



Epidemiological Highlights

Week 7 (15-21 Feb 2021)



**World Health
Organization**

Highlights: COVID-19

As of week 07, (15 – 21 Feb 2021) there are 399 confirmed cases of COVID-19 (SARS-CoV-2), 29 780 samples were tested.

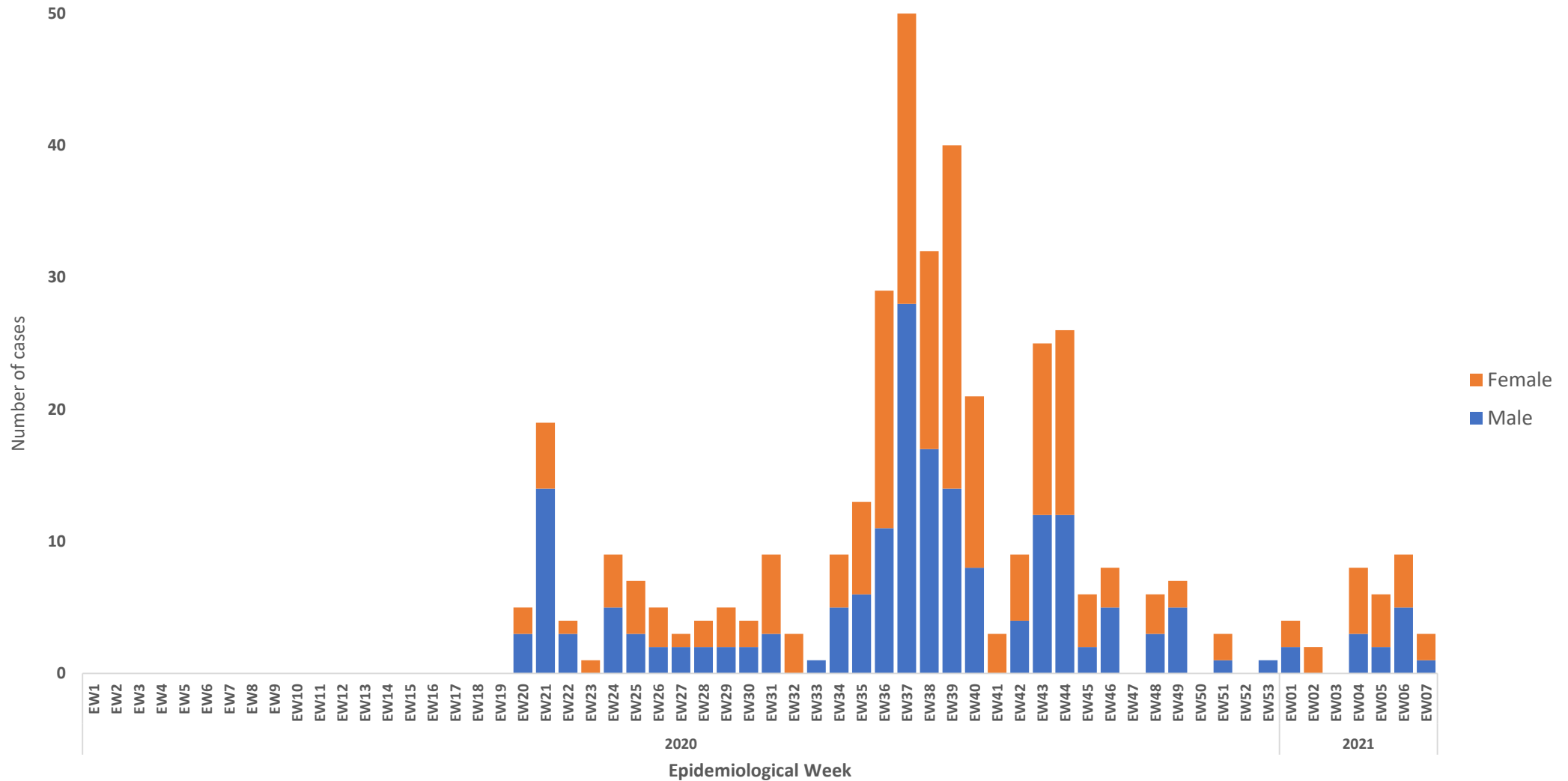
This week (week 07), 3 new confirmed cases detected, 822 samples were tested, test positivity was 0.4%.

As of this week (week 07)

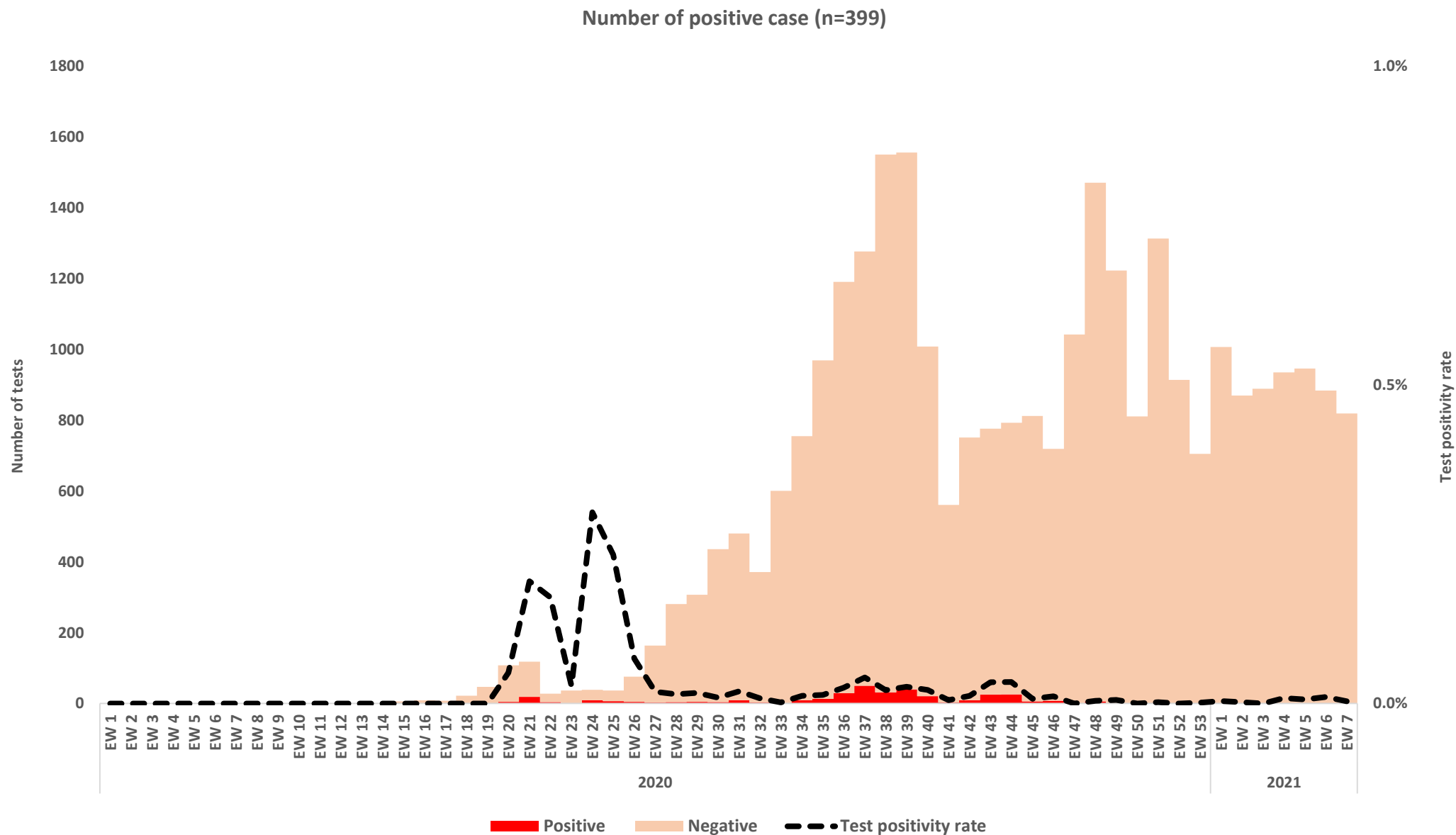
- Median age of tested and confirmed cases is 10 (0-120) and 18 (0-90) years
- Female among tested and confirmed cases is 55% and 53%
- All 34/34 camps have confirmed cases (C24-56, C2W-39, C3-29, C15-26, C6-24)
- A total of 10 deaths from COVID-19 with the case fatality rate 2.5%
- The incidence is 46.1 per 100,000 people with the growth rate 0.3%
- The overall positivity of all samples tested was 1.4%

Highlights: COVID-19

COVID-19 positive cases (n=399) by week of test

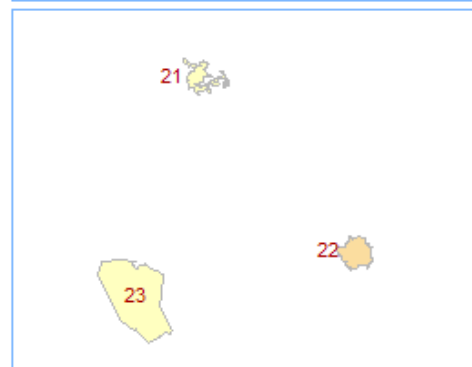
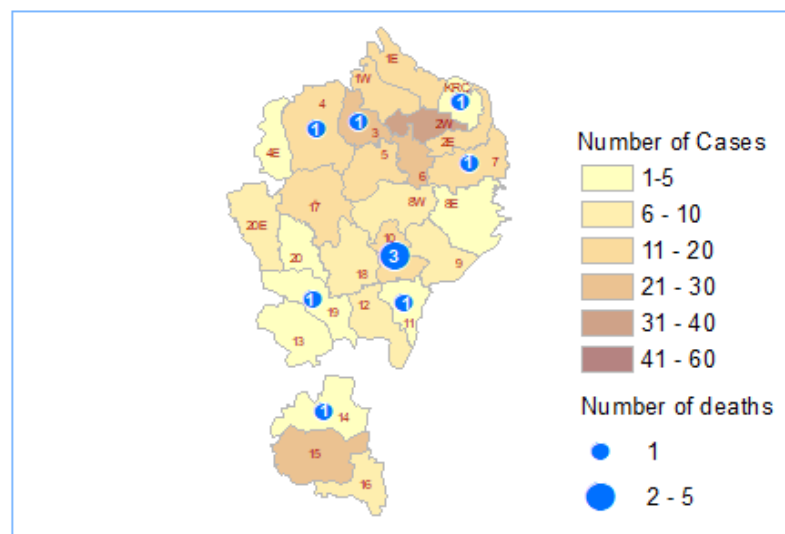


Highlights: COVID-19



Highlights: COVID-19

COVID-19 Cases in Rohingya Camps (As of 21 February 2021)

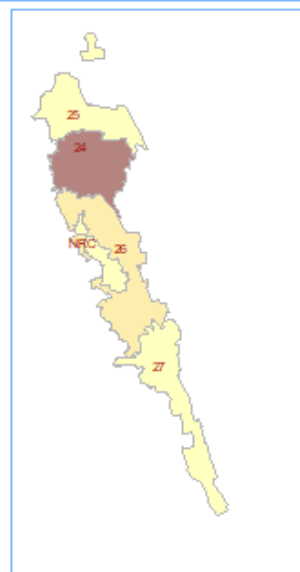


399 Confirmed cases in FDMN/Rohingya Refugee Camps

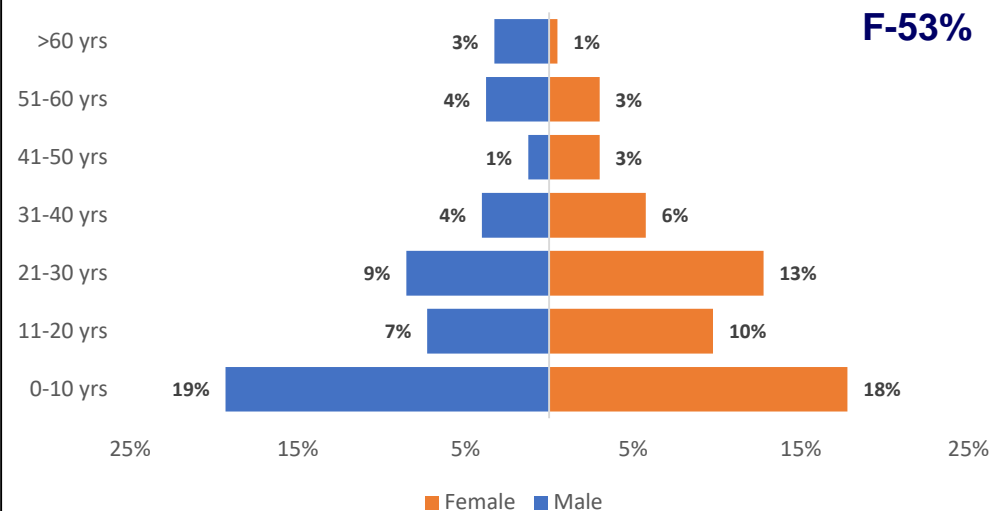
464 Confirmed cases/1 Million

10 Deaths in FDMN/Rohingya Refugee Camps

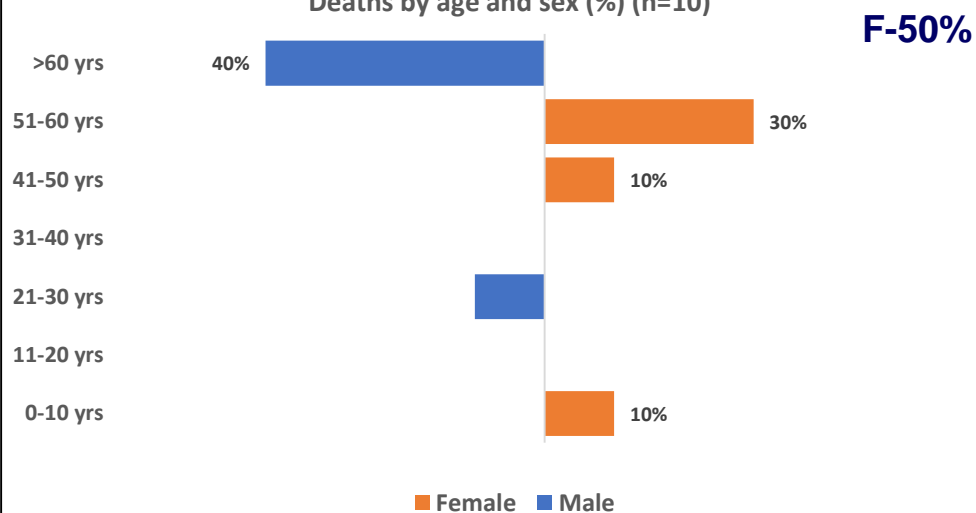
12 Deaths/1 Million



Age and sex distribution (%) (n=399)

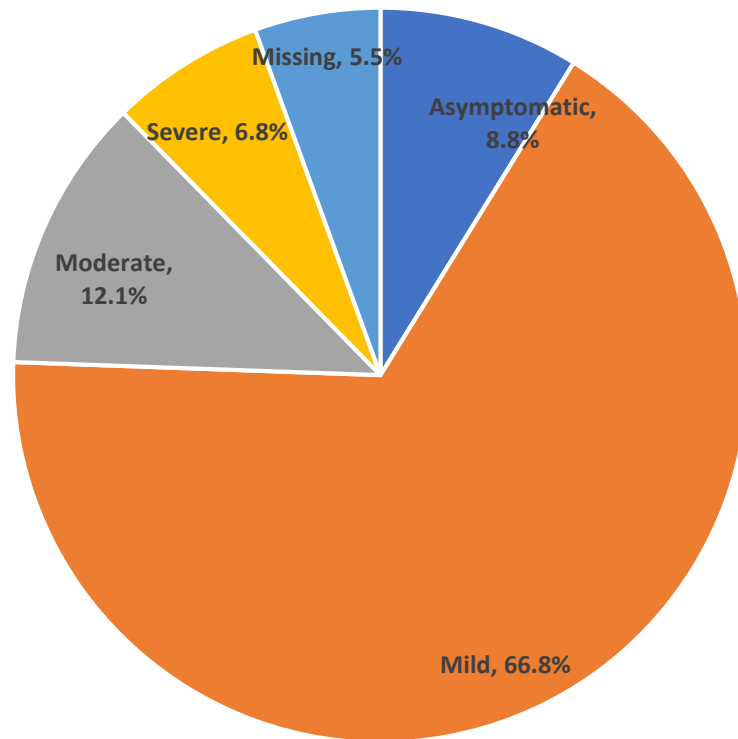


Deaths by age and sex (%) (n=10)

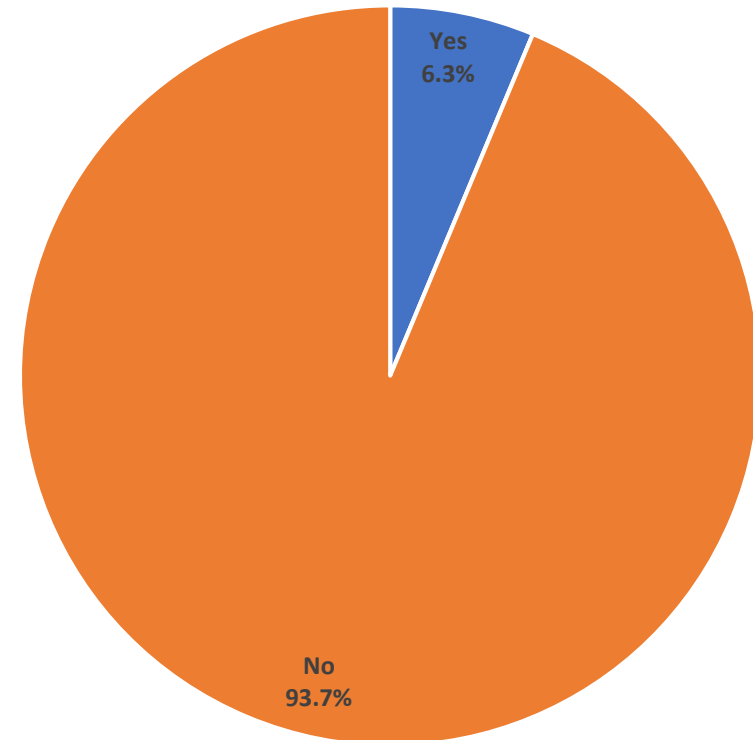


Highlights: COVID-19

Severity of reported cases at presentation (n=397)



Did the case report at least 1 co-morbidity (n=397)



Source: Go.Data

Highlights: COVID-19 Contact Tracing

- Total 397 (out of 399) confirmed cases have been investigated by Rapid Investigation and Response Team (RIRT) and captured through go.data.
- Total 1,532 contacts have been identified and registered for follow up
- Out of those, 1,285 (84%) contacts have been completed the follow up
- Thirteen (13) contacts (1%) tested positive during follow up period
- Average number of contacts is ~4 per positive case
- No geo clusters have been found out in camps

EWARS Reporting Updates

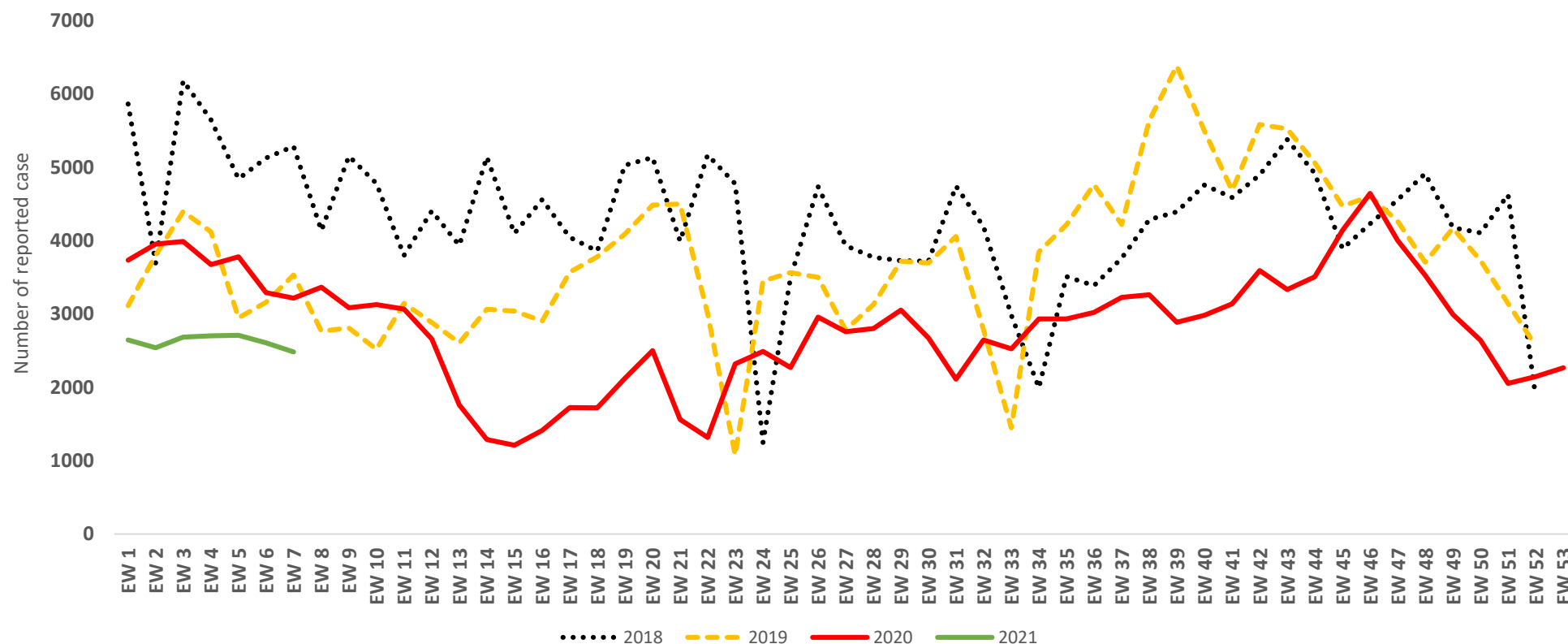
- Total 170/175 (97%) health facilities registered in EWARS
- Only 120/170 weekly reports received in week 7
- Completeness and Timeliness for this week is 71%
- Fifty-two (52) alerts were triggered in week 7
- All alerts were reviewed and verified by WHO EWARS team, the number was less than that of previous week (68 in week 6).

Highlights:

- Acute Respiratory Infection (19.1%), Diarrheal Diseases (4.2%) & Unexplained Fever (1.2%) are the diseases with highest proportional morbidity in week 7.
- Suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020. Seventy (70) suspected SARI deaths have been reported so far and reviewed subsequently by Rapid Investigation and Response Team (RIRT) for COVID-19.
- Total 9 SARI deaths were considered as death due to probable COVID-19 till date.

Diarrhoeal Disease

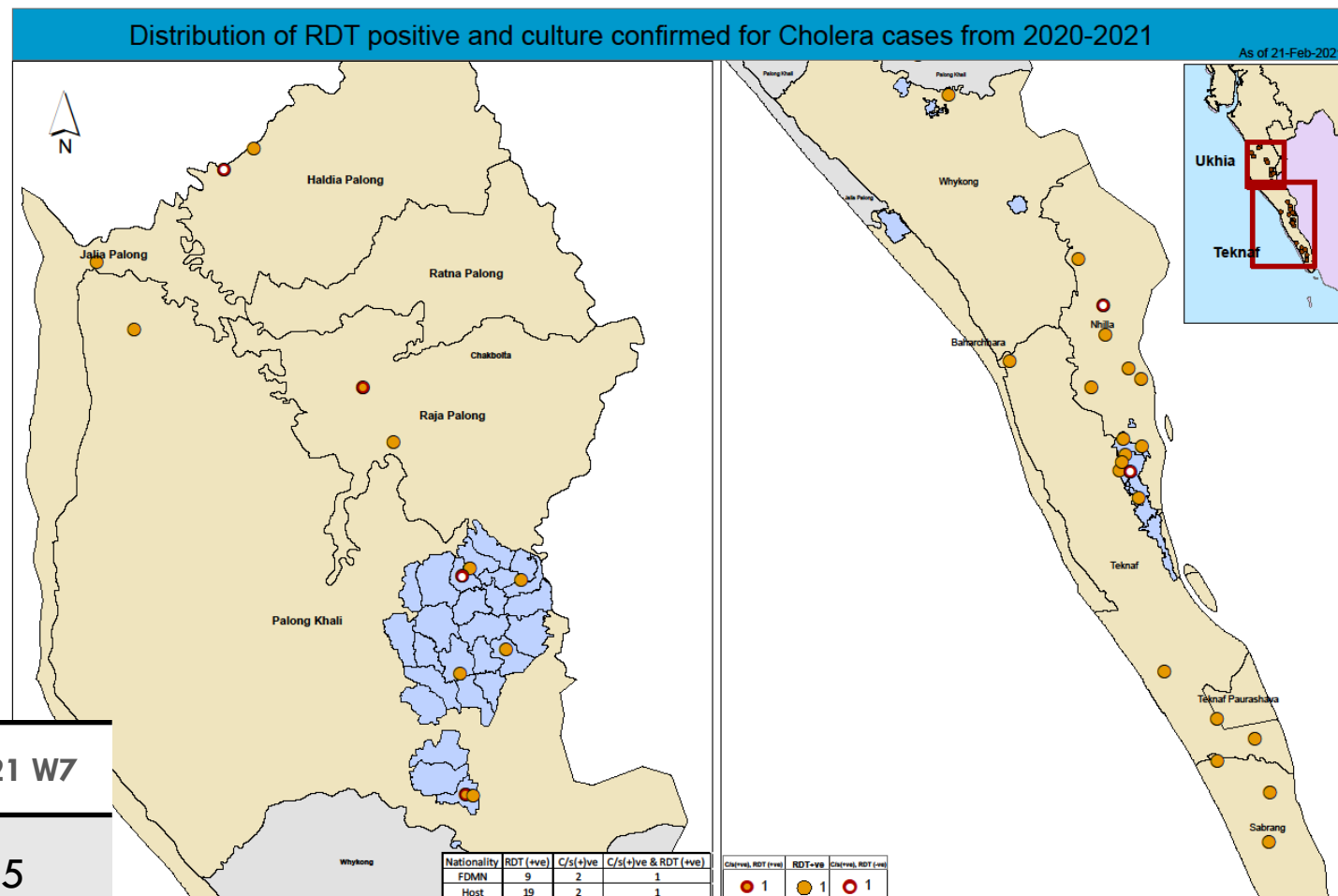
Total number of AWD case reported in EWARS from 2018-2021 W7



- A total of 2,572 cases of diarrhoeal diseases reported in EWARS in week 7.
- Among which 1,702 cases (2.5%) reported as acute watery diarrhoea (AWD), remaining 632 (0.9%) and 238 (0.3%) cases as other and bloody diarrhea, respectively.

Cholera Surveillance

- Total six (6) Cholera RDT positive/culture cases reported as of W7 2021. Out of those 1 was confirmed and remaining five were discarded by culture.
- 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 W7
RDT positive for Cholera	49	258	28	5
Culture Confirmed for Cholera	7	184	5*	1

*3 culture confirmed cases were RDT negative in 2020

Diphtheria

Five (5) suspected diphtheria cases were reported in go.data in week 7

A total of 9 227 case-patients were reported since 2017 to till date

- Confirmed = 343
- Probable = 2 802
- Suspected = 6 082

Total case reported in 2021 = 41

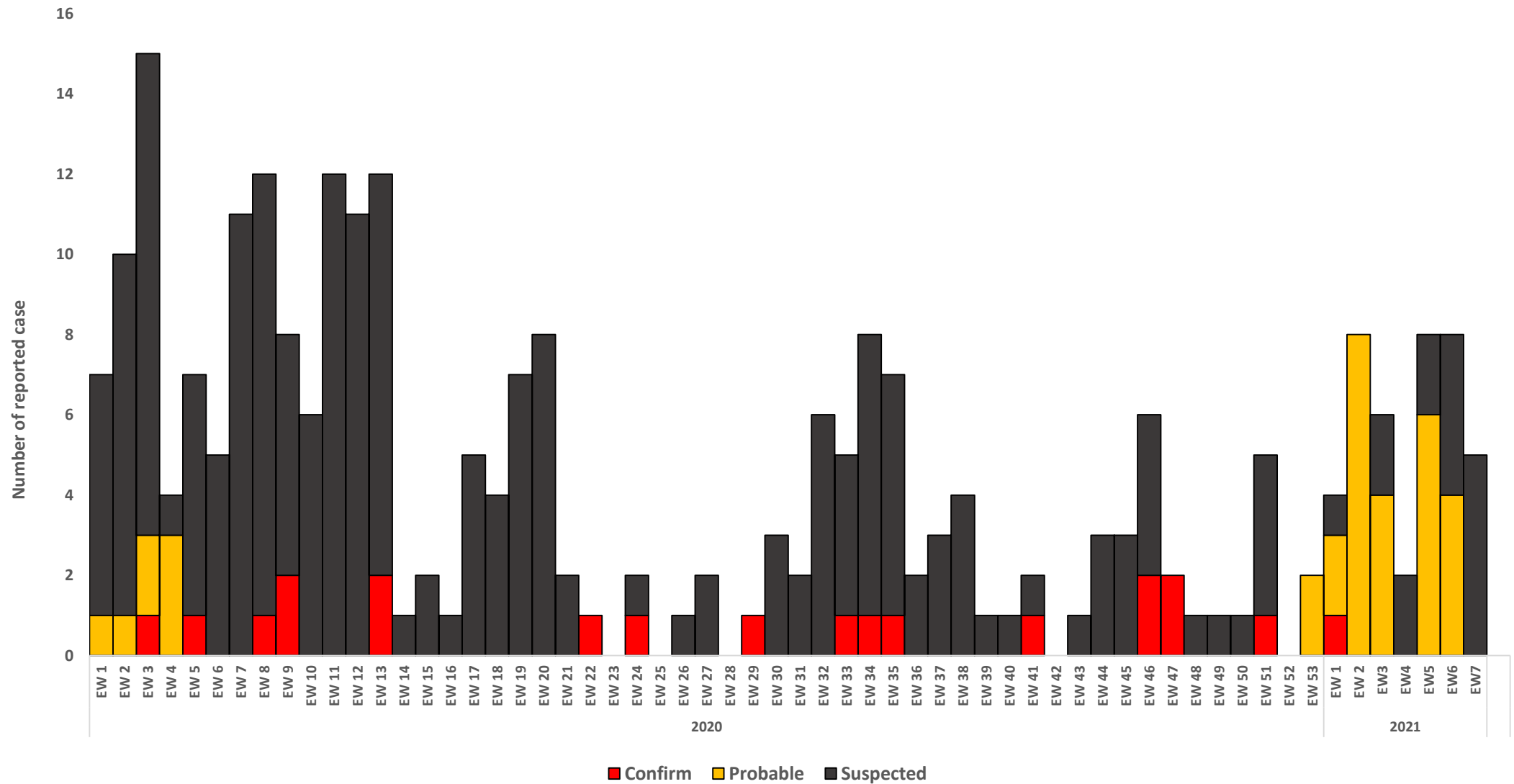
- Confirmed = 1
- Probable = 24
- Suspected = 16

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

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

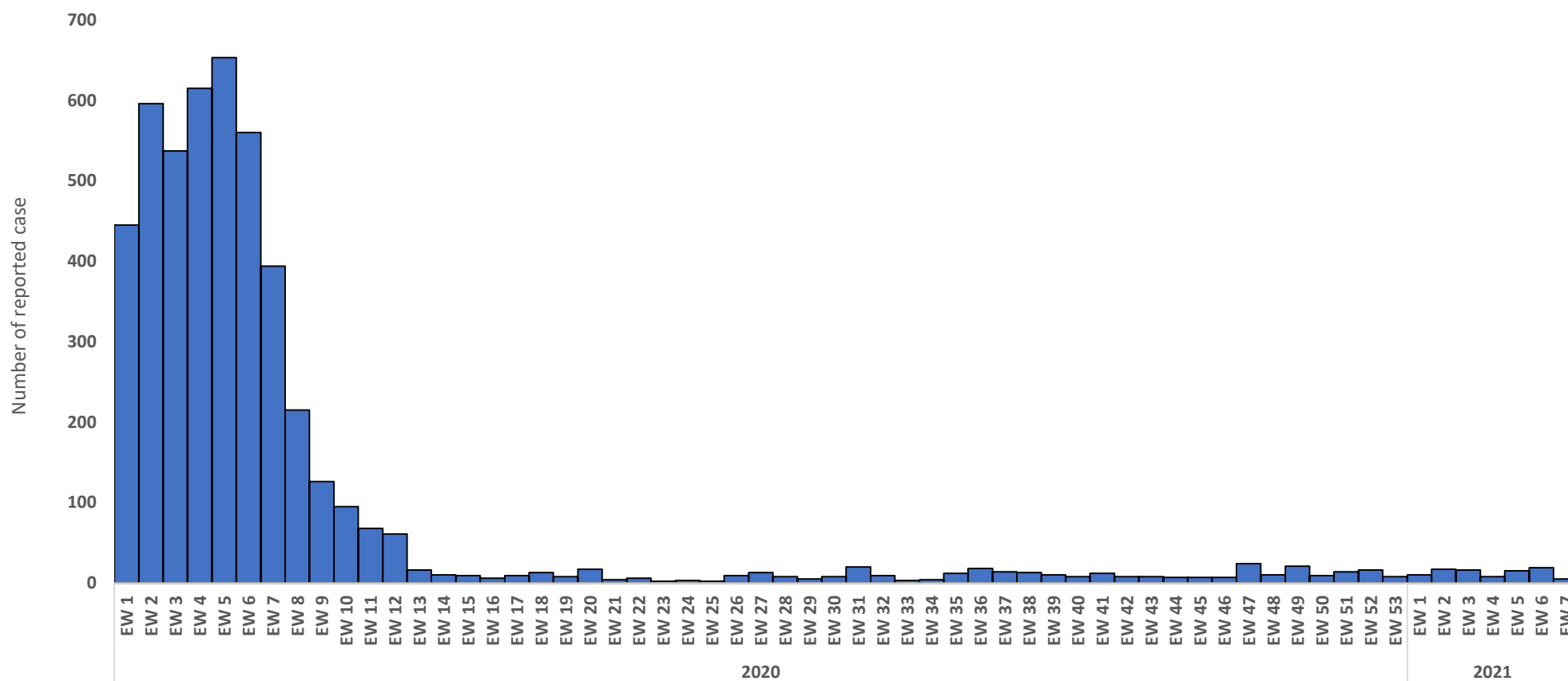
Diphtheria

Total number of diphtheria case reported in EWARS from 2020- 2021 W7



Measles

Total number of Measles case reported in EWARS from 2020- 2021 W7



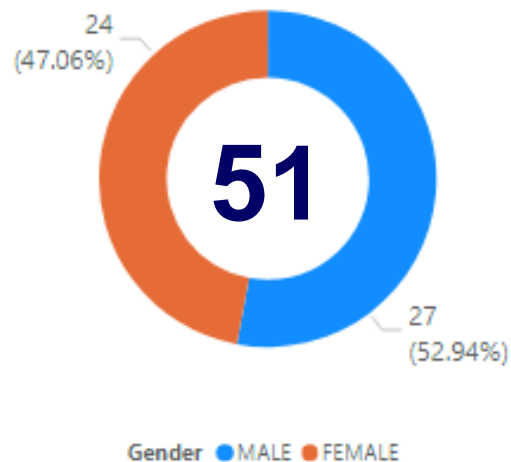
In week 7, 5 suspected measles cases were reported through weekly reporting. In total 90 cases reported in 2021, out of those 84 cases reported through case-based surveillance and samples collected for laboratory confirmation.

Community-based Mortality surveillance

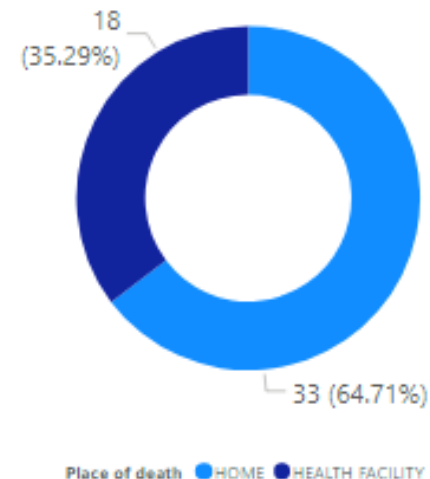
- In week 7, 51 deaths were recorded
 - 65% (n=33) were due to causes classified as “Others”
 - 14% (n=7) as still birth (Born Dead)
 - 12% (n=6) as neonatal (<28 days old)
 - 6% (n=3) as maternal Death
 - 4% (n=2) as Severe Acute Respiratory Illness
- Out of reported deaths, 35.3% occurred in health facilities and 64.7% at homes
- Partners to report all mortalities into EWARS platform using both case and event-based reporting as applicable.

Community-based Mortality Surveillance

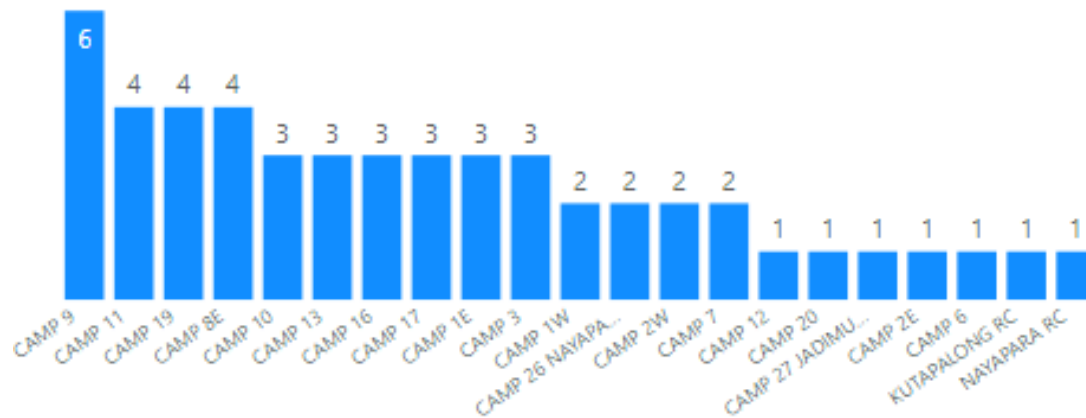
Gender Distribution (n=51)



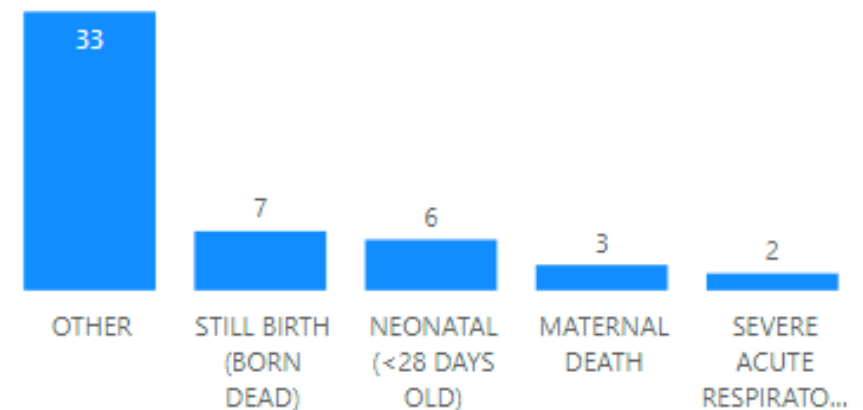
Place of Death (n=51)



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W7 2021



Ministry of Health and Family
Welfare Bangladesh



World Health
Organization



HEALTH SECTOR
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Contents

Highlights

Slide 1	Table 1 Coverage
	Table 2 Early warning performance
	Table 3 Alert performance

Early Warning

Slide 2	Map 1a Ukhia completeness by site/zone
	Map 1b Teknaf completeness by site/zone
Slide 3	Table 4 Ukhia (Northern group) performance by site/zone
	Map 2 Ukhia (Northern group) completeness by site/zone
Slide 4	Table 5 Ukhia (Southern group) performance by site/zone
	Map 3 Ukhia (Southern group) completeness by site/zone
Slide 5	Table 6 Teknaf performance by site/zone
	Map 4 Teknaf completeness by site/zone
Slide 6	Table 7 Performance by partner

Alert

Slide 7	Table 8 Ukhia (Northern group) alerts by site/zone
	Map 5 Ukhia (Northern group) alerts site/zone
Slide 8	Table 9 Ukhia (Southern group) alerts by site/zone
	Map 6 Ukhia (Southern group) alerts site/zone
Slide 9	Table 10 Teknaf alerts by site/zone
	Map 7 Teknaf alerts site/zone
Slide 10	Table 11 Performance by type of alert
	Table 12 Risk Assessment

Sources of data

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

Highlights W7 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

W7	Cumulative (2021)	
120	1152	Number of weekly reports received
71%	84%	Completeness
71%	78%	Timeliness

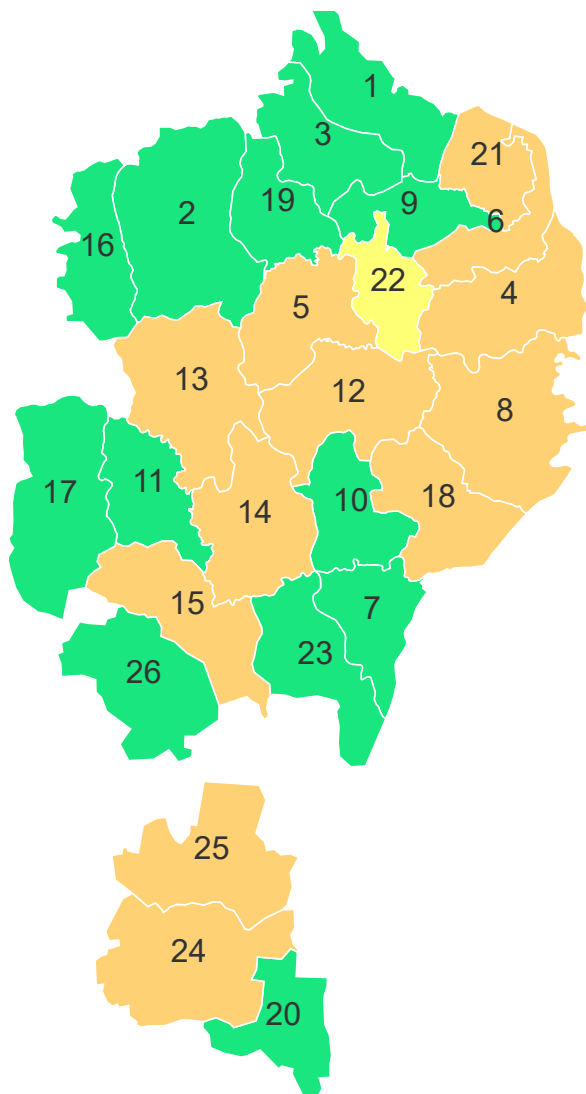
Table 3 Alert performance indicators

W7	Cumulative (2021)	
52	491	Total alerts raised
100%	100%	% verified
0%	0%	% auto-discarded
0%	0%	% undergoing risk assessment
0%	1%	% completed risk assessment

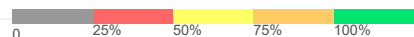
¹ Source: UNHCR. Bangladesh: Joint Government of Bangladesh- UNHCR Population Factsheet. 31 December 2020.

Map 1a | Ukhia completeness by camp

- 1 Camp 1E
- 2 Camp 4
- 3 Camp 1W
- 4 Camp 7
- 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

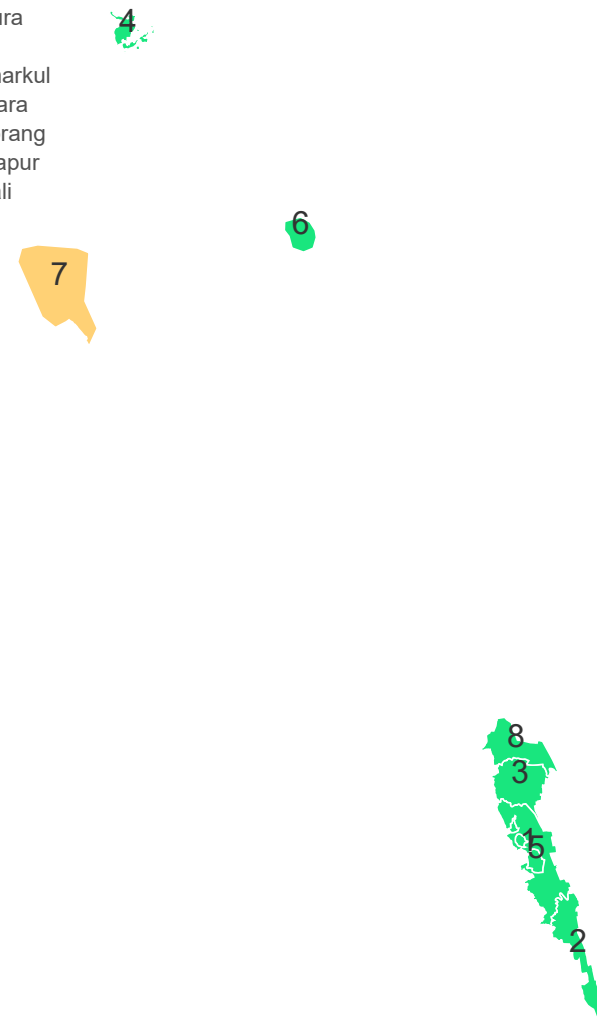


Completeness



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

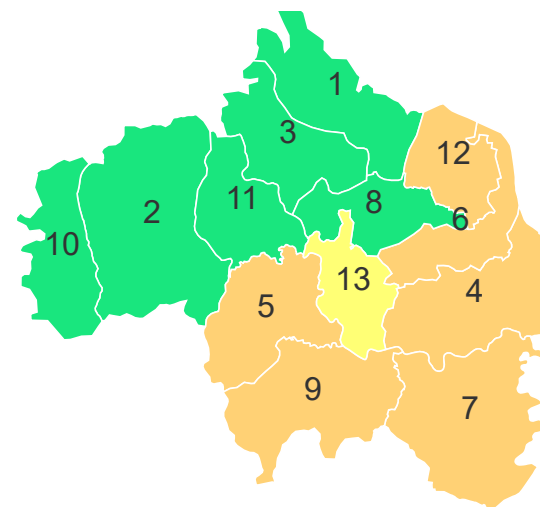


Table 4 | Performance by camp (W7 2021)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	3	75%	75%
Camp 1W	4	3	75%	75%
Camp 2E	3	2	67%	67%
Camp 2W	2	2	100%	100%
Camp 3	6	5	83%	83%
Camp 4	6	6	100%	100%
Camp 4 Ext	1	1	100%	100%
Camp 5	5	3	60%	60%
Camp 6	4	1	25%	25%
Camp 7	6	3	50%	50%
Camp 8E	7	5	71%	71%
Camp 8W	6	4	67%	67%
Kutupalong RC	2	1	50%	50%

Map 2 | Completeness by camp

- 1 Camp 1E
- 2 Camp 4
- 3 Camp 1W
- 4 Camp 7
- 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 (W7 2021)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	3	75%	75%
Camp 11	9	7	78%	78%
Camp 12	6	5	83%	83%
Camp 13	9	8	89%	89%
Camp 14	7	5	71%	71%
Camp 15	10	6	67%	67%
Camp 16	5	4	80%	80%
Camp 17	6	3	50%	50%
Camp 18	5	3	60%	60%
Camp 19	6	4	67%	67%
Camp 20	3	3	100%	100%
Camp 20 Ext	2	2	100%	100%
Camp 9	7	4	67%	67%

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

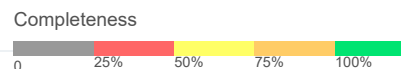
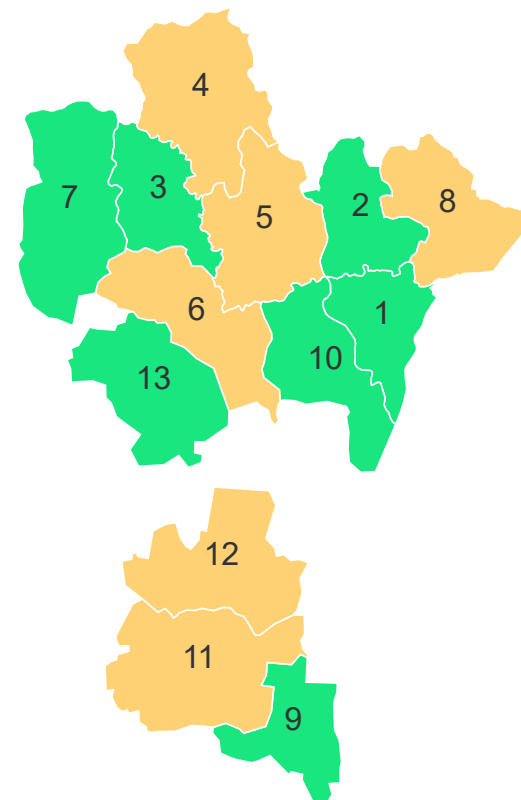


Table 6 | Performance by camp (W7 2021)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	4	3	75%	75%
Camp 22 Unchiprang	5	3	75%	75%
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	1	1	100%	100%
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

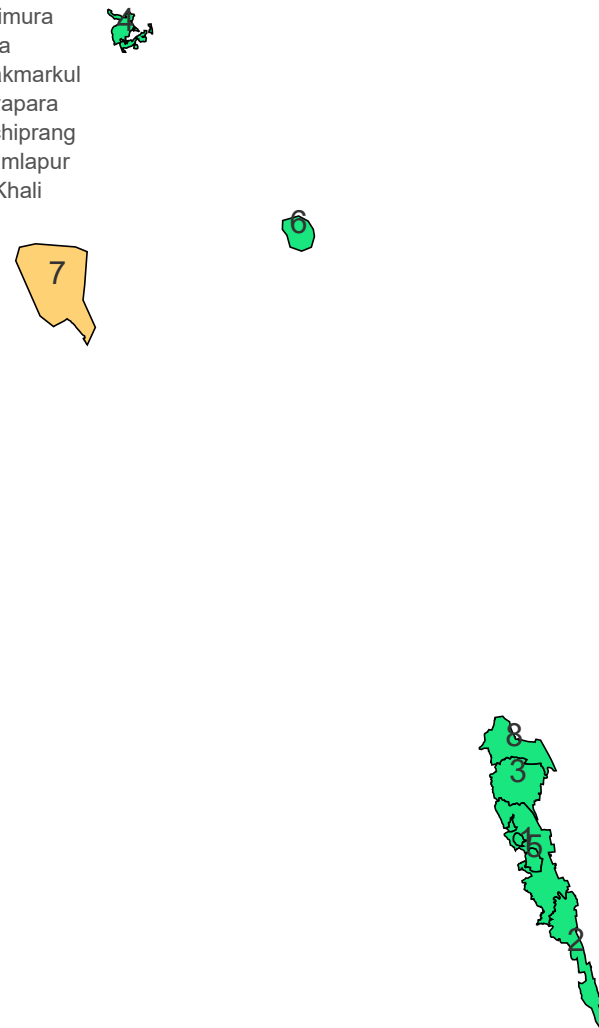


Table 7 | Performance by partner (W7 2021)

Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
BDRCS	12	7	58%	58%
BRAC	11	10	91%	91%
CARE	4	4	100%	100%
FHM	0	0		
FRNDS	12	0	0%	0%
GK	10	10	100%	100%
HMBDF	1	1	100%	100%
IOM	23	16	70%	70%
IRC	2	2	100%	100%
MSF	9	4	44%	44%
MoH	7	0	0%	0%
Hope	4	4	100%	100%
Medair	2	2	100%	100%

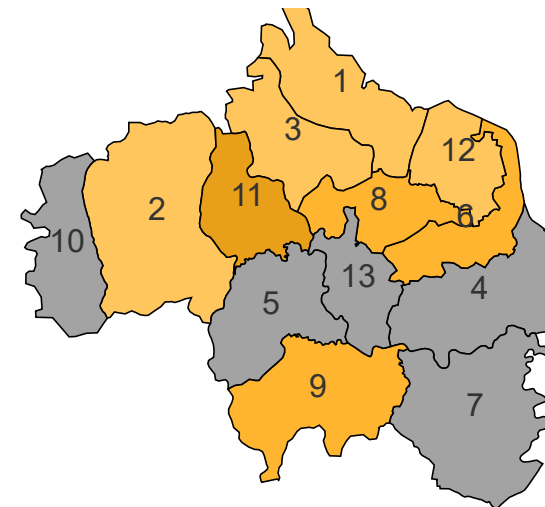
Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
FH/MTI	3	3	100%	100%
PHD	8	8	100%	100%
PWJ	1	1	100%	100%
RHU	3	3	100%	100%
RI	3	3	100%	100%
RTMI	11	4	36%	36%
SCI	9	9	100%	100%
TdH	1	1	100%	100%

Table 8 | Performance by camp

Northern group	W7		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	2	100%	10	100%
Camp 1W	2	100%	24	100%
Camp 2E	3	100%	35	100%
Camp 2W	3	100%	16	100%
Camp 3	6	100%	34	100%
Camp 4	2	100%	14	100%
Camp 4 Ext	0	0%	5	100%
Camp 5	0	0%	25	100%
Camp 6	0	0%	16	100%
Camp 7	0	0%	6	100%
Camp 8E	0	0%	6	100%
Camp 8W	3	100%	31	100%
Kutupalong RC	1	100%	5	100%

Map 5 | Number of alerts by camp

- 1 Camp 1E
- 2 Camp 4
- 3 Camp 1W
- 4 Camp 7
- 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

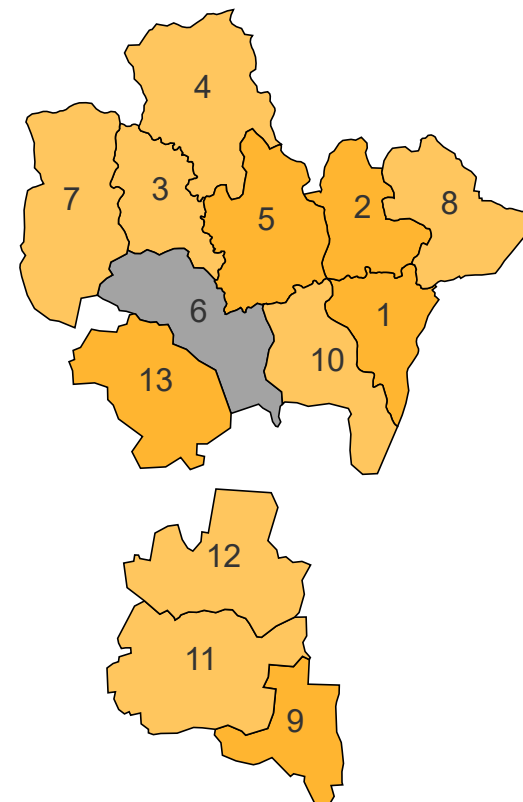


Table 9 | Performance by camp

Southern group	W7		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	3	100%	21	100%
Camp 11	3	100%	17	100%
Camp 12	1	100%	19	100%
Camp 13	3	100%	19	100%
Camp 14	1	100%	11	100%
Camp 15	1	100%	12	100%
Camp 16	3	100%	22	100%
Camp 17	2	100%	13	100%
Camp 18	3	100%	26	100%
Camp 19	0	0%	5	100%
Camp 20	2	100%	11	100%
Camp 20 Ext	1	100%	10	100%
Camp 9	1	100%	25	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

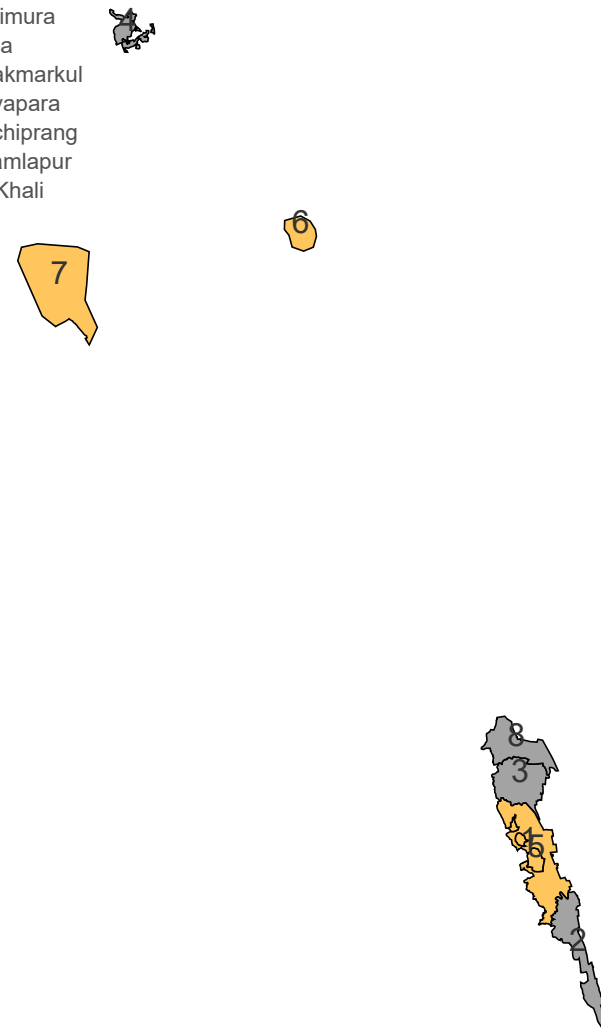


Table 10 | Performance by camp

Teknaf	W7		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	0	0%	4	100%
Camp 22 Unchiprang	1	100%	6	100%
Camp 23 Shamlapur	1	100%	5	100%
Camp 24 Leda	0	0%	9	100%
Camp 25 Ali Khali	0	0%	2	100%
Camp 26 Nayapara	2	100%	15	100%
Camp 27 Jadimura	0	0%	2	100%
Nayapara RC	1	100%	6	100%

Map 7 | Number of alerts 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



of alerts



Table 11 | Performance by type of alert

Event	W7		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	5	100%	66	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	3	100%
Meningitis	1	100%	6	100%
Haem. fever (susp.)	0	0%	1	100%
NNT	0	0%	0	0%
Unexp. fever	5	100%	20	100%
AWD	3	100%	36	100%
ARI	3	100%	38	100%
AJS	0	0%	6	100%
Varicella (Susp.)	2	100%	4	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	2	100%	27	100%

Table 12 | Risk assessment

W7	Cumulative (2021)	
0	5	Low risk
0	1	Moderate risk
0	1	High risk
0	0	Very high risk

For more help and support, please contact:

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National Professional Officer (Disease Surveillance &
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World Health Organization
Cox's Bazar, Bangladesh
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.

More information can be found at <http://ewars-project.org>

Sign up for an account with EWARS Bangladesh at <http://bd.ewars.ws>



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HEALTH SECTOR
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Global
EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Annex W7 2021



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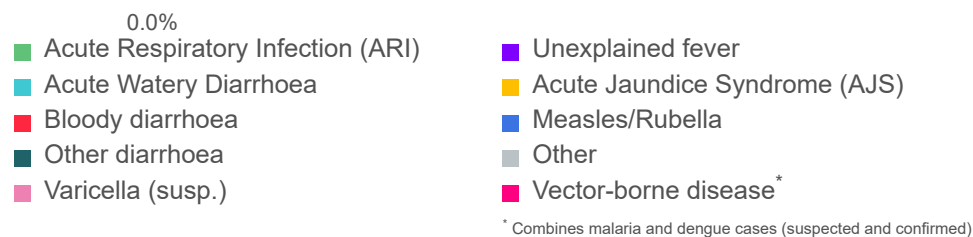
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Proportional morbidity

Figure 1 | Proportional morbidity (W7 2021)



Disease	W7		2021	
	# cases	% morbidity	# cases	% morbidity
AWD	1,702	2.5%	19,446	2.8%
Bloody diarr.	238	0.3%	2,755	0.4%
Other diarr.	632	0.9%	6,644	1.0%
Susp. Varicella	147	0.2%	574	0.1%
ARI	13,040	19.1%	135,873	19.8%
Measles/Rub.	5	0.0%	96	0.0%
AFP	0	0.0%	2	0.0%
Susp. menin.	2	0.0%	13	0.0%
AJS	2	0.0%	76	0.0%
Susp. HF	0	0.0%	0	0.0%
Neo. tetanus	0	0.0%	0	0.0%
Adult tetanus	0	0.0%	0	0.0%
Malaria (conf.)	0	0.0%	1	0.0%
Malaria (susp.)	0	0.0%	10	0.0%
Dengue (conf.)	0	0.0%	0	0.0%
Dengue (susp.)	0	0.0%	0	0.0%
Unexpl. fever	825	1.2%	6,053	0.9%
Sev. Malnut.	33	0.0%	252	0.0%
Inj./Wounds	1,775	2.6%	17,892	2.6%
Other	49,985	73.1%	496,334	72.3%
Total	67,589	100%	686,234	100%

Trend in consultations and key diseases

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

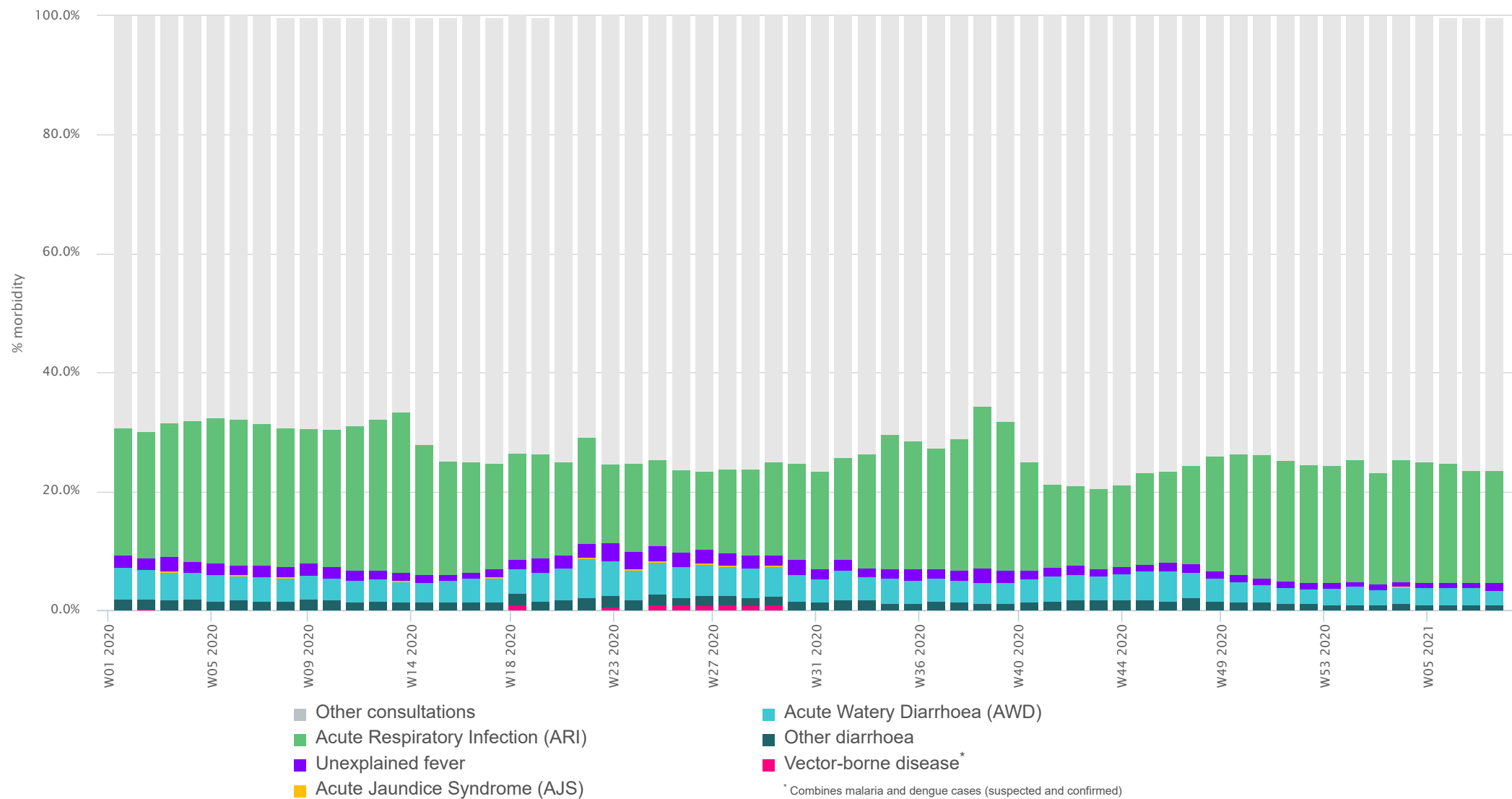
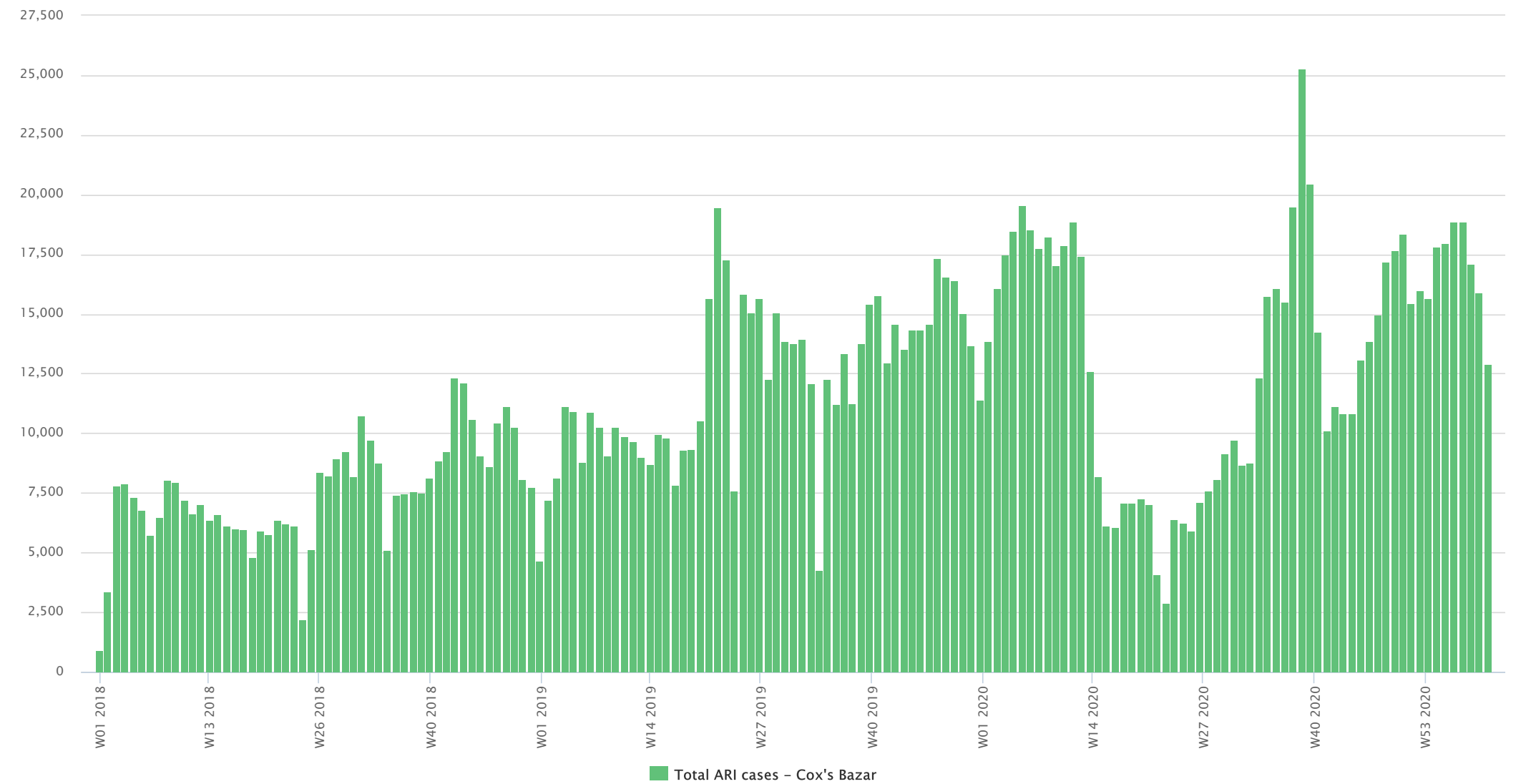


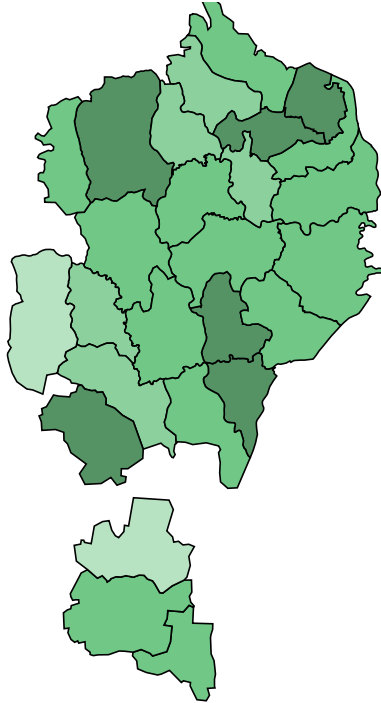
Figure 3 | Trend in number of cases over time (W38 2017 - W7 2021)



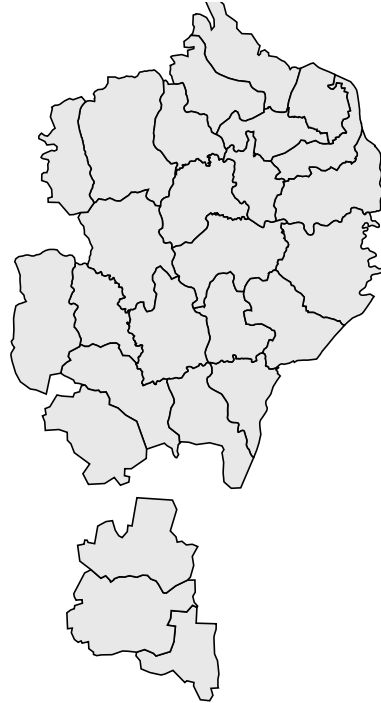
Total ARI cases - Cox's Bazar

Map 1 | Map of cases by camp (W7 2021)

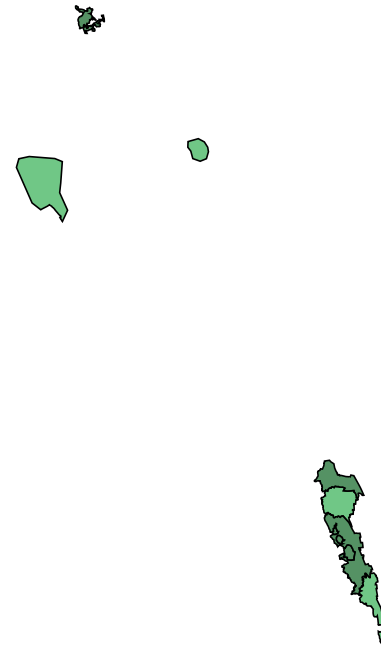
a. Ukhia | Number of cases



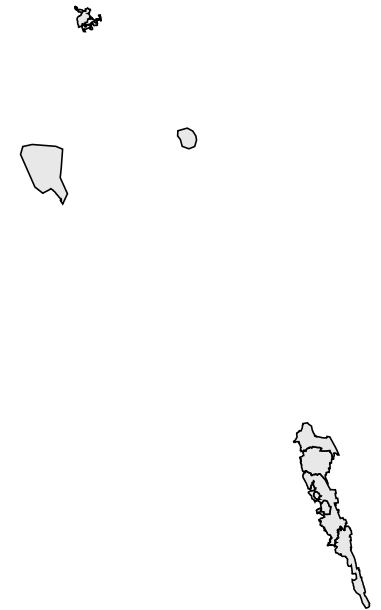
b. Ukhia | Number of alerts



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 (W7 2021)

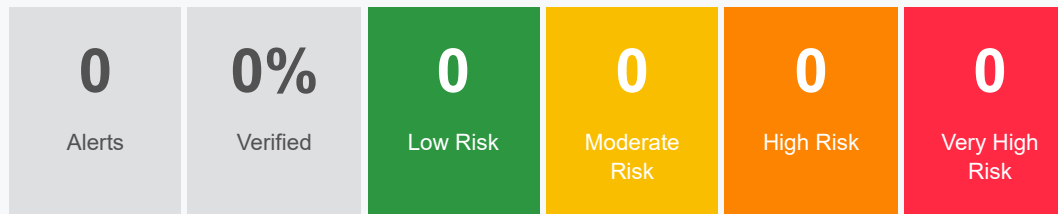
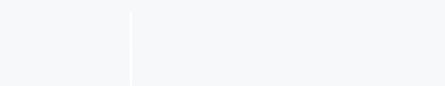


Figure | % sex



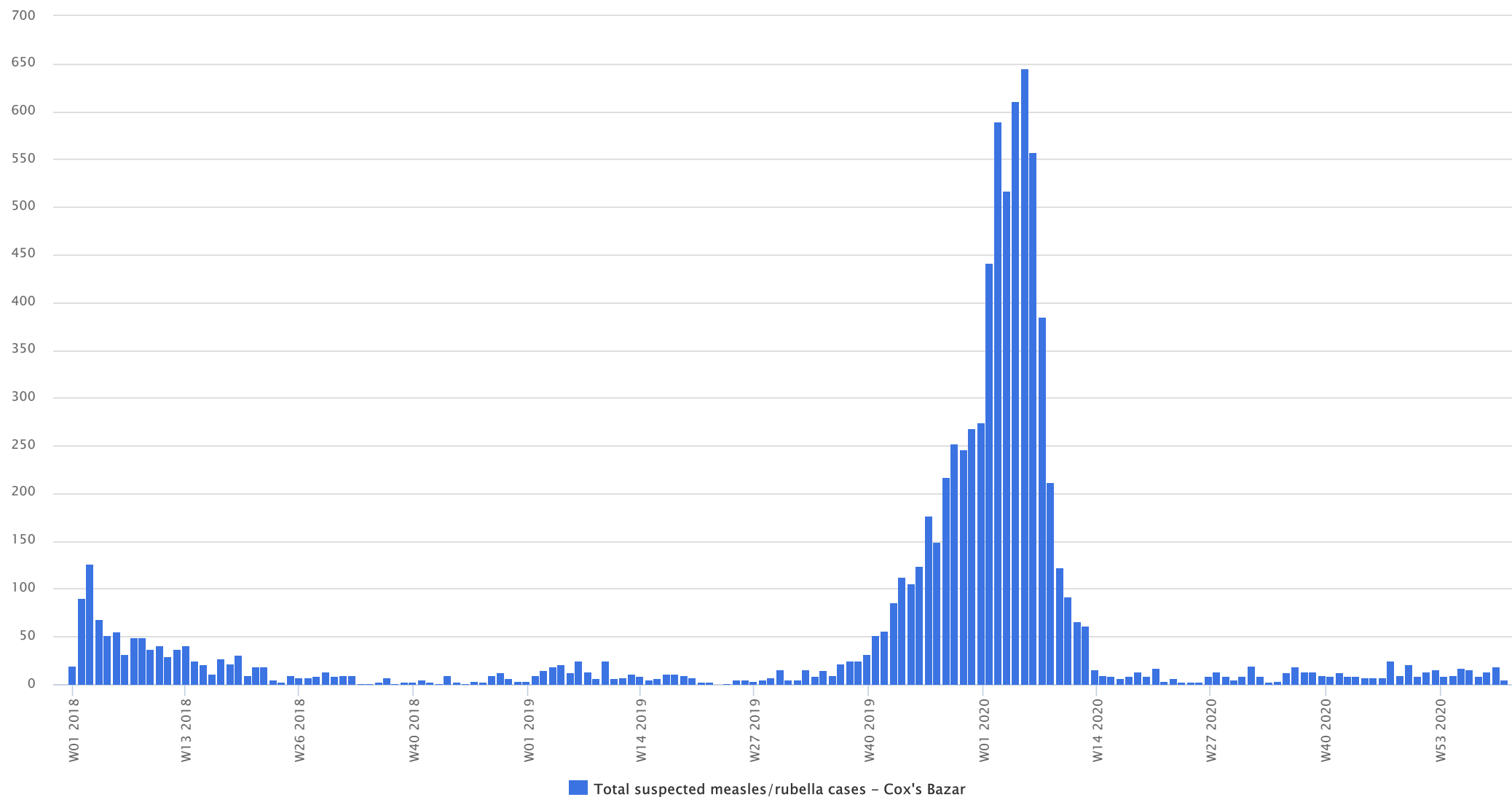
Male Female

Figure | % age



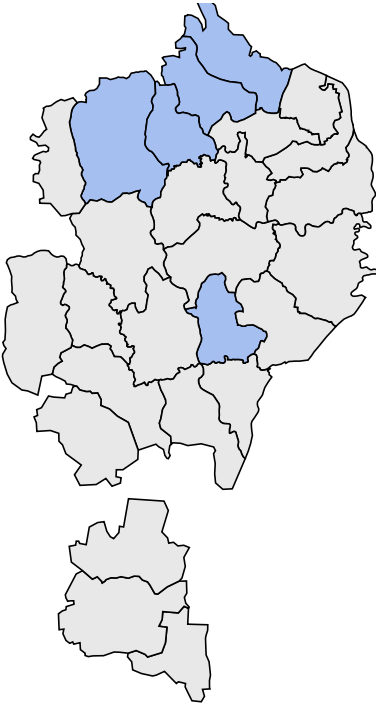
>=5 <5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W7 2021)

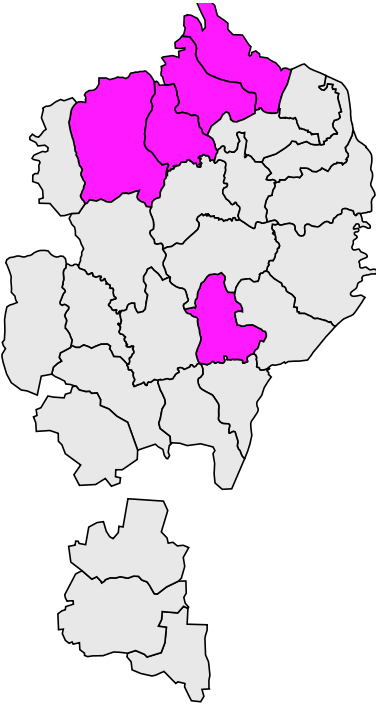


Map 2 | Map of cases by camp (W7 2021)

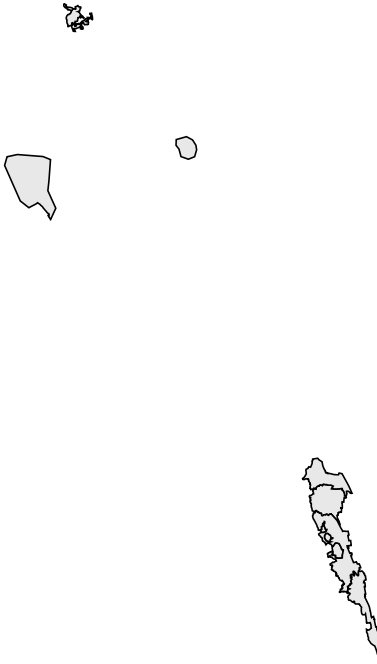
a. Ukhia | Number of cases



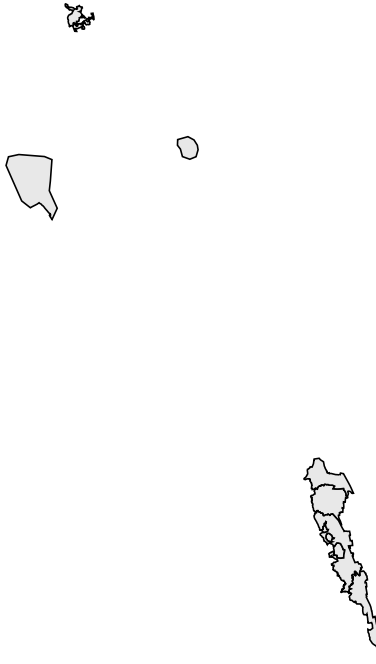
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend

Number of cases

0 1 10 20 50

Number of alerts

0 1 10

Alert threshold

1 case. Source: IEDCR

Alert management (W7 2021)

5	100%	0	0	0	0
Alerts	Verified	Low Risk	Moderate Risk	High Risk	Very High Risk

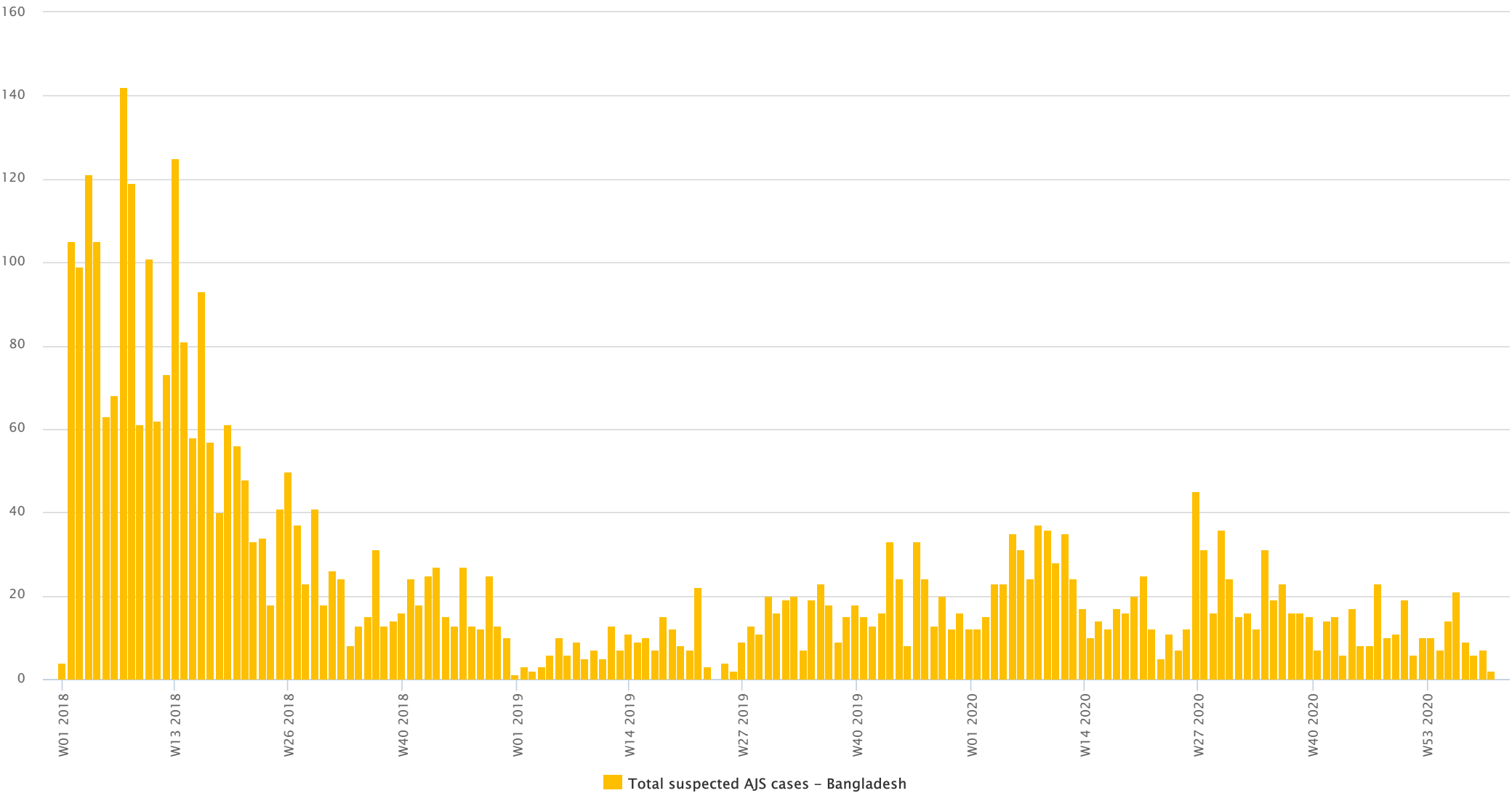
Figure | % sex

Male	Female

Figure | % age

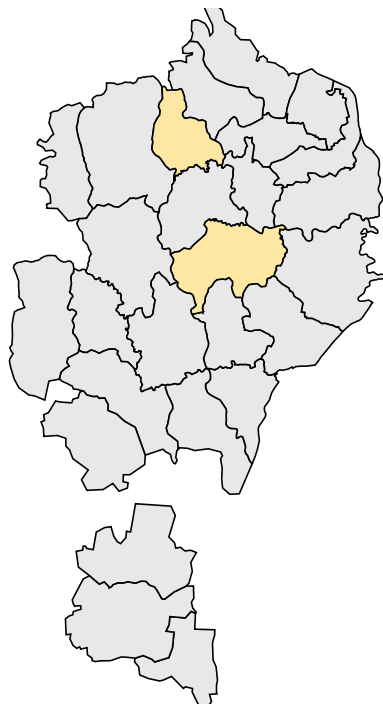
>= 5	< 5

Figure 5 | Trend in number of cases over time (W38 2017 - W7 2021)

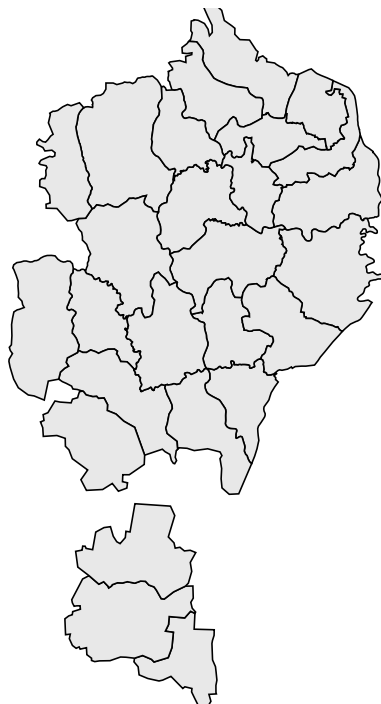


Map 3 | Map of cases by camp (W37 2017 - W7 2021)

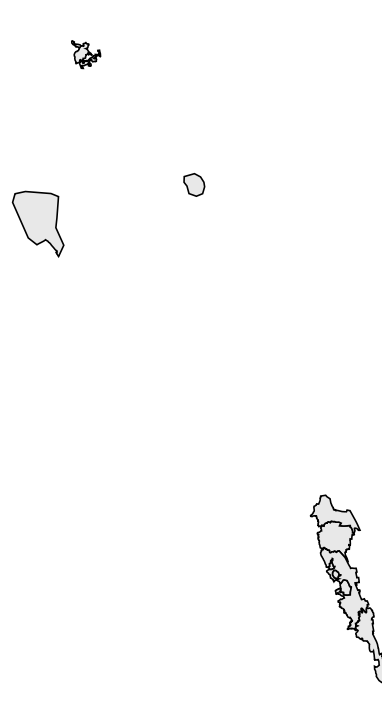
a. Ukhia | Number of cases



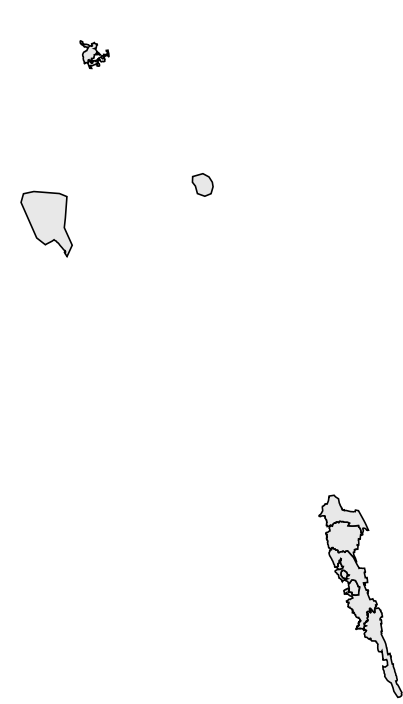
b. Ukhia | Number of alerts



c. Teknaf | Number of cases

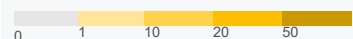


d. Teknaf | Number of alerts



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 (W7 2021)

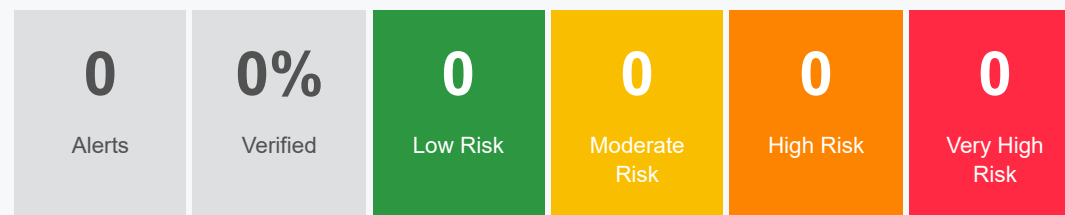


Figure | % sex



Male Female

Figure | % age



>= 5 < 5

Figure 6 | Trend in number of cases over time (W38 2017 - W7 2021)

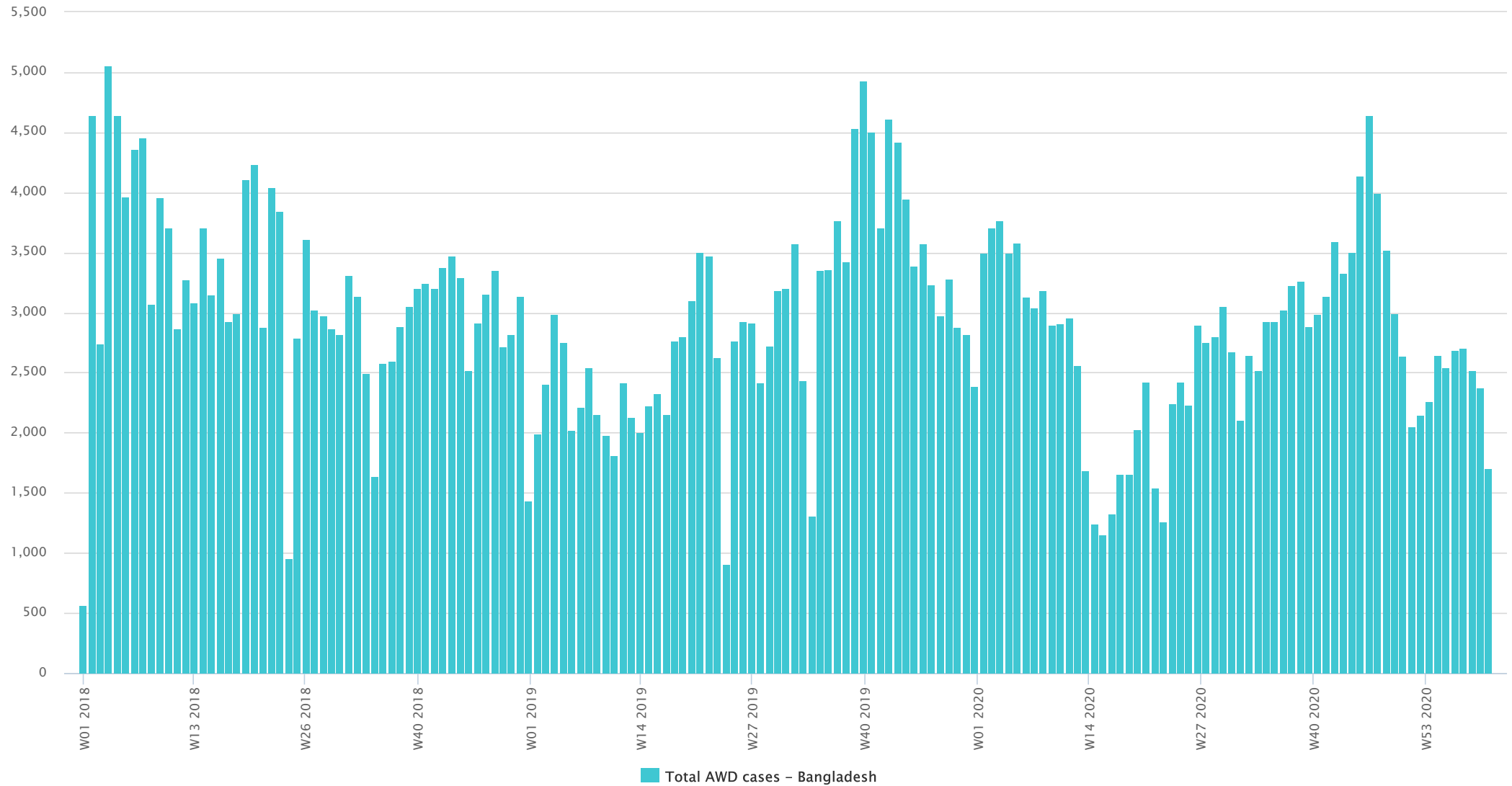
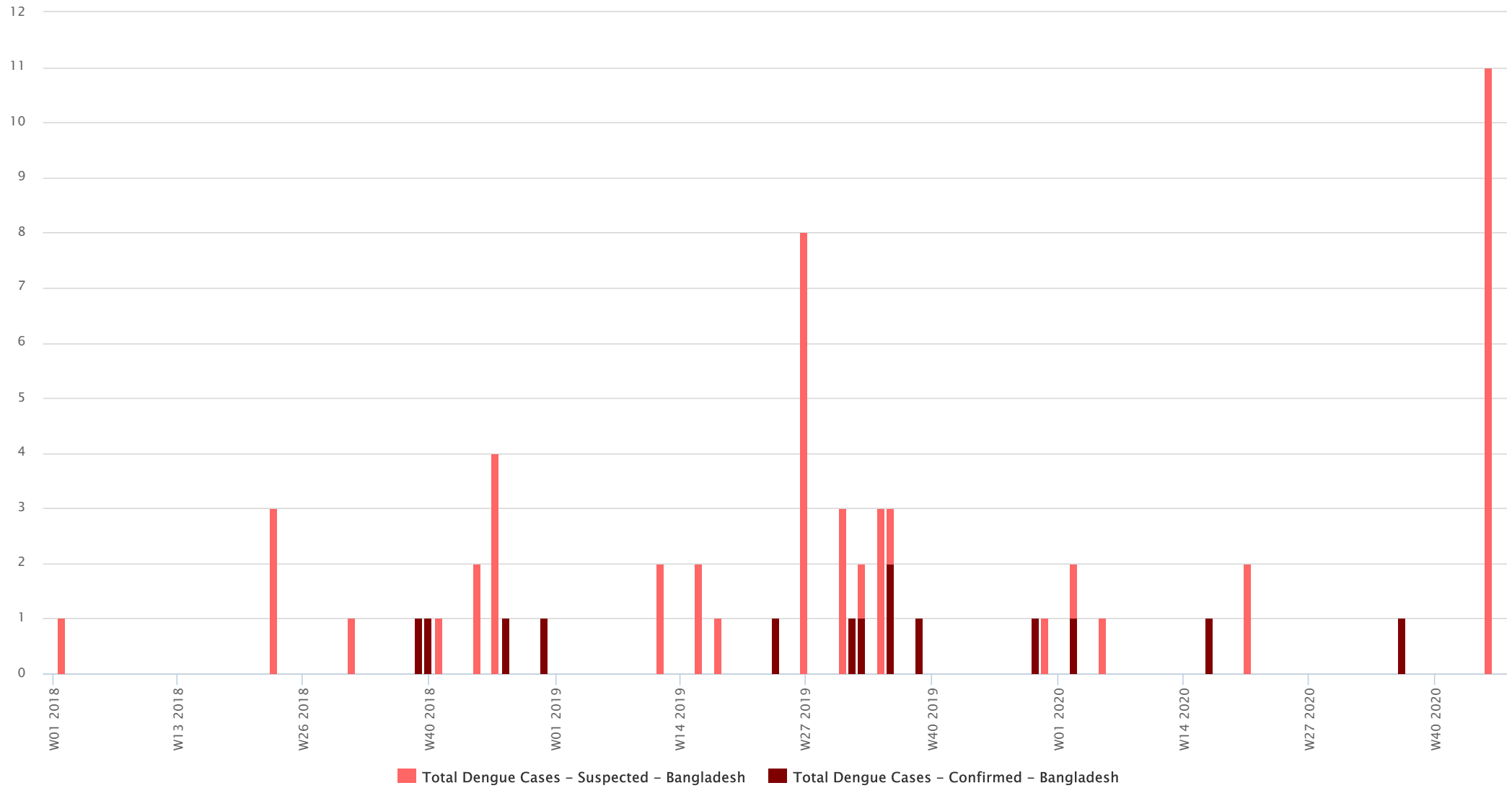


Figure 7 | Trend in number of cases over time (W38 2017 - W7 2021)



Map 4 | Map of cases by camp (W37 2017 - W7 2021)

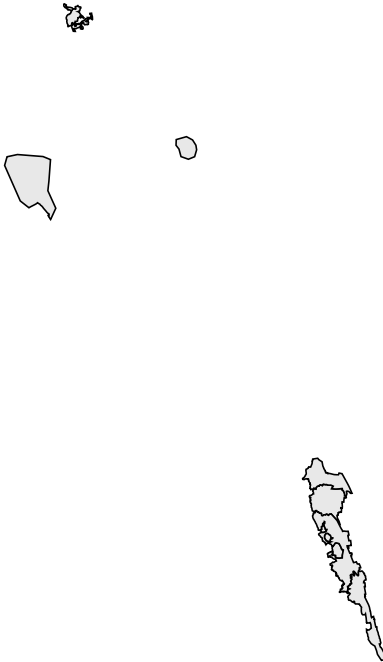
a. Ukhia | Number of cases



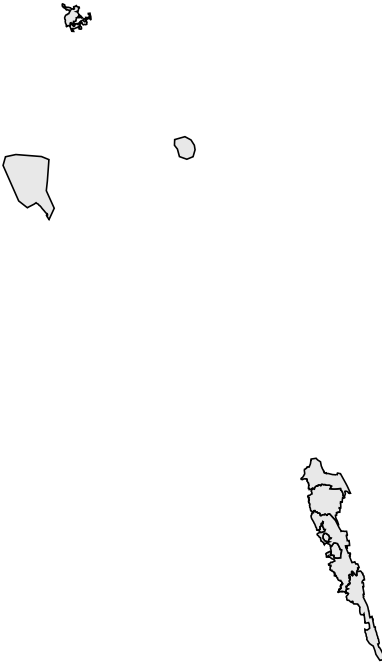
b. Ukhia | Number of alerts



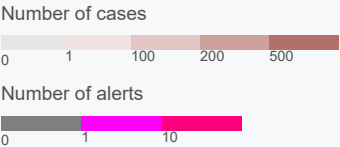
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

Twice the average number of cases over the past 3 weeks. *Source: IEDCR*

Alert management (W7 2021)

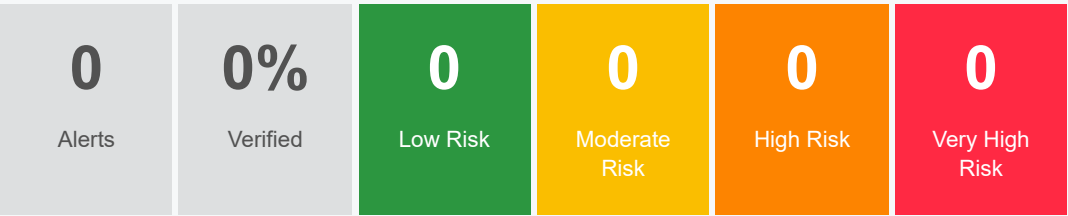


Figure | % sex

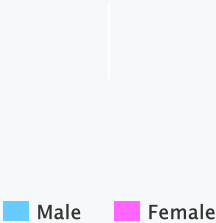


Figure | % age

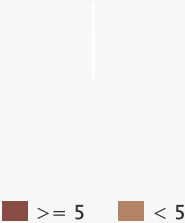
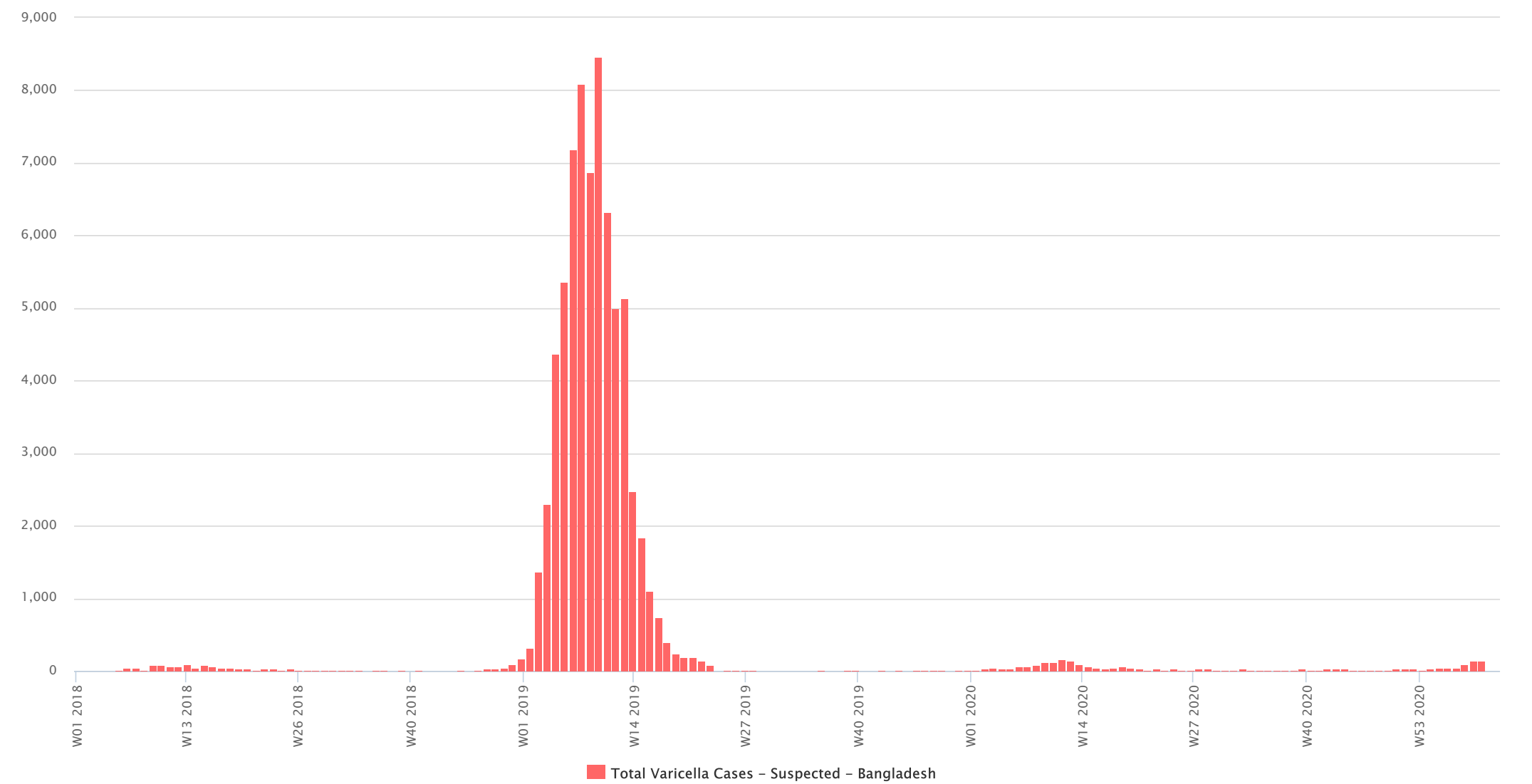
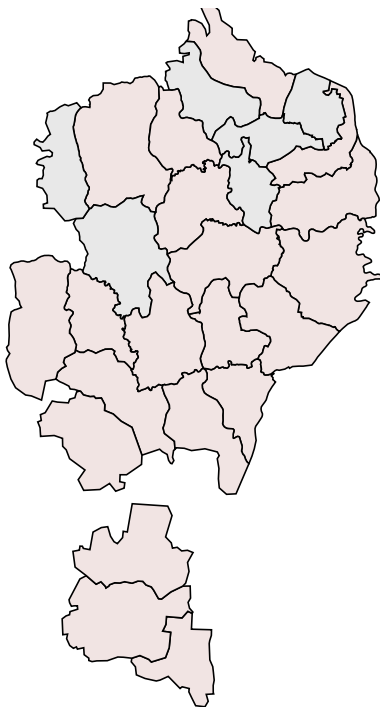


Figure 7 | Trend in number of cases over time (W38 2017 - W7 2021)

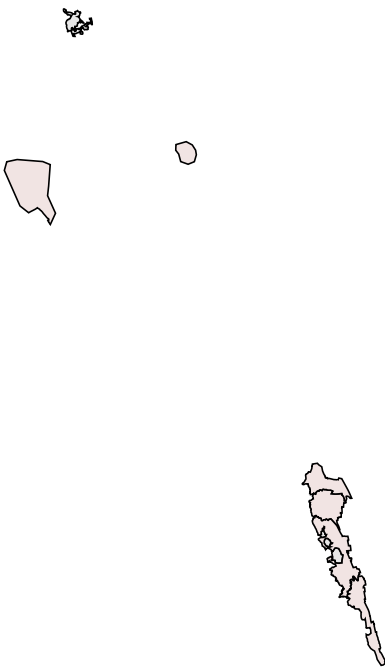


Map 4 | Map of cases by camp (W37 2017 - W7 2021)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

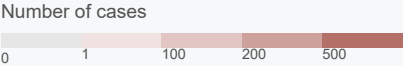


Figure | % sex



Figure | % age



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>

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