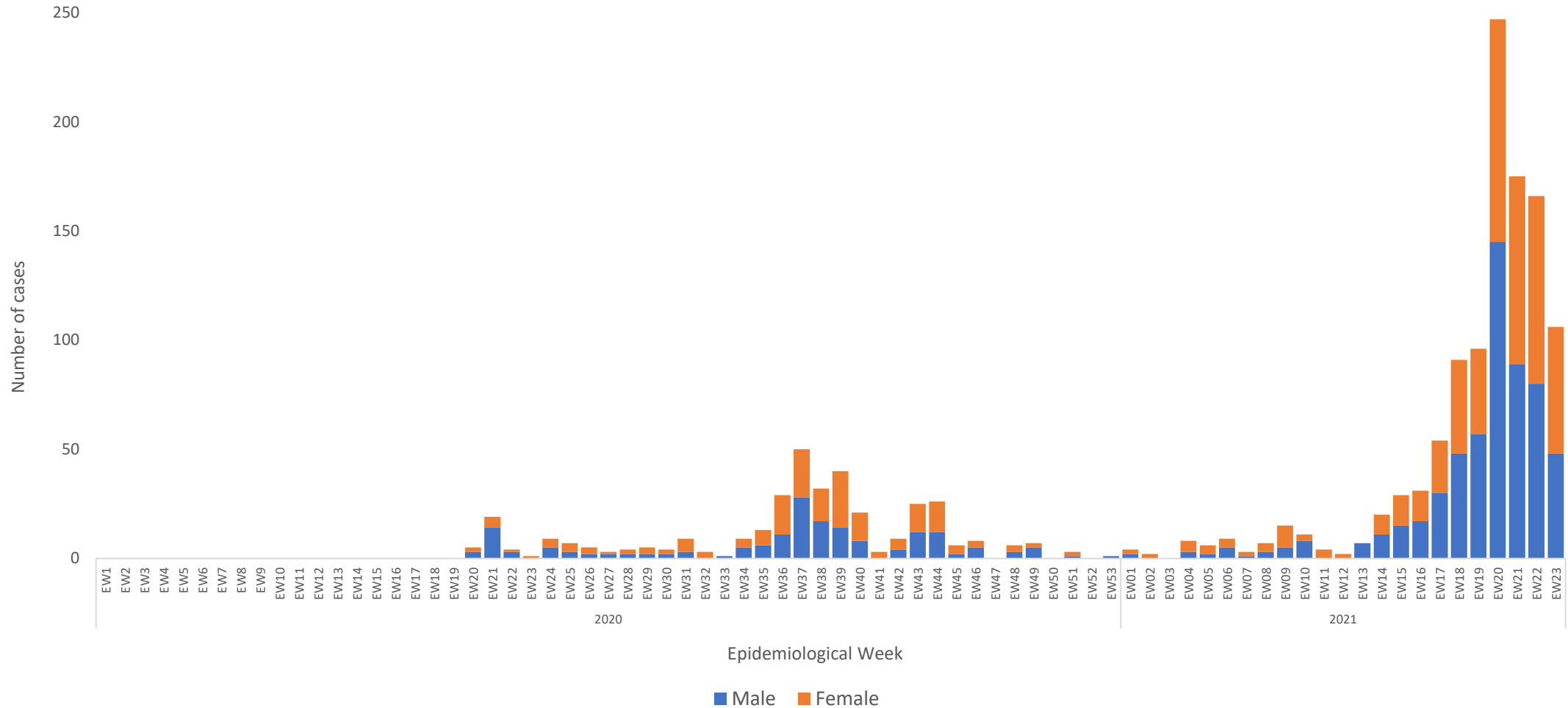
This week (week 23), 106 new confirmed cases detected, 1 044 samples were tested, test positivity was 10.2%.

As of this week (week 23)

- Median age of tested and confirmed cases is 11 (0-120) and 22 (0-100) years
- Female among tested and confirmed cases is 54% and 49%
- All 34/34 camps have confirmed cases (C2W-114, C3 & C24-102, C4-99, C15-96)
- A total of 19 deaths from COVID-19 with the case fatality rate 1.3%
- Cases per million in last 7 days 123.3, change in last 7 days -36%

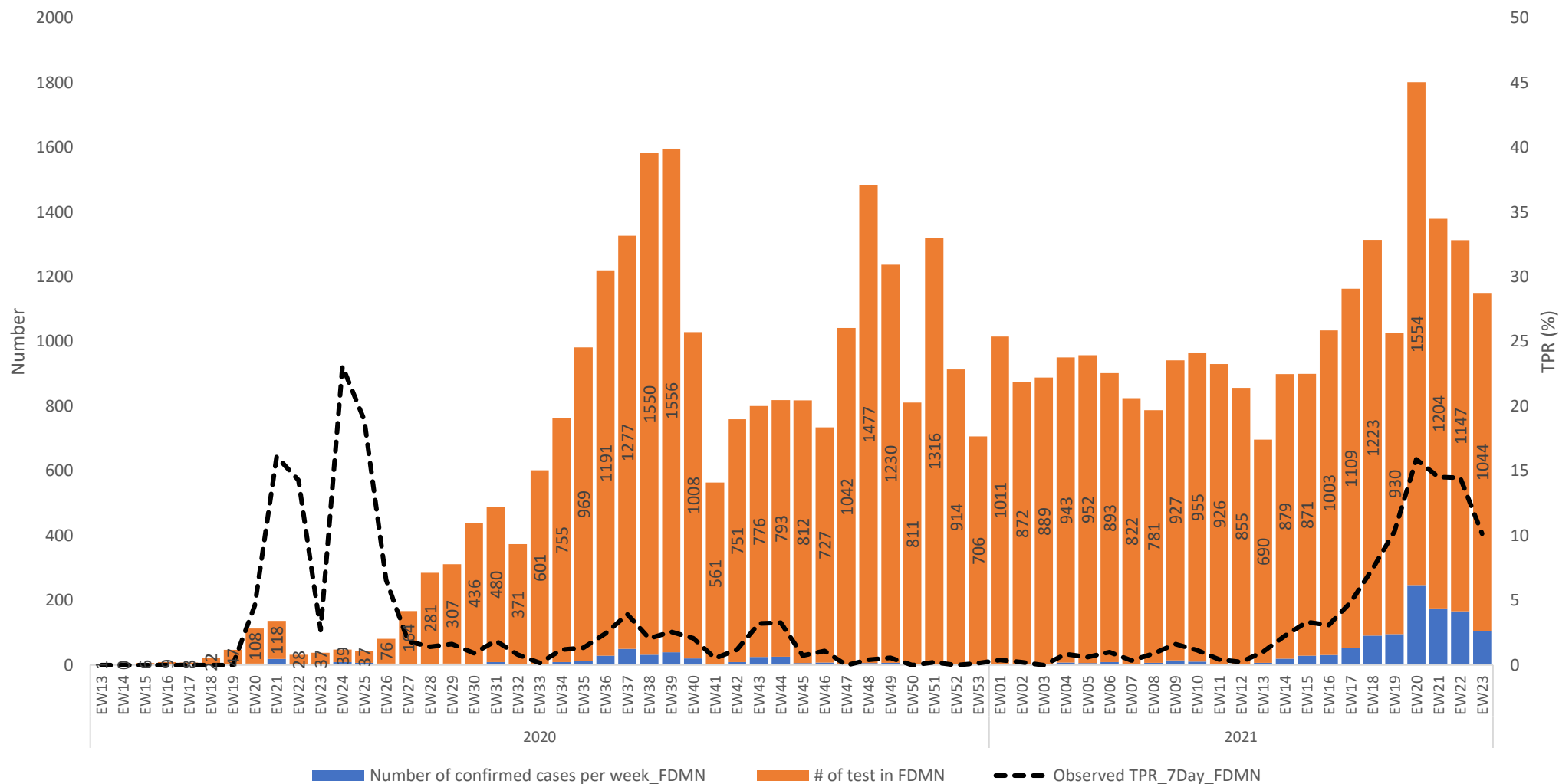
Highlights: COVID-19

COVID-19 positive cases (n=1,460) by week of test



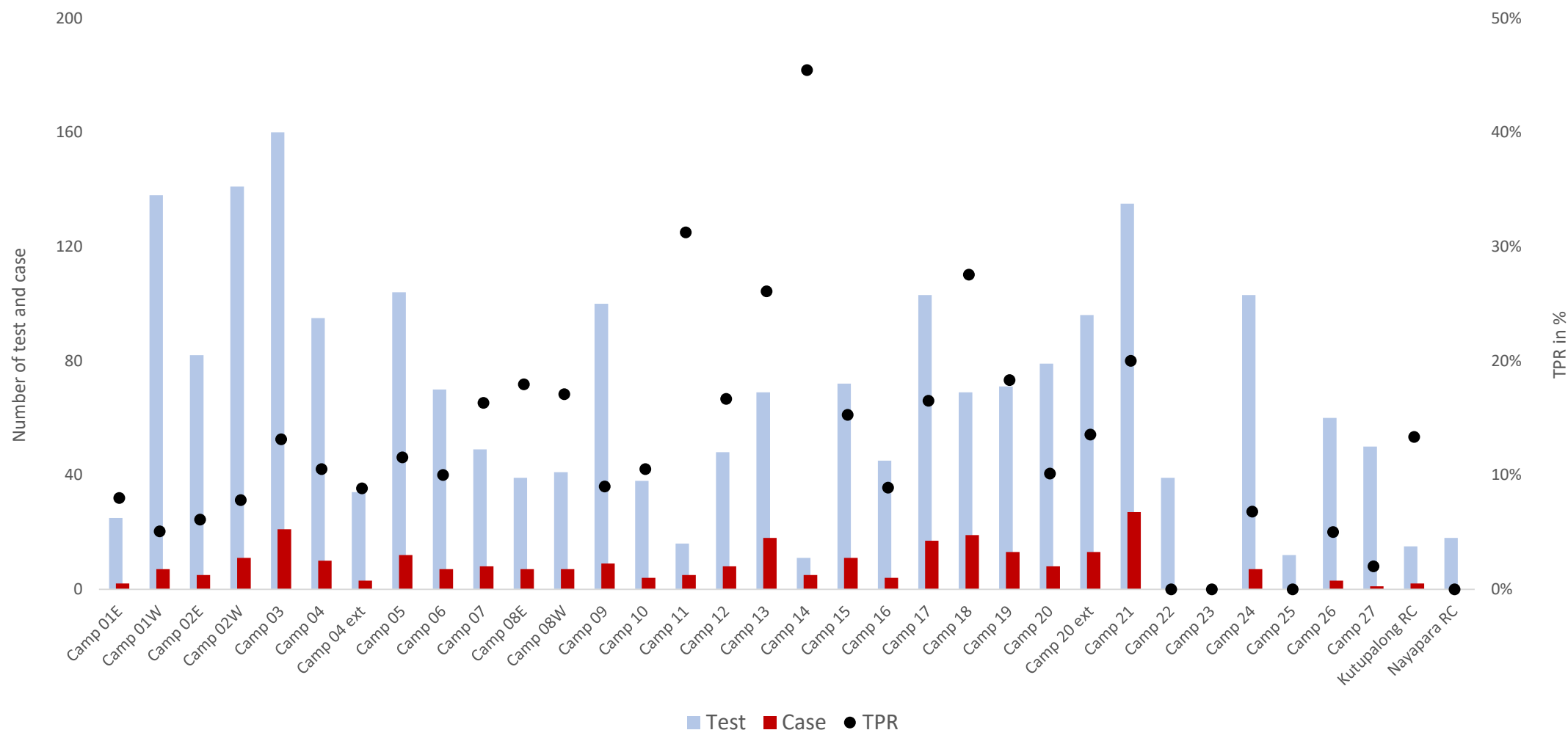
Highlights: COVID-19

Weekly observed TPR by week



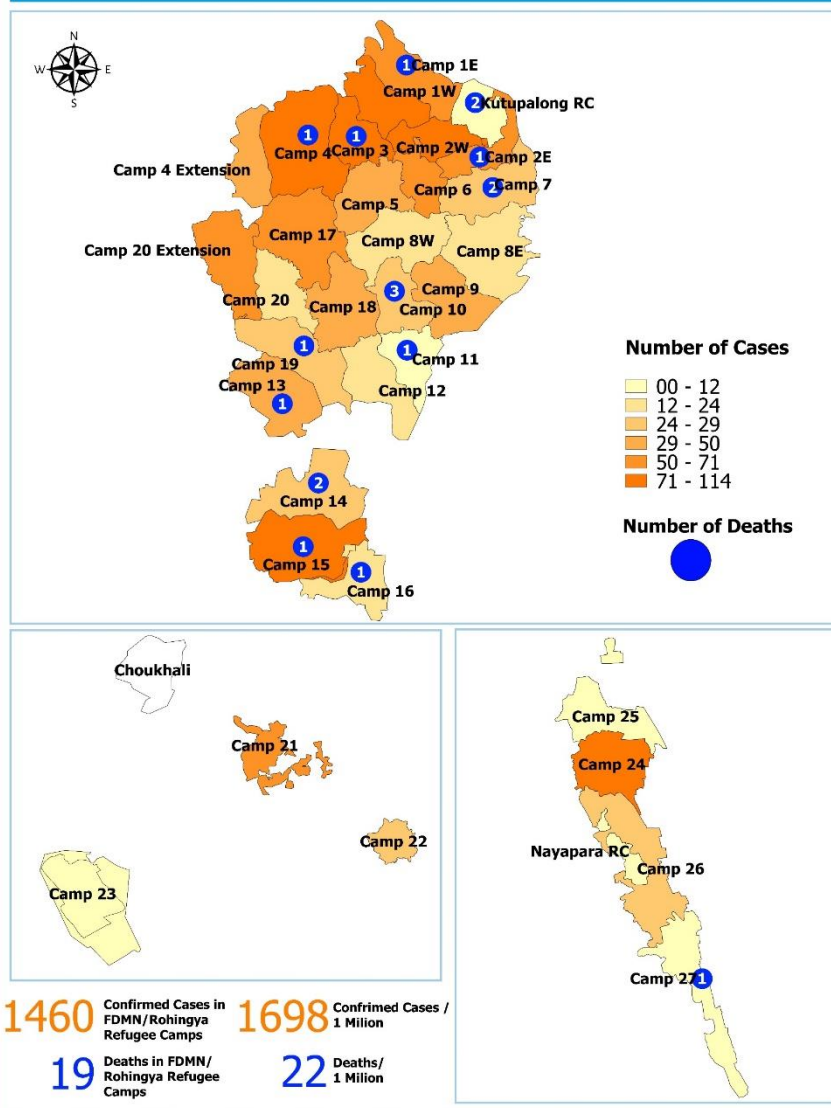
Highlights: COVID-19

COVID-19 test case and TPR per camp, W22-23

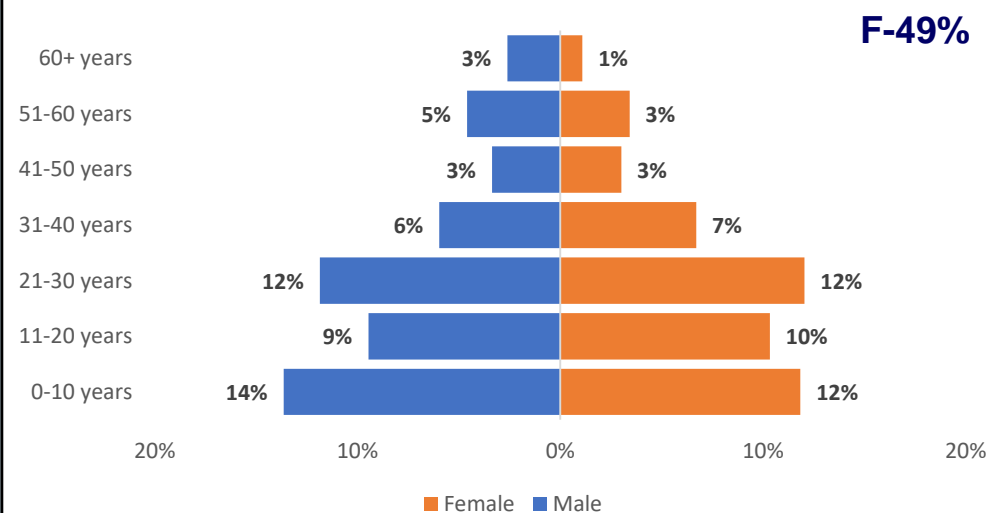


Highlights: COVID-19

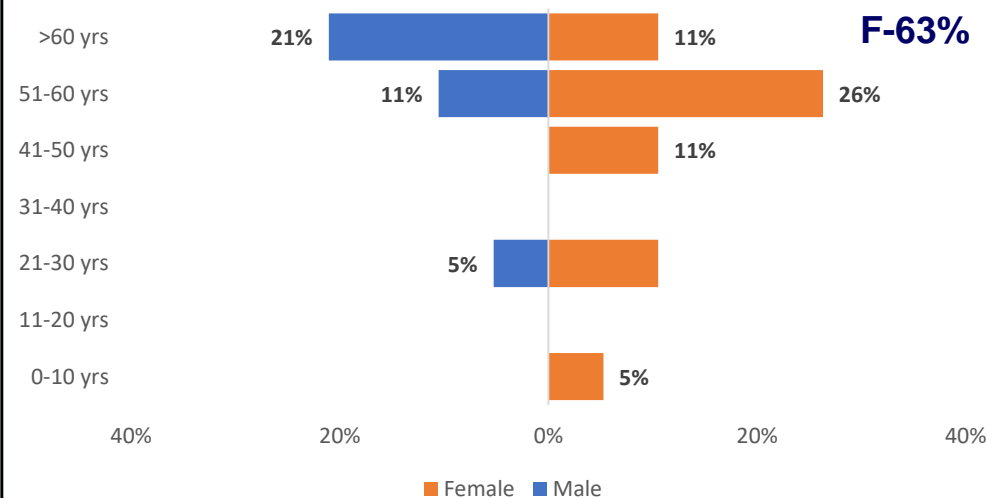
COVID-19 Cases and Deaths in Rohingya Camps (as of 13 June 2021)



Age and sex distribution (%) (n=1,460)

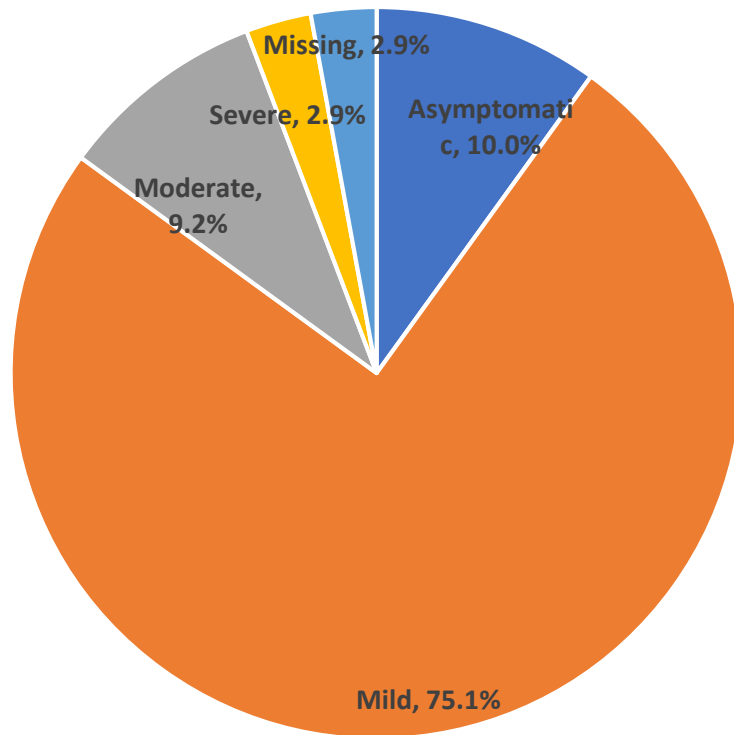


Death reported by age and sex (%) (n=19)

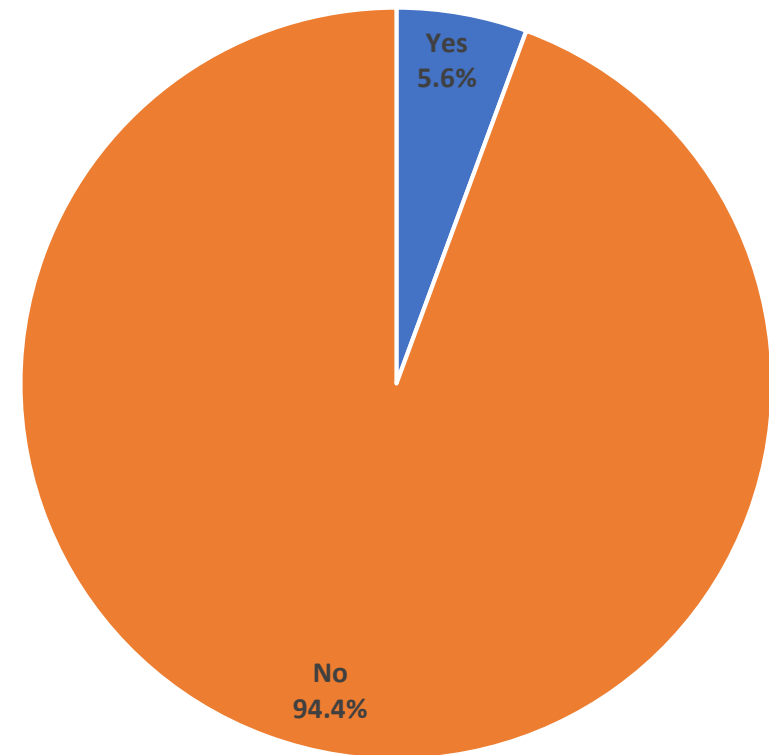


Highlights: COVID-19

Severity of reported cases at presentation (n=1,175)



Did the case report at least 1 co-morbidity (n=1,175)



Source: Go.Data

Highlights: COVID-19 Contact Tracing

- Total 1,175 (out of 1,460) confirmed cases have been investigated by Rapid Investigation and Response Team *(RIRT, a camp wise 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 CT supervisors with 2,669 contacts registered for follow up in the Go.Data.
- 1,952 (73.1%) contacts successfully completed the follow up.
- One hundred thirteen (5.7%) contacts became tested positive for COVID-19 during the incubation period.

EWARS Reporting Updates

- Total 172 health facilities registered in EWARS
- Only 138/172 weekly reports received on time in week 23
- Seventy-seven (77) alerts were triggered in week 23
- Timeliness of reporting for this week is 80%
- All alerts were reviewed and verified by WHO EWARS team, the number is more than that of previous week (60 in week 22).

Highlights:

- Acute Respiratory Infection (16.2%), Diarrheal Diseases (5.4%) & Unexplained Fever (0.9%) are the diseases with highest proportional morbidity in week 23.
- Suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020.
 - Eighty-eight (88) suspected SARI deaths have been reported so far and reviewed subsequently by Rapid Investigation and Response Team (RIRT) for COVID-19.
 - Total eleven (11) SARI deaths were considered as death due to probable COVID-19 till date.

Diphtheria

One (1) suspected diphtheria case was reported in go.data in week 23

A total of 9 276 case-patients were reported since 2017 to till date

- Confirmed = 343
- Probable = 2 803
- Suspected = 6 130

Total case reported in 2021 = 90

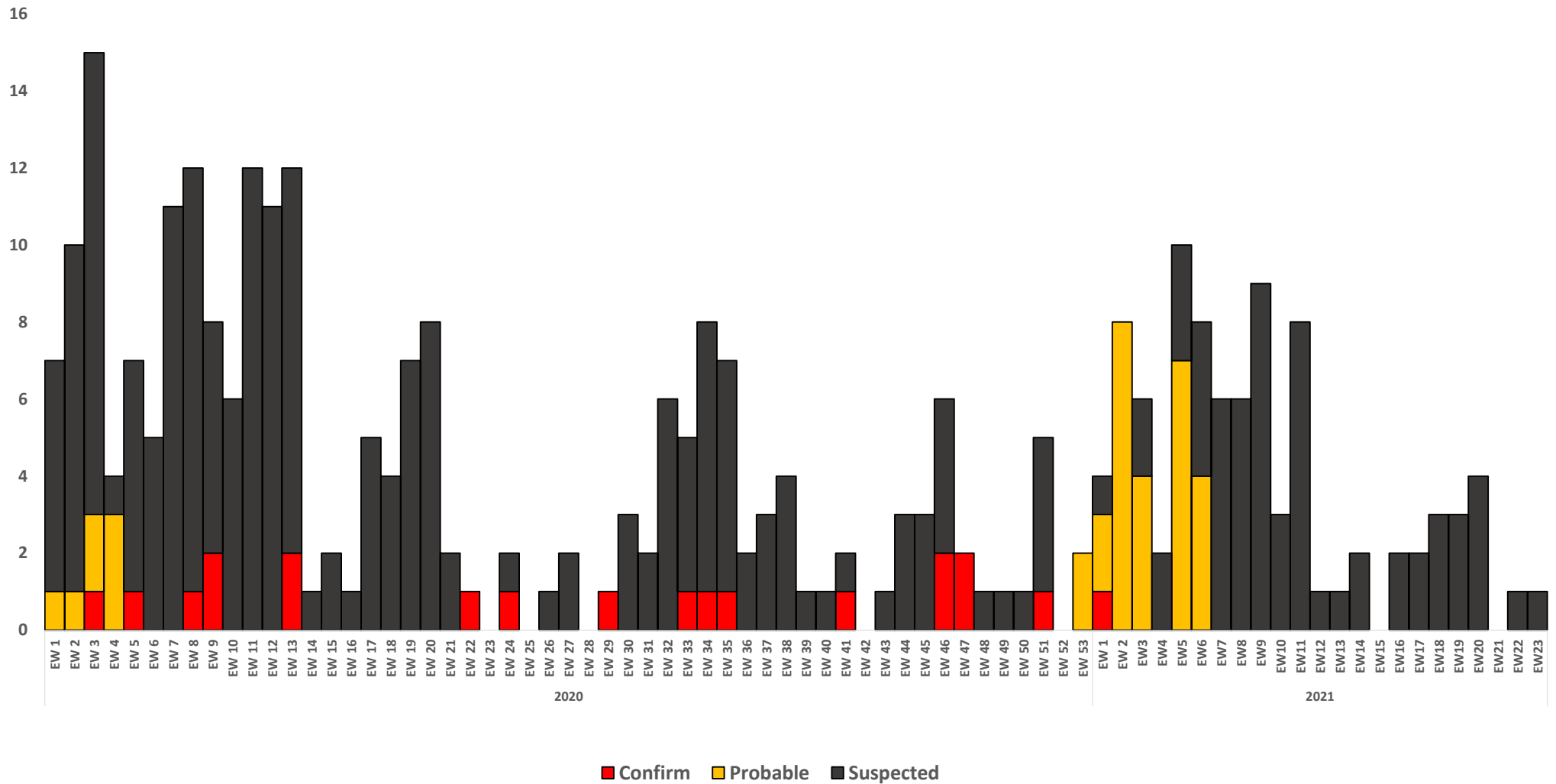
- Confirmed = 1
- Probable = 25
- Suspected = 64

Last confirmed case was reported in week 1 (4 January 2021)

In total 47 deaths were reported, last death reported on 25 October 2019.

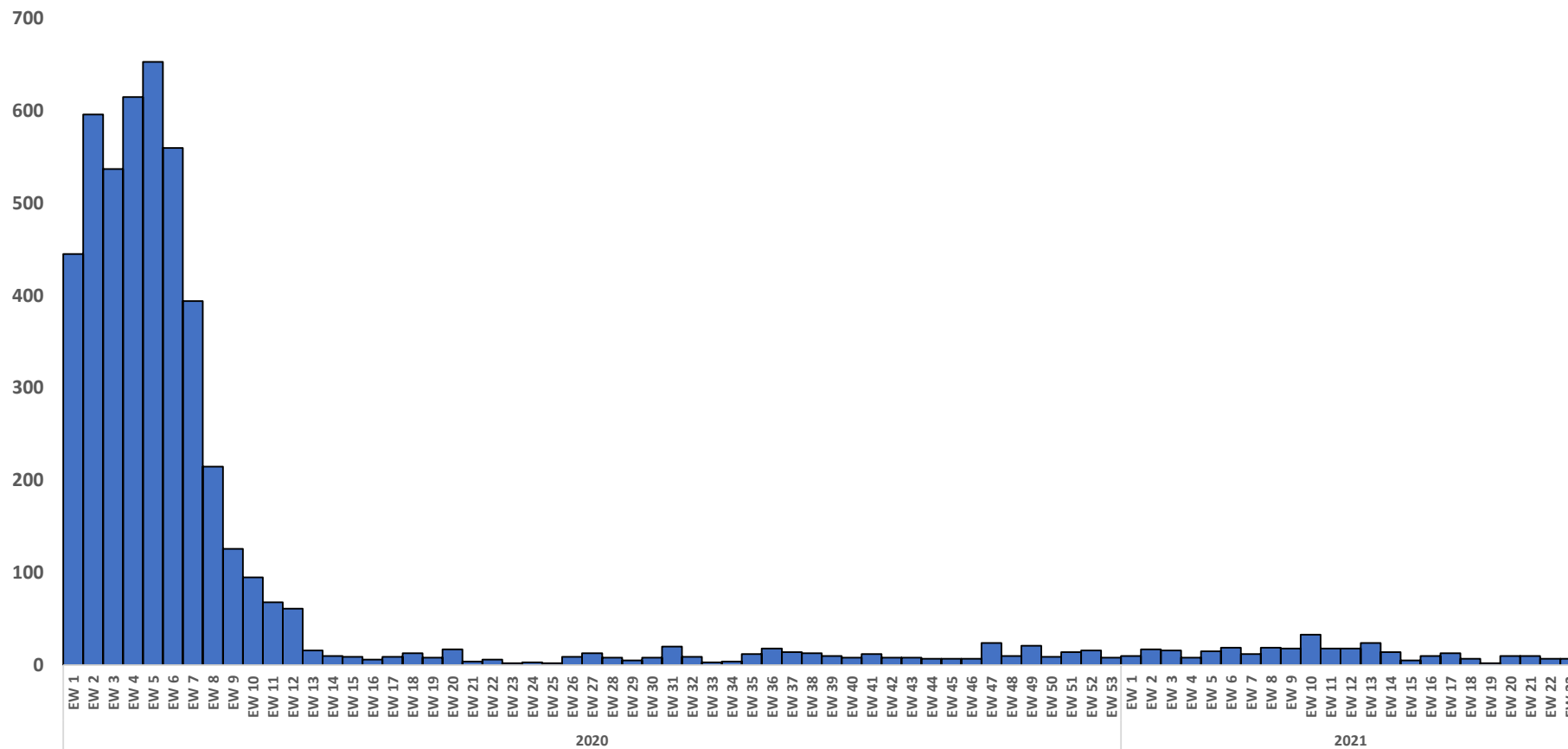
Diphtheria

Total number of diphtheria case reported in EWARS from 2020-2021 W23



Measles

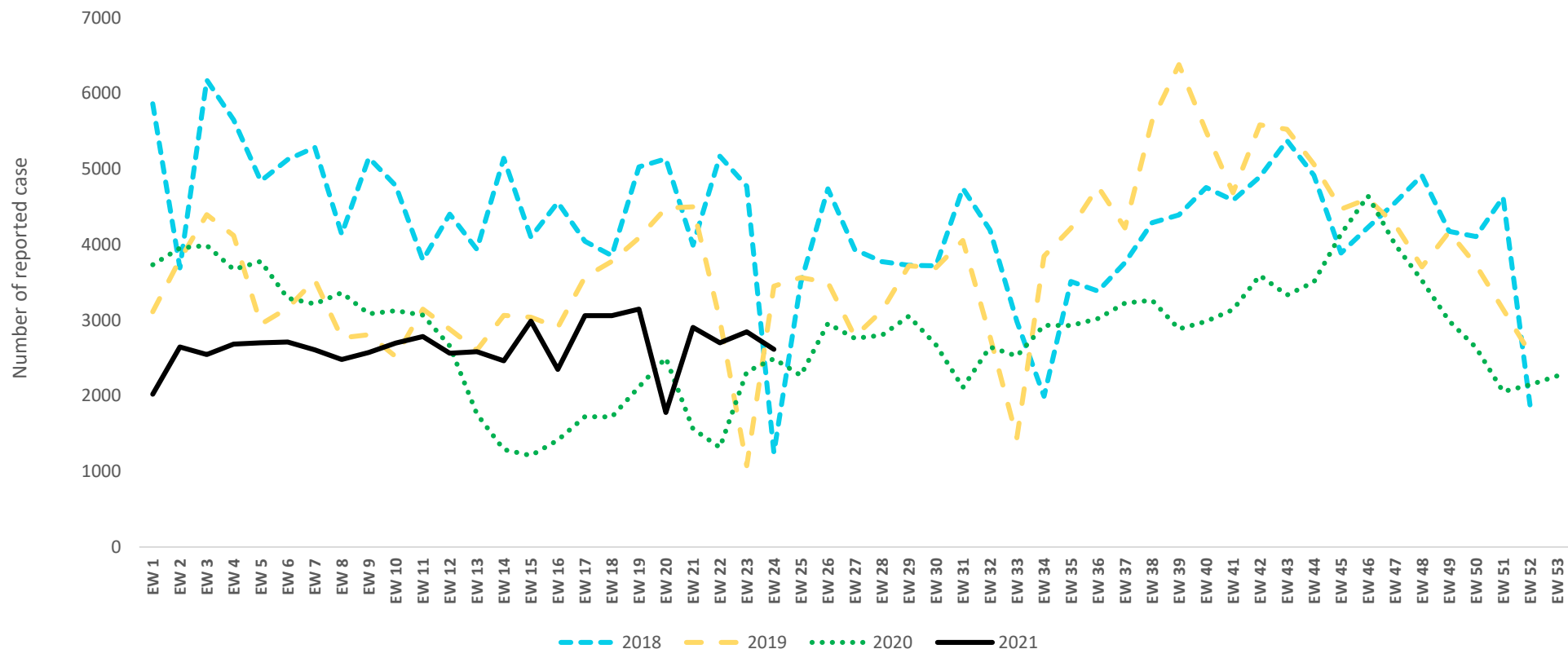
Total number of Measles case reported in EWARS from 2020- 2021 W23



In week 23, 7 suspected measles cases were reported through weekly reporting make 312 cases in total in 2021. Out of those 234 cases (75%) reported through case-based reporting and samples collected for laboratory confirmation.

Diarrhoeal Disease

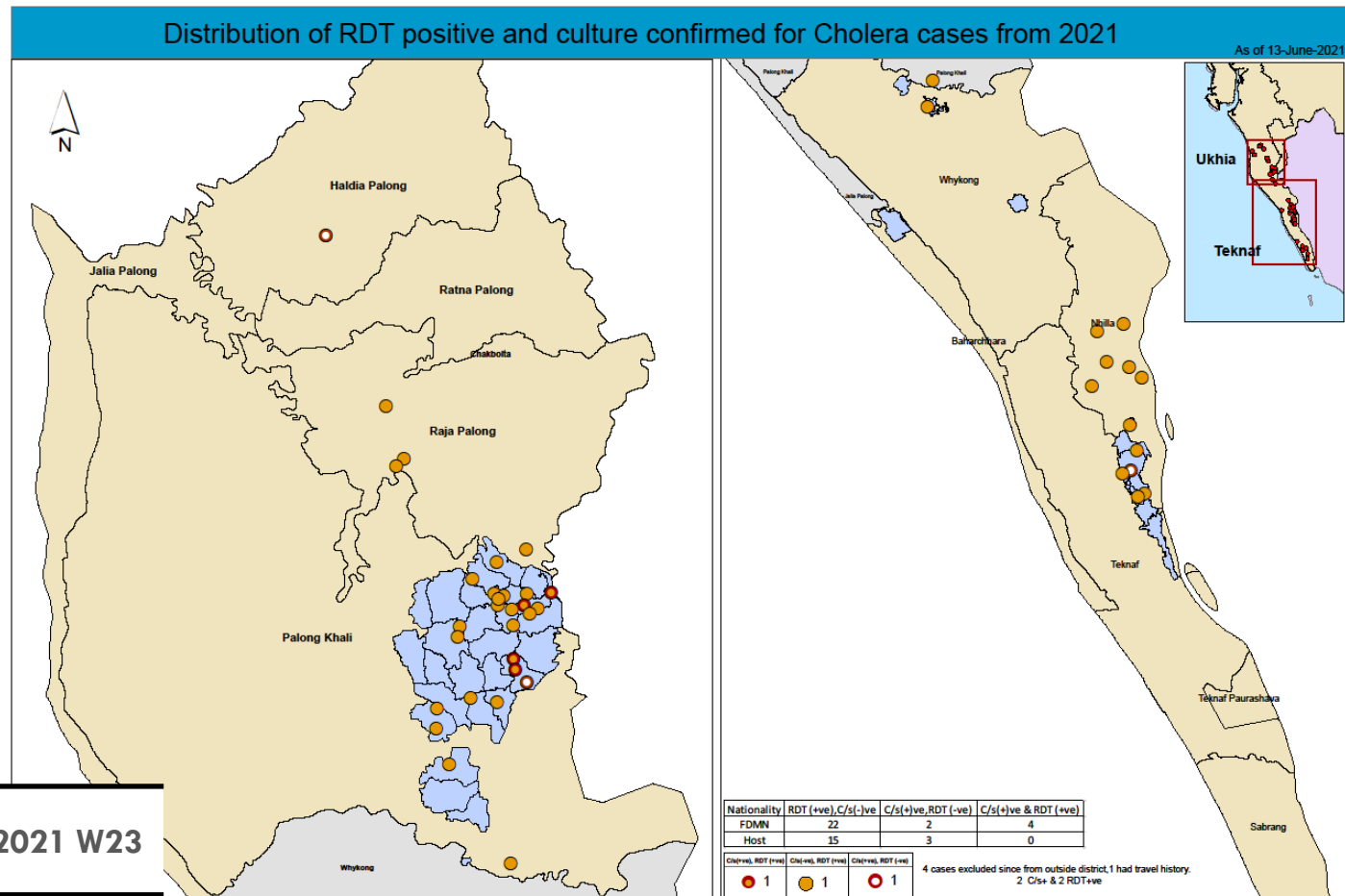
Total number of AWD case reported in EWARS from 2018-2021 W23



- A total of 3,647 cases of diarrhoeal diseases reported in EWARS in week 23.
- Among which 2,556 cases (3.8%) reported as acute watery diarrhoea (AWD), remaining 821 (1.2%) and 270 (0.4%) cases as other and bloody diarrhea, respectively.

Cholera Surveillance

- Total forty-six (46) Cholera RDT positive/culture cases reported as of W23 2021. Out of those 9 were confirmed and 30 by culture and remaining 7 results yet to be received.
- In 2020, total 28 RDT/Culture positive cases for Cholera 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 W23
RDT positive for Cholera	49	258	28	37
Culture Confirmed for Cholera	7	184	5*	9

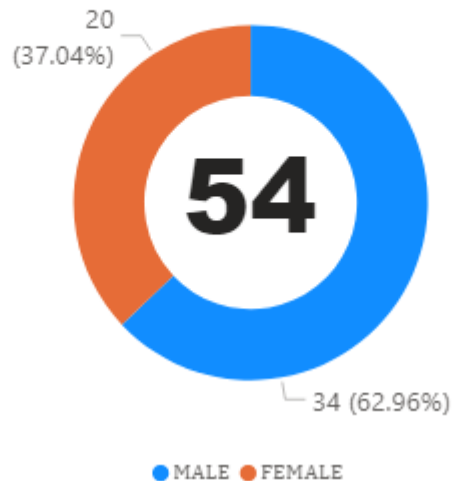
*3 culture confirmed cases were RDT negative in 2020

Community-based Mortality surveillance

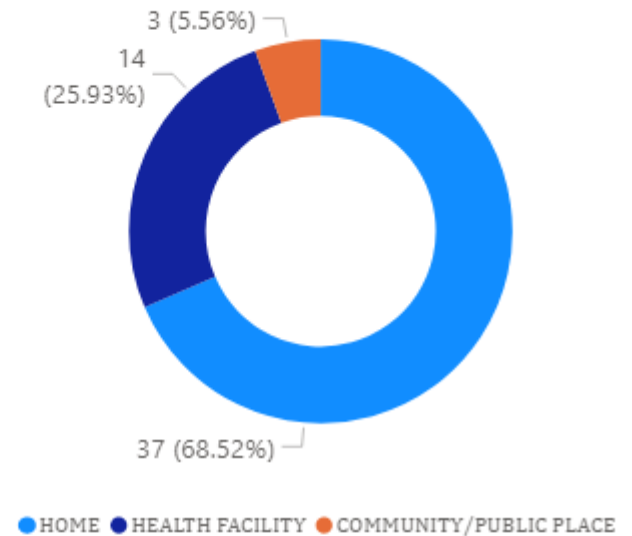
- In week 23, 54 deaths were recorded -
 - 60% (n=32) were due to causes classified as “Others”
 - 20% (n=11) as still birth (Born Dead)
 - 6% (n=3) as neonatal (<28 days old)
 - 6% (n=3) as infectious disease
 - 2% (n=1) as injury
 - 2% (n=1) as severe acute respiratory infection (SARI)
 - 6% (n=3) as maternal death
- Out of reported deaths, 25.9% occurred in health facilities and 68.5% at homes and 5.5% from community/public place
- Partners to report all mortalities into EWARS platform using both case and event-based reporting as applicable.

Community-based Mortality Surveillance

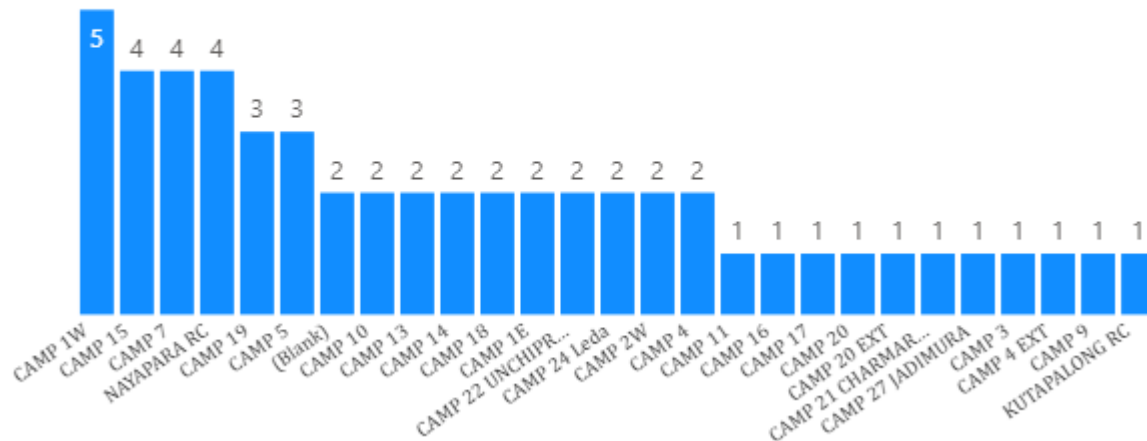
Gender distribution



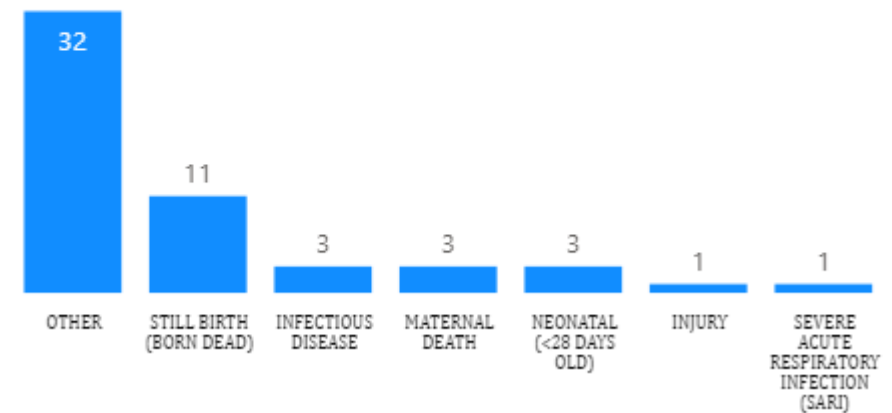
Place of death



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W23 2021



Ministry of Health and Family
Welfare Bangladesh



World Health
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HEALTH SECTOR
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Printed: 04:12 Wednesday, 16 June 2021 UTC

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Sources of data

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

Highlights W23 2021

Table 1 | Coverage

#	%	
866,457	-	Estimated total Rohingya population ¹
866,457	100%	Total population under surveillance
175	-	Total number of health facilities
172	98%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W23	Cumulative (2021)	
138	3713	Number of weekly reports received
80%	89%	Completeness
80%	84%	Timeliness

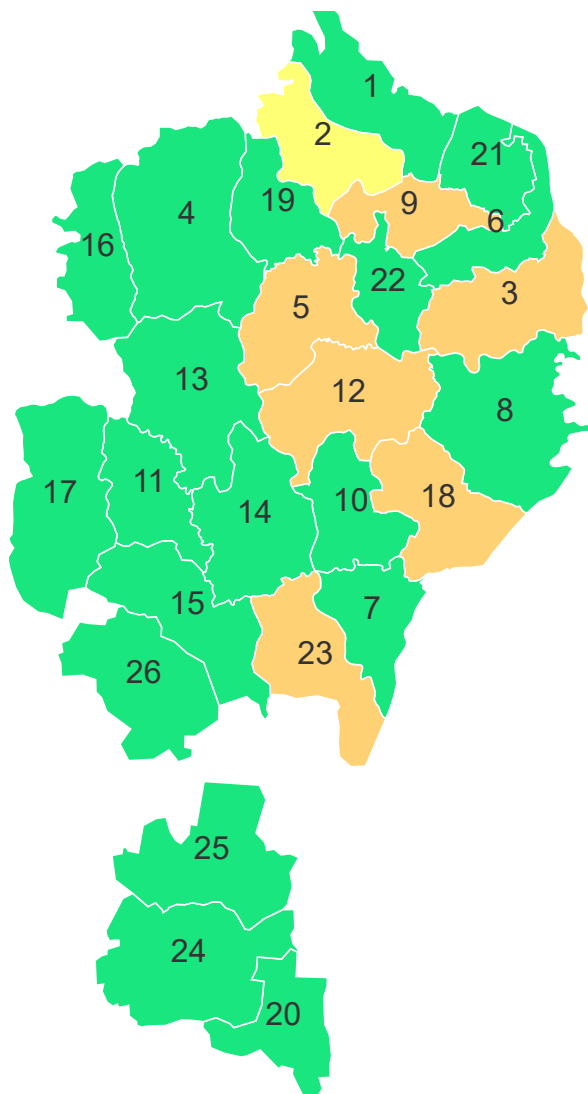
Table 3 Alert performance indicators

W23	Cumulative (2021)	
77	1,551	Total alerts raised
100%	100%	% verified
0%	0%	% auto-discarded
9%	1%	% undergoing risk assessment
0%	1%	% completed risk assessment

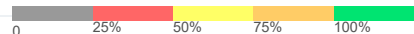
¹ Source: UNHCR. Bangladesh: Joint Government of Bangladesh- UNHCR Population Factsheet. 31 December 2020.

Map 1a | Ukhia completeness by camp

- 1 Camp 1E
- 2 Camp 1W
- 3 Camp 7
- 4 Camp 4
- 5 Camp 5
- 6 Camp 2E
- 7 Camp 11
- 8 Camp 8E
- 9 Camp 2W
- 10 Camp 10
- 11 Camp 20
- 12 Camp 8W
- 13 Camp 17
- 14 Camp 18
- 15 Camp 19
- 16 Camp 4 Ext
- 17 Camp 20 Ext
- 18 Camp 9
- 19 Camp 3
- 20 Camp 16
- 21 Kutupalong RC
- 22 Camp 6
- 23 Camp 12
- 24 Camp 15
- 25 Camp 14
- 26 Camp 13

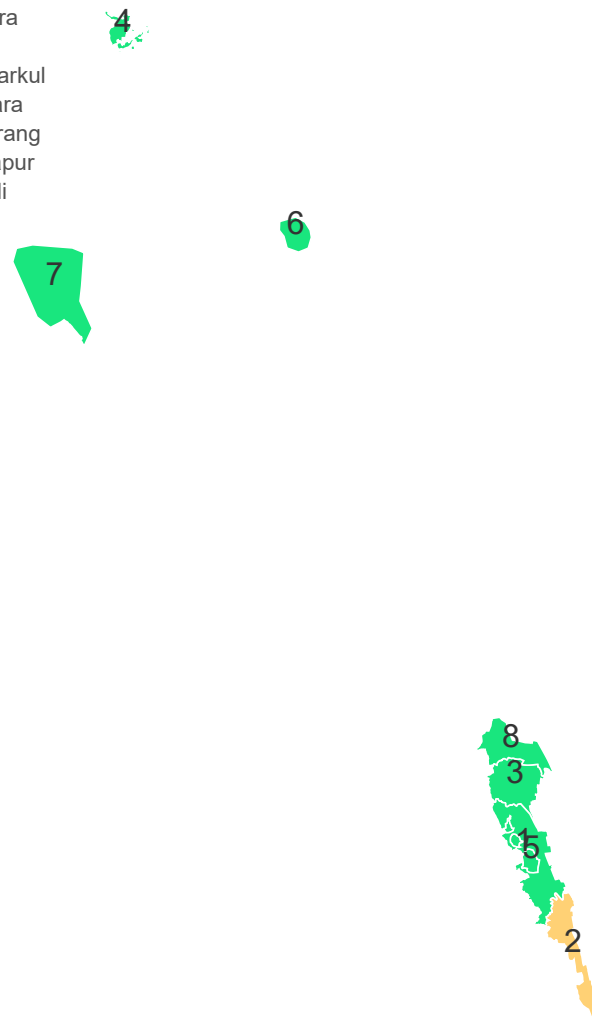


Completeness



Map 1b | Teknaf completeness by camp

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



Completeness

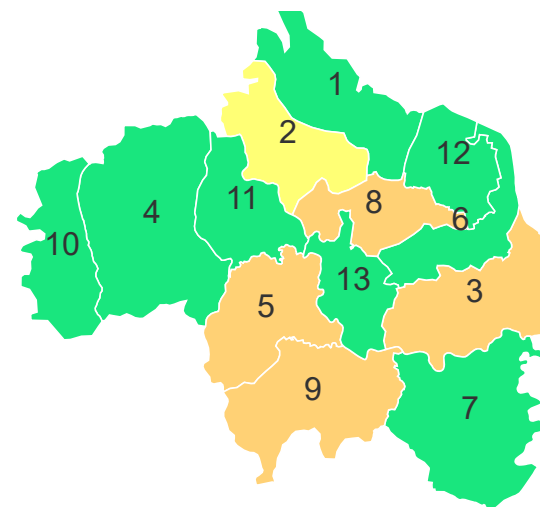


Table 4 | Performance by camp (W23 2021)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	4	100%	100%
Camp 1W	4	1	25%	25%
Camp 2E	3	3	100%	100%
Camp 2W	3	2	67%	67%
Camp 3	6	6	100%	100%
Camp 4	6	6	100%	100%
Camp 4 Ext	1	1	100%	100%
Camp 5	5	3	60%	60%
Camp 6	3	3	100%	100%
Camp 7	6	3	50%	50%
Camp 8E	8	7	88%	88%
Camp 8W	6	4	67%	67%
Kutupalong RC	2	2	100%	100%

Map 2 | Completeness by camp

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



Completeness



Table 5 | Performance by camp (W23 2021)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	100%
Camp 11	9	8	89%	89%
Camp 12	6	3	50%	50%
Camp 13	9	8	89%	89%
Camp 14	7	6	86%	86%
Camp 15	9	8	89%	89%
Camp 16	5	4	80%	80%
Camp 17	5	5	100%	100%
Camp 18	5	6	100%	100%
Camp 19	6	6	100%	100%
Camp 20	3	3	100%	100%
Camp 20 Ext	2	2	100%	100%
Camp 9	6	3	50%	50%

Map 3 | Completeness by camp

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

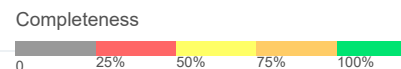
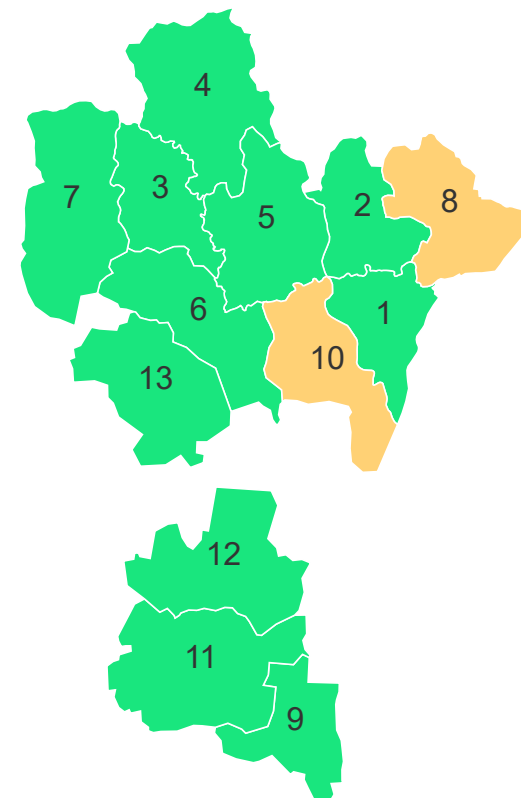


Table 6 | Performance by camp (W23 2021)

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

Map 4 | Completeness by camp

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

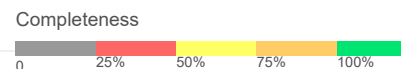
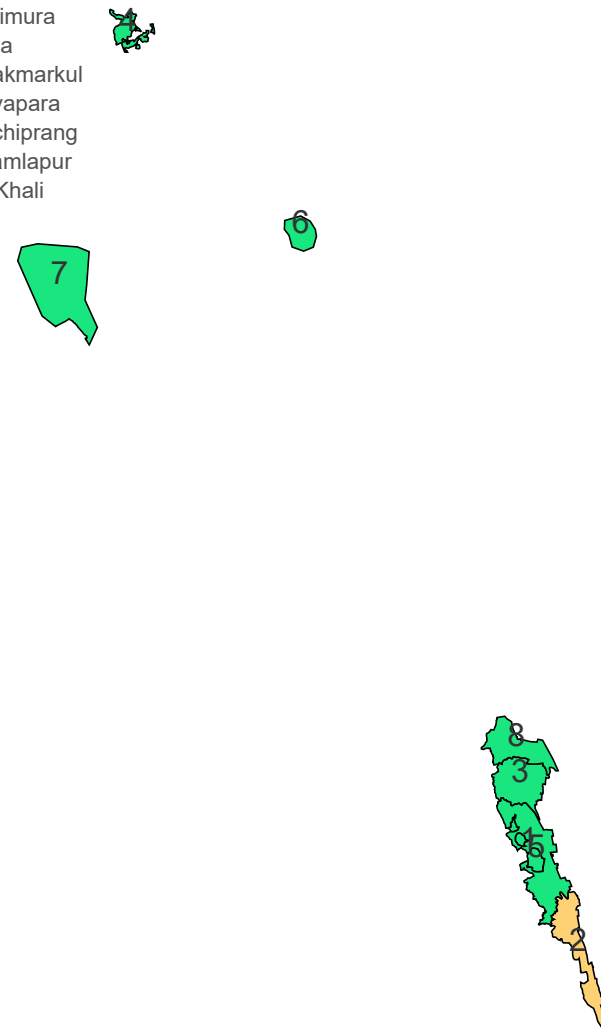


Table 7 | Performance by partner (W23 2021)

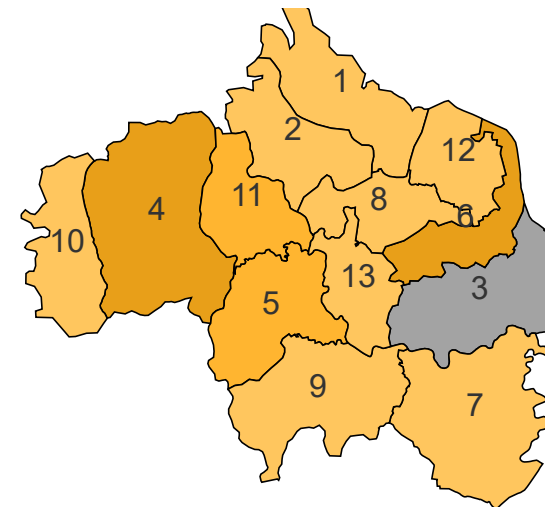
Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AWARD	6	6	100%	100%	IRC	2	2	100%	100%
BASHMAH	1	0	0%	0%	MSF	9	6	67%	67%
BDRCS	12	10	83%	83%	MoH	7	1	14%	14%
BRAC	11	11	100%	100%	Hope	4	4	100%	100%
CARE	4	0	0%	0%	Medair	2	2	100%	100%
DAM	2	2	100%	100%	FH/MTI	3	3	100%	100%
DBC	1	1	100%	100%	PRANTIC	1	1	100%	100%
DSK	1	0	0%	0%	PULSE	1	0	0%	0%
DCHT	12	10	83%	83%	QC	1	1	100%	100%
FRNDS	12	7	58%	58%	PHD	10	10	100%	100%
GK	10	10	100%	100%	PWJ	1	1	100%	100%
Global One	1	1	100%	100%	RPN	2	2	100%	100%
GUSS	1	1	100%	100%	RHU	3	3	100%	100%
HAEFA	2	0	0%	0%	RI	3	3	100%	100%
HAIB	8	8	100%	100%	RTMI	11	9	82%	82%
HMBDF	1	1	100%	100%	SALT	1	1	100%	100%
HOPE	12	10	83%	83%	SCI	7	7	100%	100%
HTN	0	0			SHED	1	0	0%	0%
ICRC	2	0	0%	0%	Turkish Government	1	0	0%	0%
IOM	23	21	91%	91%	TdH	1	1	100%	100%

Table 8 | Performance by camp

Northern group	W23		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	2	100%	30	100%
Camp 1W	2	100%	48	100%
Camp 2E	9	100%	130	100%
Camp 2W	2	100%	37	100%
Camp 3	3	100%	75	100%
Camp 4	6	100%	73	100%
Camp 4 Ext	1	100%	12	100%
Camp 5	4	100%	73	100%
Camp 6	2	100%	40	100%
Camp 7	0	0%	16	100%
Camp 8E	1	100%	21	100%
Camp 8W	2	100%	83	100%
Kutupalong RC	1	100%	18	100%

Map 5 | Number of alerts by camp

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



of alerts

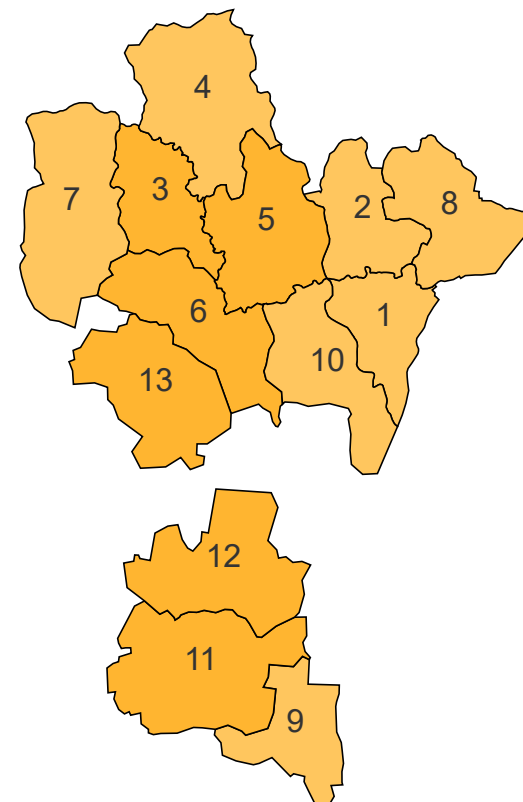


Table 9 | Performance by camp

Southern group	W23		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	2	100%	52	100%
Camp 11	2	100%	56	100%
Camp 12	1	100%	50	100%
Camp 13	4	100%	64	100%
Camp 14	3	100%	42	100%
Camp 15	4	100%	58	100%
Camp 16	1	100%	66	100%
Camp 17	1	100%	50	100%
Camp 18	5	100%	72	100%
Camp 19	3	100%	36	100%
Camp 20	3	100%	37	100%
Camp 20 Ext	1	100%	19	100%
Camp 9	1	100%	57	100%

Map 6 | Number of alerts by camp

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



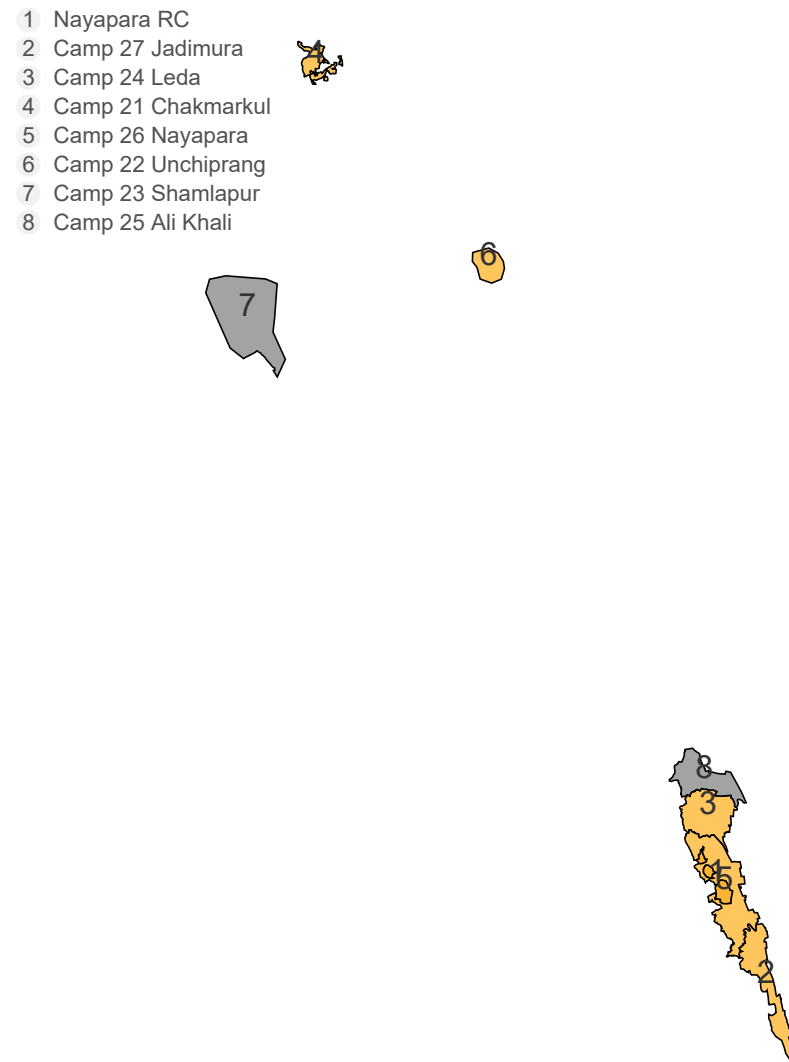
of alerts



Table 10 | Performance by camp

Teknaf	W23		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	1	100%	15	100%
Camp 22 Unchiprang	2	100%	32	100%
Camp 23 Shamlapur	0	0%	13	100%
Camp 24 Leda	1	100%	38	100%
Camp 25 Ali Khali	0	0%	14	100%
Camp 26 Nayapara	1	100%	66	100%
Camp 27 Jadimura	1	100%	9	100%
Nayapara RC	3	100%	24	100%

Map 7 | Number of alerts by camp



of alerts



Table 11 | Performance by type of alert

Event	W23		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	2	100%
Measles	6	100%	207	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	6	100%
Meningitis	0	0%	22	100%
Haem. fever (susp.)	0	0%	5	100%
NNT	0	0%	1	100%
Unexp. fever	4	100%	74	100%
AWD	6	100%	143	100%
ARI	7	100%	109	100%
AJS	0	0%	16	100%
Varicella (Susp.)	0	0%	29	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	4	100%	106	100%

Table 12 | Risk assessment

W23	Cumulative (2021)	
0	15	Low risk
0	2	Moderate risk
0	1	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>



Ministry of
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Family
Welfare
Bangladesh



World Health
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HEALTH SECTOR
COX'S BAZAR



Global

EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Annex W23 2021



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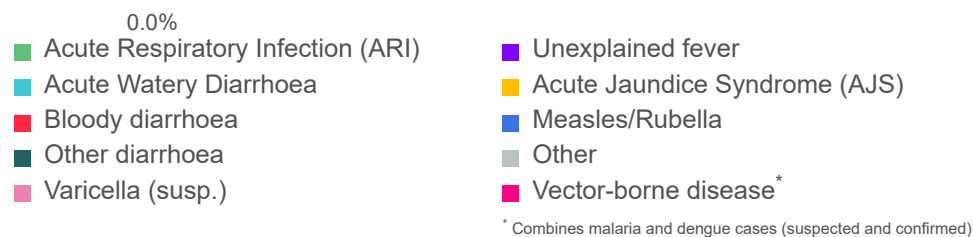
HEALTH SECTOR
COX'S BAZAR



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Proportional morbidity

Figure 1 | Proportional morbidity (W23 2021)



Disease	W23		2021	
	# cases	% morbidity	# cases	% morbidity
AWD	2,556	3.8%	63,592	3.3%
Bloody diarr.	270	0.4%	7,772	0.4%
Other diarr.	821	1.2%	21,654	1.1%
Susp. Varicella	25	0.0%	3,246	0.2%
ARI	10,881	16.2%	359,631	18.5%
Measles/Rub.	7	0.0%	320	0.0%
AFP	0	0.0%	7	0.0%
Susp. menin.	0	0.0%	70	0.0%
AJS	6	0.0%	219	0.0%
Susp. HF	0	0.0%	5	0.0%
Neo. tetanus	0	0.0%	0	0.0%
Adult tetanus	0	0.0%	11	0.0%
Malaria (conf.)	0	0.0%	10	0.0%
Malaria (susp.)	1,573	2.3%	14,594	0.7%
Dengue (conf.)	0	0.0%	3	0.0%
Dengue (susp.)	0	0.0%	26	0.0%
Unexpl. fever	608	0.9%	21,449	1.1%
Sev. Malnut.	25	0.0%	808	0.0%
Inj./Wounds	1,578	2.4%	52,388	2.7%
Other	48,746	72.6%	1,400,108	71.9%
Total	66,533	100%	1,947,000	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W23)

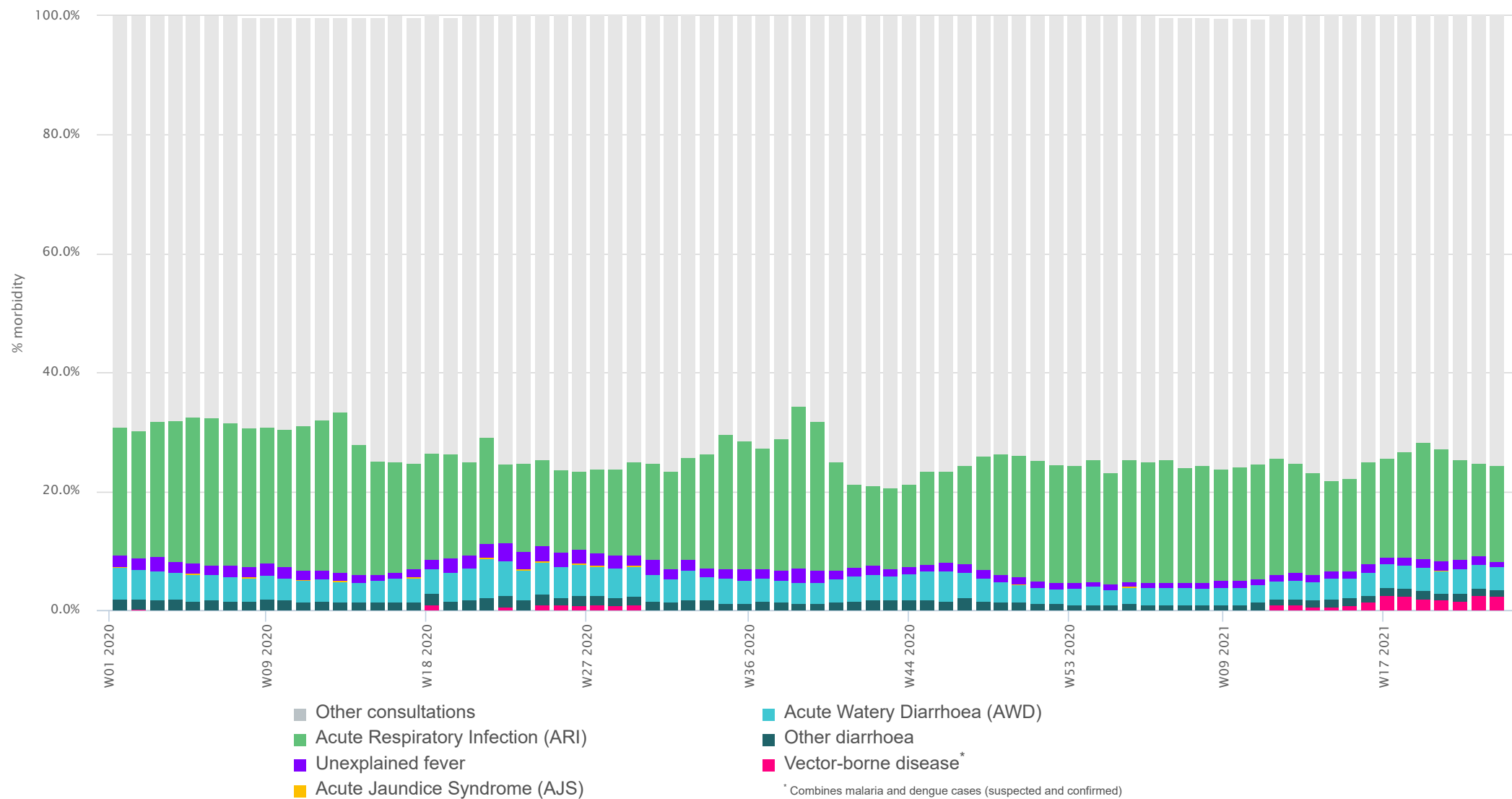
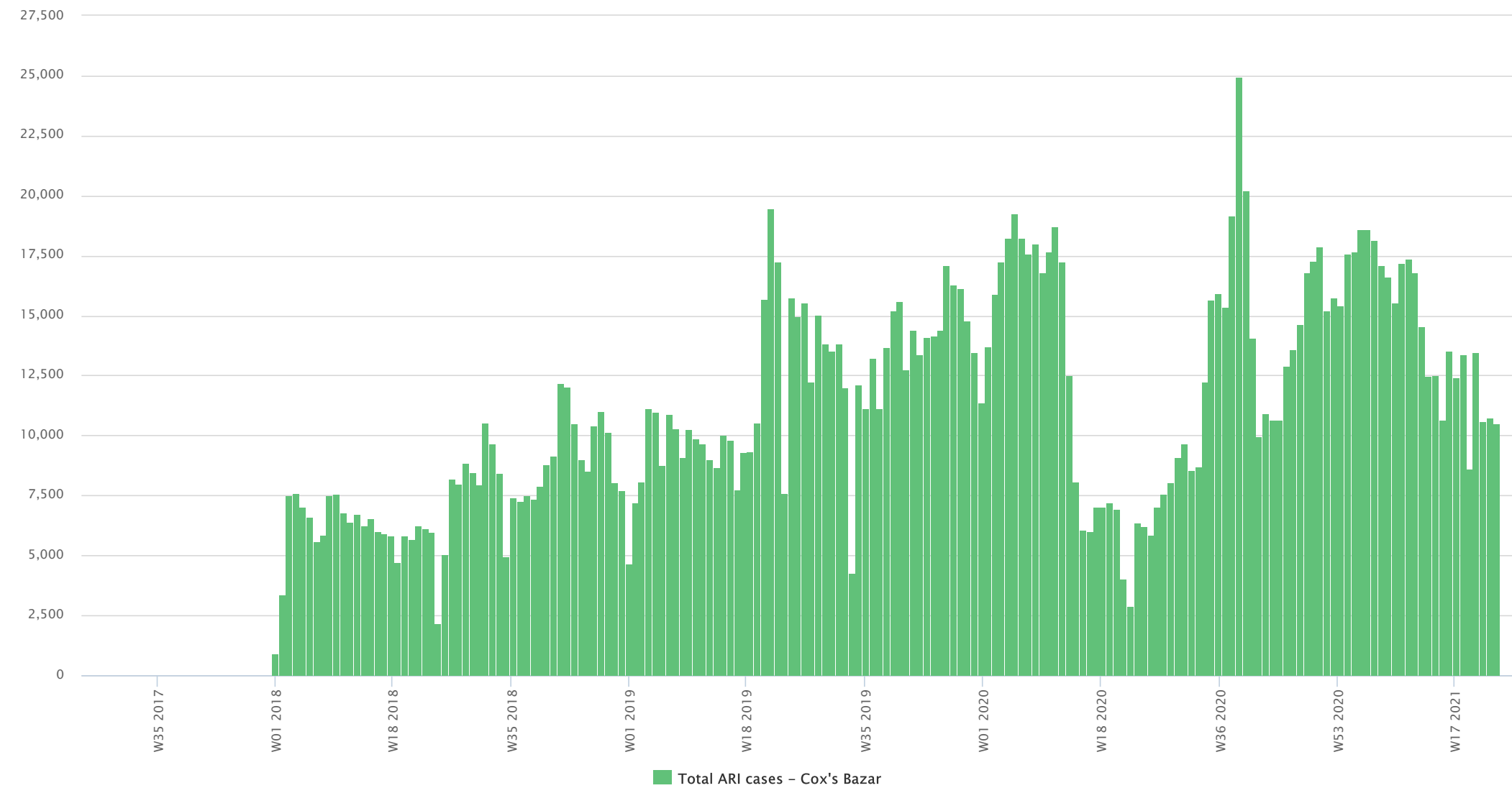
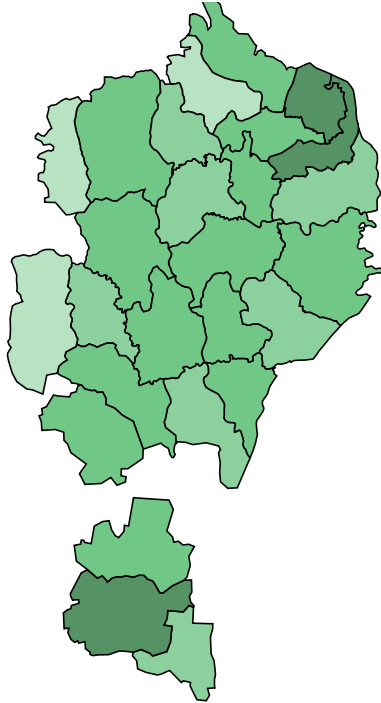


Figure 3 | Trend in number of cases over time (W38 2017 - W23 2021)

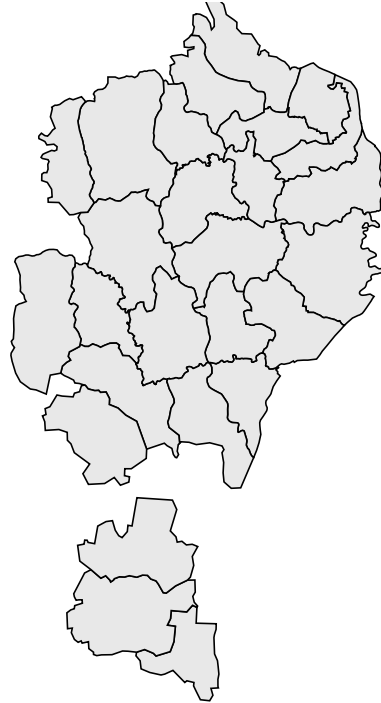


Map 1 | Map of cases by camp (W23 2021)

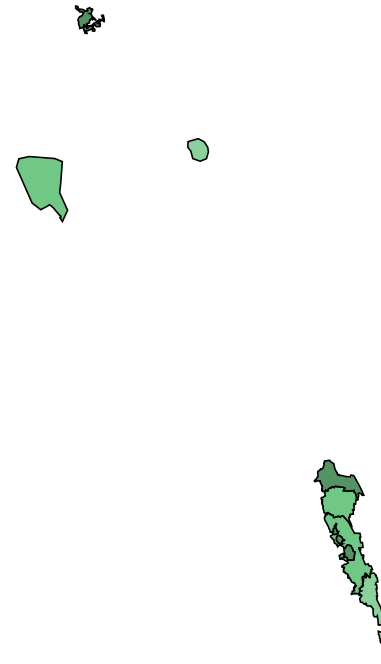
a. Ukhia | Number of cases



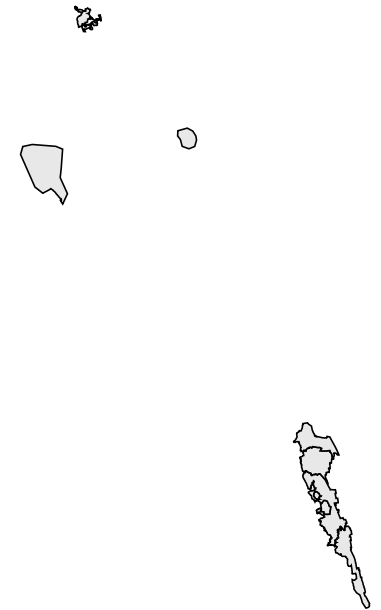
b. Ukhia | Number of alerts



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 (W23 2021)

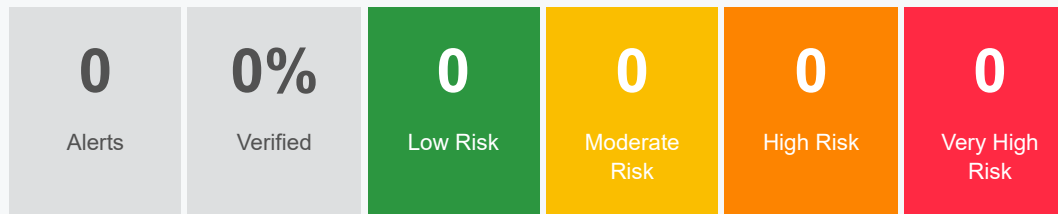
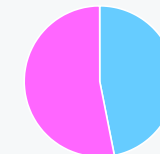


Figure | % sex



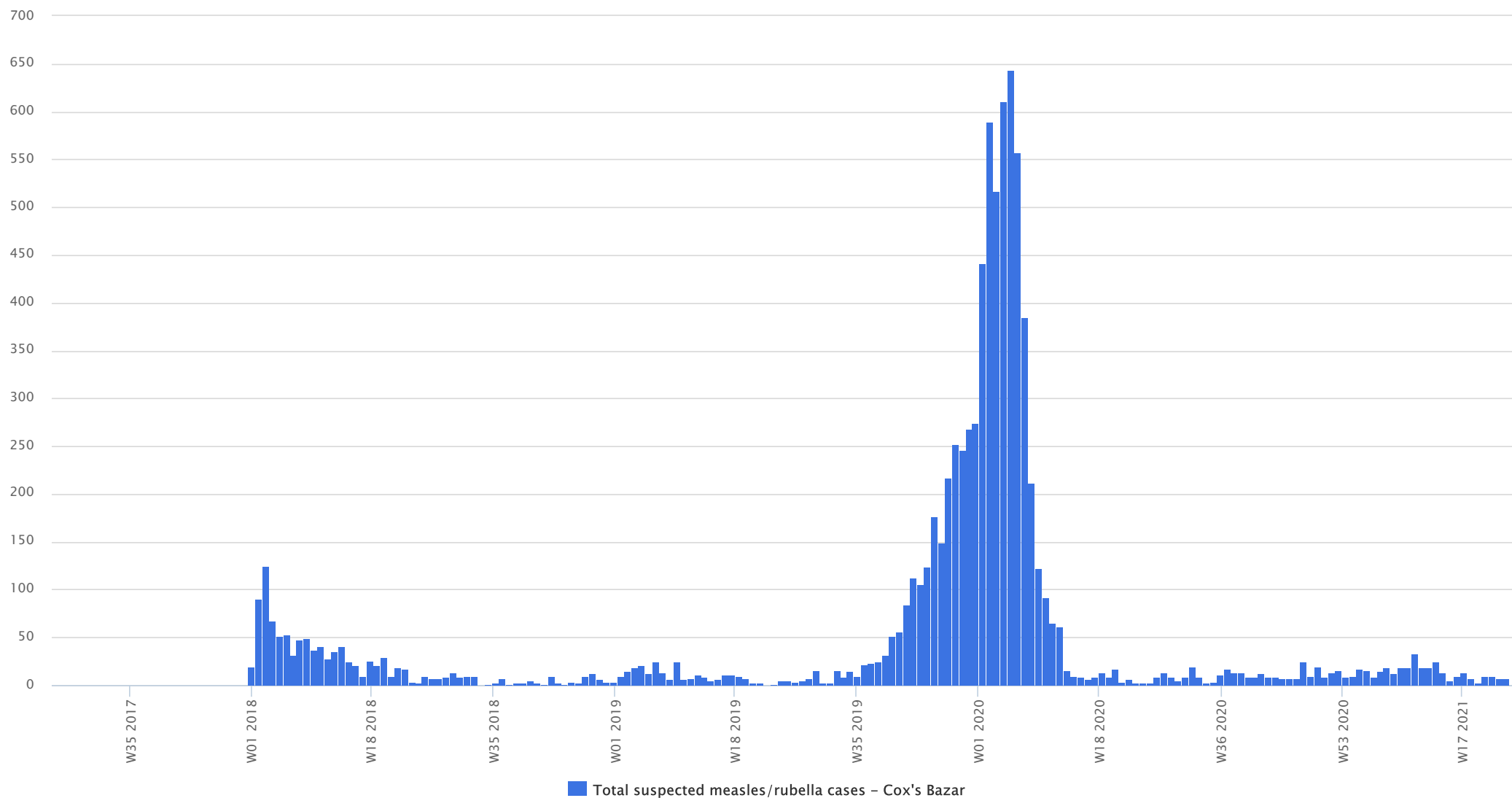
Male Female

Figure | % age



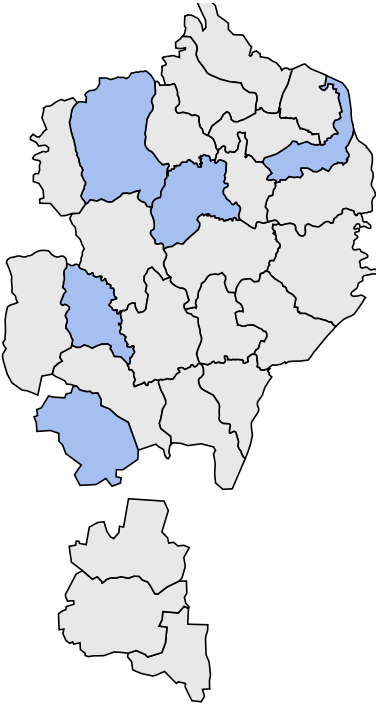
≥ 5 < 5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W23 2021)

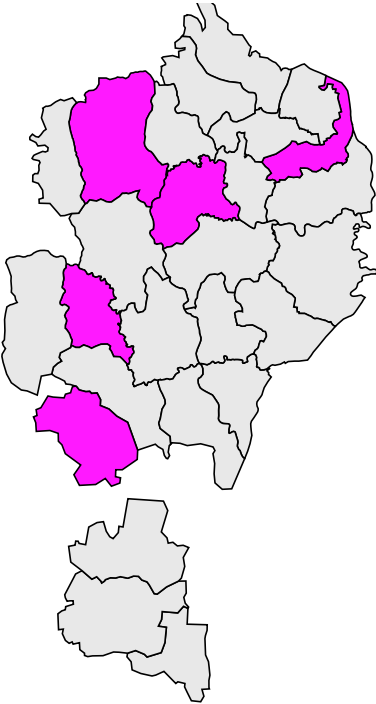


Map 2 | Map of cases by camp (W23 2021)

a. Ukhia | Number of cases



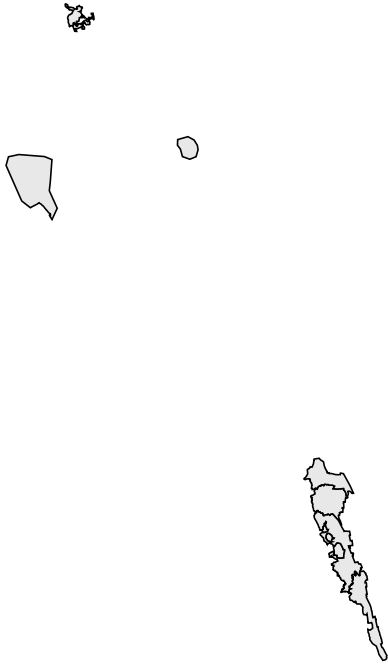
b. Ukhia | Number of alerts



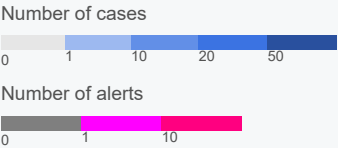
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W23 2021)

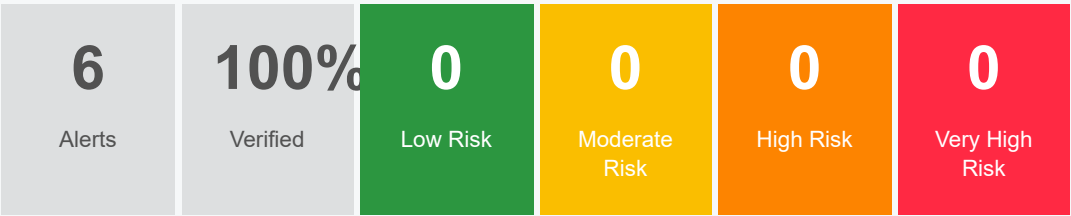


Figure | % sex

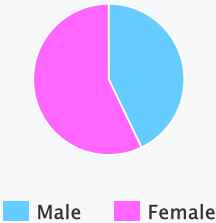


Figure | % age

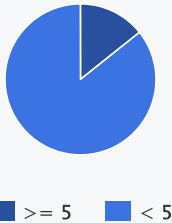
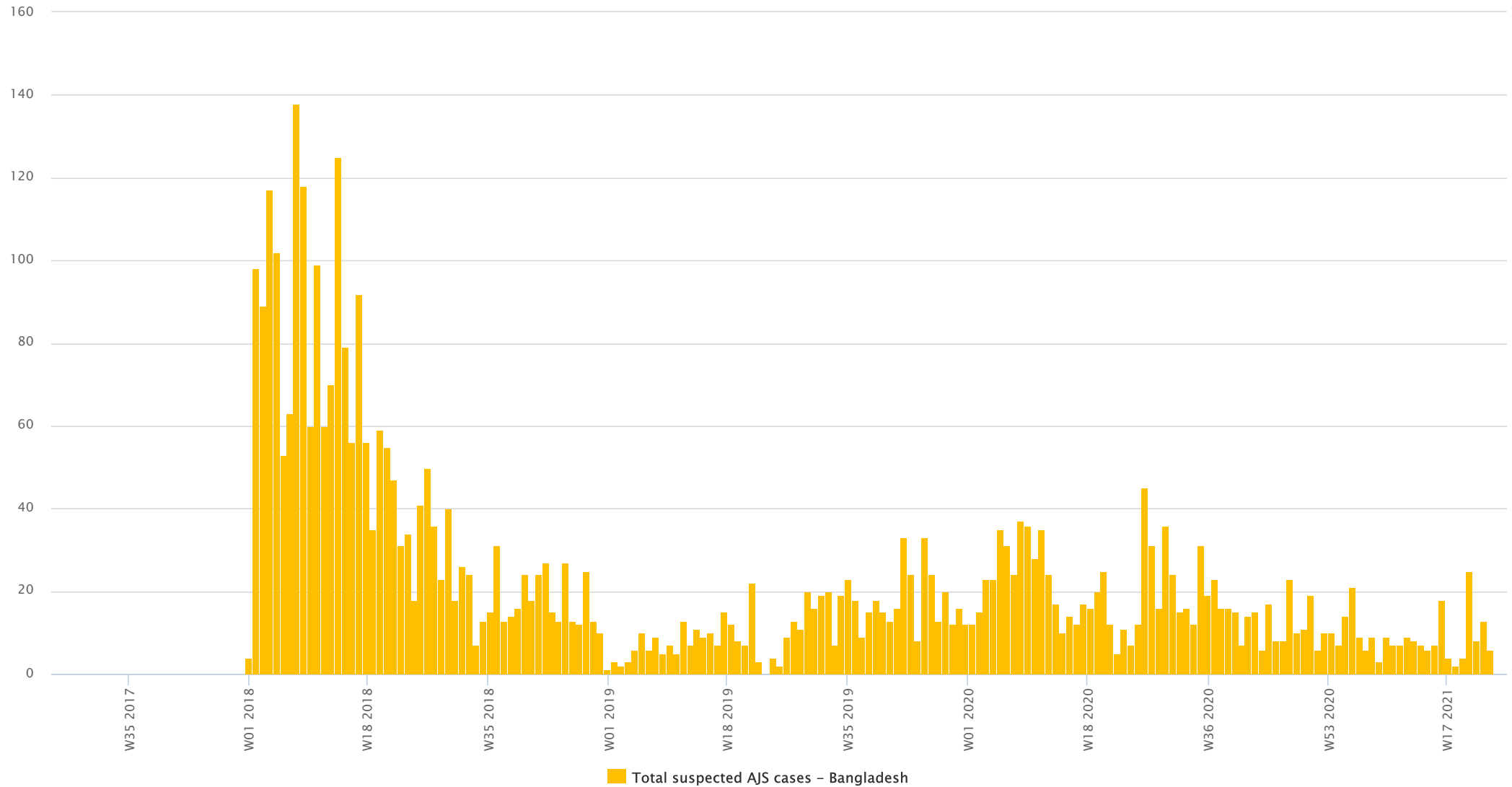
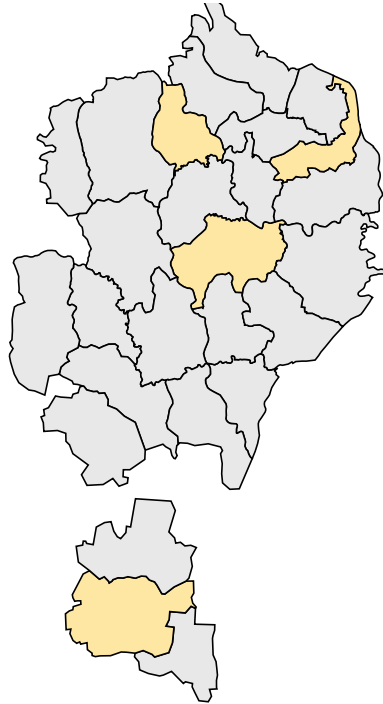


Figure 5 | Trend in number of cases over time (W38 2017 - W23 2021)

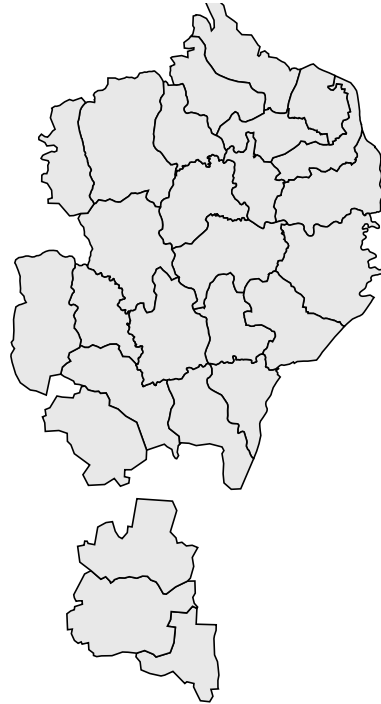


Map 3 | Map of cases by camp (W37 2017 - W23 2021)

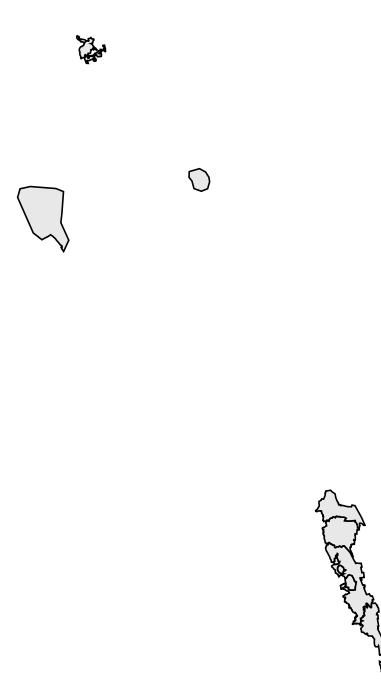
a. Ukhia | Number of cases



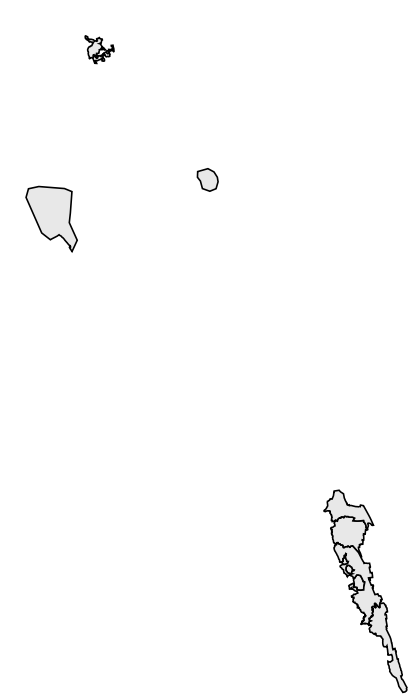
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts

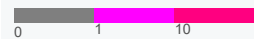


Map legend

Number of cases



Number of alerts



Alert threshold

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

Alert management (W23 2021)

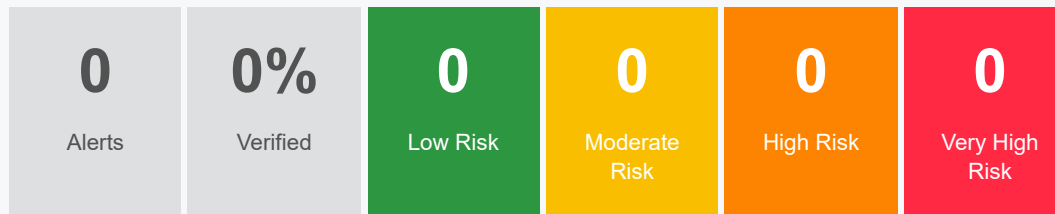


Figure | % sex



Male Female

Figure | % age



>= 5 < 5

Figure 6 | Trend in number of cases over time (W38 2017 - W23 2021)

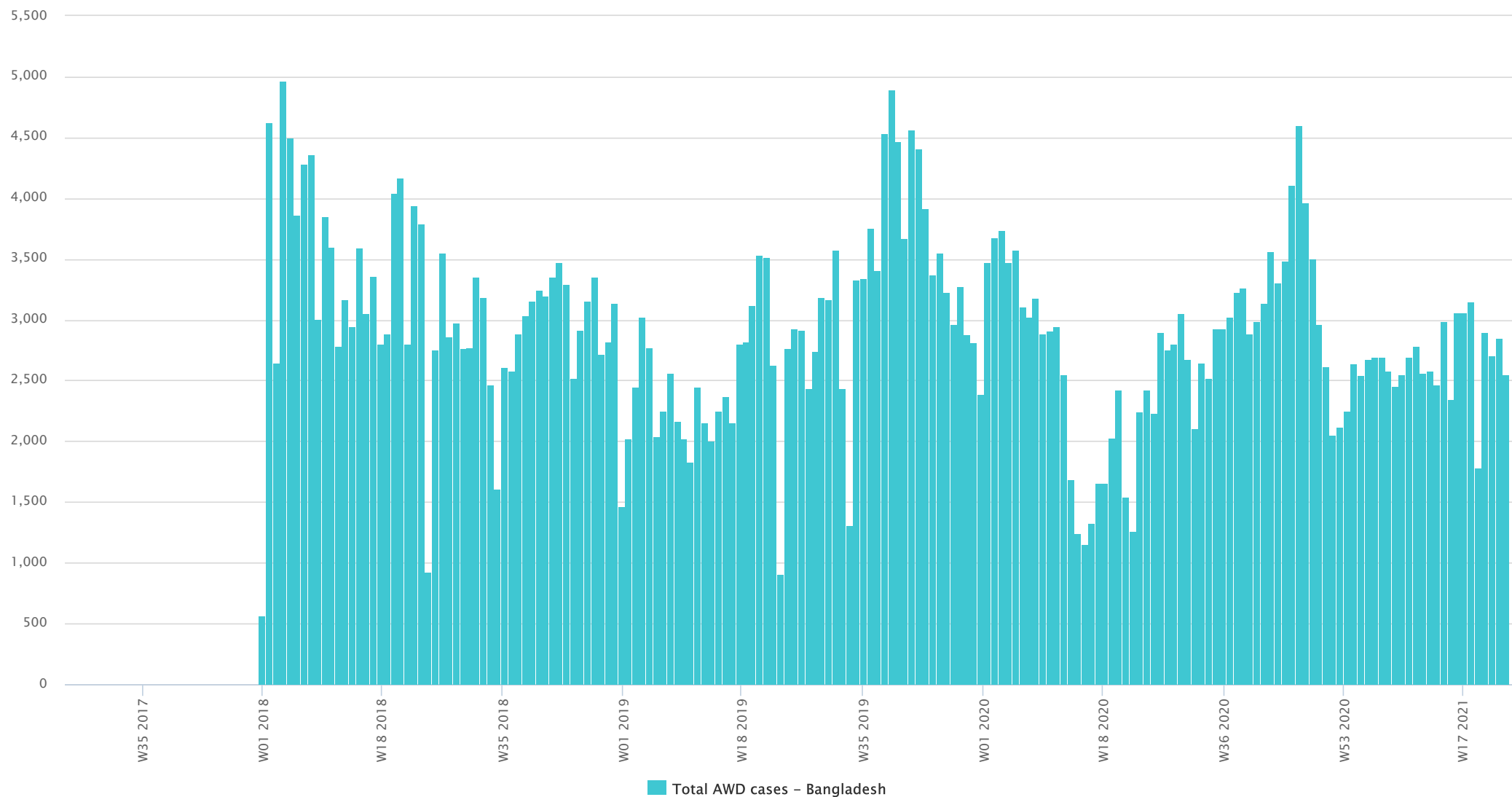
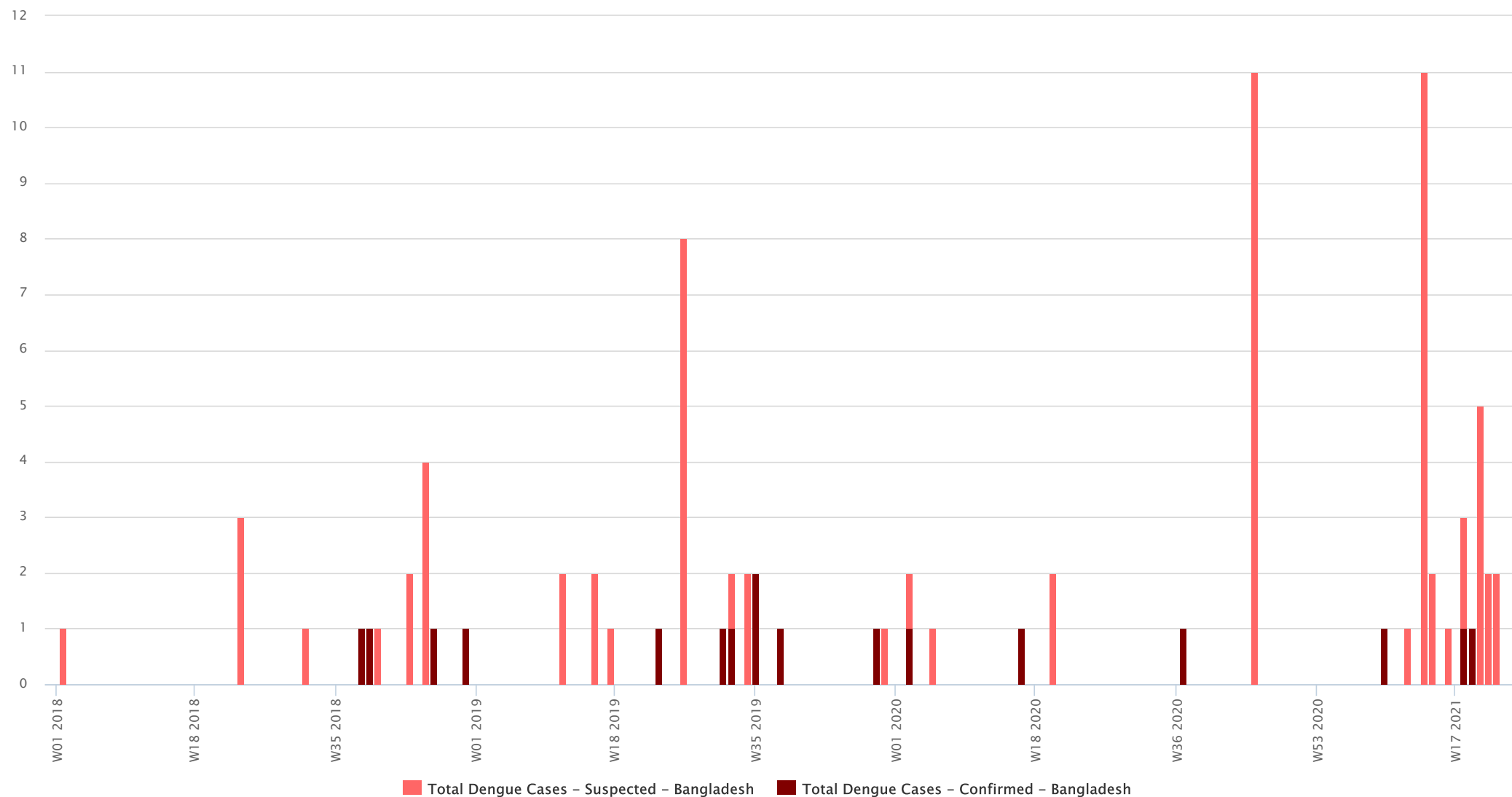


Figure 7 | Trend in number of cases over time (W38 2017 - W23 2021)

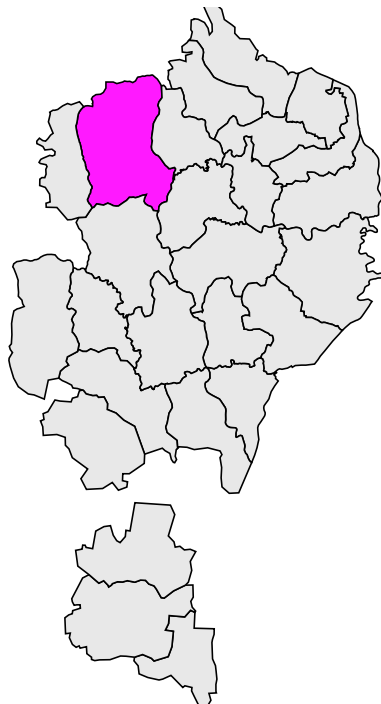


Map 4 | Map of cases by camp (W37 2017 - W23 2021)

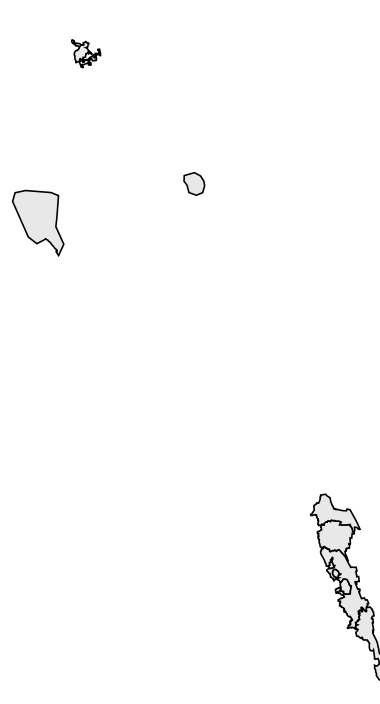
a. Ukhia | Number of cases



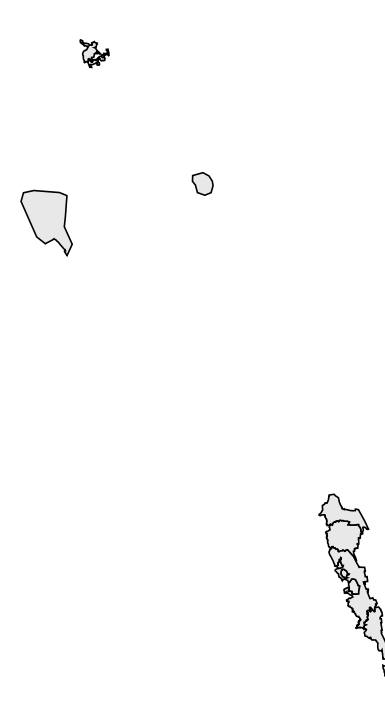
b. Ukhia | Number of alerts



c. Teknaf | Number of cases

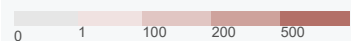


d. Teknaf | Number of alerts



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 (W23 2021)

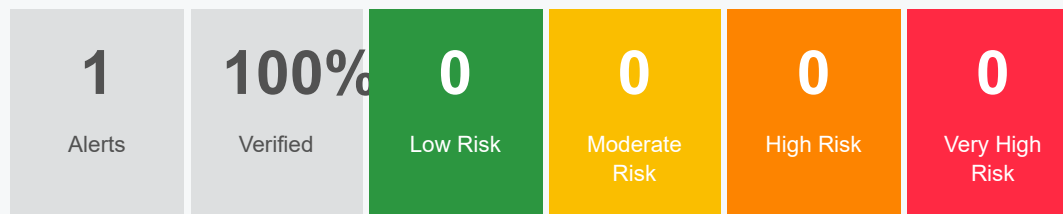


Figure | % sex



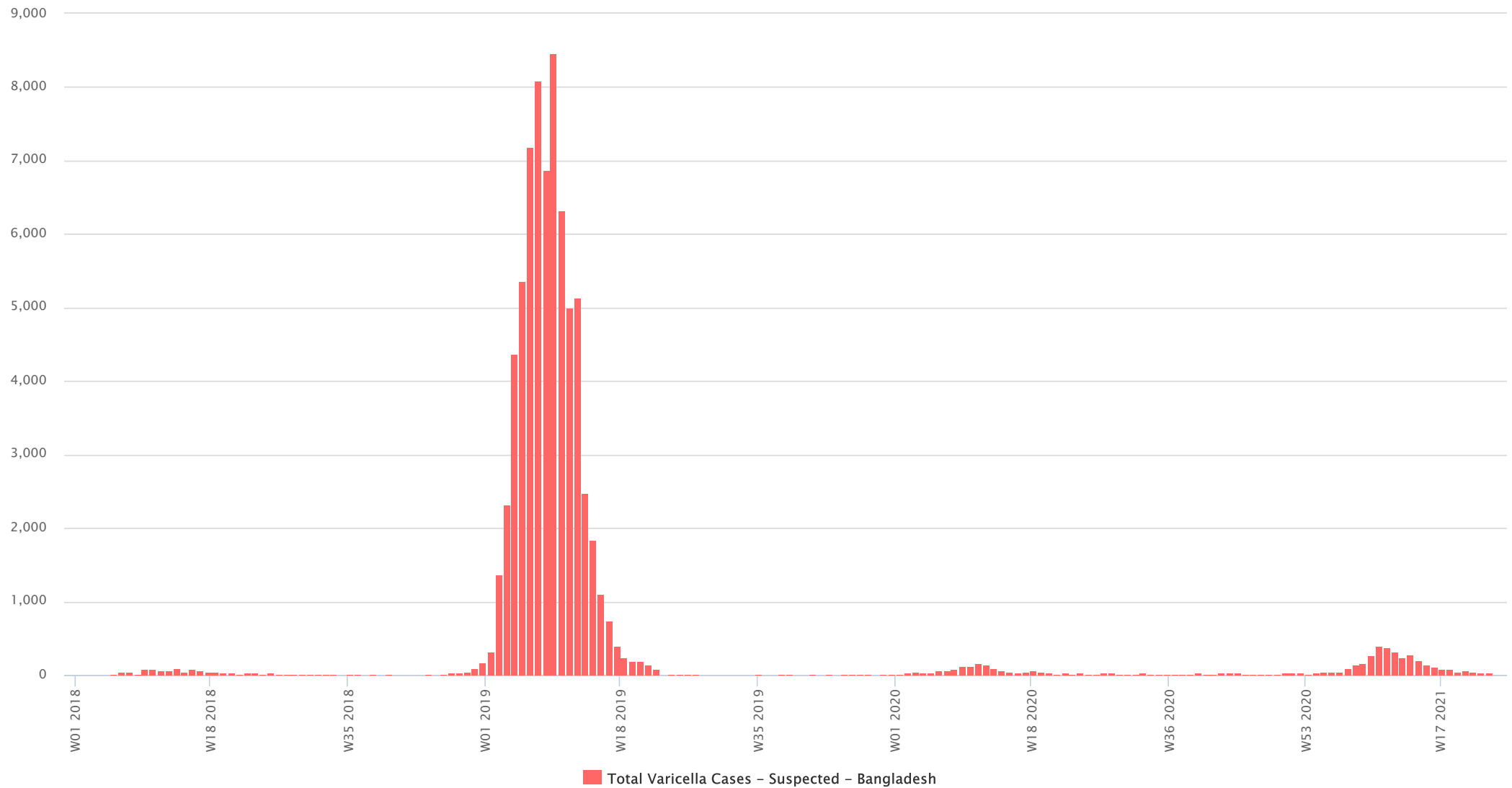
Male Female

Figure | % age



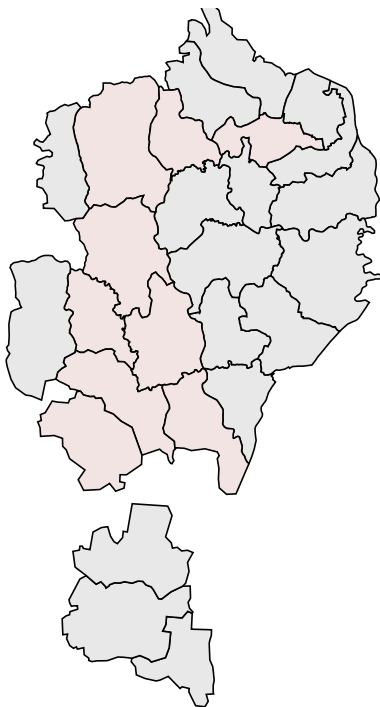
>= 5 < 5

Figure 7 | Trend in number of cases over time (W38 2017 - W23 2021)

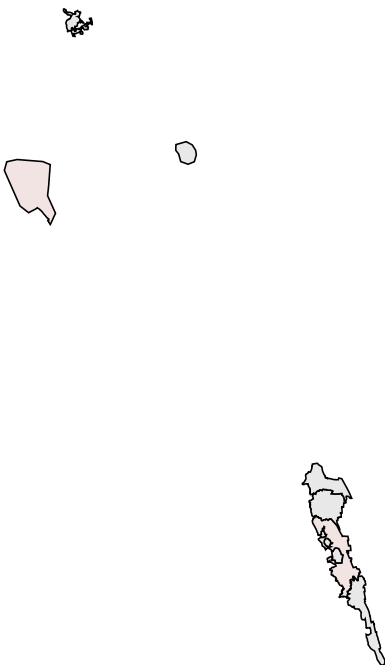


Map 4 | Map of cases by camp (W37 2017 - W23 2021)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

Number of cases

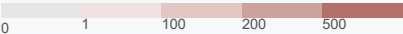


Figure | % sex

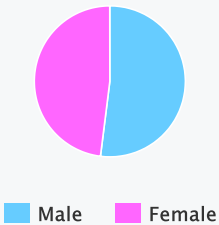
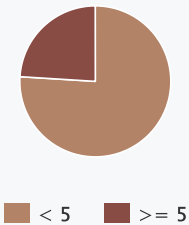


Figure | % age



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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>

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