



# Epidemiological Highlights

Week 10 (8-14 March 2021)



**World Health  
Organization**

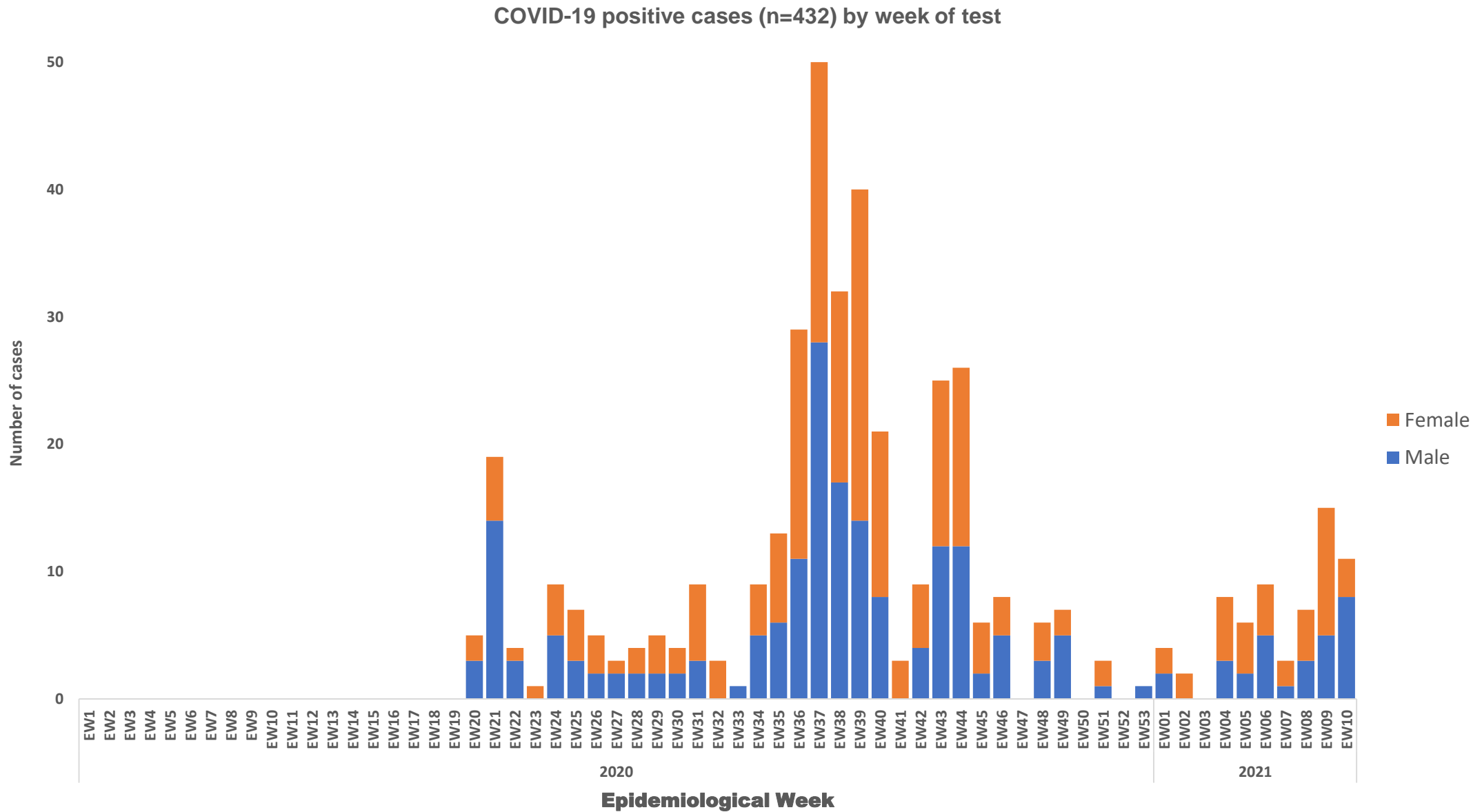
# Highlights: COVID-19

- As of week 10, (8 – 14 Mar 2021) there are 432 confirmed cases of COVID-19 (SARS-CoV-2), 32 443 samples were tested.
- This week (week 10), 11 new confirmed cases detected, 955 samples were tested, test positivity was 1.6%.

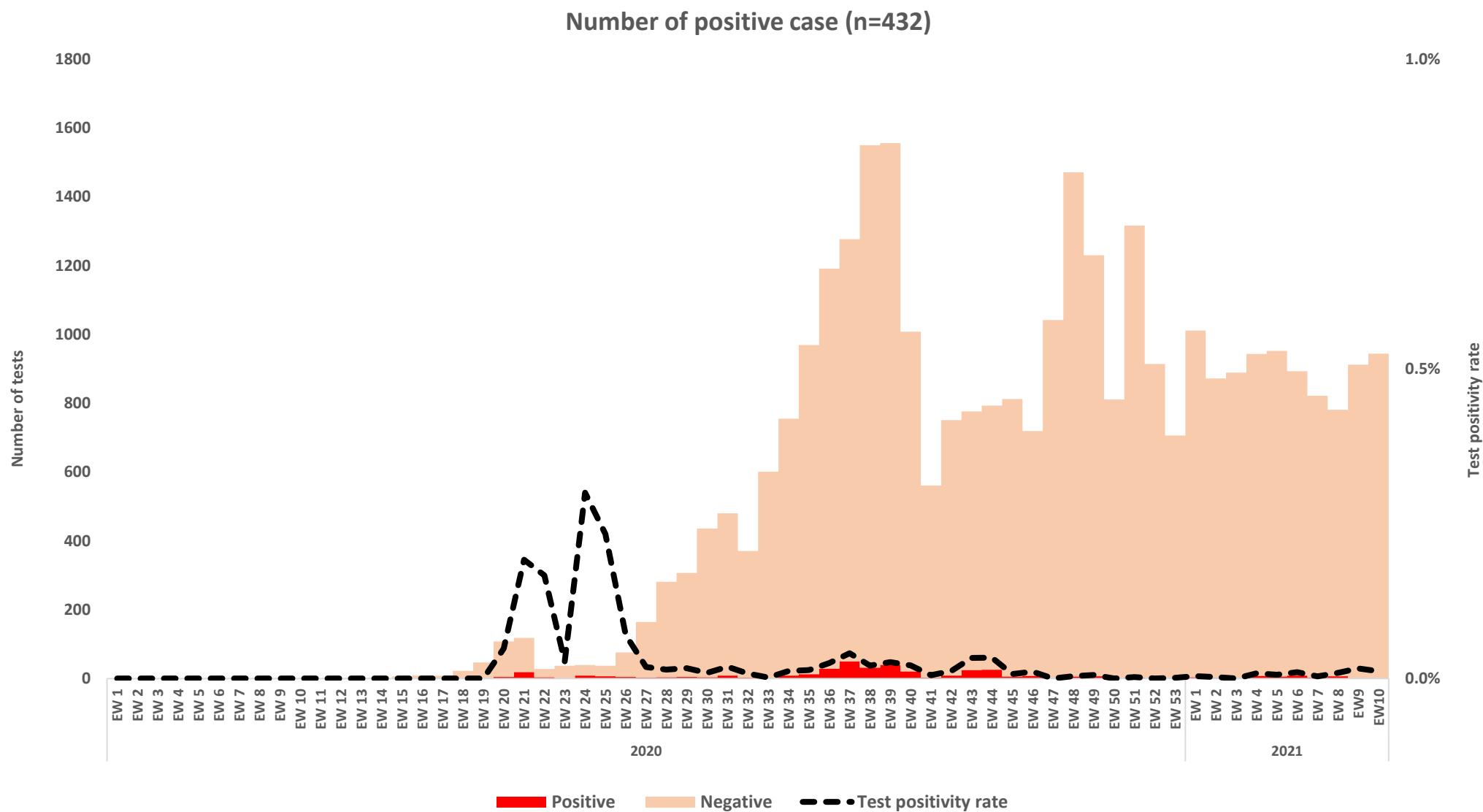
## As of this week (week 10)

- 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 (C24-60, C2W-43, C3-33, C15-28, C6-25)
- A total of 10 deaths from COVID-19 with the case fatality rate 2.3%
- The incidence is 50.2 per 100,000 people with the growth rate 0.4%
- The overall positivity of all samples tested was 1.3%

# Highlights: COVID-19

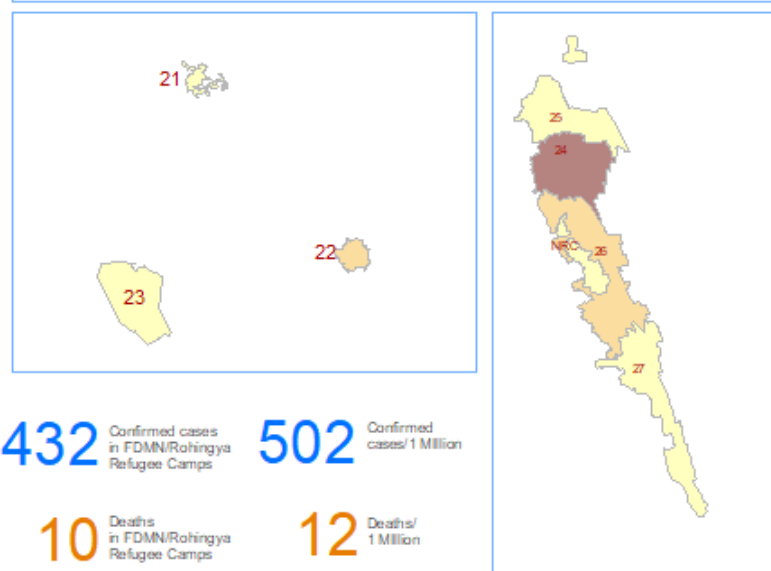
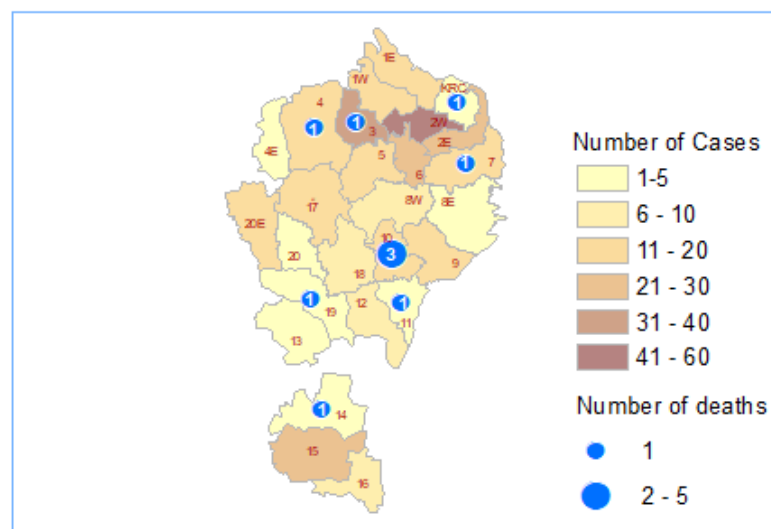


# Highlights: COVID-19

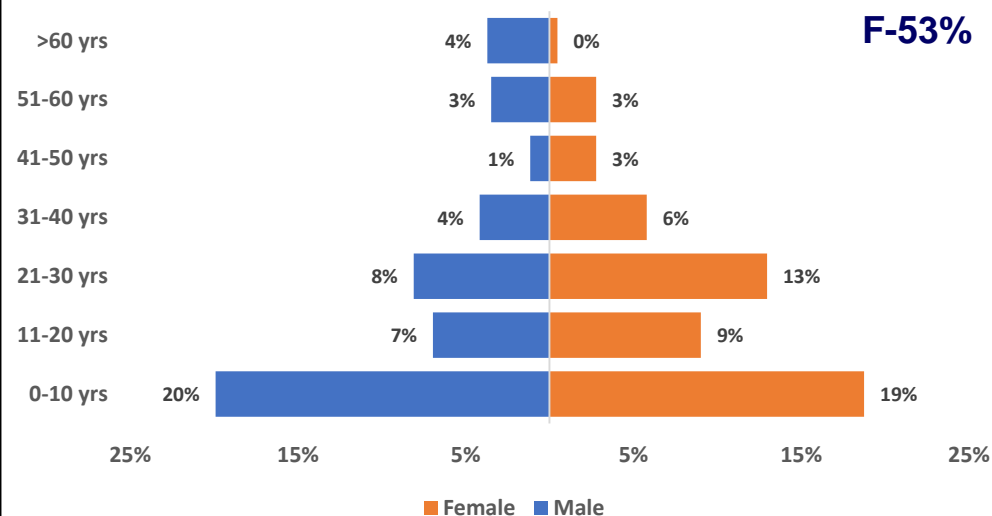


# Highlights: COVID-19

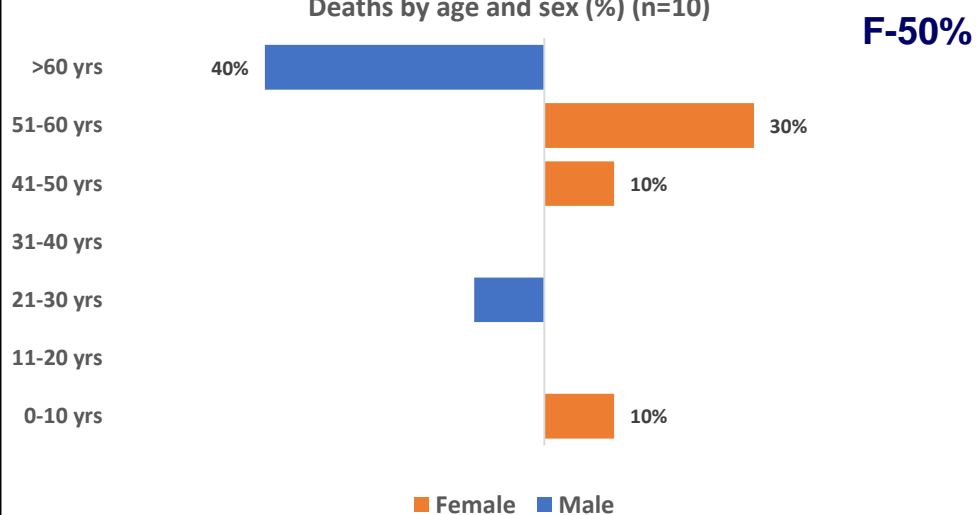
## COVID-19 Cases in Rohingya Camps (As of 14 March 2021)



## Age and sex distribution (%) (n=432)

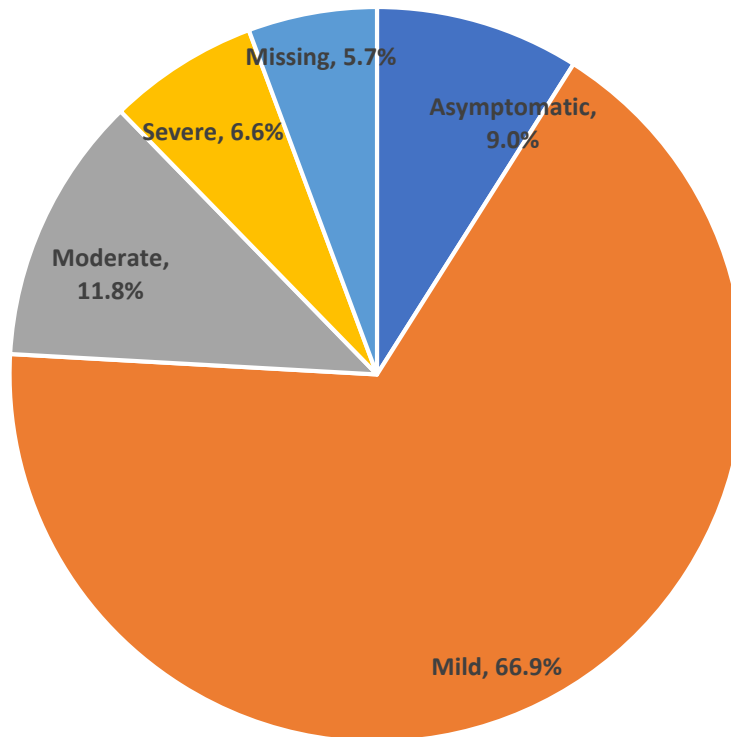


## Deaths by age and sex (%) (n=10)

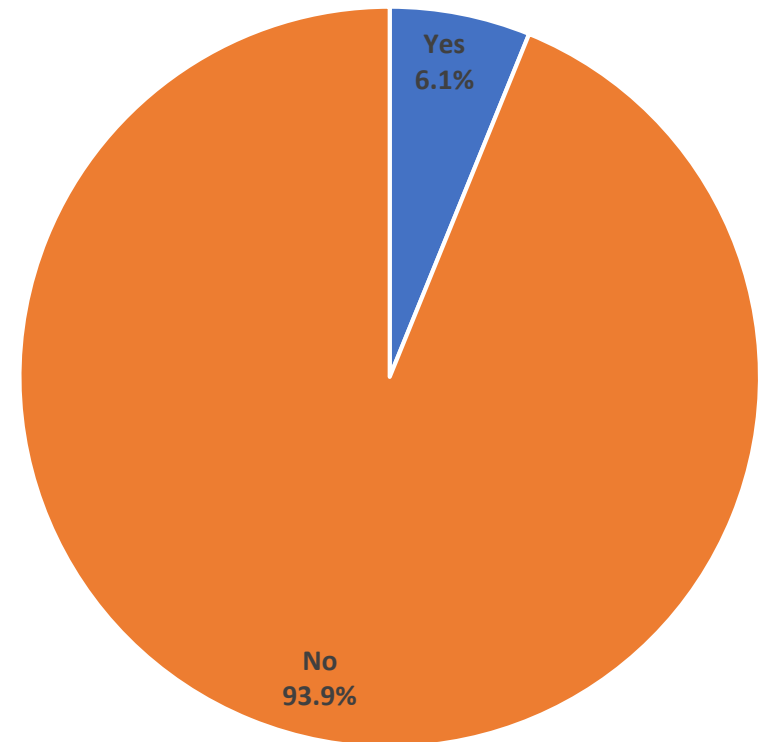


# Highlights: COVID-19

Severity of reported cases at presentation (n=423)



Did the case report at least 1 co-morbidity (n=423)



Source: Go.Data

# Highlights: COVID-19 Contact Tracing

- Total 423 (out of 432) confirmed cases have been investigated by Rapid Investigation and Response Team (RIRT) and captured through go.data.
- Total 1,710 contacts have been identified and registered for follow up
- Out of those, 1,465 (86%) 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 health facilities registered in EWARS
- Only 135/170 weekly reports received on time in week 10
- Timeliness for this week is 79%
- Seventy-five (75) alerts were triggered in week 10
- All alerts were reviewed and verified by WHO EWARS team, the number is more than that of previous week (74 in week 9).



# Highlights:

- Acute Respiratory Infection (19.1%), Diarrheal Diseases (4.6%) & Unexplained Fever (1.1%) are the diseases with highest proportional morbidity in week 10.
- Suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020.
  - Seventy-five (75) suspected SARI deaths have been reported so far and reviewed subsequently by Rapid Investigation and Response Team (RIRT) for COVID-19.
  - Total Nine (9) SARI deaths were considered as death due to probable COVID-19 till date.

# Diphtheria

Three (3) suspected diphtheria case was reported in go.data in week 10

A total of 9 237 case-patients were reported since 2017 to till date

- Confirmed = 343
- Probable = 2 802
- Suspected = 6 092

Total case reported in 2021 = 51

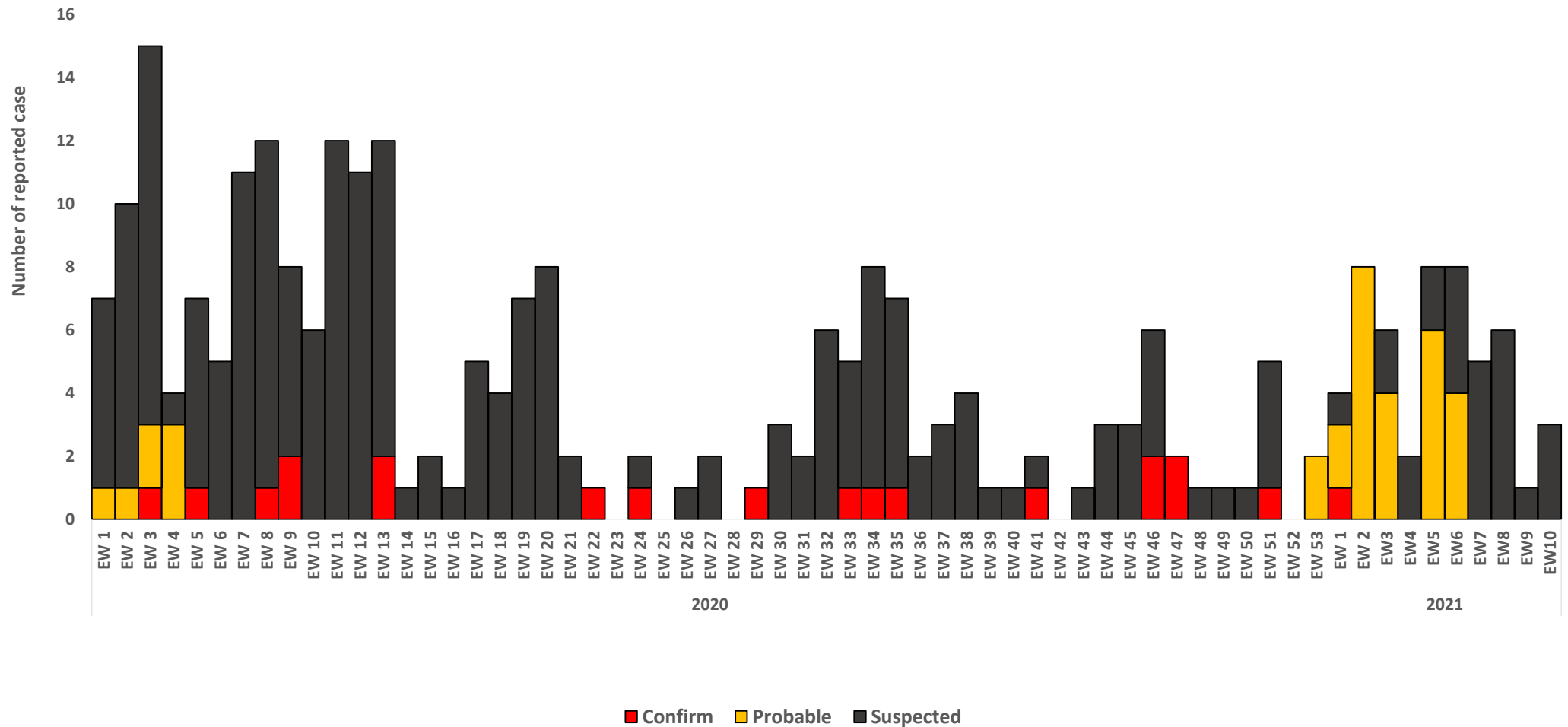
- Confirmed = 1
- Probable = 24
- Suspected = 26

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

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

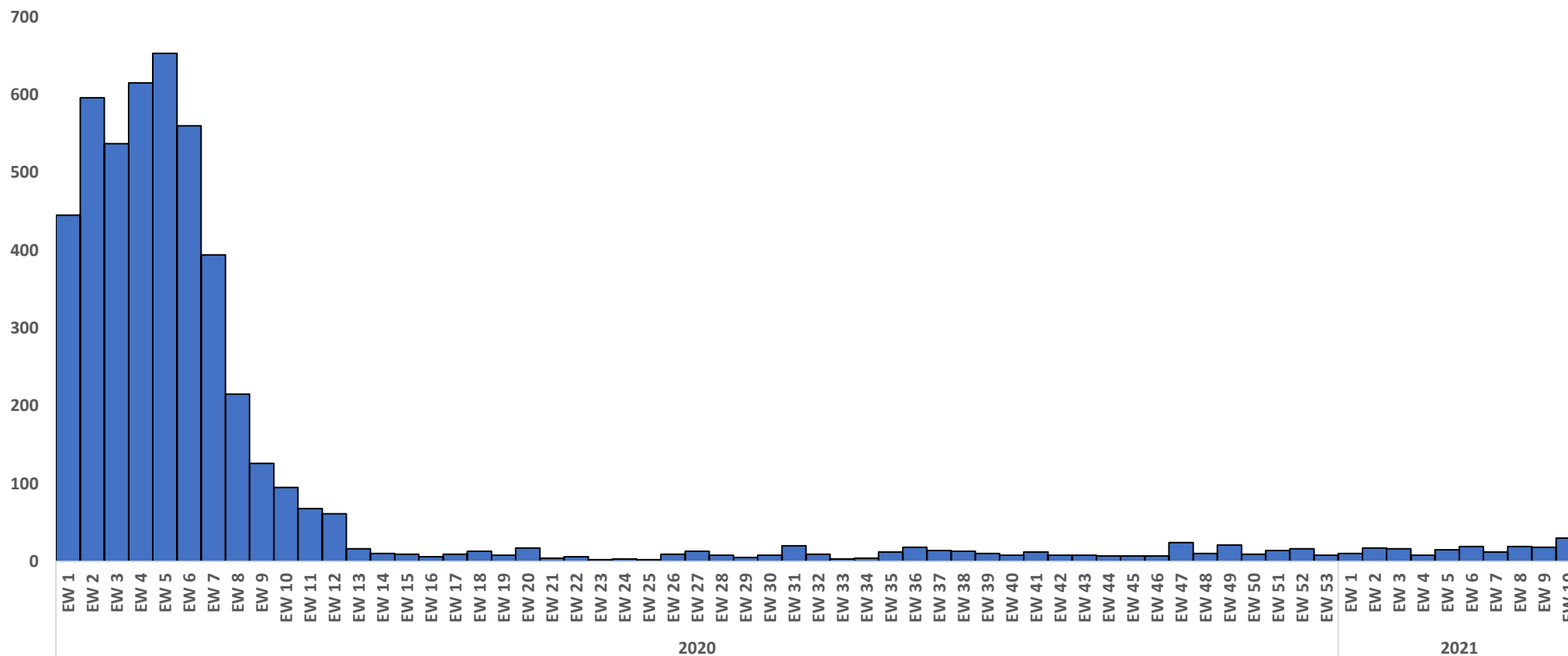
# Diphtheria

Total number of diphtheria case reported in EWARS from 2020- 2021 W10



# Measles

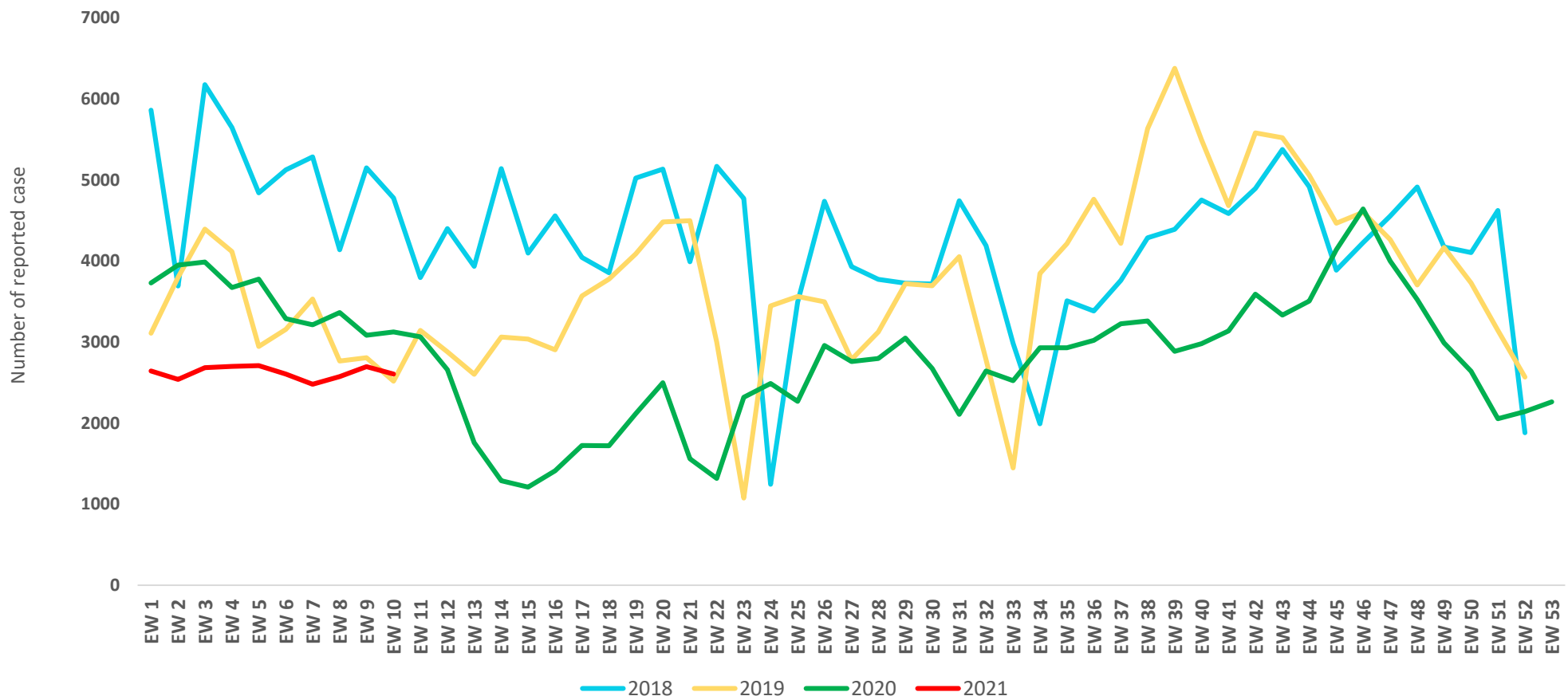
Total number of Measles case reported in EWARS from 2020- 2021 W10



In week 10, 30 suspected measles cases were reported through weekly reporting. In total 164 cases reported in 2021, out of those 139 cases (85%) reported through case-based surveillance and samples collected for laboratory confirmation.

# Diarrhoeal Disease

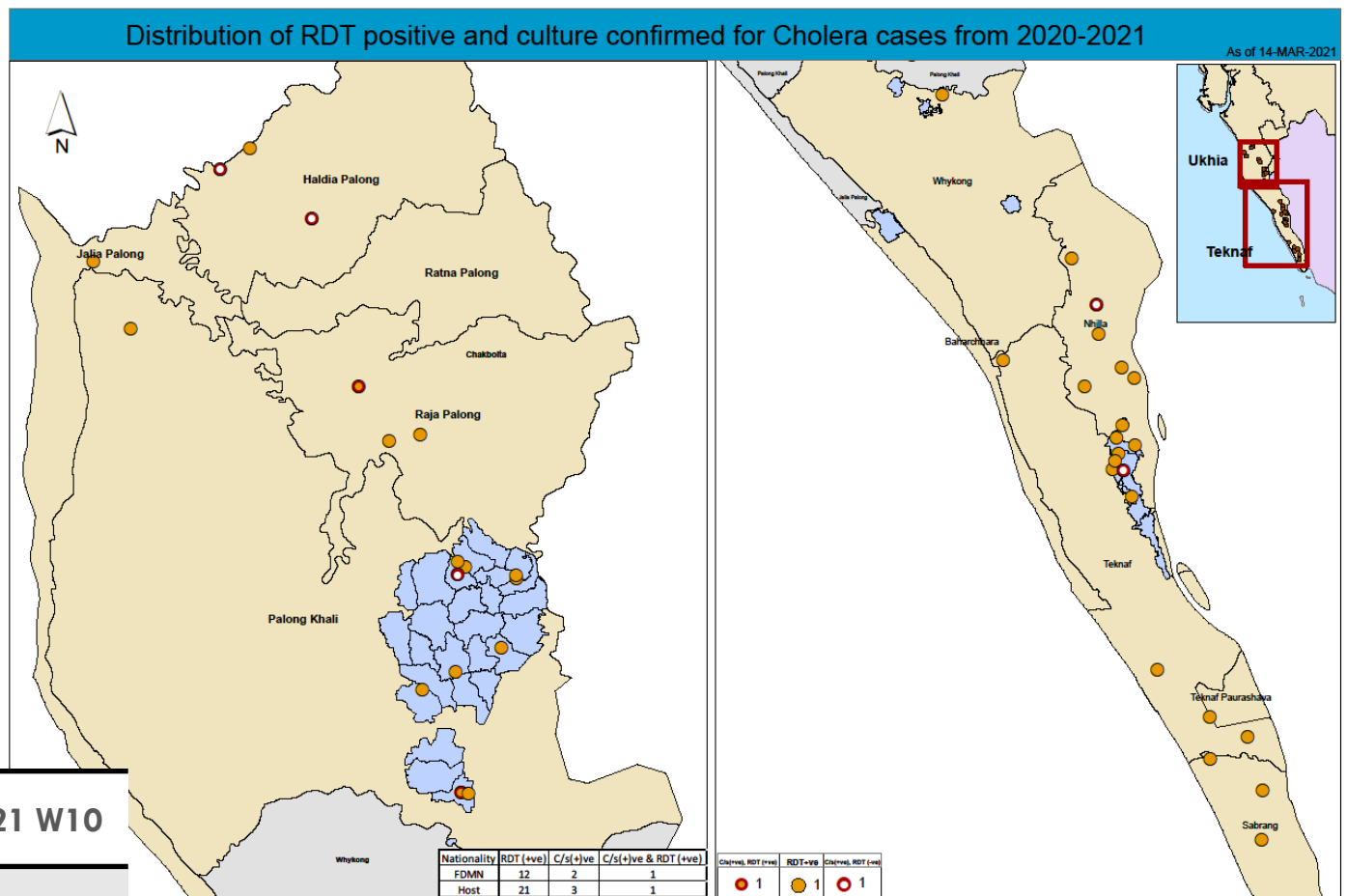
Total number of AWD case reported in EWARS from 2018-2021 W10



- A total of 3,684 cases of diarrhoeal diseases reported in EWARS in week 10.
- Among which 2,216 cases (2.8%) reported as acute watery diarrhoea (AWD), remaining 1,120 (1.4%) and 348 (0.4%) cases as other and bloody diarrhea, respectively.

# Cholera Surveillance

- Total twelve (12) Cholera RDT positive/culture cases reported as of W10 2021. Out of those 2 was confirmed and remaining 10 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 W10

RDT positive  
for Cholera

49 258 28 10

Culture Confirmed  
for Cholera

7 184 5\* 2

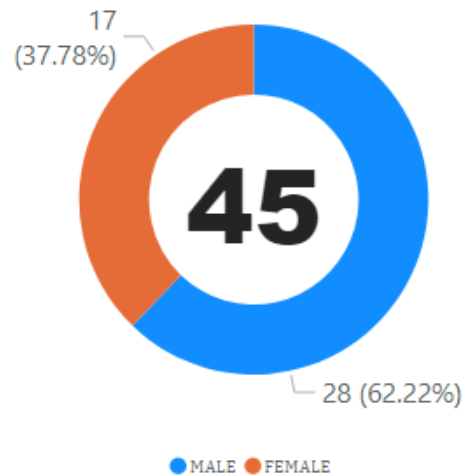
\*3 culture confirmed cases were RDT negative in 2020

# Community-based Mortality surveillance

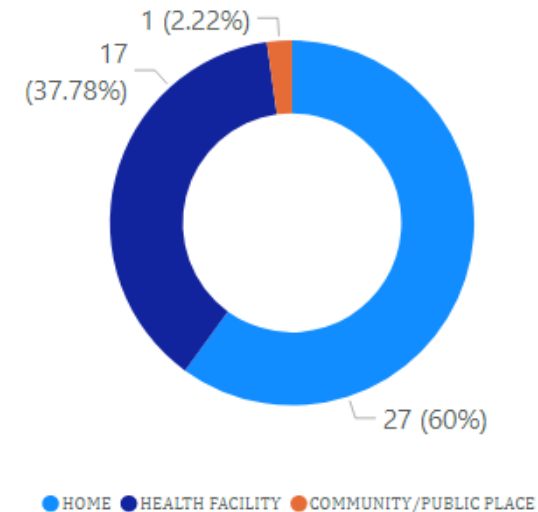
- In week 10, 45 deaths were recorded -
  - 58% (n=26) were due to causes classified as “Others”
  - 18% (n=8) as still birth (Born Dead)
  - 2% (n=1) as maternal Death
  - 2% (n=1) as injury.
  - 12% (n=5) as neonatal (<28 days old)
  - 4% (n=2) as severe acute respiratory infection (SARI) death
  - 4% (N=2) as infectious disease death
- Out of reported deaths, 37.8% occurred in health facilities, 60.0% at homes and 2.2% from community/public places.
- Partners to report all mortalities into EWARS platform using both case and event-based reporting as applicable.

# Community-based Mortality Surveillance

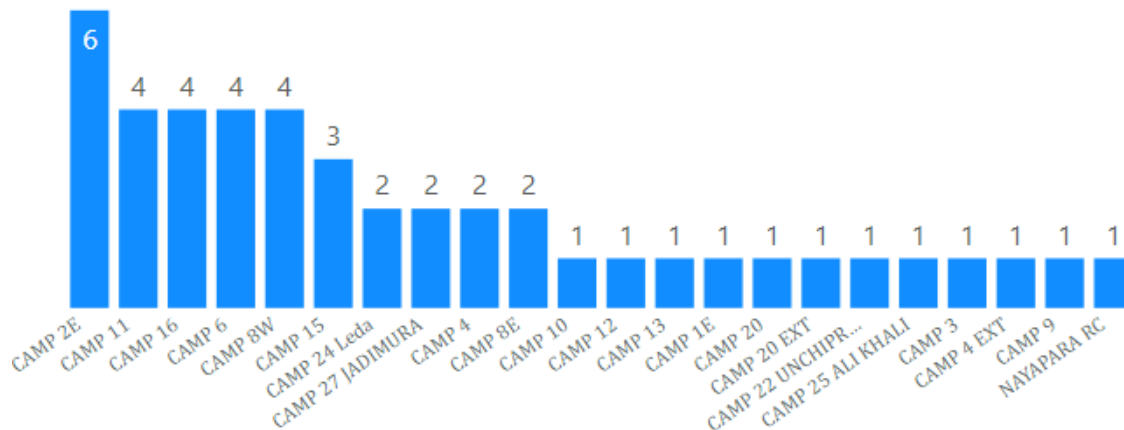
**Gender distribution**



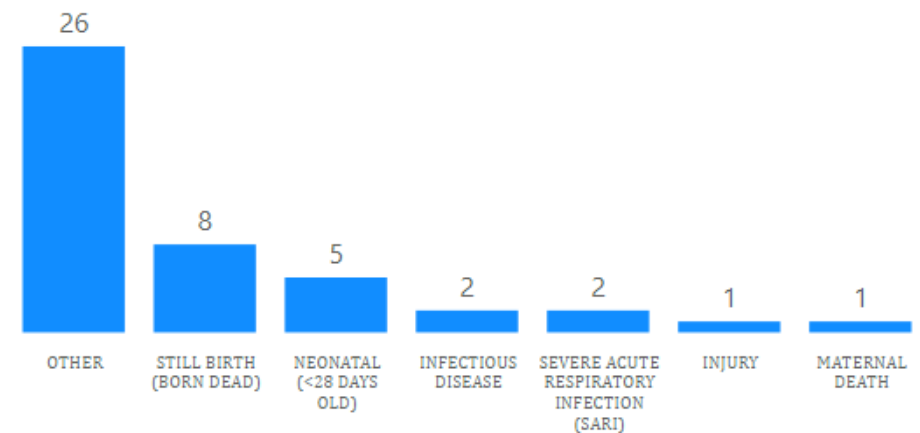
**Place of death**



**Distribution of deceased Camp**



**Distribution of Probable cause of death**





# Bangladesh

Rohingya Emergency Response

Early Warning, Alert and  
Response System (EWARS)

Epidemiological Bulletin W10 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 W10 2021

**Table 1 | Coverage**

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

**Table 2 | Early warning performance indicators**

W10	Cumulative (2021)	
<b>135</b>	<b>1640</b>	Number of weekly reports received
<b>79%</b>	<b>88%</b>	Completeness
<b>79%</b>	<b>82%</b>	Timeliness

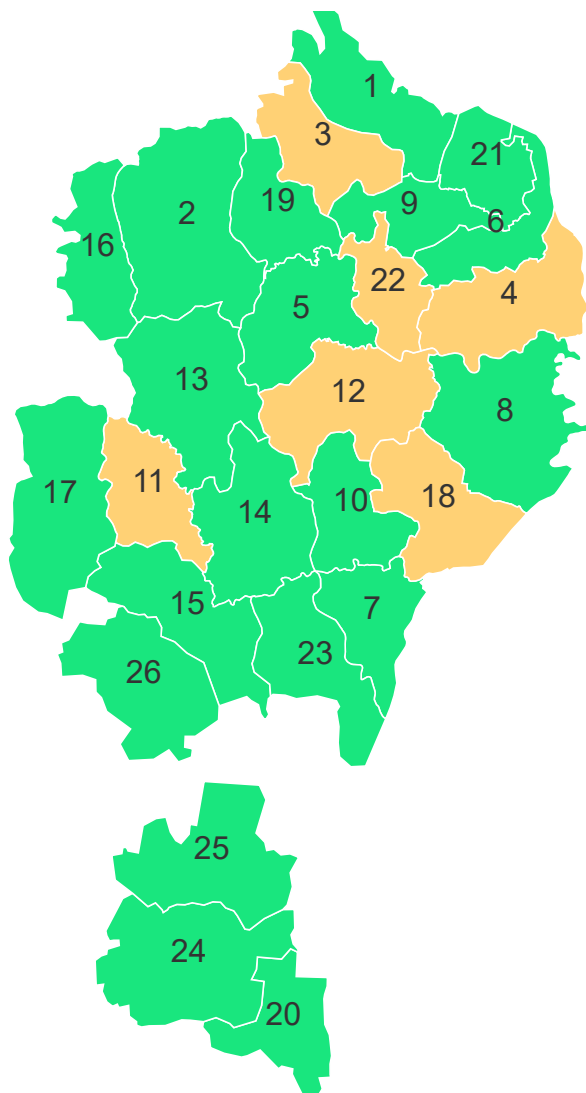
**Table 3 Alert performance indicators**

W10	Cumulative (2021)	
<b>75</b>	<b>733</b>	Total alerts raised
<b>100%</b>	<b>100%</b>	% verified
<b>0%</b>	<b>0%</b>	% auto-discarded
<b>0%</b>	<b>0%</b>	% undergoing risk assessment
<b>2%</b>	<b>1%</b>	% completed risk assessment

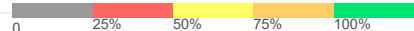
<sup>1</sup> Source: UNHCR. Bangladesh: Joint Government of Bangladesh- UNHCR Population Factsheet. 31 December 2020.

**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

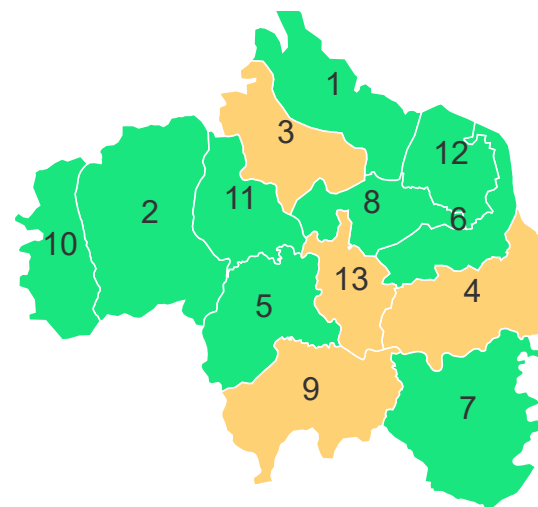


**Table 4 | Performance by camp (W10 2021)**

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	3	75%	75%
Camp 1W	4	2	50%	50%
Camp 2E	3	3	100%	100%
Camp 2W	2	2	100%	100%
Camp 3	6	5	83%	83%
Camp 4	6	5	83%	83%
Camp 4 Ext	1	1	100%	100%
Camp 5	5	4	80%	80%
Camp 6	4	2	50%	50%
Camp 7	6	3	50%	50%
Camp 8E	7	6	86%	86%
Camp 8W	6	4	67%	67%
Kutupalong RC	2	2	100%	100%

**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

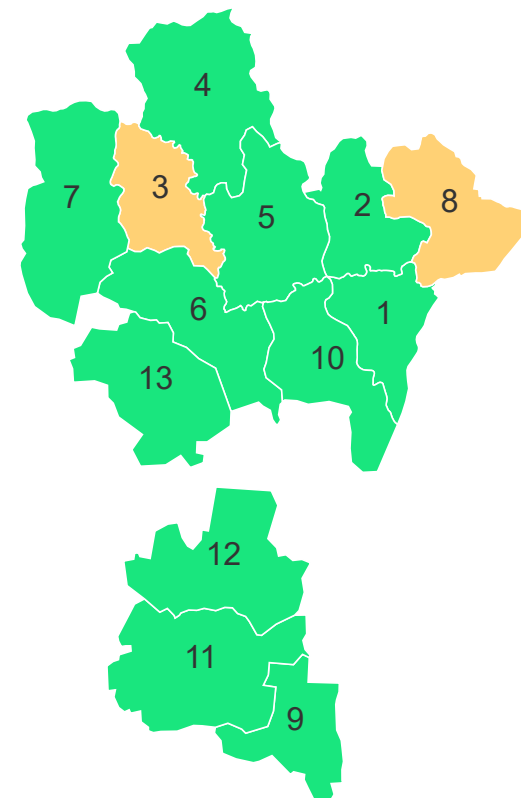


**Table 5** | Performance by camp (W10 2021)

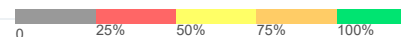
Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	100%
Camp 11	9	7	78%	78%
Camp 12	6	5	83%	83%
Camp 13	9	8	89%	89%
Camp 14	7	7	100%	100%
Camp 15	9	8	89%	89%
Camp 16	5	4	80%	80%
Camp 17	6	6	100%	100%
Camp 18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



Completeness

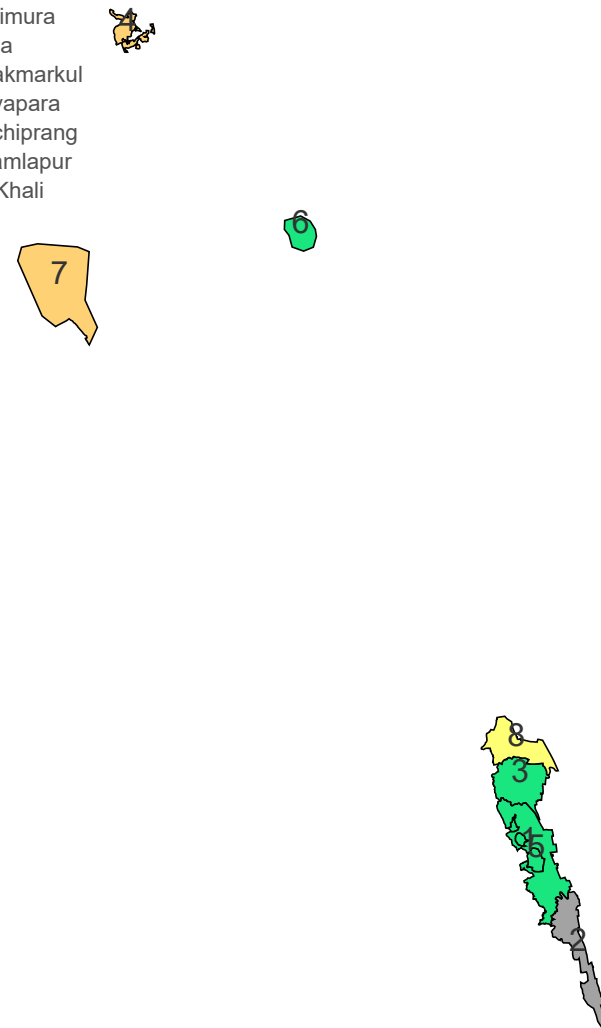


**Table 6** | Performance by camp (W10 2021)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	4	2	50%	50%
Camp 22 Unchiprang	4	4	100%	100%
Camp 23 Shamlapur	3	2	67%	67%
Camp 24 Leda	1	1	100%	100%
Camp 25 Ali Khali	3	1	33%	33%
Camp 26 Nayapara	4	4	100%	100%
Camp 27 Jadimura	1	0	0%	0%
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



Completeness



**Table 7** | Performance by partner (W10 2021)

Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
BDRCS	12	9	75%	75%
BRAC	11	11	100%	100%
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	21	91%	91%
IRC	2	0	0%	0%
MSF	9	8	89%	89%
MoH	7	3	43%	43%
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	10	10	100%	100%
PWJ	1	1	100%	100%
RHU	3	3	100%	100%
RI	3	3	100%	100%
RTMI	11	11	100%	100%
SCI	7	0	0%	0%
TdH	1	1	100%	100%

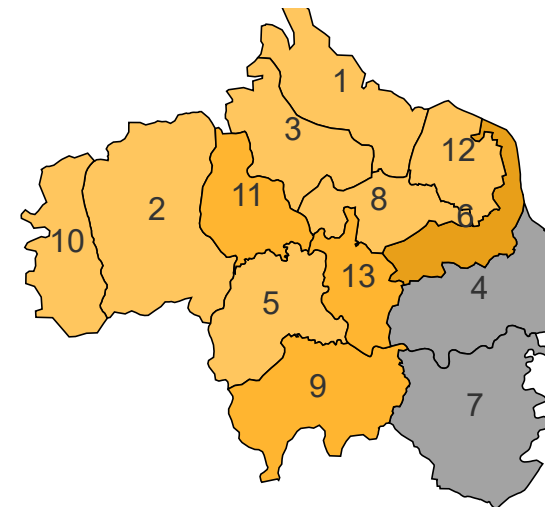


Table 8 | Performance by camp

Northern group	W10		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	2	100%	16	100%
Camp 1W	1	100%	31	100%
Camp 2E	7	100%	52	100%
Camp 2W	2	100%	24	100%
Camp 3	4	100%	43	100%
Camp 4	2	100%	26	100%
Camp 4 Ext	1	100%	7	100%
Camp 5	1	100%	29	100%
Camp 6	3	100%	22	100%
Camp 7	0	0%	7	100%
Camp 8E	0	0%	9	100%
Camp 8W	4	100%	41	100%
Kutupalong RC	1	100%	9	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

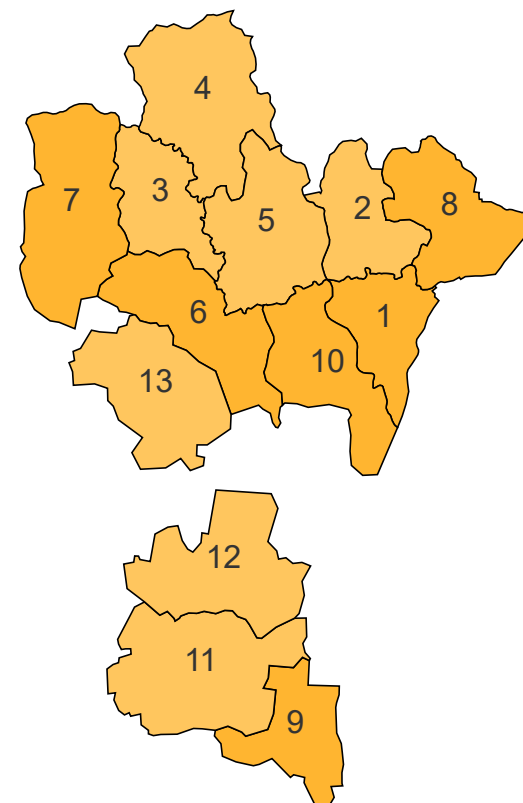


Table 9 | Performance by camp

Southern group	W10		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	1	100%	28	100%
Camp 11	3	100%	27	100%
Camp 12	3	100%	32	100%
Camp 13	2	100%	27	100%
Camp 14	1	100%	20	100%
Camp 15	2	100%	20	100%
Camp 16	3	100%	30	100%
Camp 17	2	100%	20	100%
Camp 18	2	100%	33	100%
Camp 19	3	100%	11	100%
Camp 20	2	100%	19	100%
Camp 20 Ext	3	100%	15	100%
Camp 9	4	100%	36	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	W10		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	0	0%	5	100%
Camp 22 Unchiprang	2	100%	10	100%
Camp 23 Shamlapur	1	100%	9	100%
Camp 24 Leda	1	100%	13	100%
Camp 25 Ali Khali	1	100%	5	100%
Camp 26 Nayapara	6	100%	32	100%
Camp 27 Jadimura	1	100%	3	100%
Nayapara RC	3	100%	12	100%

Map 7 | Number of alerts by camp

- 1

Nayapara RC
- 2

Camp 27 Jadimura
- 3

Camp 24 Leda
- 4

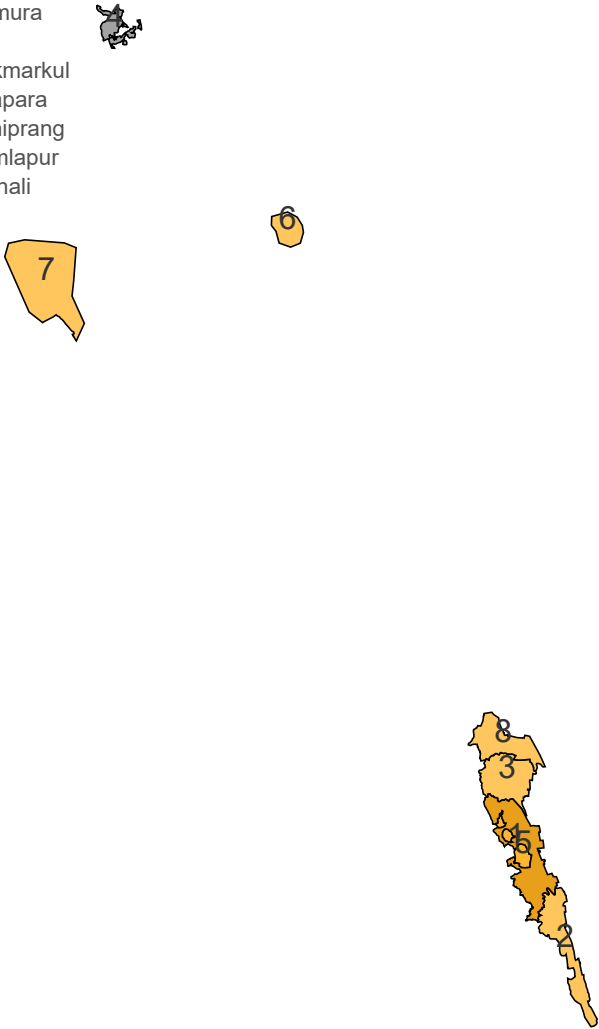
Camp 21 Chakmarkul
- 5

Camp 26 Nayapara
- 6

Camp 22 Unchiprang
- 7

Camp 23 Shamlapur
- 8

Camp 25 Ali Khali



**Table 11** | Performance by type of alert

Event	W10		Cumulative (2021)	
	# alerts	% verif.	# alerts	% verif.
<b>Indicator-based surveillance</b>				
Malaria	0	0%	0	0%
Measles	14	100%	106	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	4	100%
Meningitis	0	0%	8	100%
Haem. fever (susp.)	1	100%	2	100%
NNT	0	0%	0	0%
Unexp. fever	3	100%	28	100%
AWD	6	100%	57	100%
ARI	4	100%	50	100%
AJS	1	100%	7	100%
Varicella (Susp.)	5	100%	22	100%
Suspected COVID-19	0	0%	0	0%
<b>Event-based surveillance</b>				
EBS total	5	100%	49	100%

**Table 12** | Risk assessment

W10	Cumulative (2021)	
1	6	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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## 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  
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 W10 2021



Ministry of Health and Family  
Welfare Bangladesh



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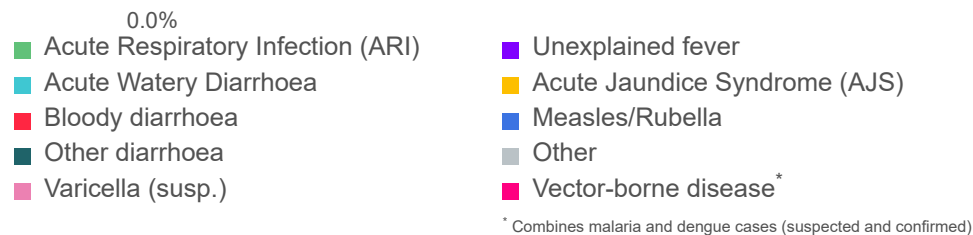
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# Proportional morbidity

**Figure 1 | Proportional morbidity (W10 2021)**



Disease	W10		2021	
	# cases	% morbidity	# cases	% morbidity
AWD	2,216	2.8%	28,125	2.9%
Bloody diarr.	348	0.4%	3,908	0.4%
Other diarr.	1,120	1.4%	9,735	1.0%
Susp. Varicella	339	0.4%	1,567	0.2%
ARI	15,285	19.1%	191,701	19.7%
Measles/Rub.	30	0.0%	172	0.0%
AFP	0	0.0%	5	0.0%
Susp. mening.	0	0.0%	15	0.0%
AJS	6	0.0%	101	0.0%
Susp. HF	1	0.0%	1	0.0%
Neo. tetanus	0	0.0%	0	0.0%
Adult tetanus	0	0.0%	1	0.0%
Malaria (conf.)	0	0.0%	2	0.0%
Malaria (susp.)	5	0.0%	16	0.0%
Dengue (conf.)	0	0.0%	1	0.0%
Dengue (susp.)	0	0.0%	0	0.0%
Unexpl. fever	856	1.1%	8,914	0.9%
Sev. Malnut.	97	0.1%	409	0.0%
Inj./Wounds	1,929	2.4%	25,040	2.6%
Other	57,767	72.2%	702,004	72.2%
<b>Total</b>	<b>79,194</b>	<b>100%</b>	<b>972,052</b>	<b>100%</b>

## Trend in consultations and key diseases

**Figure 2** | Trend in proportional morbidity for key diseases (W10)

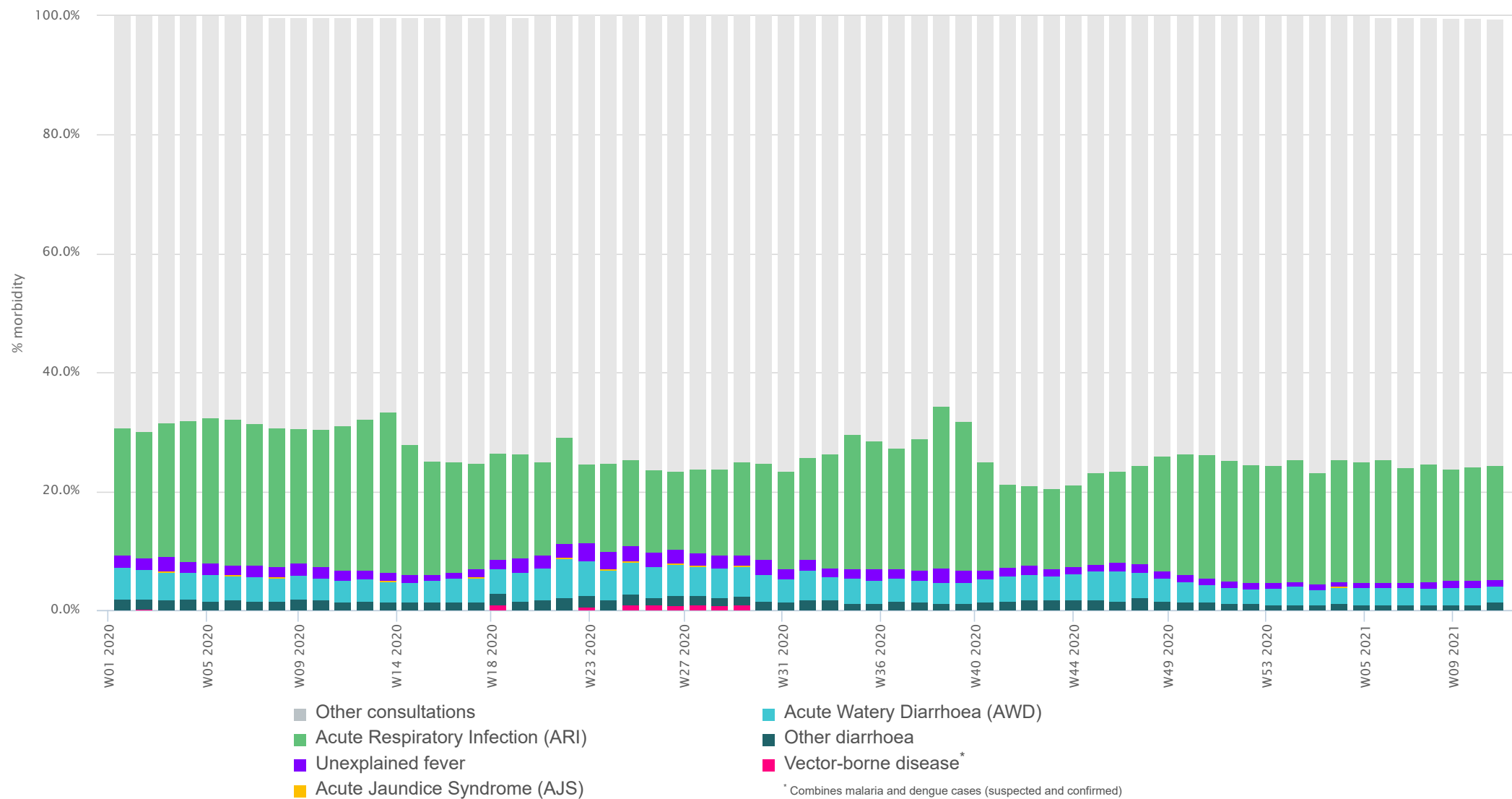
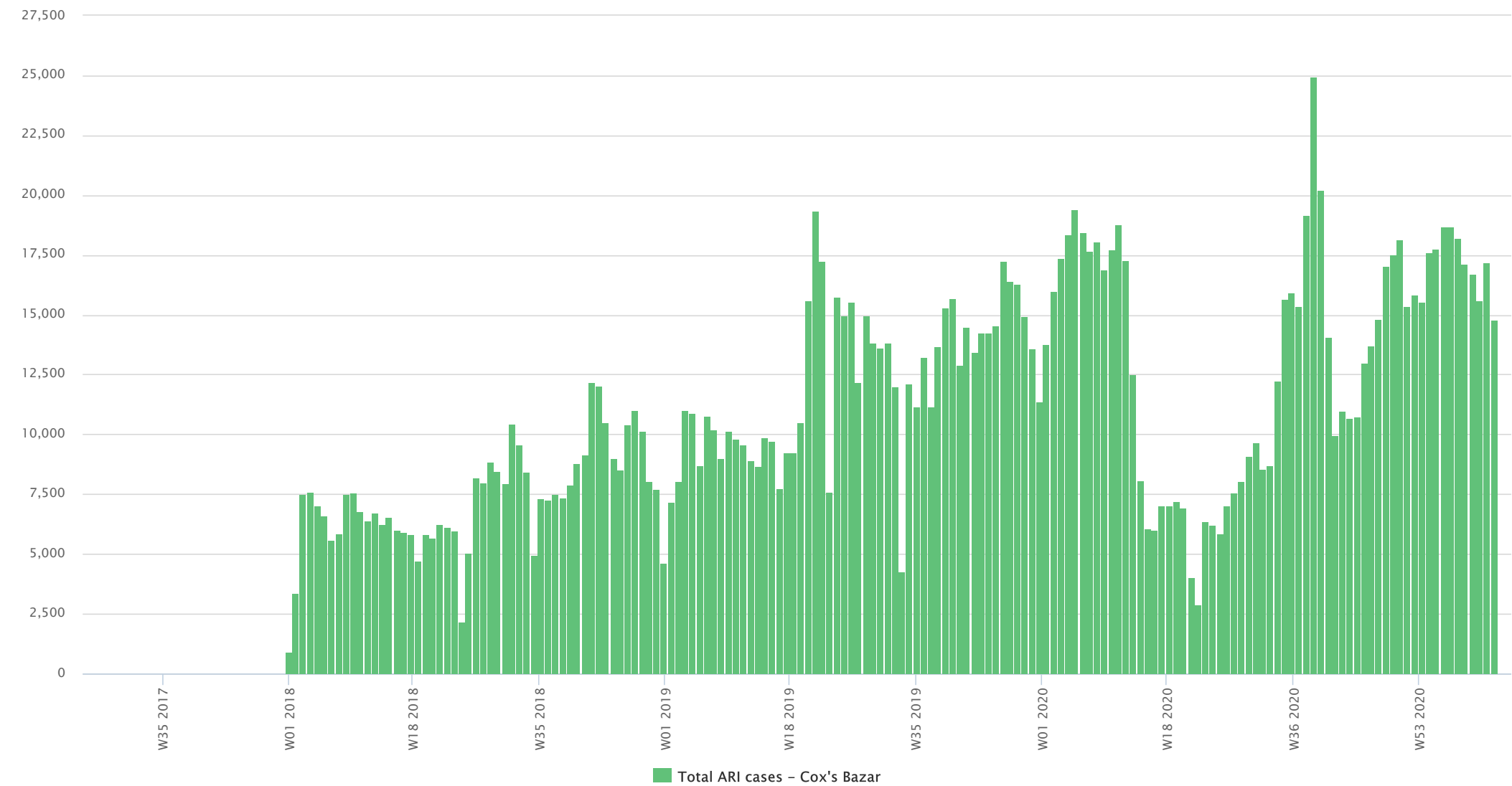


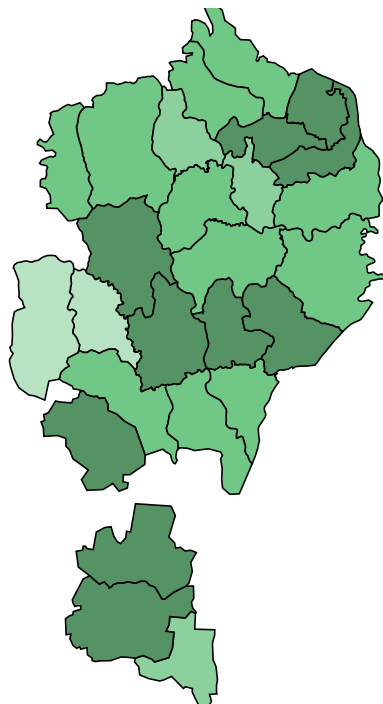


Figure 3 | Trend in number of cases over time (W38 2017 - W10 2021)

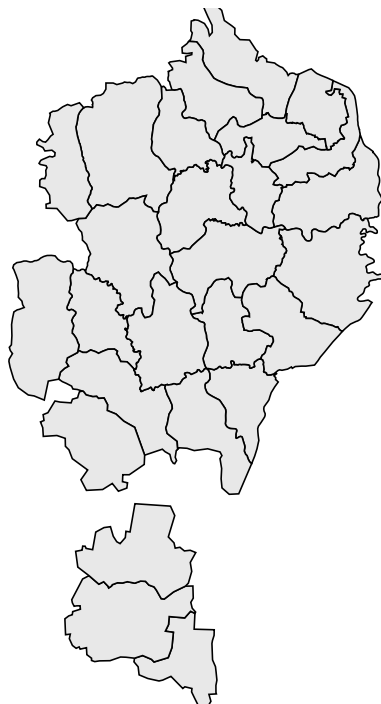


**Map 1** | Map of cases by camp (W10 2021)

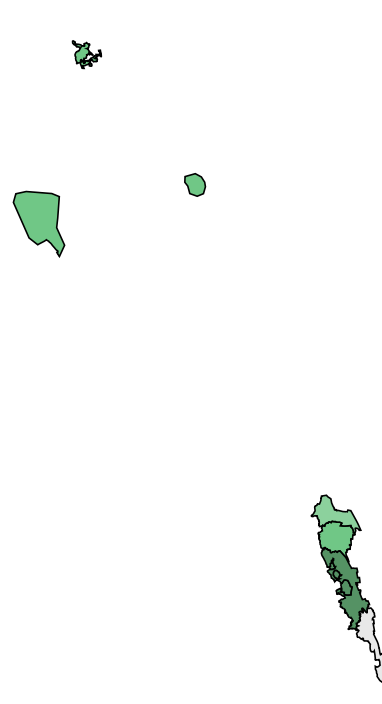
**a. Ukhia** | Number of cases



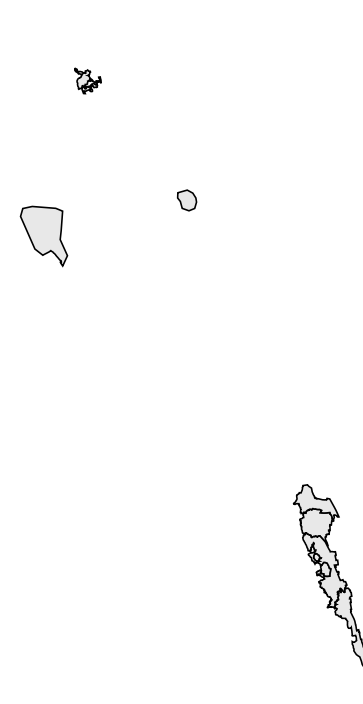
**b. Ukhia** | Number of alerts



**c. Teknaf** | Number of cases



**d. Teknaf** | Number of alerts



## Map legend

Number of cases



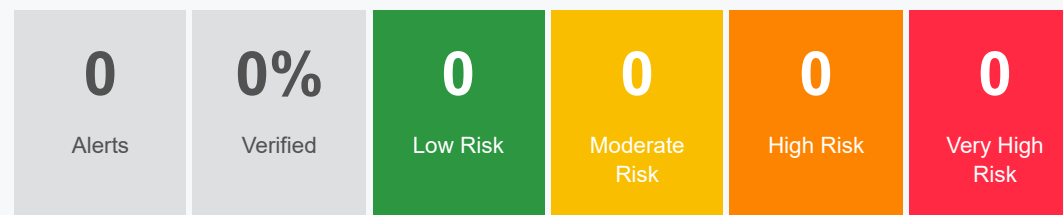
Number of alerts



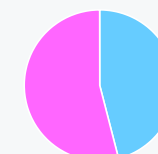
## Alert threshold

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

## Alert management (W10 2021)

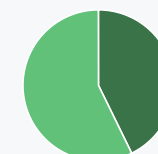


## Figure | % sex



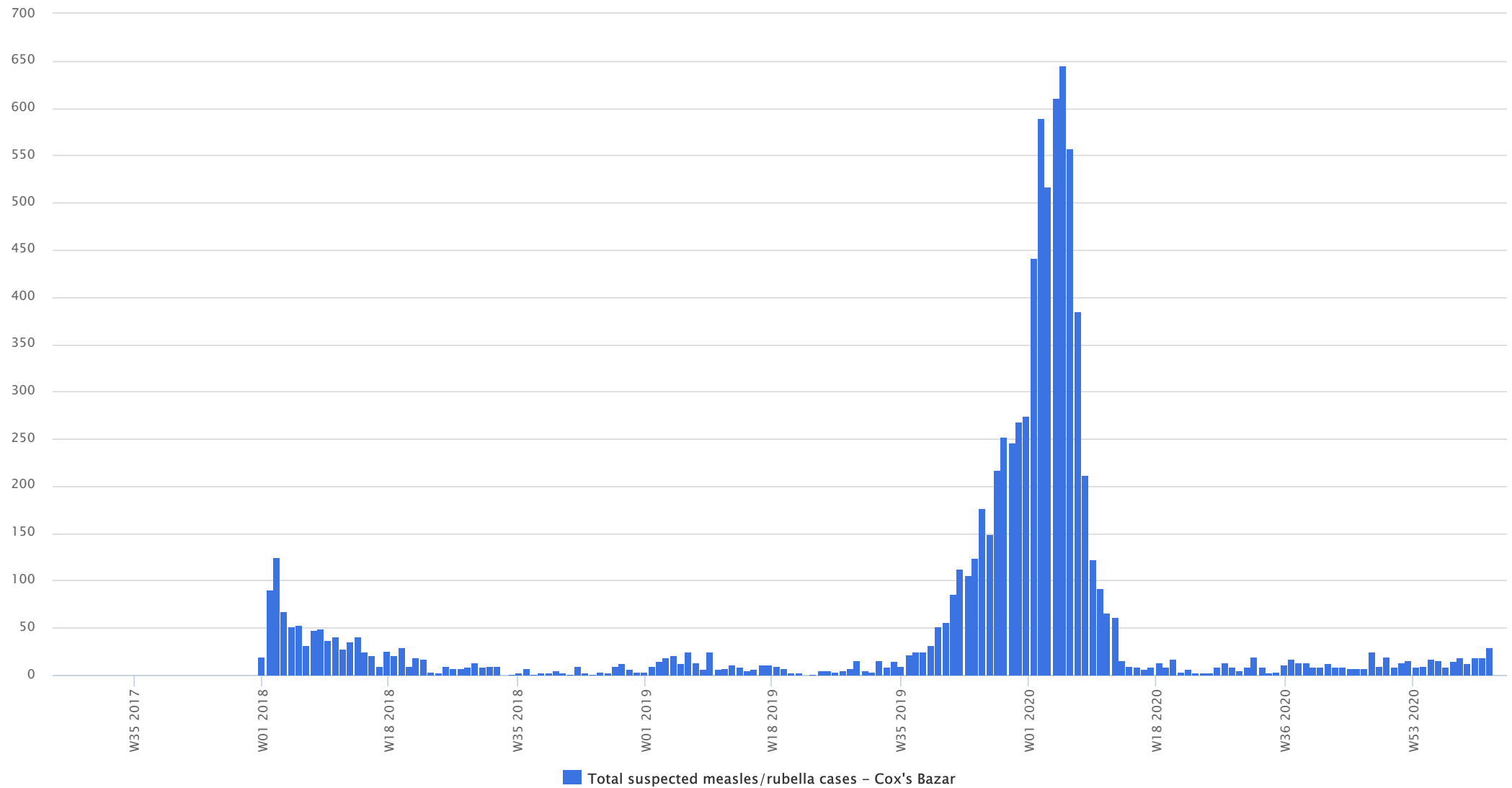
Male Female

## Figure | % age



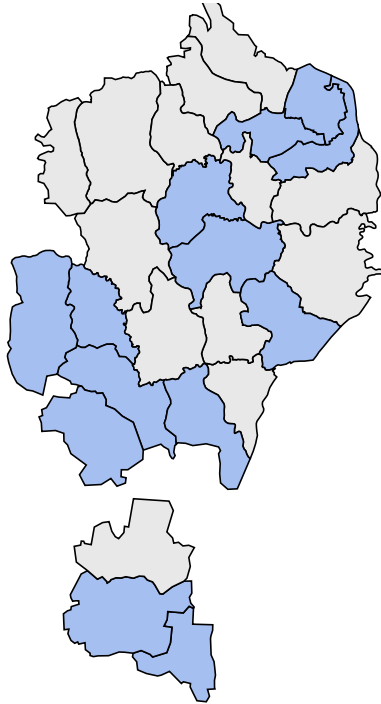
>=5 <5

**Figure 4** | Trend in number of suspected cases over time (W38 2017 - W10 2021)

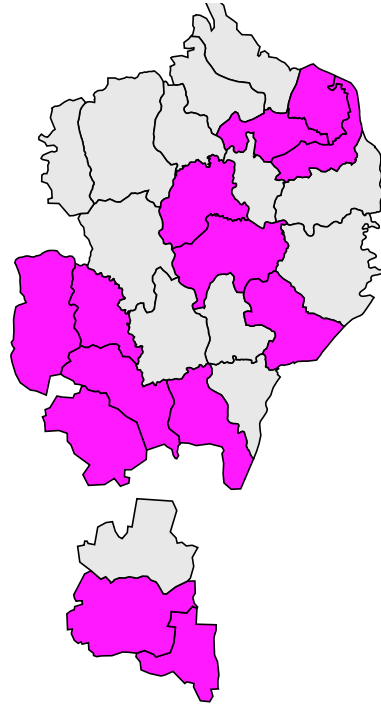


**Map 2 | Map of cases by camp (W10 2021)**

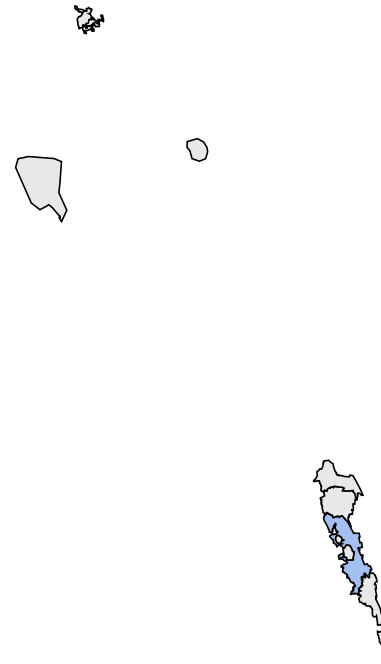
**a. Ukhia | Number of cases**



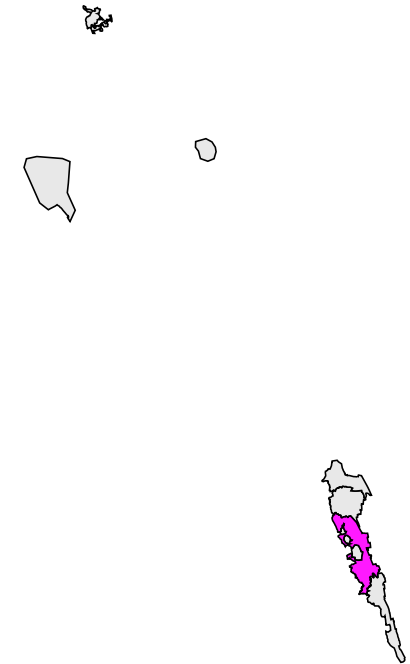
**b. Ukhia | Number of alerts**



**c. Teknaf | Number of cases**

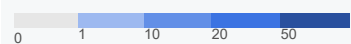


**d. Teknaf | Number of alerts**



## Map legend

Number of cases



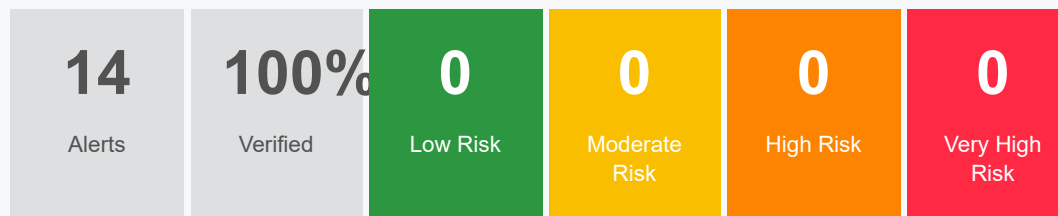
Number of alerts



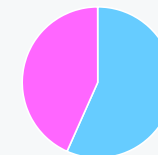
## Alert threshold

1 case. Source: IEDCR

## Alert management (W10 2021)



## Figure | % sex



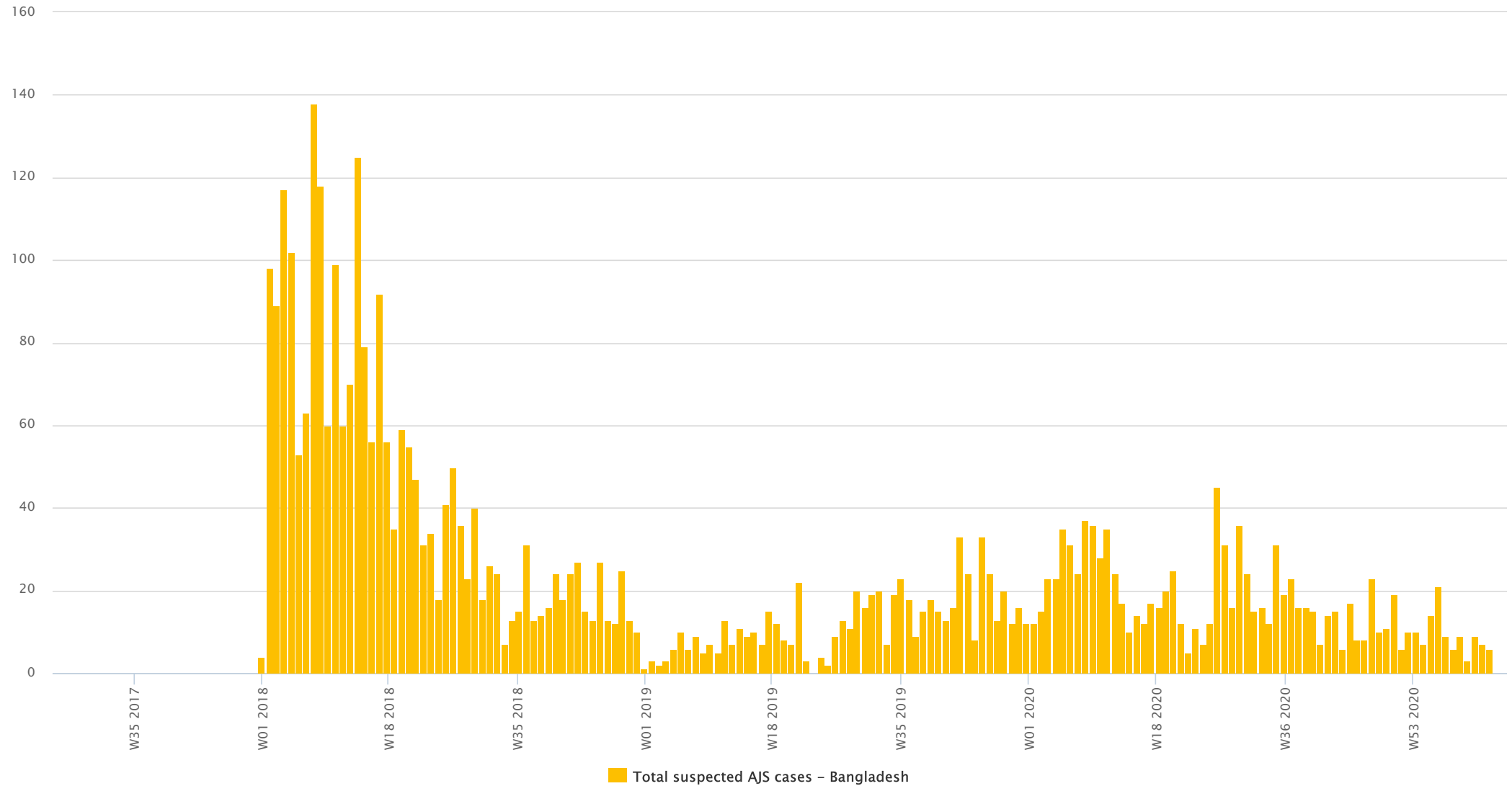
Male Female

## Figure | % age



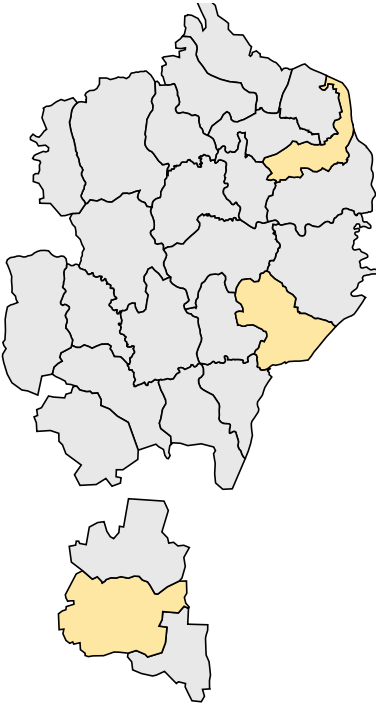
>= 5 < 5

**Figure 5** | Trend in number of cases over time (W38 2017 - W10 2021)

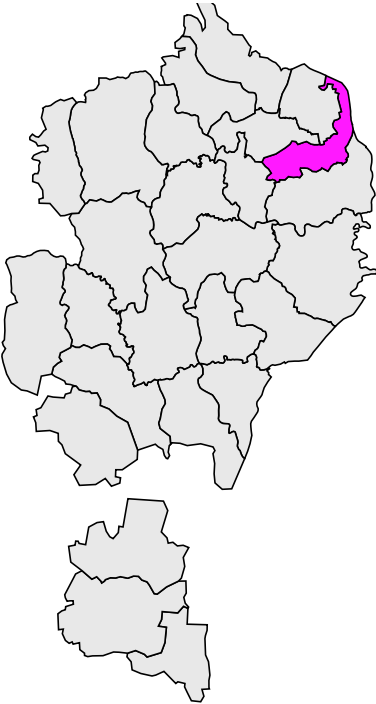


Map 3 | Map of cases by camp (W37 2017 - W10 2021)

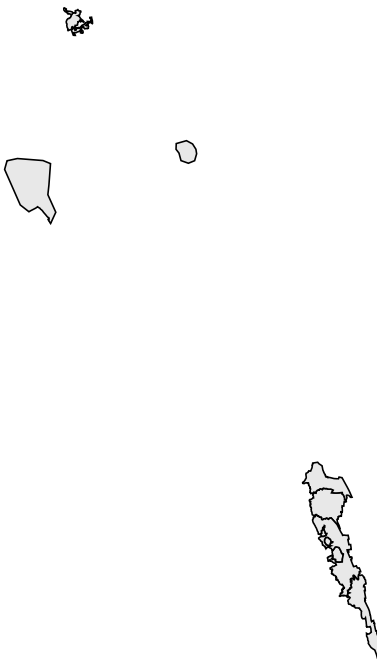
a. Ukhia | Number of cases



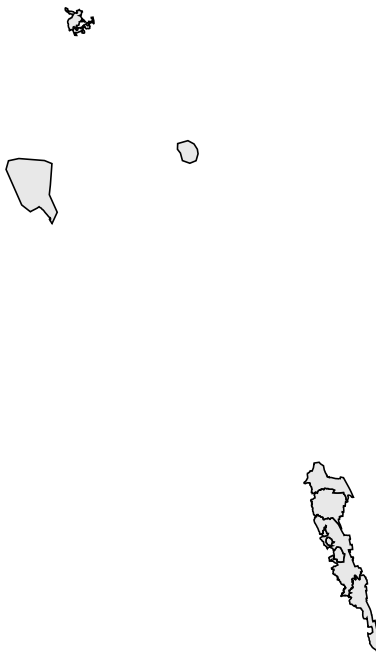
b. Ukhia | Number of alerts



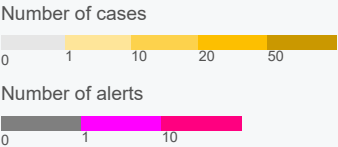
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W10 2021)

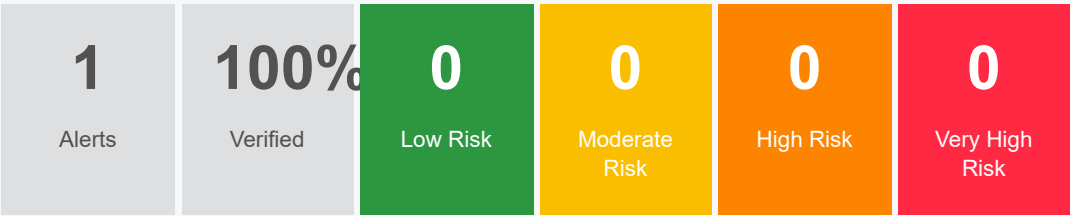


Figure | % sex

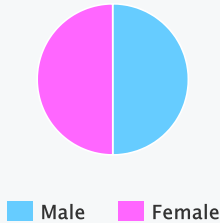
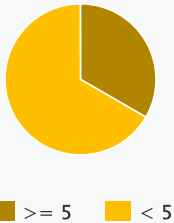
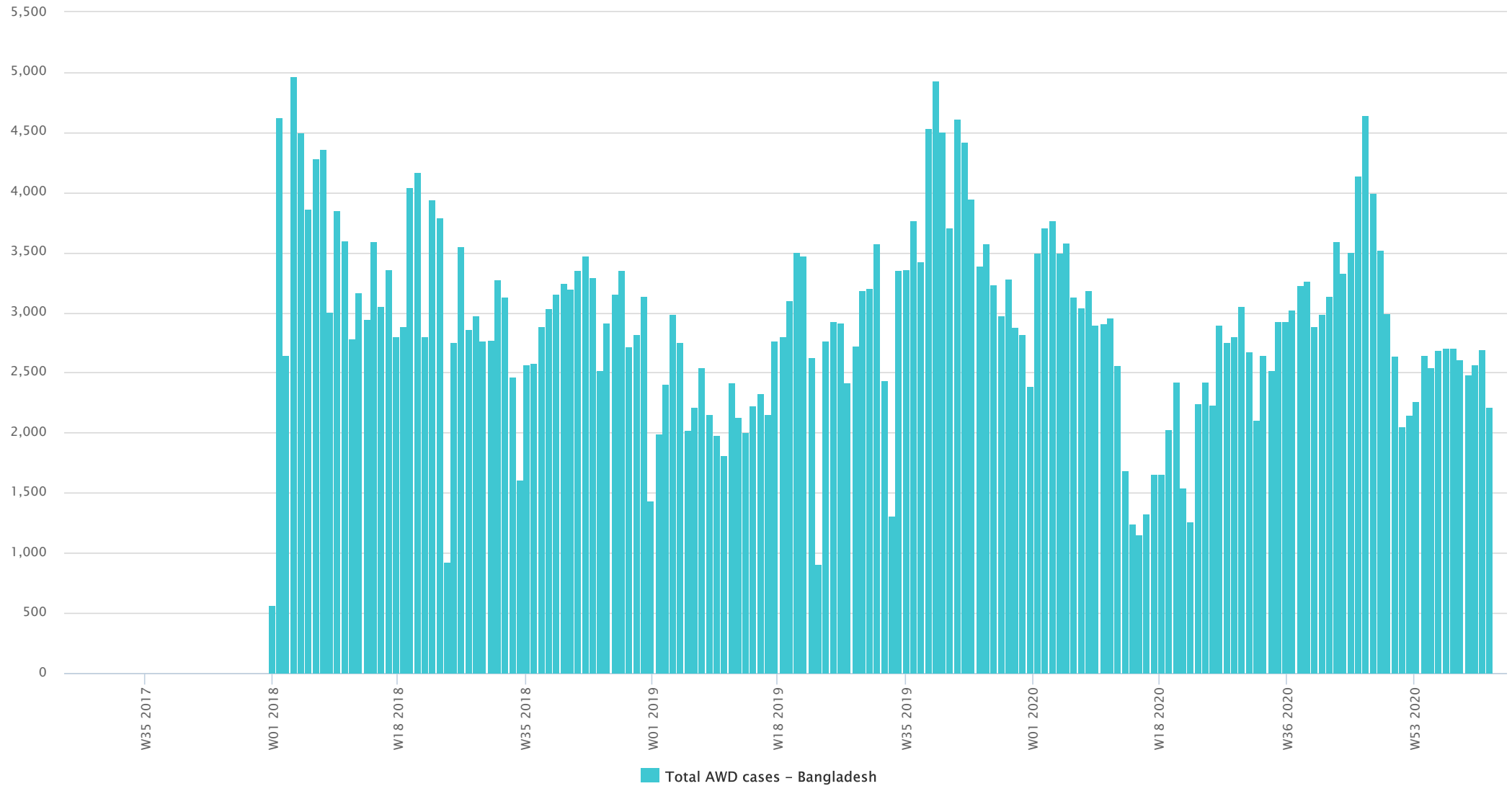


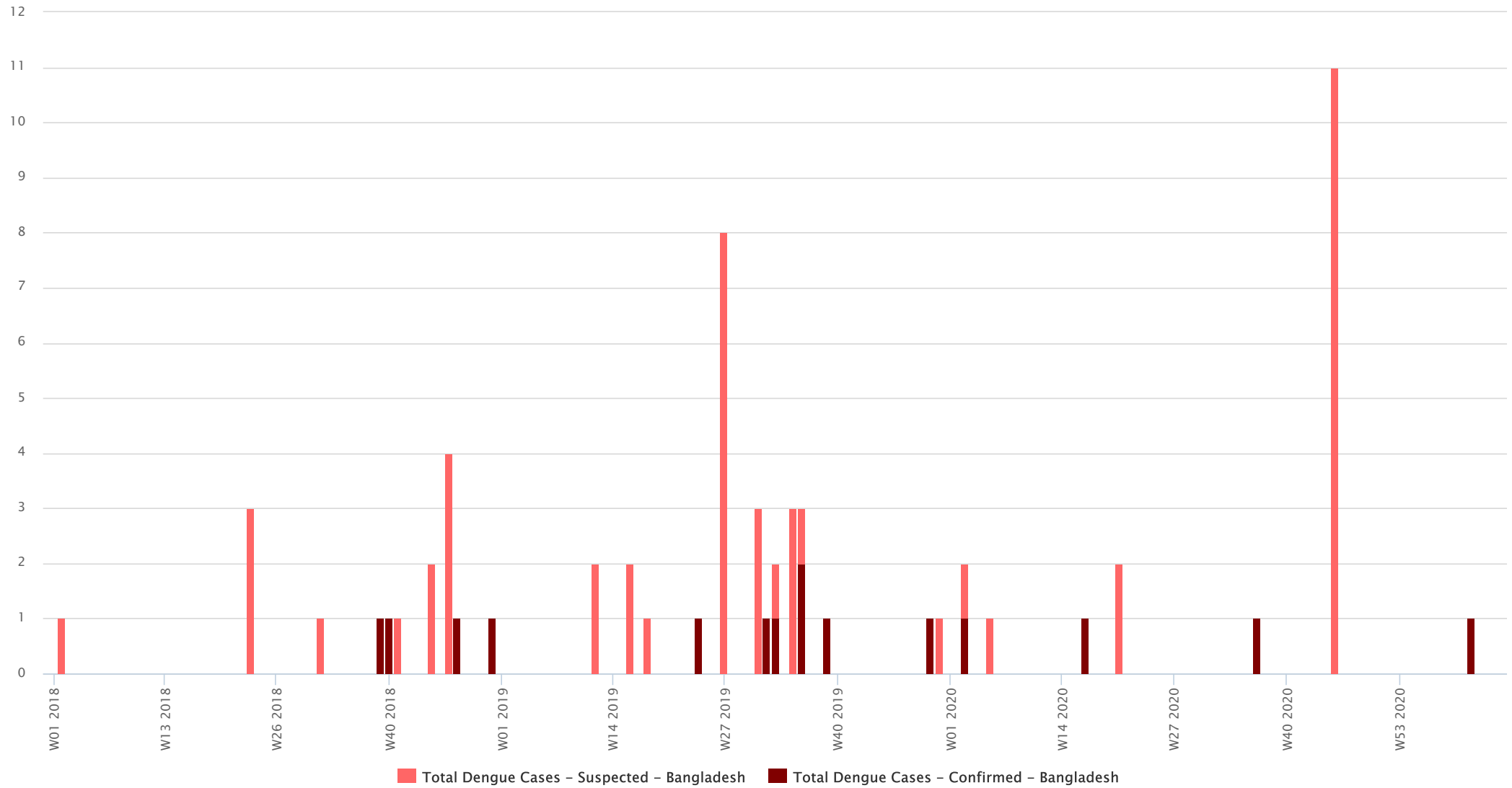
Figure | % age



**Figure 6** | Trend in number of cases over time (W38 2017 - W10 2021)



**Figure 7** | Trend in number of cases over time (W38 2017 - W10 2021)





Map 4 | Map of cases by camp (W37 2017 - W10 2021)

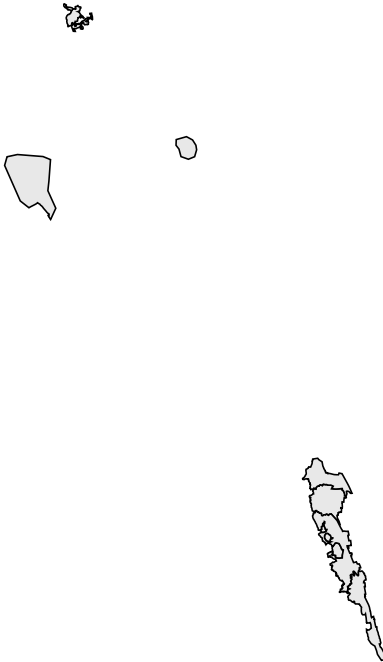
a. Ukhia | Number of cases



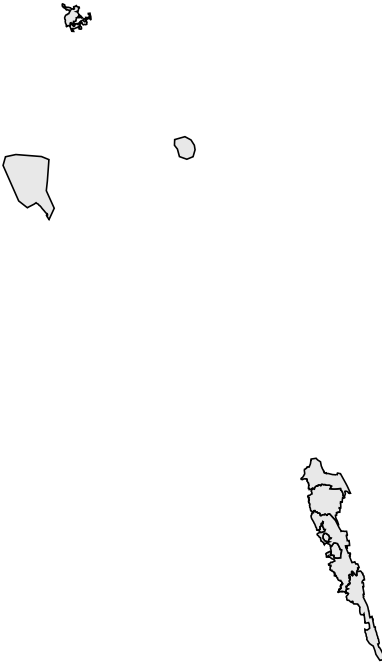
b. Ukhia | Number of alerts



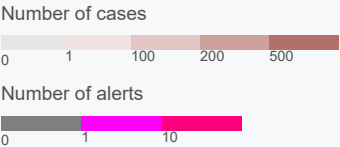
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W10 2021)

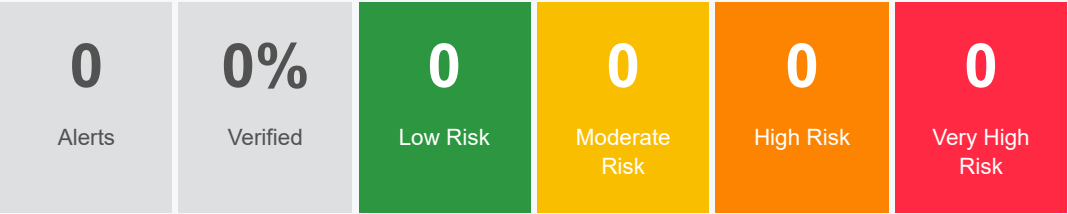


Figure | % sex



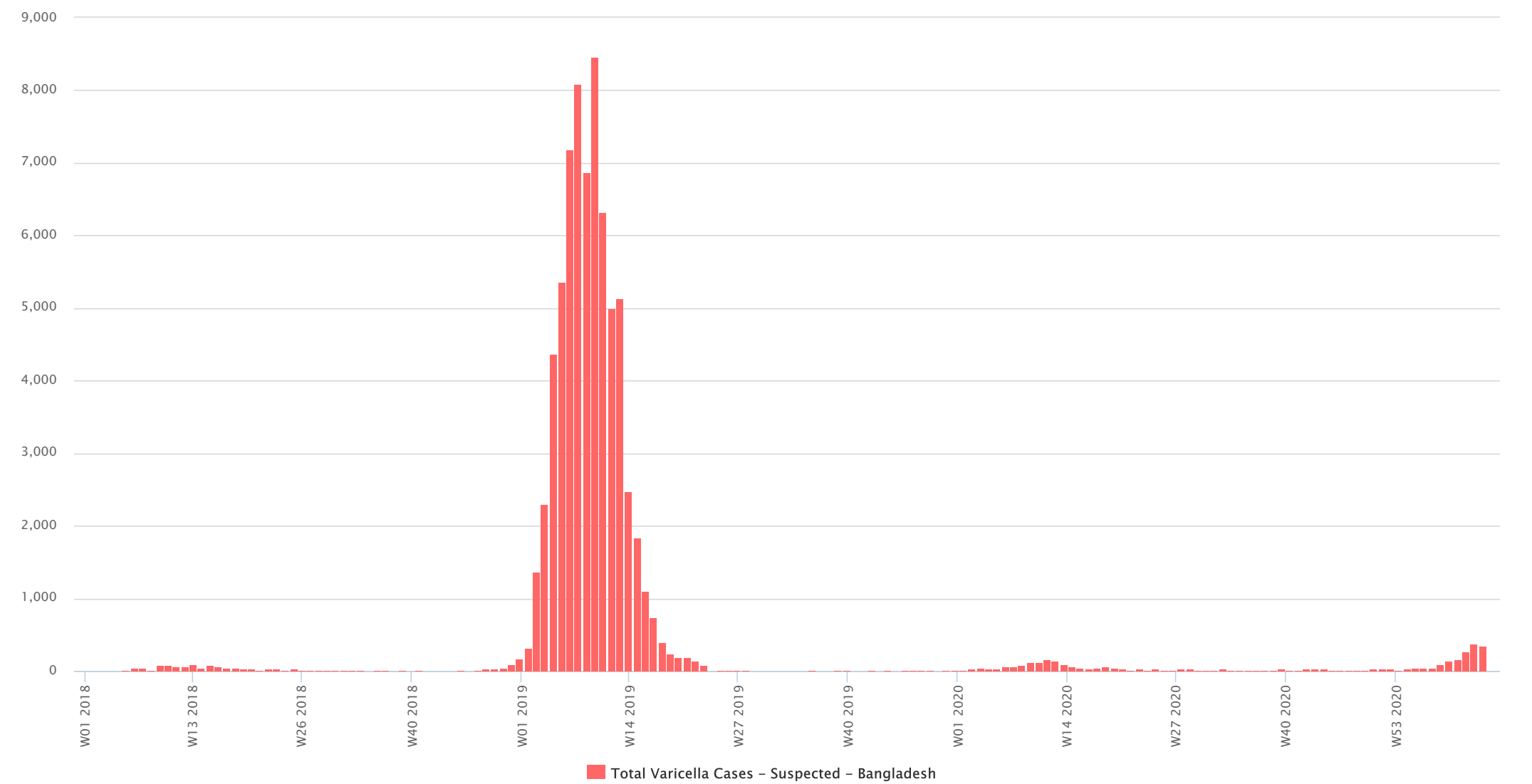
Male Female

Figure | % age



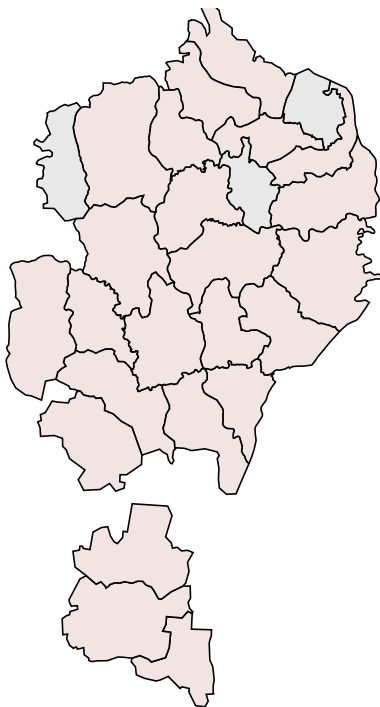
>= 5 < 5

Figure 7 | Trend in number of cases over time (W38 2017 - W10 2021)

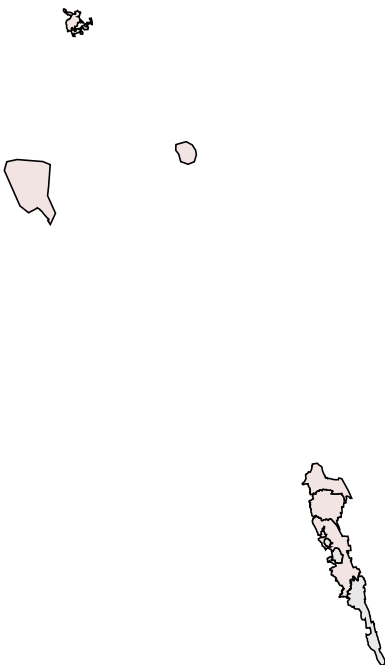


Map 4 | Map of cases by camp (W37 2017 - W10 2021)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

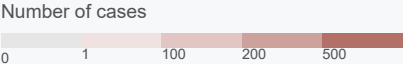


Figure | % sex

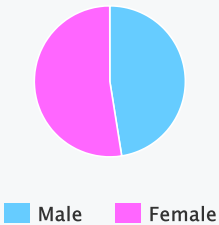
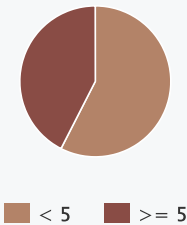


Figure | % age



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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>

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



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