



# Epidemiological Highlights

Week 31 (24-30 July) 2022



World Health  
Organization

# Highlights: COVID-19

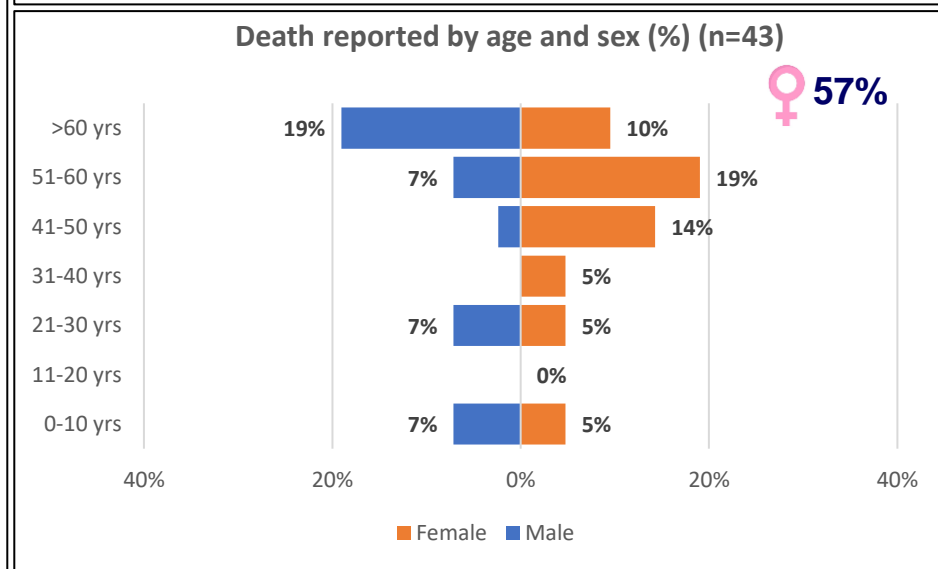
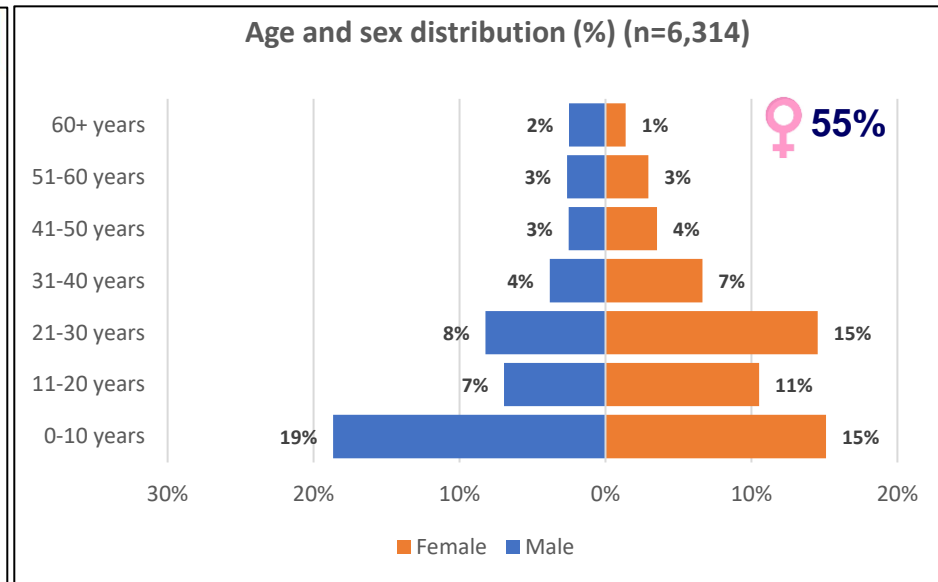
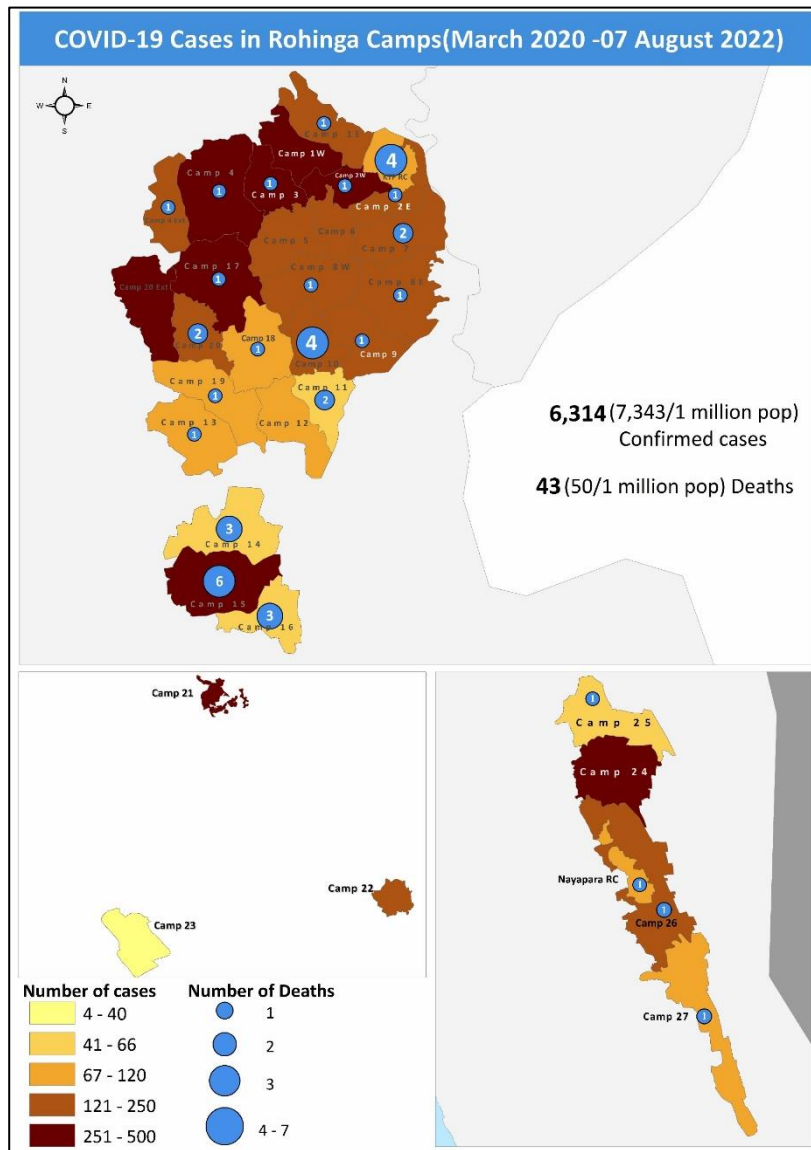
As of week 31, 2022 there were **6,314 confirmed cases** of COVID-19 (SARS-CoV-2), out of 107,942 **samples** that had been submitted for testing. The **Total Positivity Rate (TPR)** now stands at **5.8%**

In the reporting week, again 89 new confirmed case was detected out of 598 total samples tested. This translated to a 14.9% TPR which is higher than that of the previous week.

As of this week (week 31)

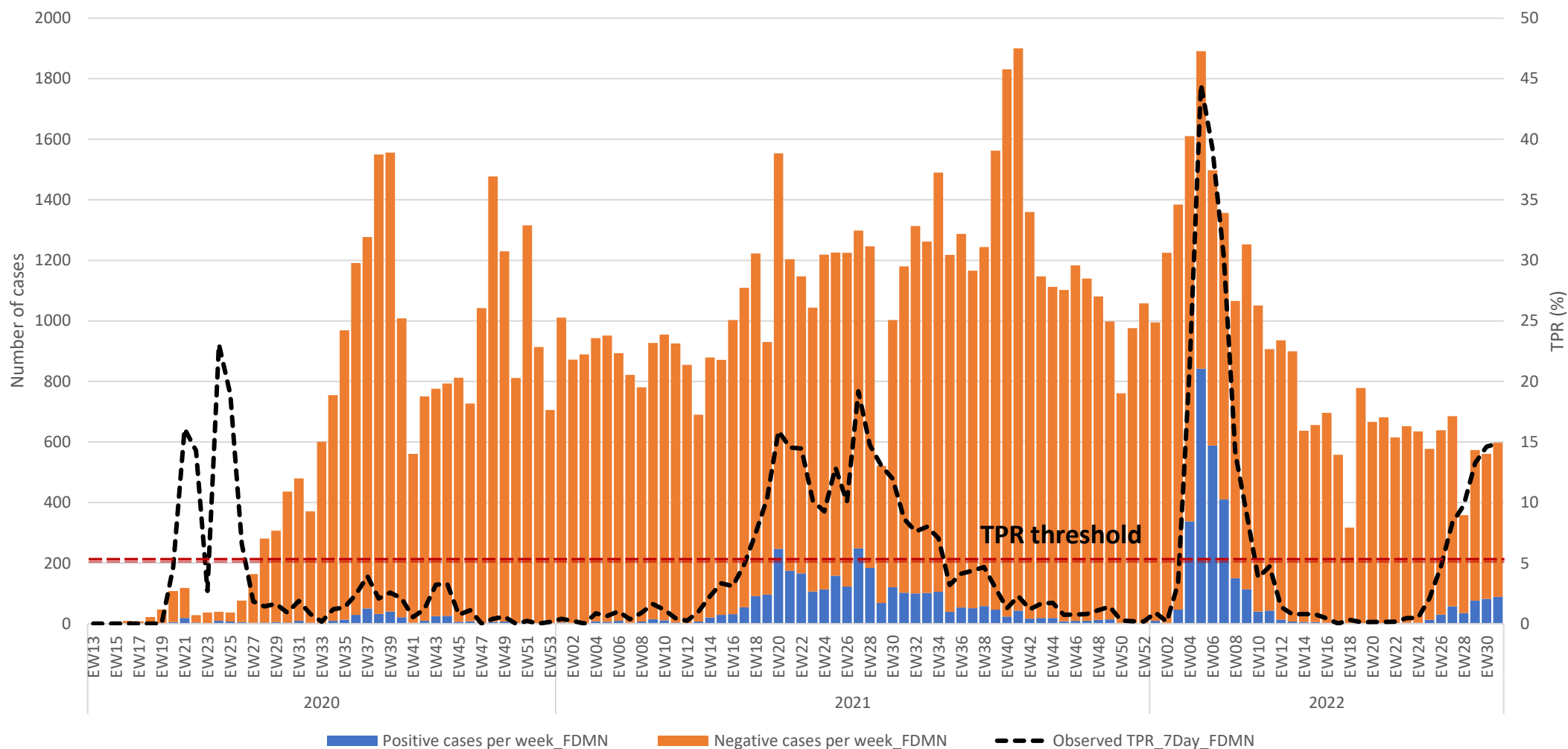
- **Median age** of tested and confirmed cases were 11 (0-120) and 20 (0-100) years respectively
- **Proportion of females** among tested and confirmed cases were 54% and 55% respectively
- **All the 34 camps**, have so far reported confirmed cases since the outbreak began, while the five camps with the highest number of reported cases were; C24-469, C17-432, C2W-404, C4-384, and C3-342
- No new death was reported in this Epi week. Total confirmed COVID-19 deaths so far reported to date stands at 43 with the average **case fatality ratio** of 0.7%
- The **weekly incidence** was 103.5 cases/1 million population in this Epi week which is higher than that of the previous week.

# Highlights: COVID-19



# Highlights: COVID-19

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



# EWARS Reporting Updates

- Currently, a total of 167 health facilities are registered in EWARS
  - Only 156/167 weekly reports were received on time in week 31
  - Timeliness of reporting for this week was 93%
  - One forty-eight (148) alerts were triggered
  - All alerts were reviewed and verified by the WHO EWARS team; this was more than the previous week (135 alerts in week 30, 2022).

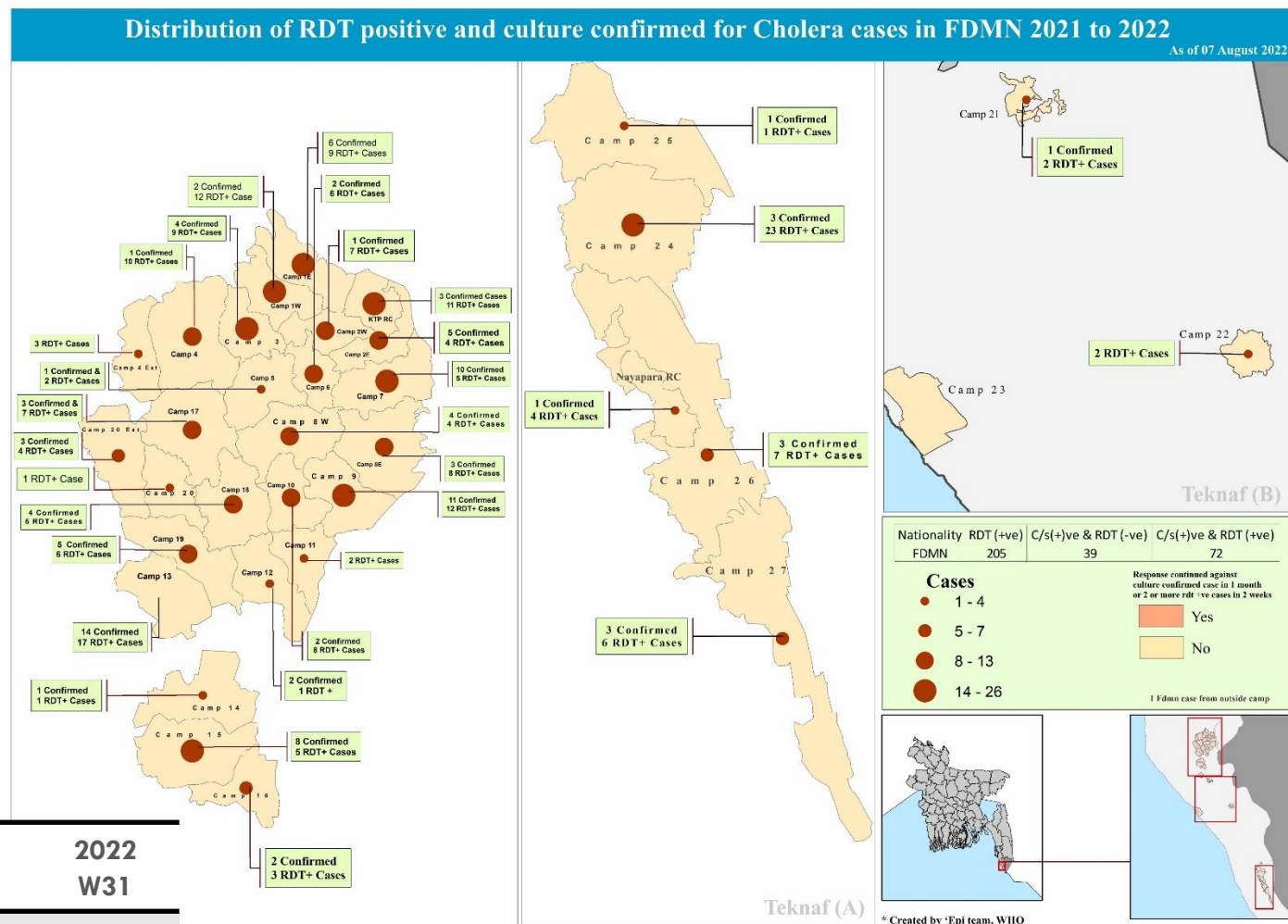
# Highlights: Morbidities and Mortalities

- Acute Respiratory Infections (17.1%), Diarrheal Diseases (3.3%) & confirmed dengue (1.8%) were the diseases and health conditions with the highest proportional morbidity in week 31.
- Monitoring of suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020.
- This Epi week, four (4) new SARI death was reported as highlighted below:

Year	Suspected SARI death reported	Reclassified as death due to probable COVID-19
2022	83	6
2021	96	15
2020	49	2

# Cholera/AWD Surveillance Updates

- In this week, there is one (1) new RDT-positive case was reported, among samples sent for testing.
- In 2022 total of eighty-eight (88) RDT-confirmed cholera cases were reported as of W31 2022. Of these 15 were positive for culture, and 73 were negative for culture.
- Cumulatively there are 739 RDT and culture-confirmed cholera cases of which 333 cases were culture-confirmed since transmission in 2018



	2018	2019	2020	2021	2022 W31
RDT positive/culture confirmed for Cholera	49	258	28	357	88
Culture confirmed for Cholera	7	184	5	136	15

# Diphtheria Surveillance Updates

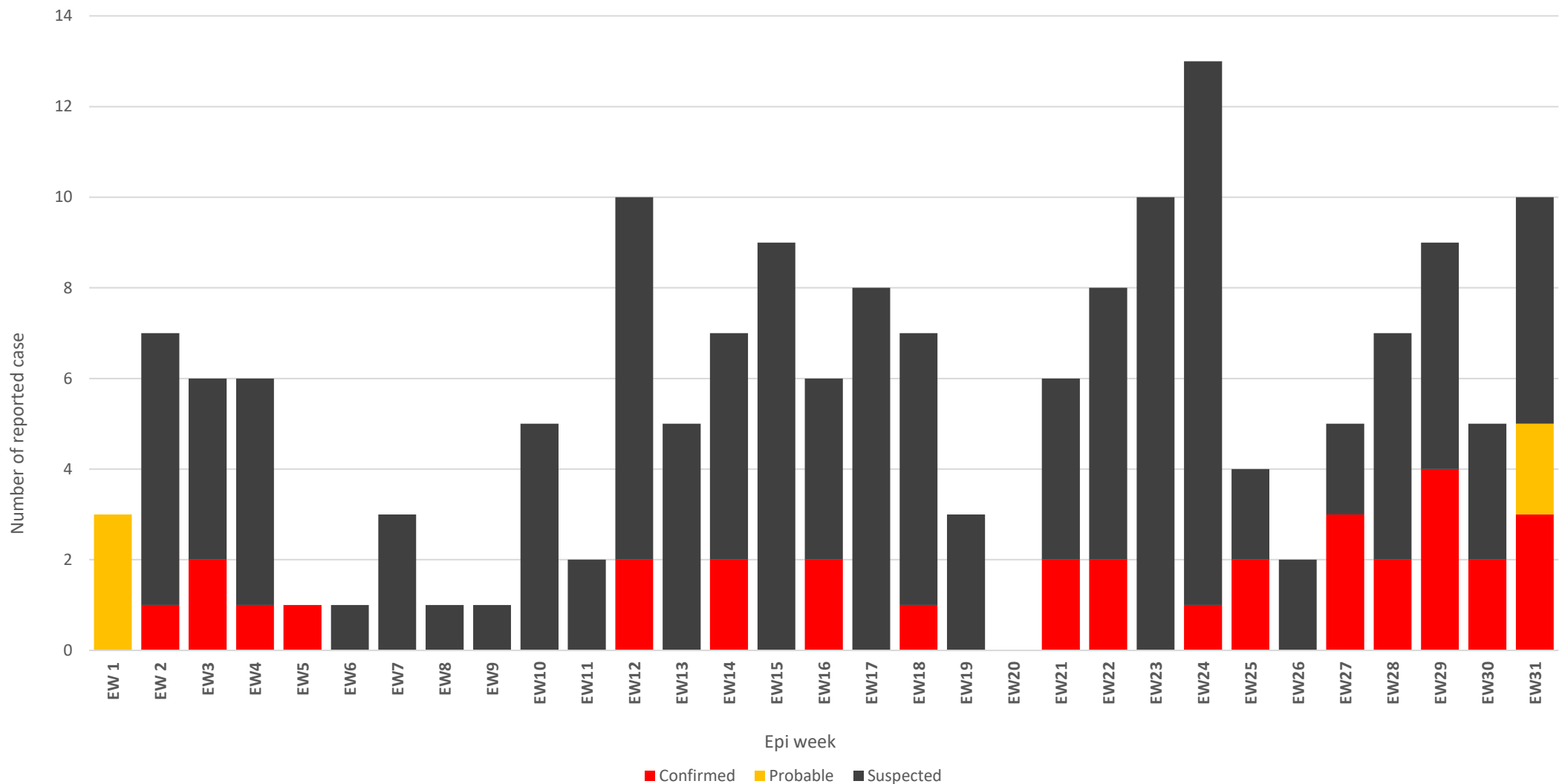
- Three (3) confirmed and 2 probable and 3 suspected diphtheria cases were reported in go.data in this Epi week 31
- The last confirmed case was reported on 30 July 2022
- In total 53 deaths have so far been reported since 2017, with the last death reported on 25 April 2022

Classification	2017	2018	2019	2020	2021	2022
Confirmed	66	226	31	19	30	33
Probable	1154	1555	60	9	29	5
Suspected	1796	3549	523	198	118	132
Death	30	14	3	0	5	1

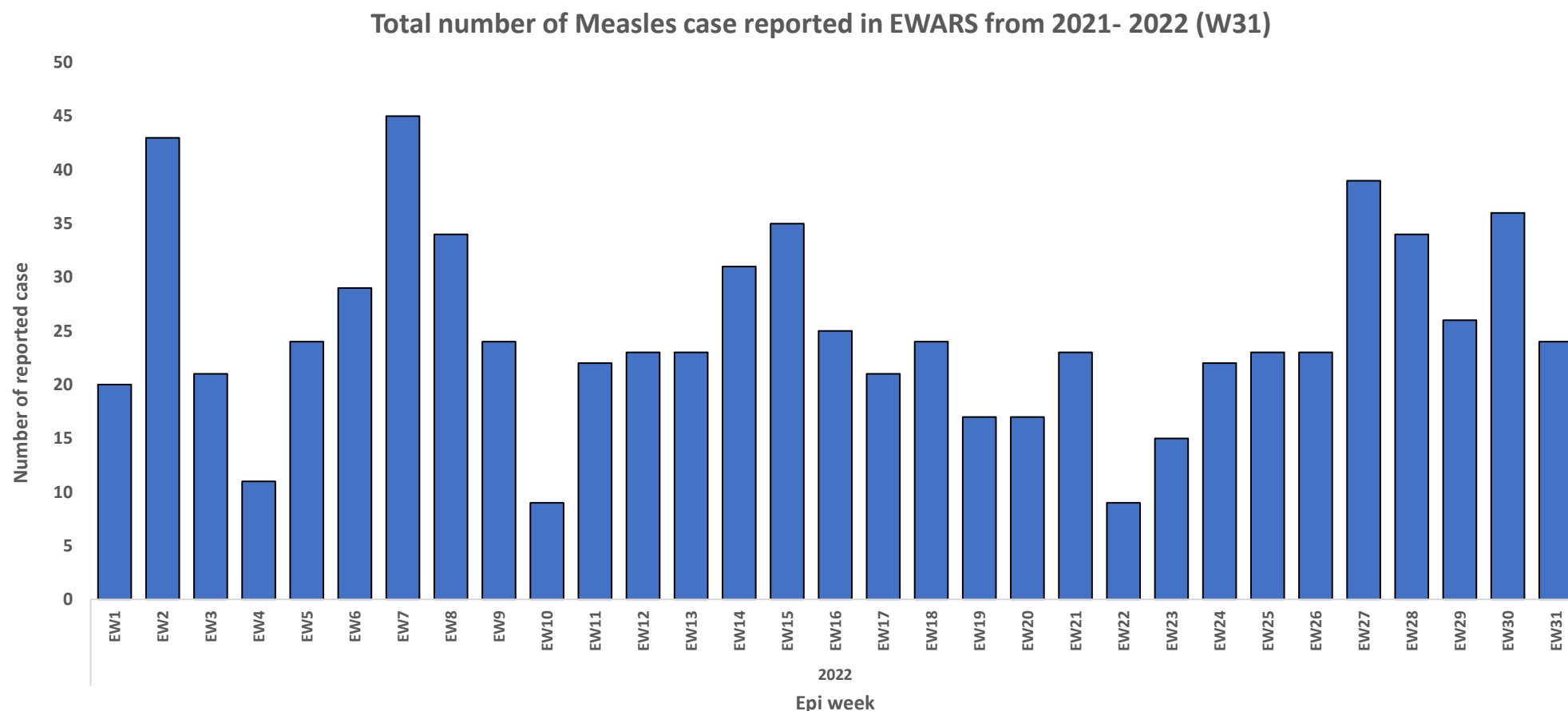


# Trends of Diphtheria cases

Total number of diphtheria case reported in EWARS from week 1-31, 2022



# Epi Curve of Suspected Measles Cases



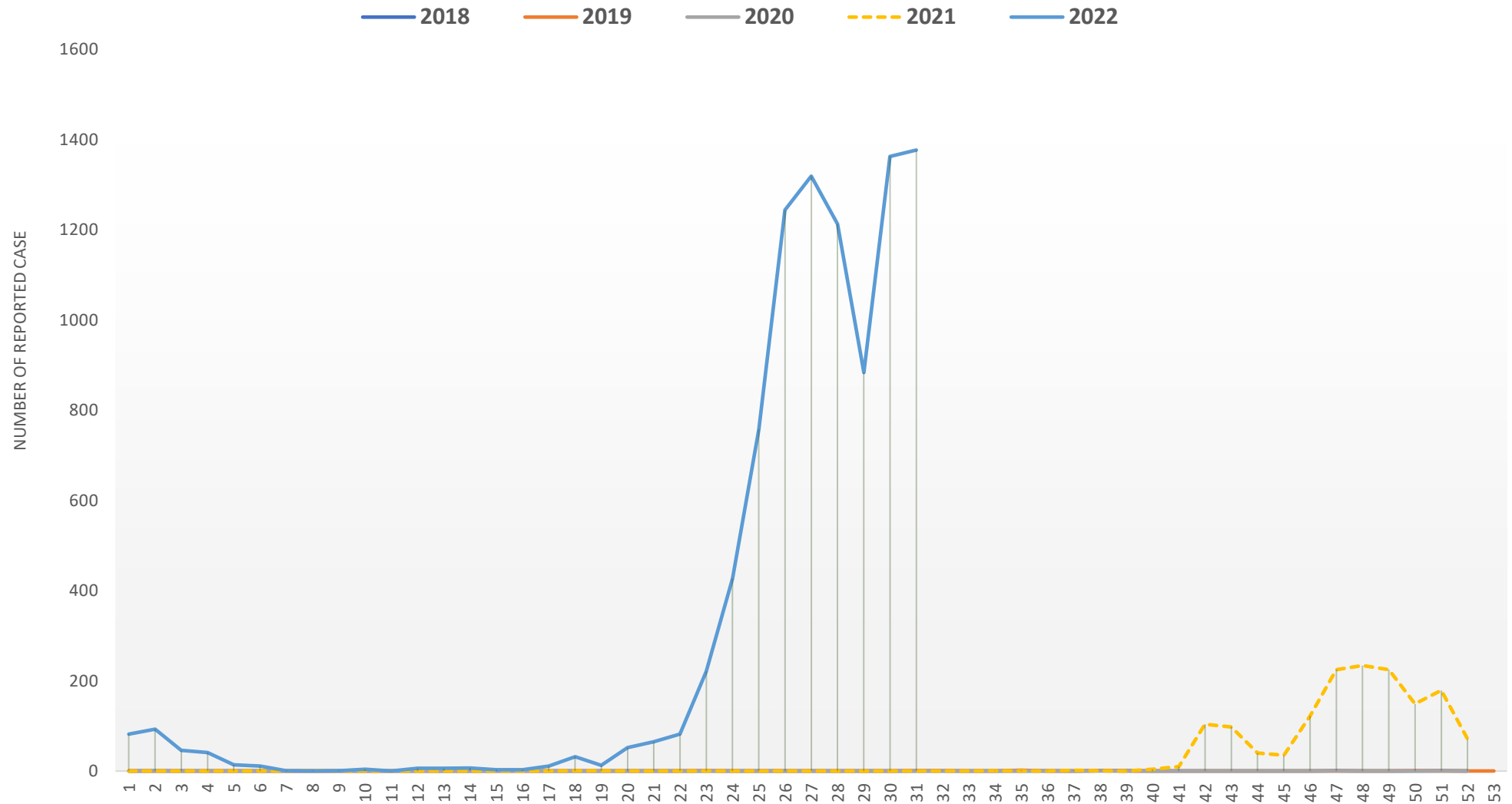
- > In week 31, 24 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 772 reported in 2022
- > About 53% (412/772) of the total suspected measles cases were reported through case-based reporting and samples collected for laboratory confirmation

# Dengue Surveillance Updates

Year	Month/Epi Week	Confirmed case	Death	Confirmed case (cumulative)	Death (cumulative)
2022	Jan (Ew1-5)	276	0	276	0
	Feb (Ew6-9)	13	0	289	0
	March (Ew10-14)	23	0	312	0
	April (Ew15-18)	49	0	361	0
	May (Ew19-22)	212	0	573	0
	June (Ew23-27)	3,969	2	4,542	2
	July (Ew28-31)	4,837	8	9,379	10

# Dengue Surveillance Updates

Yearly Trends of Dengue case trend from 2018 - Epi Week 31, 2022



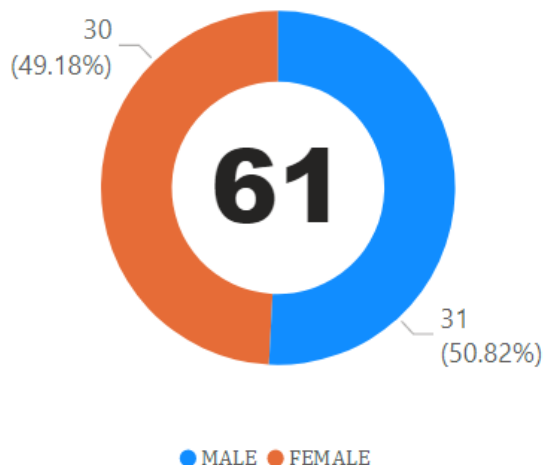
# Community-based Mortality surveillance updates Epi week 31

Probable causes of death	Epi week 31	In 2022
Still Birth	7 (11%)	119 (10%)
Neonatal Death (<28 days old)	3 (5%)	105 (10%)
Infectious Disease	4 (7%)	32 (3%)
Severe Acute Respiratory Infection (SARI)	1 (2%)	30 (2%)
Injury	--	29 (3%)
Maternal Death	--	29 (3%)
Acute Malnutrition	--	1 (0%)
Other	46 (75%)	784 (69%)
<b>Total</b>	<b>61 (100%)</b>	<b>1,129 (100%)</b>

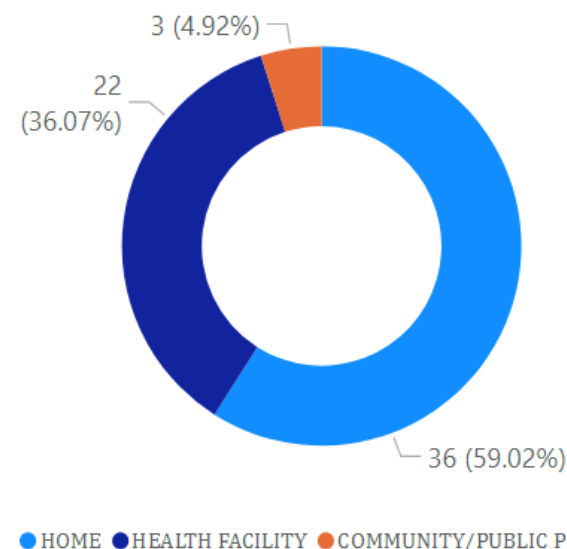
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable

# Community-based Mortality surveillance updates Epi week 31

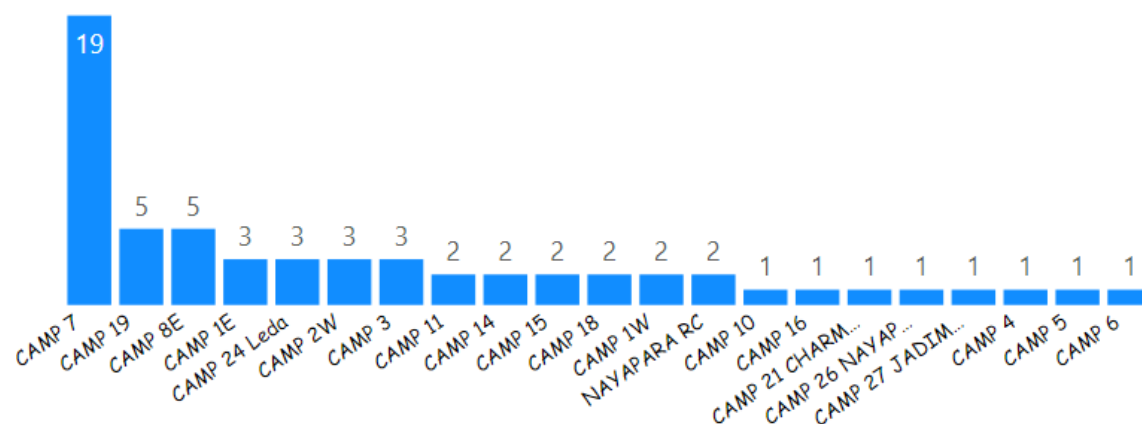
**Gender distribution**



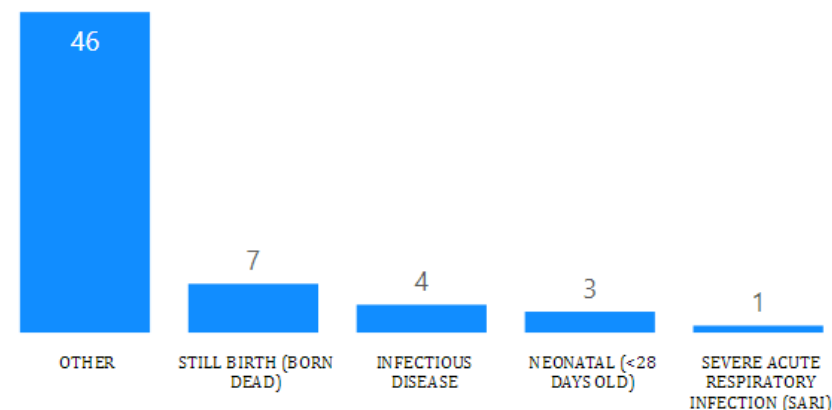
**Place of death**



**Distribution of deceased Camp**



**Distribution of Probable cause of death**



# Bangladesh

Rohingya Emergency Response

Early Warning, Alert and  
Response System (EWARS)

Epidemiological Bulletin W31 2022



Ministry of Health and Family  
Welfare Bangladesh



World Health  
Organization



HEALTH SECTOR  
COX'S BAZAR



Printed: 06:06 Thursday, 11 August 2022 UTC

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## Sources of data

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



## Highlights W31 2022

**Table 1 | Coverage**

#	%	
<b>918,841</b>	-	Estimated total Rohingya population <sup>1</sup>
<b>902,066</b>	<b>98%</b>	Total population under surveillance
<b>175</b>	-	Total number of health facilities
<b>167</b>	<b>95%</b>	Number of EWARS reporting sites

**Table 2 | Early warning performance indicators**

W31	Cumulative (2022)	
<b>156</b>	<b>5095</b>	Number of weekly reports received
<b>94%</b>	<b>93%</b>	Completeness
<b>94%</b>	<b>91%</b>	Timeliness

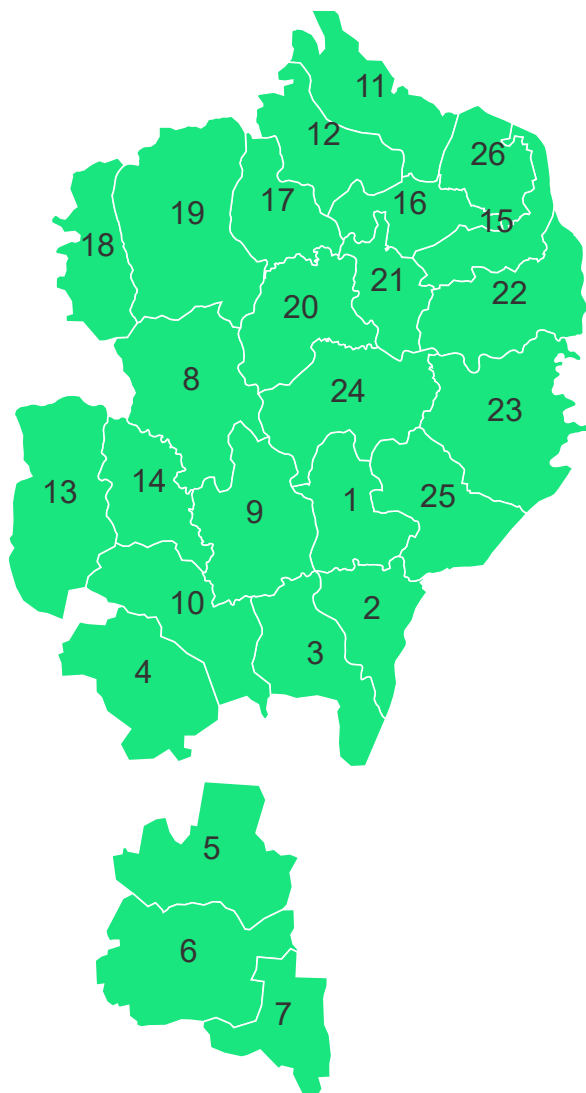
**Table 3 Alert performance indicators**

W31	Cumulative (2022)	
<b>148</b>	<b>2,717</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>0%</b>	<b>0%</b>	% completed risk assessment

<sup>1</sup> Source: UNHCR. Bangladesh: Joint Government of Bangladesh- UNHCR Population Factsheet. 31 December 2021.

**Map 1a | Ukhia completeness by camp**

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

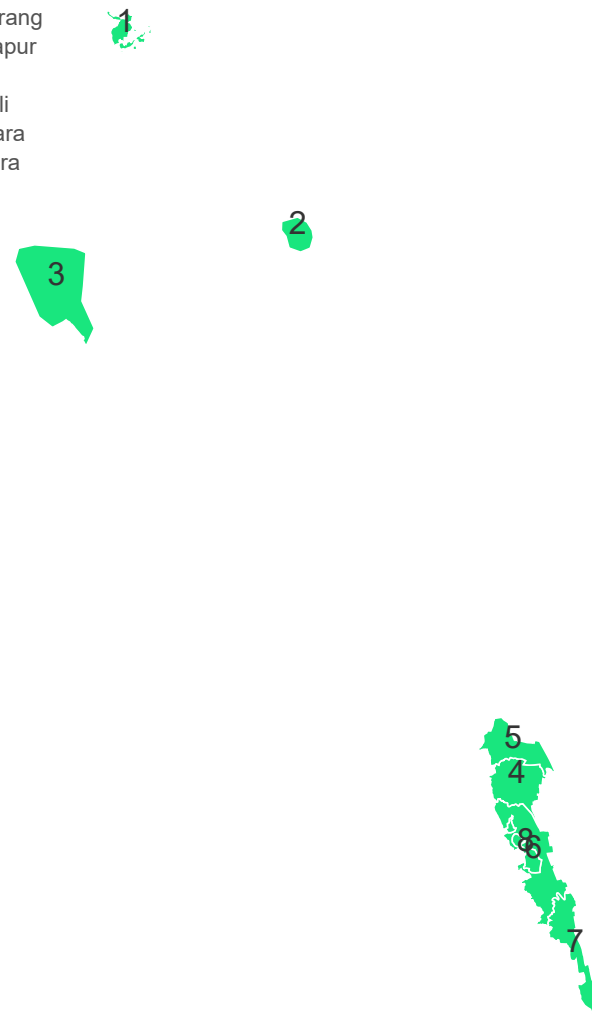


Completeness



**Map 1b | Teknaf completeness by camp**

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



Completeness

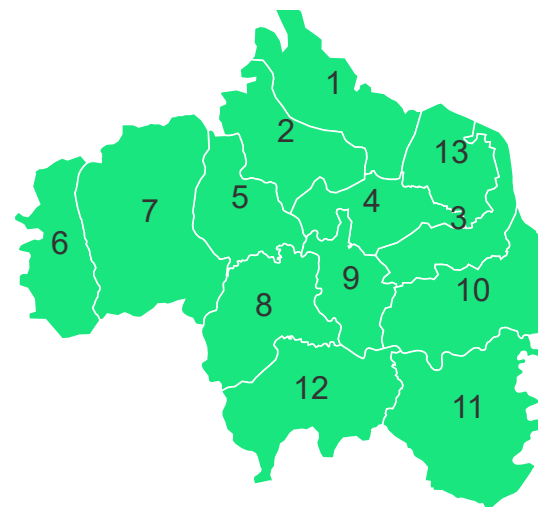


**Table 4 | Performance by camp (W31 2022)**

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	3	3	100%	0%
Camp 1W	5	4	100%	10%
Camp 2E	3	3	100%	0%
Camp 2W	3	4	100%	0%
Camp 3	5	5	100%	0%
Camp 4	5	5	100%	0%
Camp 4 Ext	1	1	100%	0%
Camp 5	5	5	100%	0%
Camp 6	3	2	67%	0%
Camp 7	6	5	100%	0%
Camp 8E	8	9	100%	0%
Camp 8W	4	4	100%	0%
Kutupalong RC	2	2	100%	0%

**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 (W31 2022)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	0%
Camp 11	8	8	100%	0%
Camp 12	6	6	100%	0%
Camp 13	10	10	100%	0%
Camp 14	7	7	100%	0%
Camp 15	9	8	100%	11%
Camp 16	6	6	100%	0%
Camp 17	5	4	80%	0%
Camp 18	5	5	100%	0%
Camp 19	5	5	100%	0%
Camp 20	4	4	100%	0%
Camp 20 Ext	3	2	100%	0%
Camp 9	6	5	83%	0%

Map 3 | Completeness by camp

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

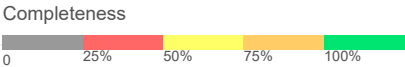
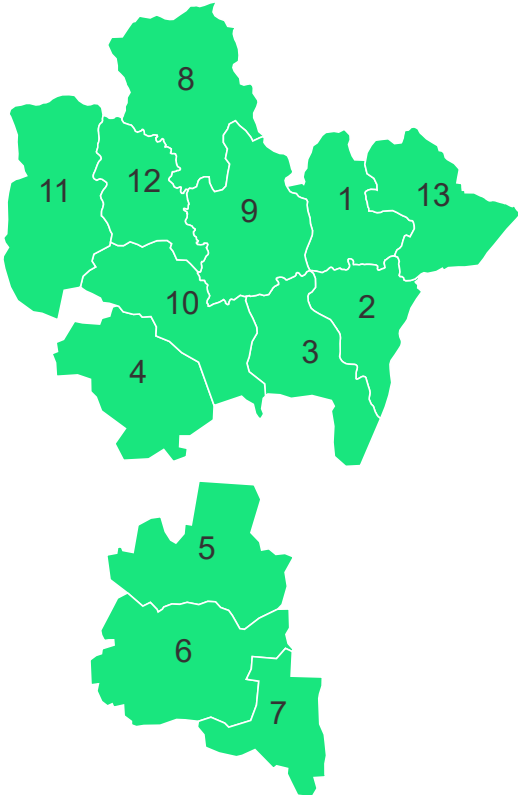
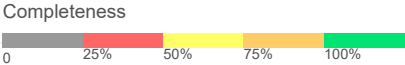
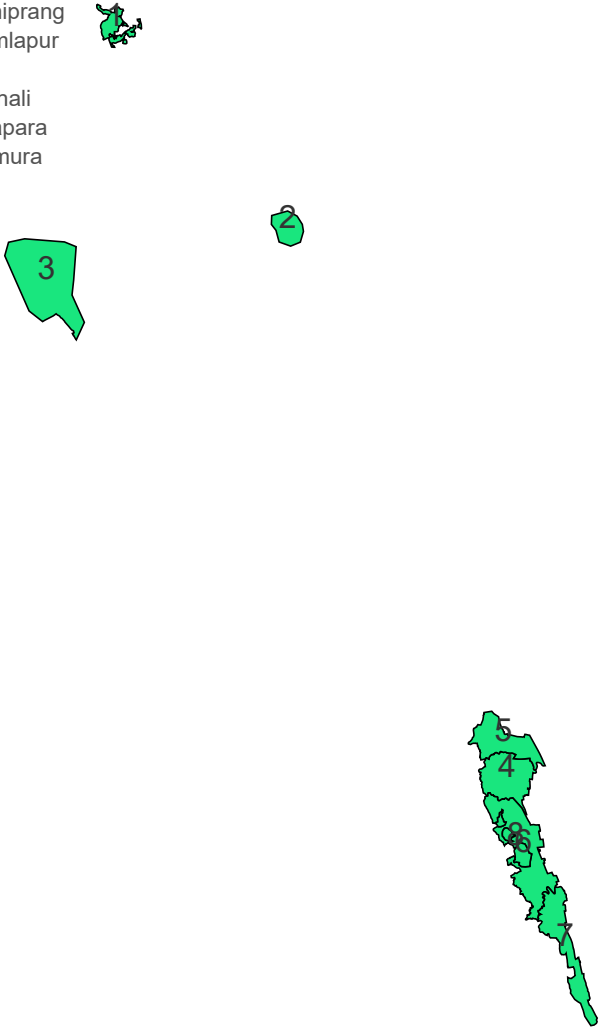


Table 6 | Performance by camp (W31 2022)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Teknaf				
Camp 21 Chakmarkul	4	4	100%	0%
Camp 22 Unchiprang	5	3	60%	0%
Camp 23 Shamlapur	3	2	67%	0%
Camp 24 Leda	2	1	50%	0%
Camp 25 Ali Khali	3	3	100%	0%
Camp 26 Nayapara	5	4	75%	0%
Camp 27 Jadimura	2	2	100%	0%
Nayapara RC	2	2	100%	0%

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 (W31 2022)

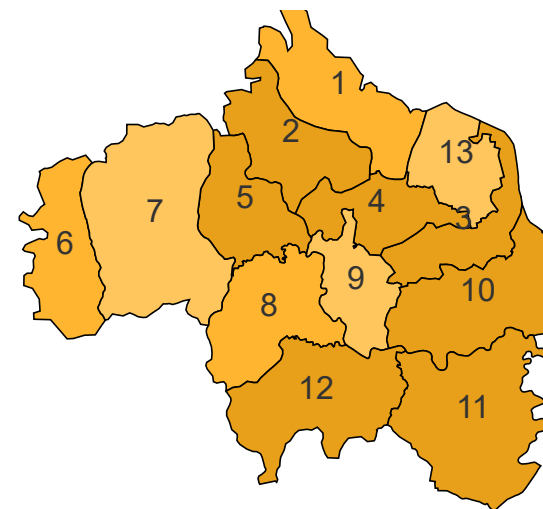
Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	1	0	0%	0%	IRC	4	2	50%	50%
AWARD	6	6	100%	100%	MSF	9	7	67%	67%
BASHMAH	1	0	0%	0%	MoH	12	10	92%	83%
BDRCS	11	11	100%	100%	MHI	0	0		
BRAC	11	11	100%	100%	Medair	0	0		
CARE	4	4	100%	100%	FH/MTI	4	4	100%	100%
DAM	0	0			PRANTIC	1	1	100%	100%
DBC	1	1	100%	100%	PULSE	1	1	100%	100%
DSK	1	1	100%	0%	QC	1	1	100%	100%
DCHT-PWJ	1	1	100%	100%	PHD	10	10	100%	100%
FRNDS	6	6	83%	83%	RPN	2	2	100%	100%
GK	10	10	100%	100%	RHU	3	3	100%	100%
Global One	1	0	0%	0%	RI	3	3	100%	100%
GUSS	1	1	100%	100%	RTMI	9	9	78%	78%
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%	DCHT-MM	1	1	100%	100%
HOPE	1	1	100%	100%	Turkish Government	1	1	100%	100%
ICRC	1	1	100%	100%	TdH	2	2	100%	100%
IOM	23	23	96%	83%					

Table 8 | Performance by camp

Northern group	W31		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	5	100%	66	100%
Camp 1W	7	100%	152	100%
Camp 2E	8	100%	302	100%
Camp 2W	6	100%	86	100%
Camp 3	6	100%	134	100%
Camp 4	2	100%	115	100%
Camp 4 Ext	3	100%	39	100%
Camp 5	4	100%	97	100%
Camp 6	1	100%	75	100%
Camp 7	8	100%	49	100%
Camp 8E	9	100%	51	100%
Camp 8W	10	100%	138	100%
Kutupalong RC	2	100%	57	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

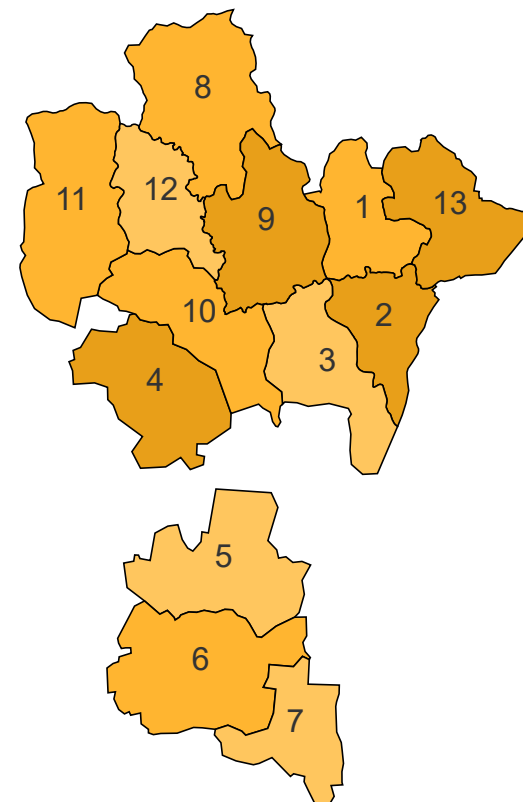


Table 9 | Performance by camp

Southern group	W31		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	4	100%	49	100%
Camp 11	6	100%	69	100%
Camp 12	2	100%	95	100%
Camp 13	6	100%	105	100%
Camp 14	1	100%	59	100%
Camp 15	5	100%	99	100%
Camp 16	2	100%	77	100%
Camp 17	5	100%	73	100%
Camp 18	6	100%	110	99%
Camp 19	4	100%	39	100%
Camp 20	1	100%	36	100%
Camp 20 Ext	4	100%	30	100%
Camp 9	7	100%	122	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	W31		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	3	100%	35	100%
Camp 22 Unchiprang	0	0%	46	100%
Camp 23 Shamlapur	0	0%	15	100%
Camp 24 Leda	4	100%	62	100%
Camp 25 Ali Khali	0	0%	21	100%
Camp 26 Nayapara	7	100%	80	100%
Camp 27 Jadimura	4	100%	49	100%
Nayapara RC	1	100%	29	100%

Map 7 | Number of alerts by camp

- 1

Camp 21 Chakmarkul
- 2

Camp 22 Unchiprang
- 3

Camp 23 Shamlapur
- 4

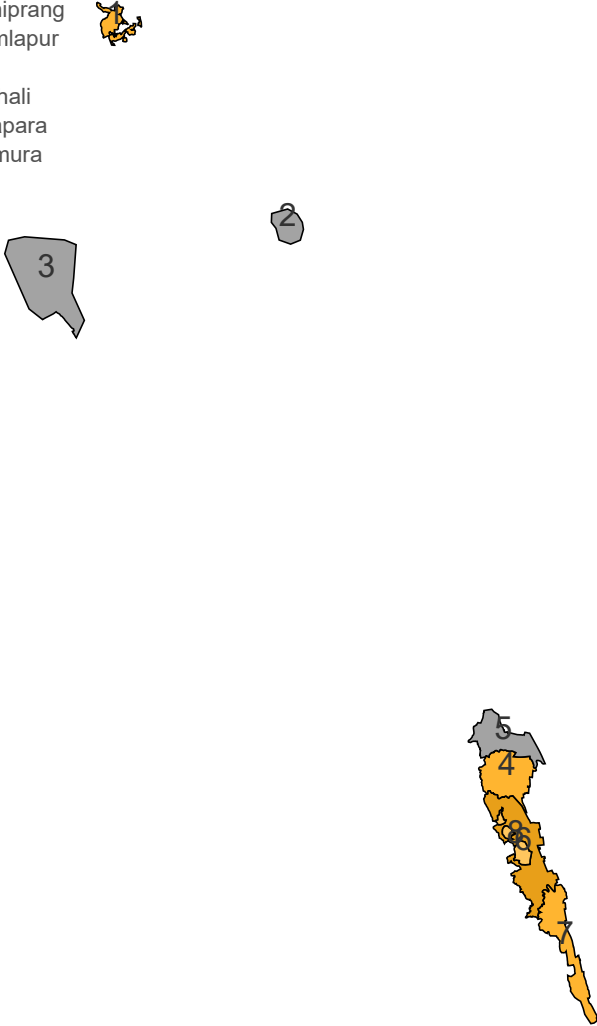
Camp 24 Leda
- 5

Camp 25 Ali Khali
- 6

Camp 26 Nayapara
- 7

Camp 27 Jadimura
- 8

Nayapara RC



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

Event	W31		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
<b>Indicator-based surveillance</b>				
Malaria	0	0%	3	100%
Measles	9	100%	339	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	19	100%
Meningitis	1	100%	16	100%
Haem. fever (susp.)	1	100%	14	100%
NNT	0	0%	3	100%
Unexp. fever	7	100%	103	100%
AWD	5	100%	159	100%
ARI	2	100%	138	100%
AJS	2	100%	64	100%
Varicella (Susp.)	0	0%	107	100%
Suspected COVID-19	0	0%	0	0%
<b>Event-based surveillance</b>				
EBS total	2	100%	158	100%

**Table 12** | Risk assessment

W31	Cumulative (2022)	
0	7	Low risk
0	1	Moderate risk
0	0	High risk
0	0	Very high risk

## For more help and support, please contact:

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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>



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 W31 2022



Ministry of Health and Family  
Welfare Bangladesh



World Health  
Organization



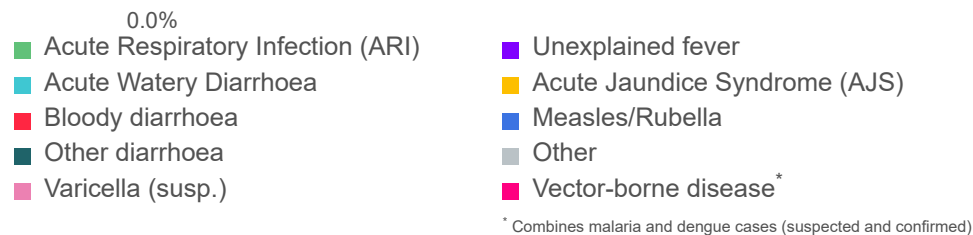
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COX'S BAZAR



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# Proportional morbidity

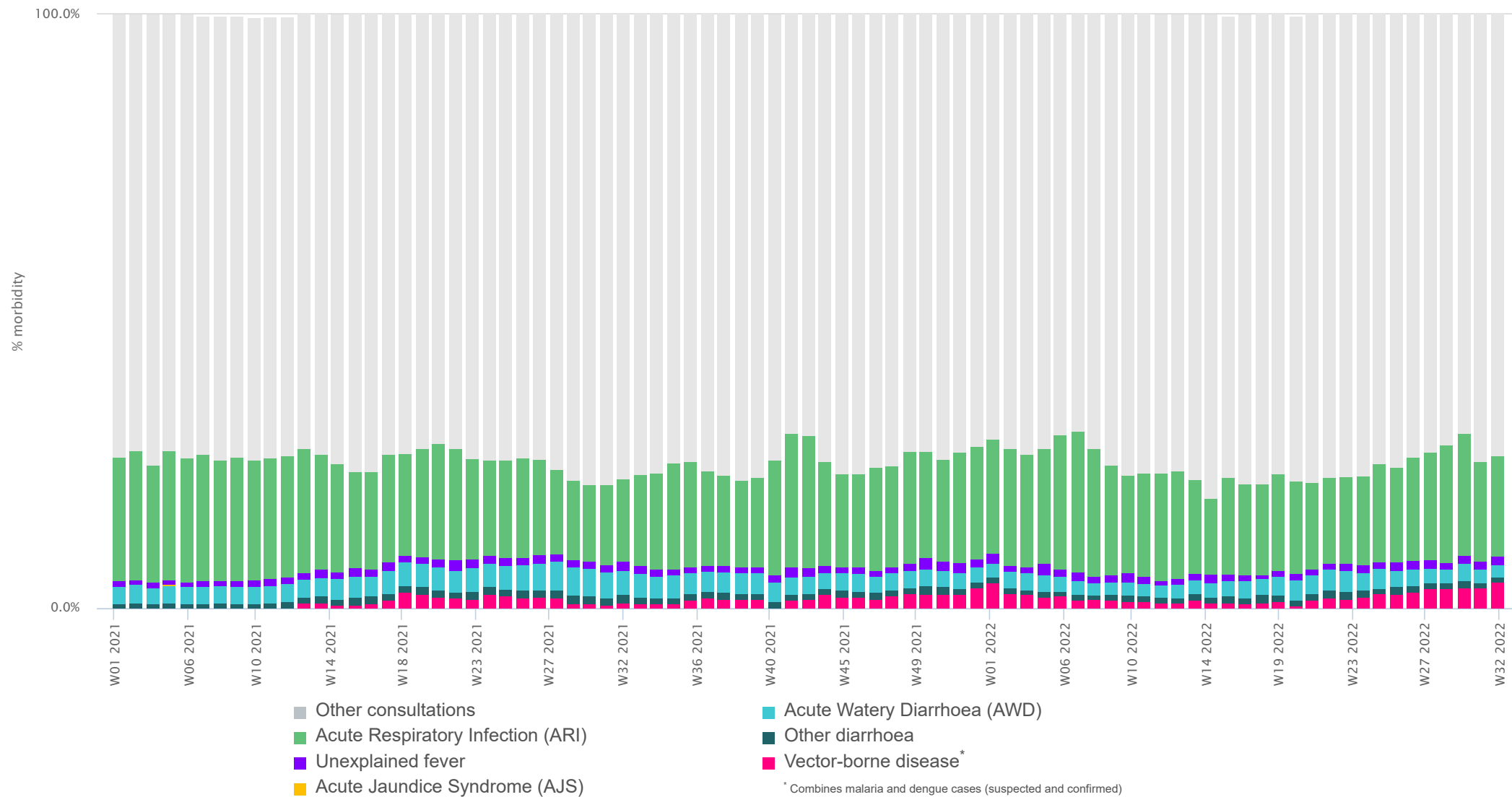
**Figure 1 | Proportional morbidity (W31 2022)**



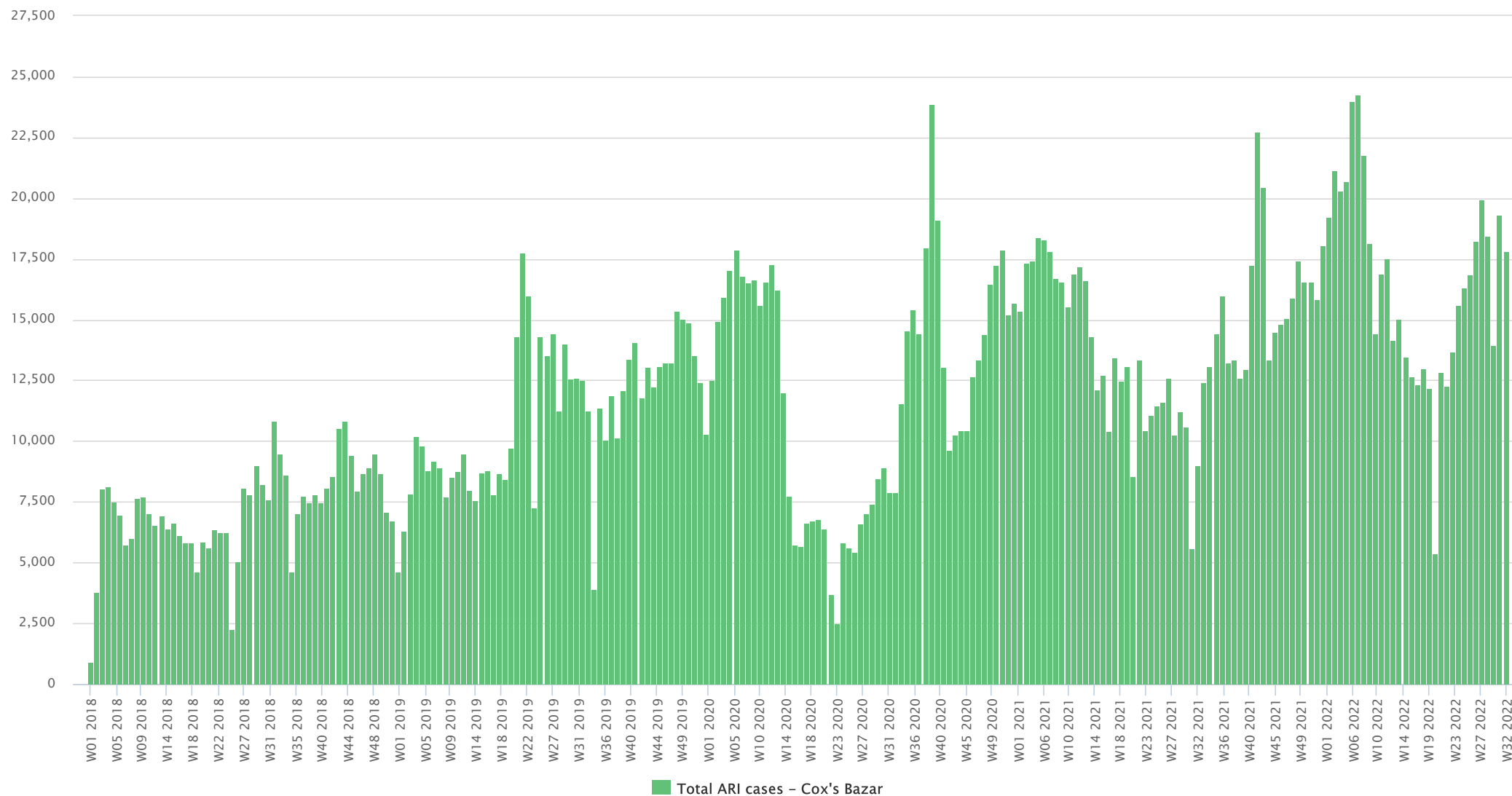
Disease	W31		2022	
	# cases	% morbidity	# cases	% morbidity
AWD	2,383	2.2%	80,635	2.6%
Bloody diarr.	259	0.2%	11,278	0.4%
Other diarr.	1,009	0.9%	32,410	1.0%
Susp. Varicella	34	0.0%	8,689	0.3%
ARI	18,875	17.1%	545,740	17.5%
Measles/Rub.	20	0.0%	703	0.0%
AFP	0	0.0%	51	0.0%
Susp. mening.	15	0.0%	108	0.0%
AJS	21	0.0%	710	0.0%
Susp. HF	6	0.0%	42	0.0%
Neo. tetanus	0	0.0%	8	0.0%
Adult tetanus	0	0.0%	12	0.0%
Malaria (conf.)	5	0.0%	321	0.0%
Malaria (susp.)	1,818	1.6%	46,550	1.5%
Dengue (conf.)	2,029	1.8%	12,484	0.4%
Dengue (susp.)	995	0.9%	5,543	0.2%
Unexpl. fever	1,444	1.3%	37,784	1.2%
Sev. Malnut.	59	0.1%	1,253	0.0%
Inj./Wounds	1,860	1.7%	67,594	2.2%
Other	79,676	72.0%	2,261,875	72.5%
<b>Total</b>	<b>109,183</b>	<b>100%</b>	<b>3,120,431</b>	<b>100%</b>

## Trend in consultations and key diseases

**Figure 2** | Trend in proportional morbidity for key diseases (W31)

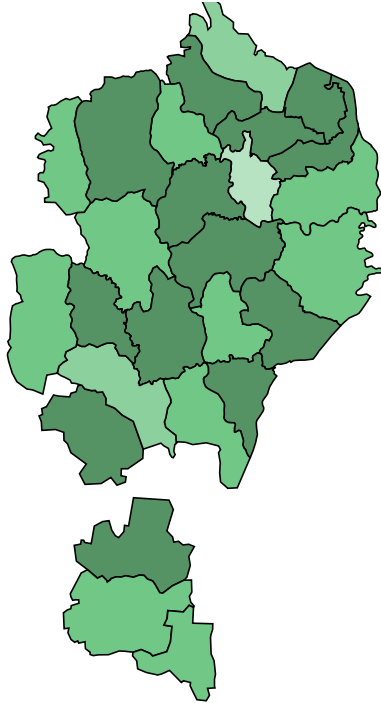


**Figure 3** | Trend in number of cases over time (W38 2017 - W31 2022)

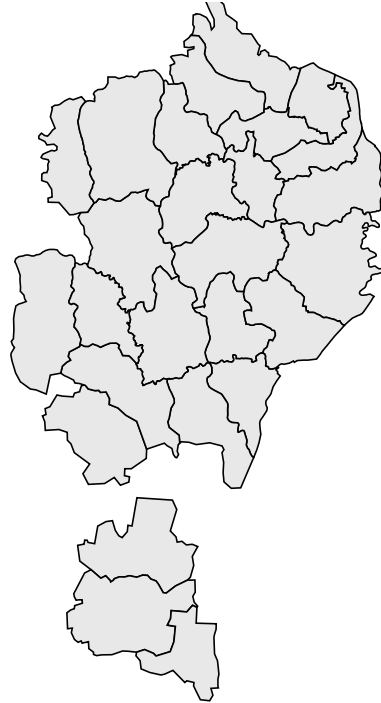


**Map 1** | Map of cases by camp (W31 2022)

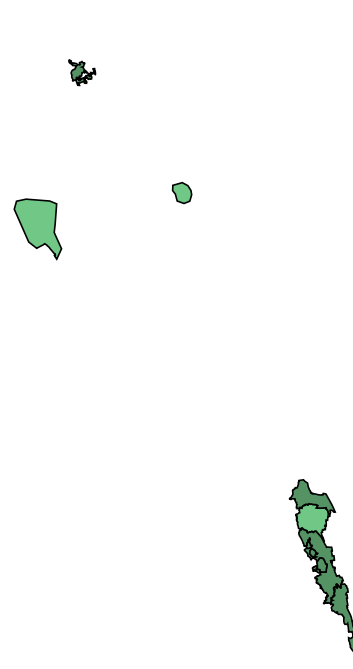
**a. Ukhia** | Number of cases



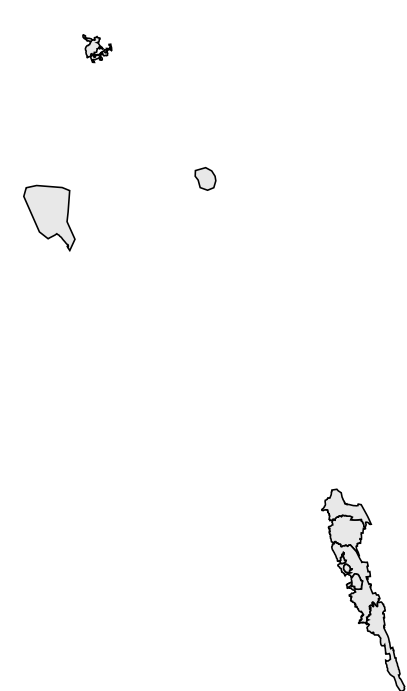
**b. Ukhia** | Number of alerts



**c. Teknaf** | Number of cases



**d. Teknaf** | Number of alerts



## Map legend

Number of cases



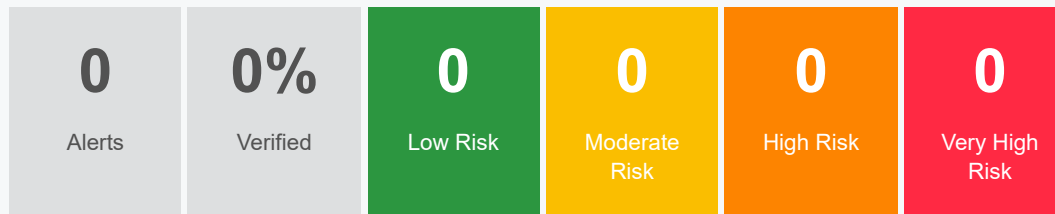
Number of alerts



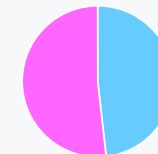
## Alert threshold

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

## Alert management (W31 2022)

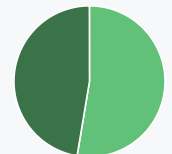


## Figure | % sex



Male Female

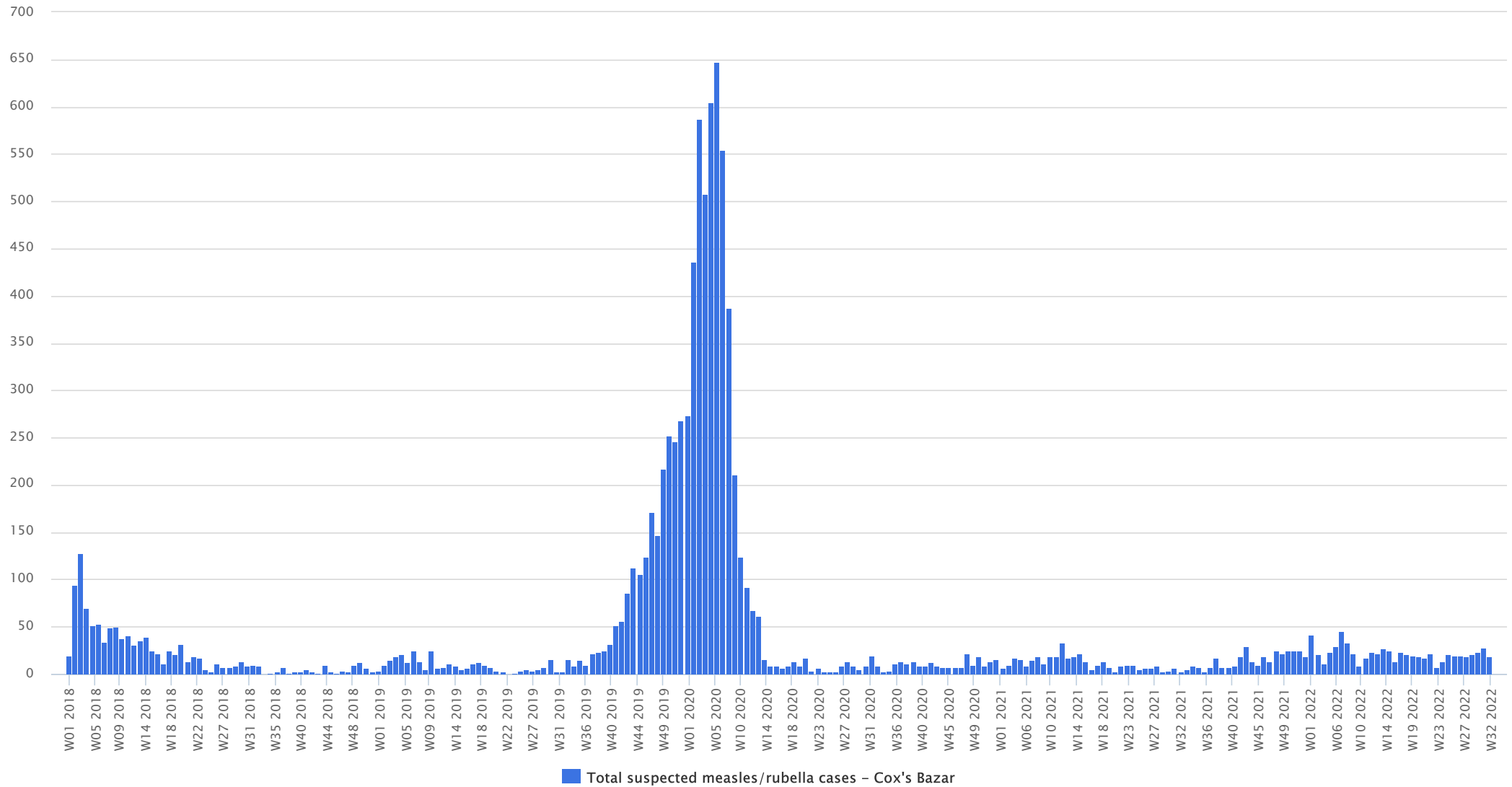
## Figure | % age



< 5 >= 5

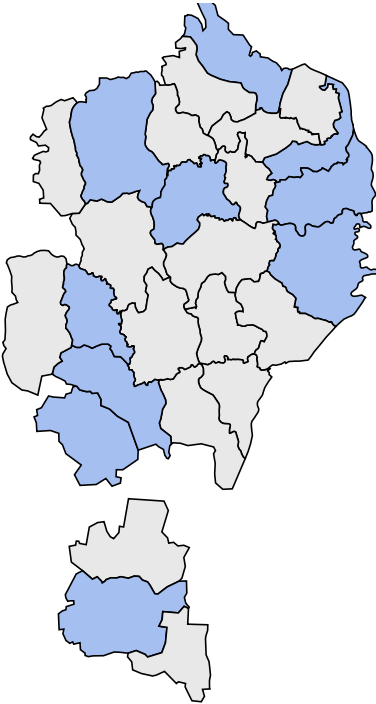


**Figure 4** | Trend in number of suspected cases over time (W38 2017 - W31 2022)

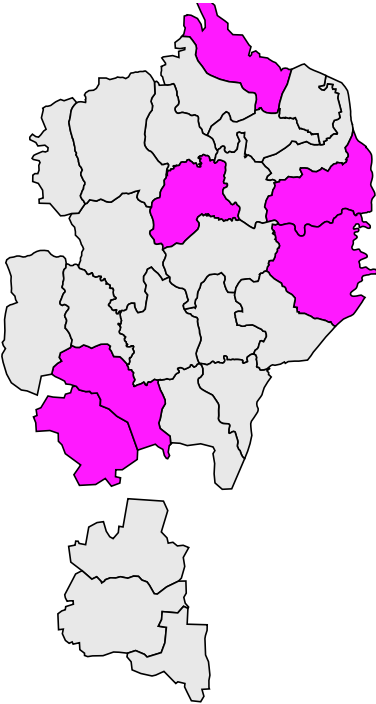


Map 2 | Map of cases by camp (W31 2022)

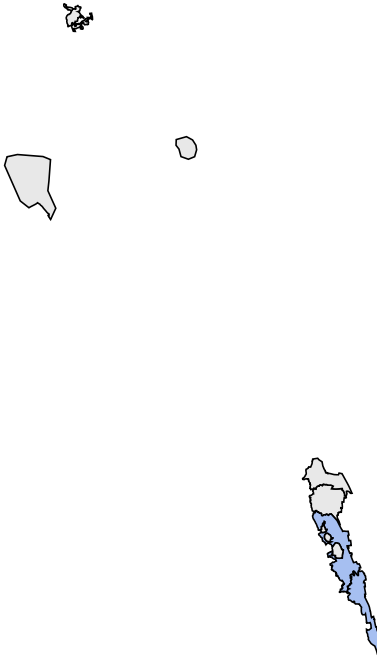
a. Ukhia | Number of cases



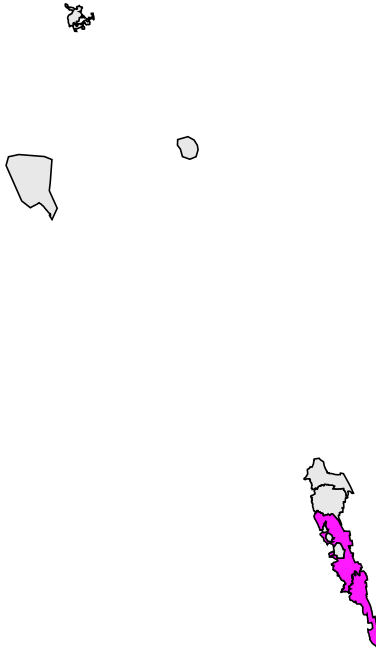
b. Ukhia | Number of alerts



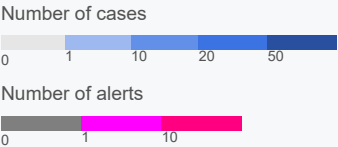
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold  
1 case. Source: IEDCR

Alert management (W31 2022)

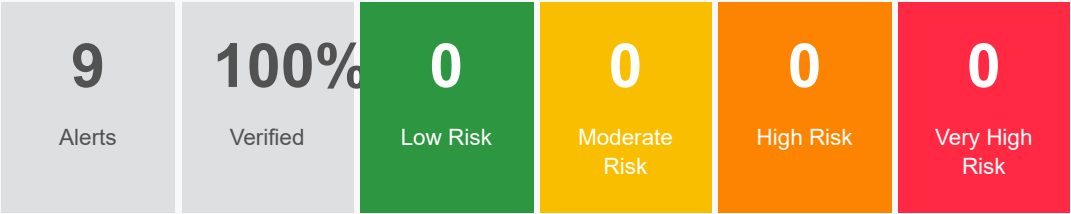


Figure | % sex

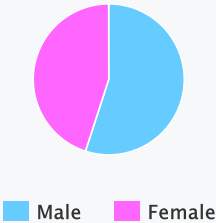
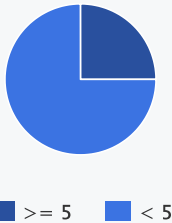
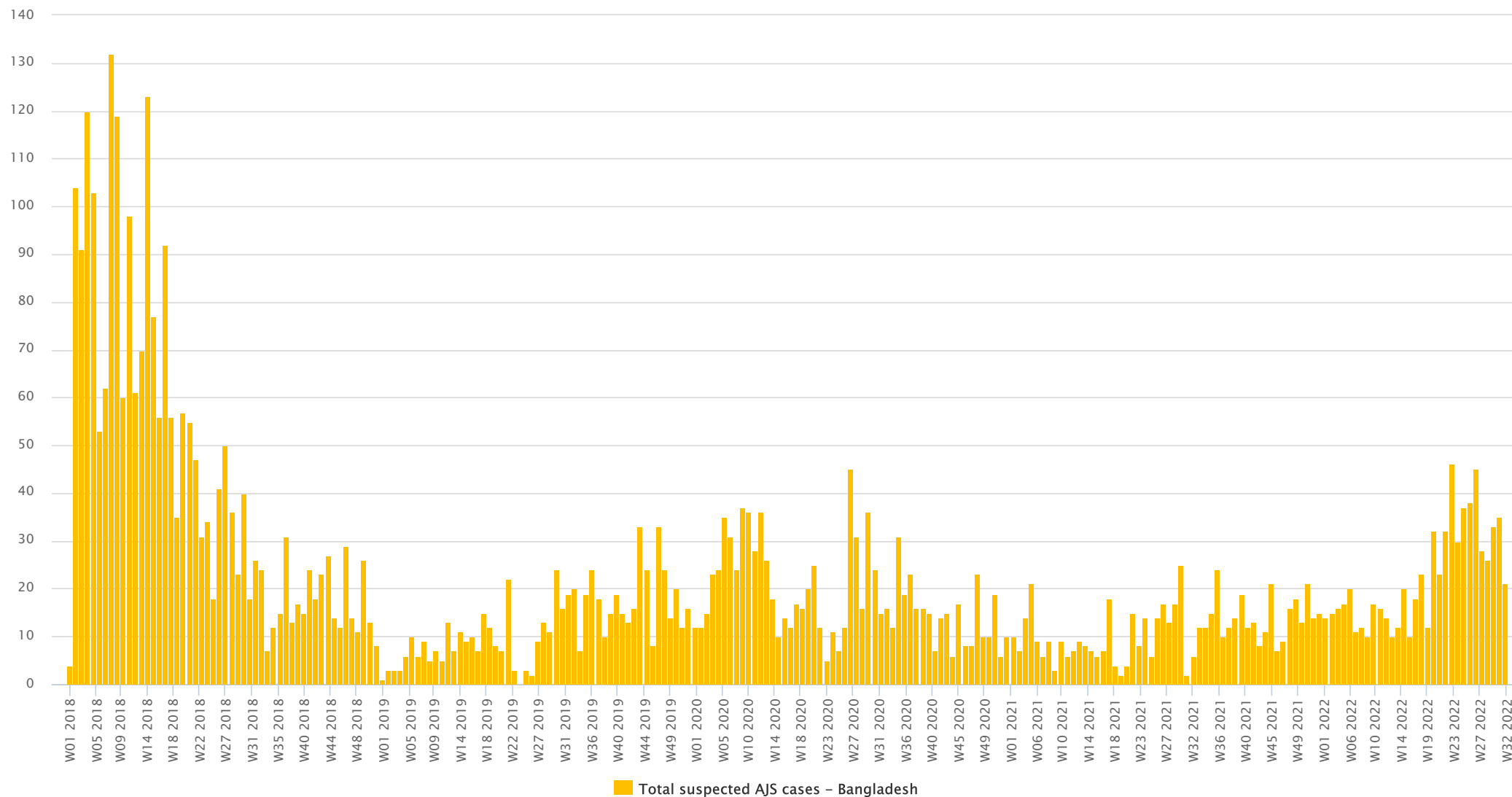


Figure | % age

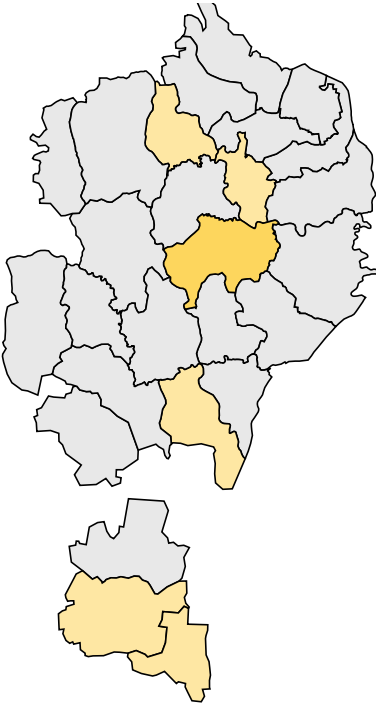


**Figure 5** | Trend in number of cases over time (W38 2017 - W31 2022)

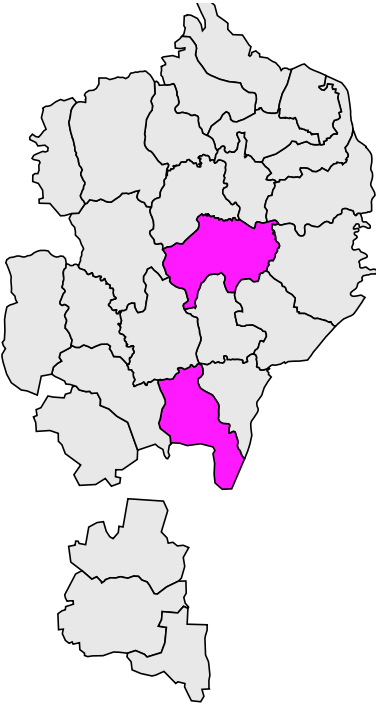


Map 3 | Map of cases by camp (W37 2017 - W31 2022)

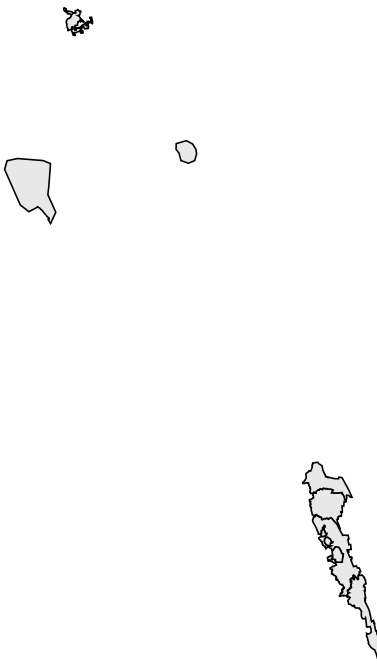
a. Ukhia | Number of cases



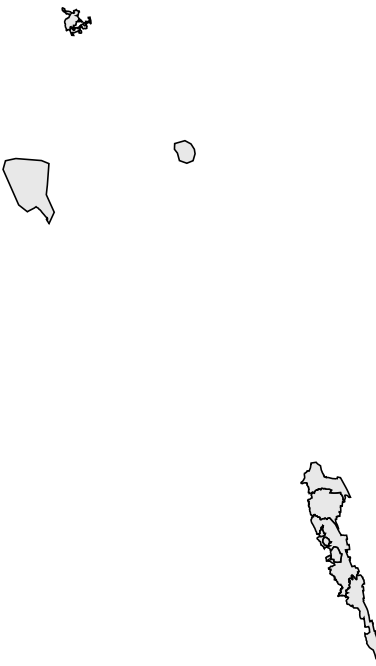
b. Ukhia | Number of alerts



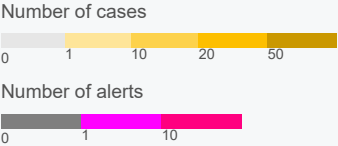
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W31 2022)

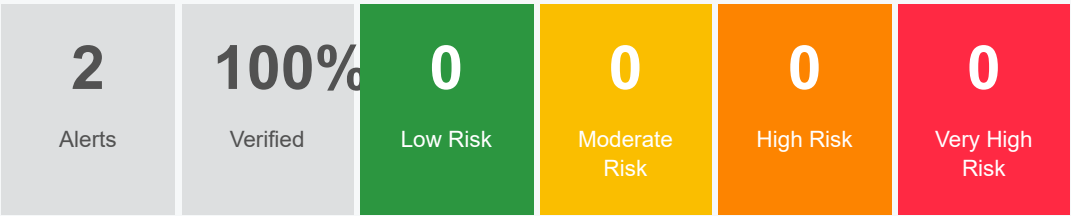


Figure | % sex

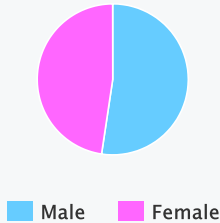
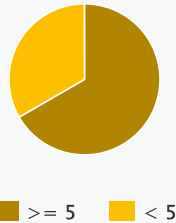
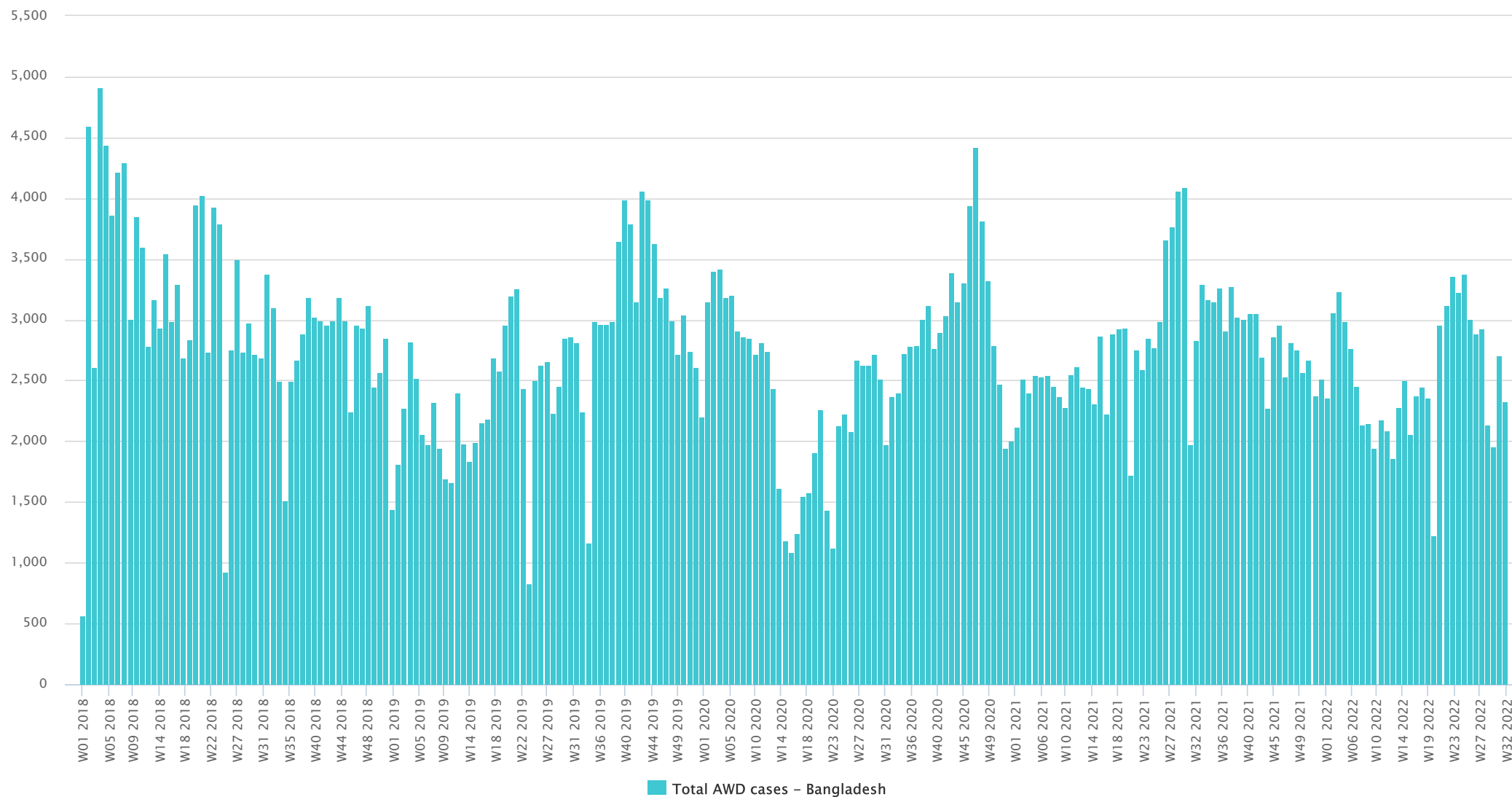


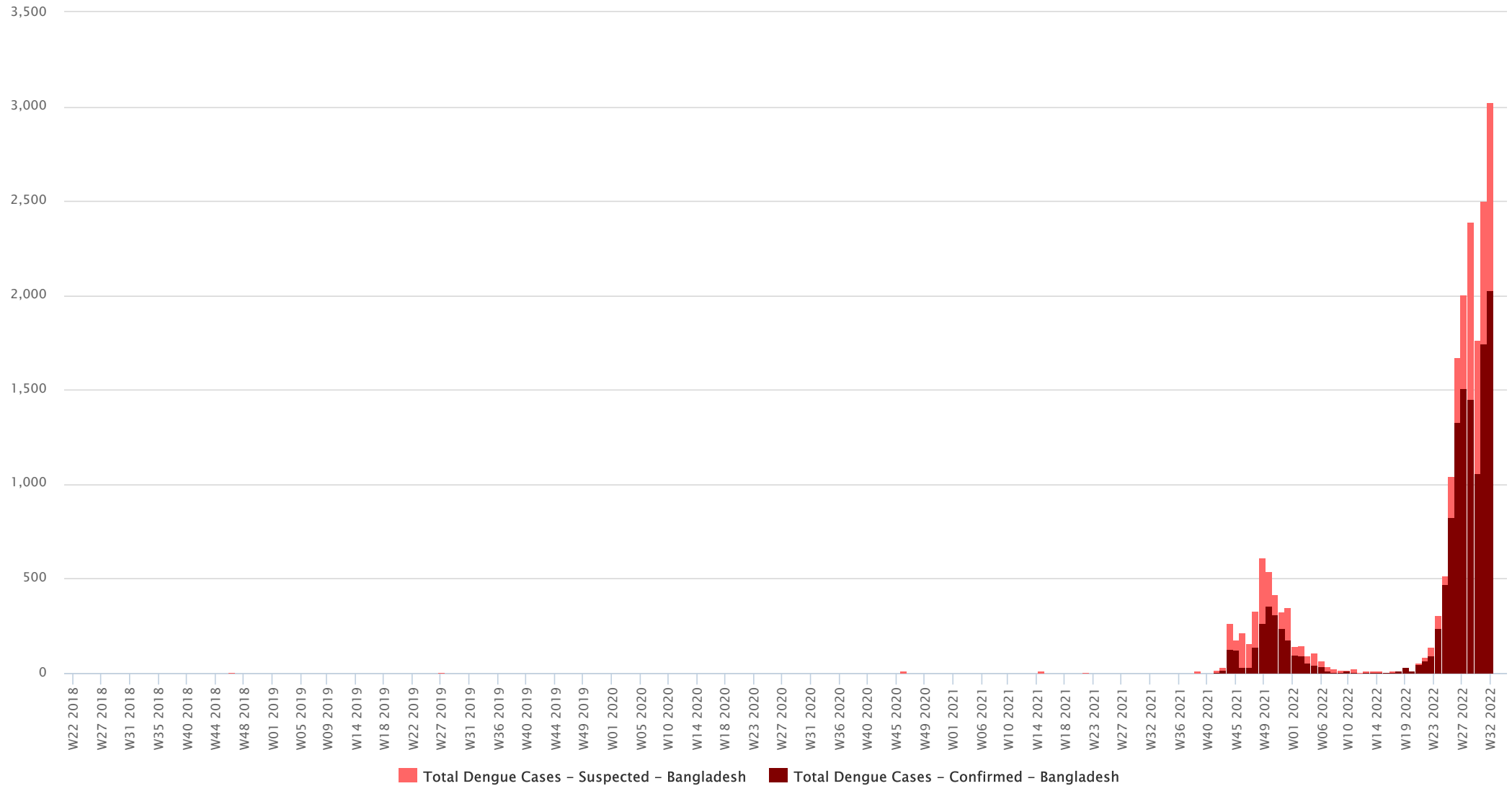
Figure | % age



**Figure 6** | Trend in number of cases over time (W38 2017 - W31 2022)

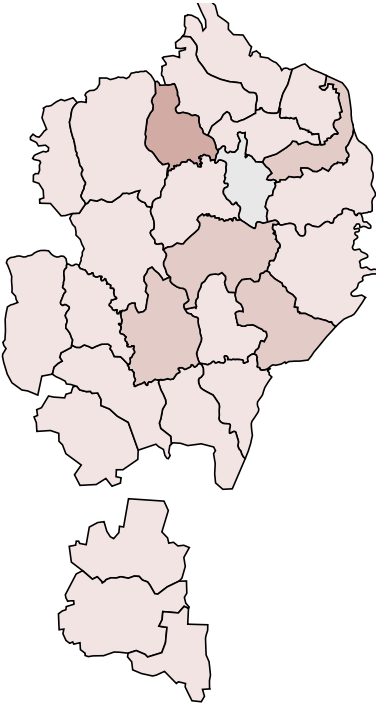


**Figure 7** | Trend in number of cases over time (W38 2017 - W31 2022)

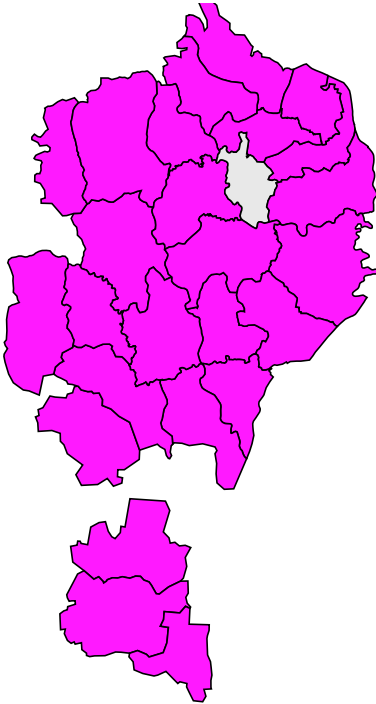


Map 4 | Map of cases by camp (W37 2017 - W31 2022)

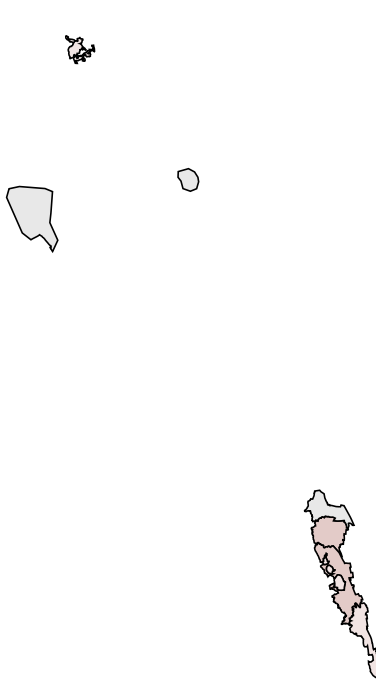
a. Ukhia | Number of cases



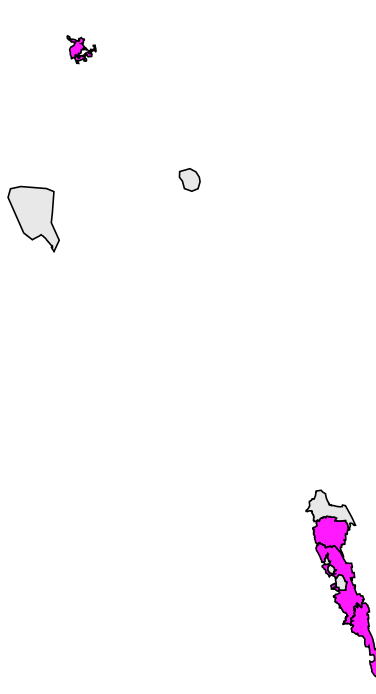
b. Ukhia | Number of alerts



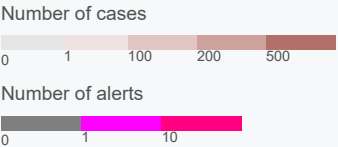
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W31 2022)

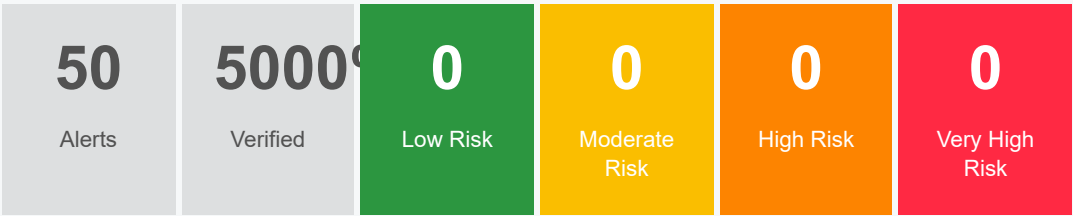


Figure | % sex

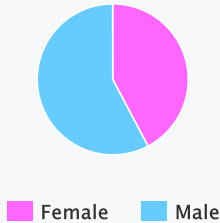


Figure | % age

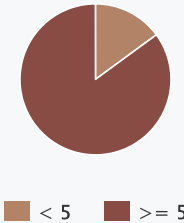
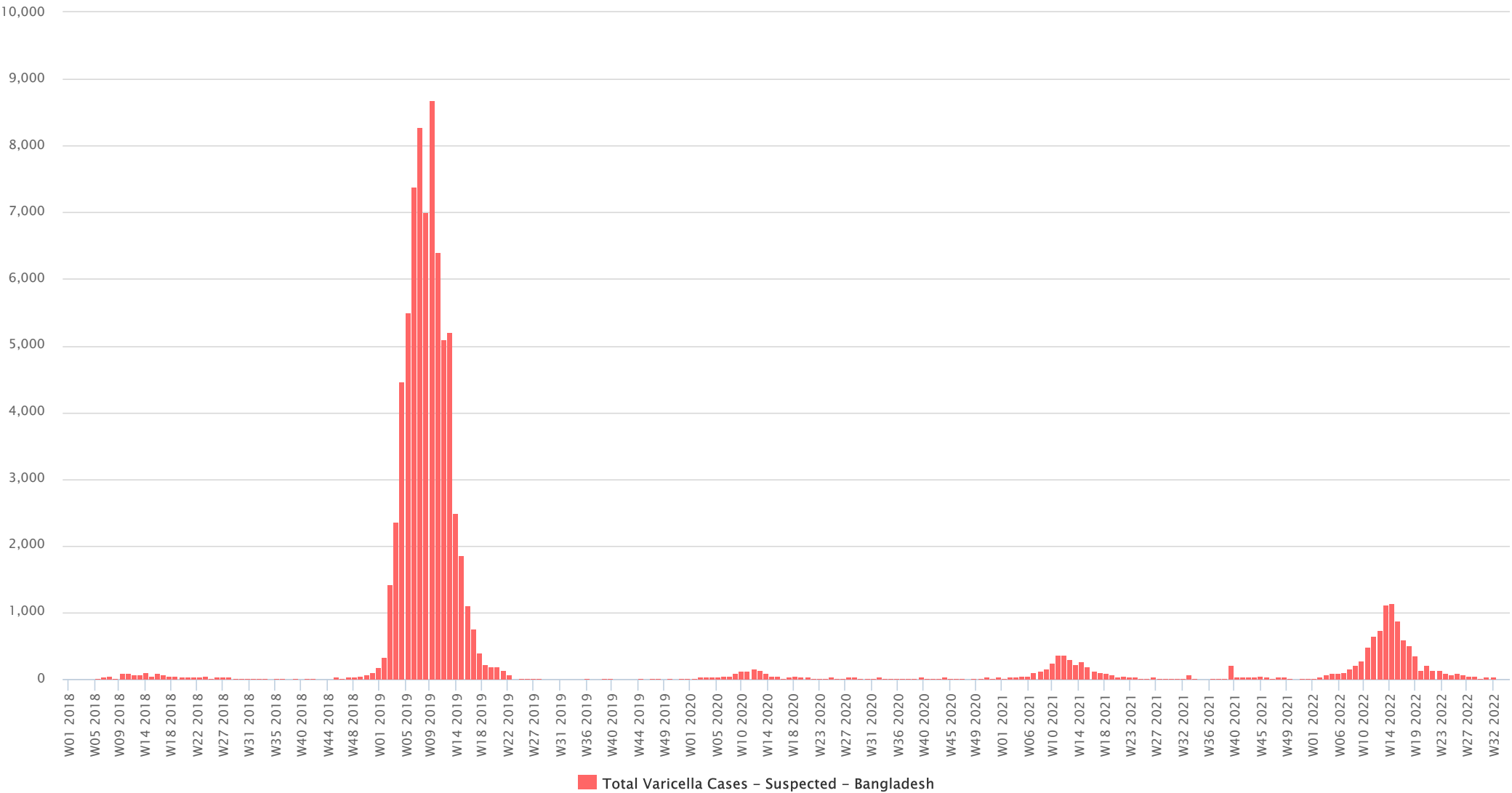


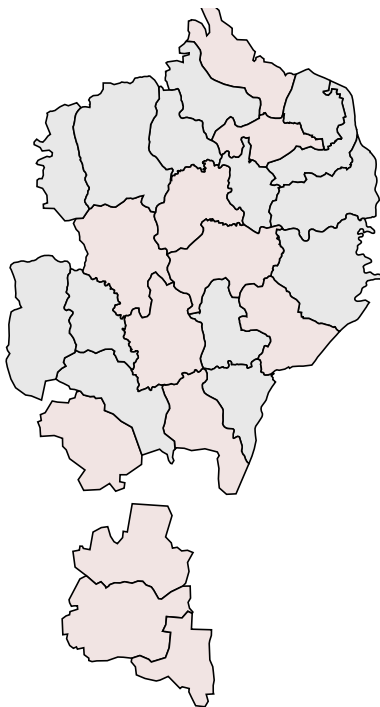
Figure 7 | Trend in number of cases over time (W38 2017 - W31 2022)



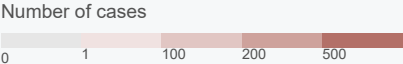


Map 4 | Map of cases by camp (W37 2017 - W31 2022)

a. Ukhia | Number of cases



Map legend



c. Teknaf | Number of cases

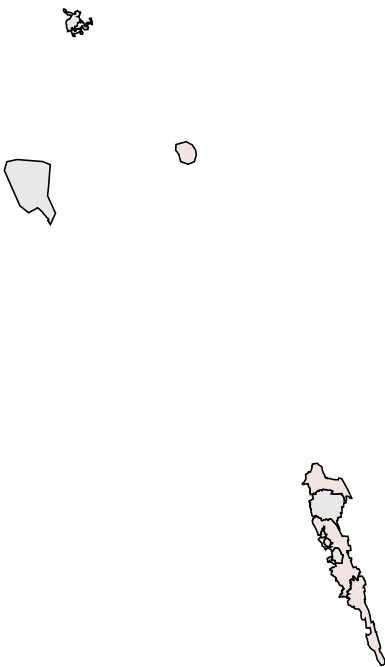


Figure | % sex

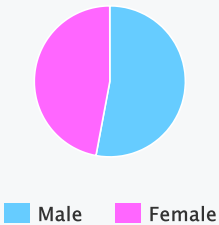
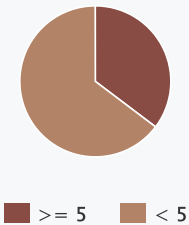


Figure | % age



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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>

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



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