



# Epidemiological Highlights

Week 26 (19-25 June) 2022



World Health  
Organization

# Highlights: COVID-19

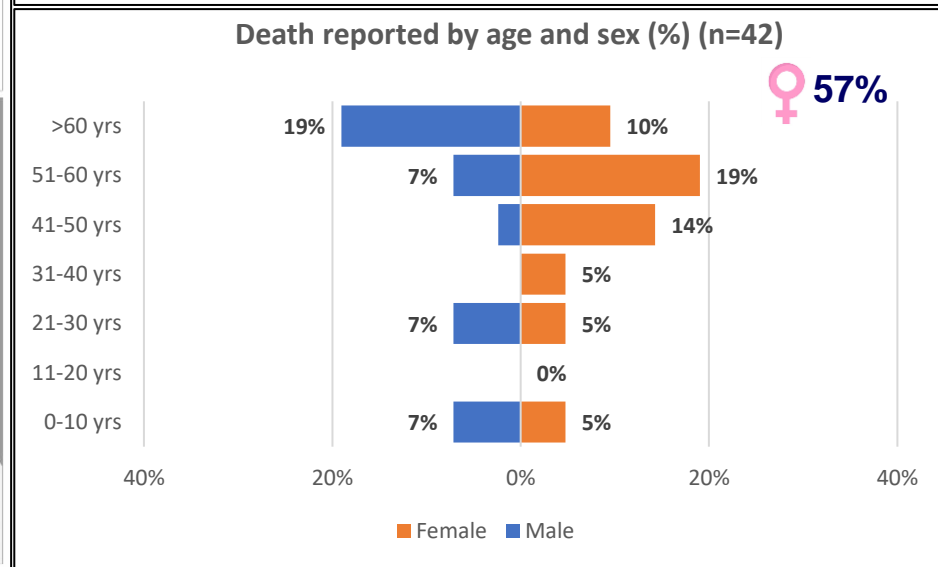
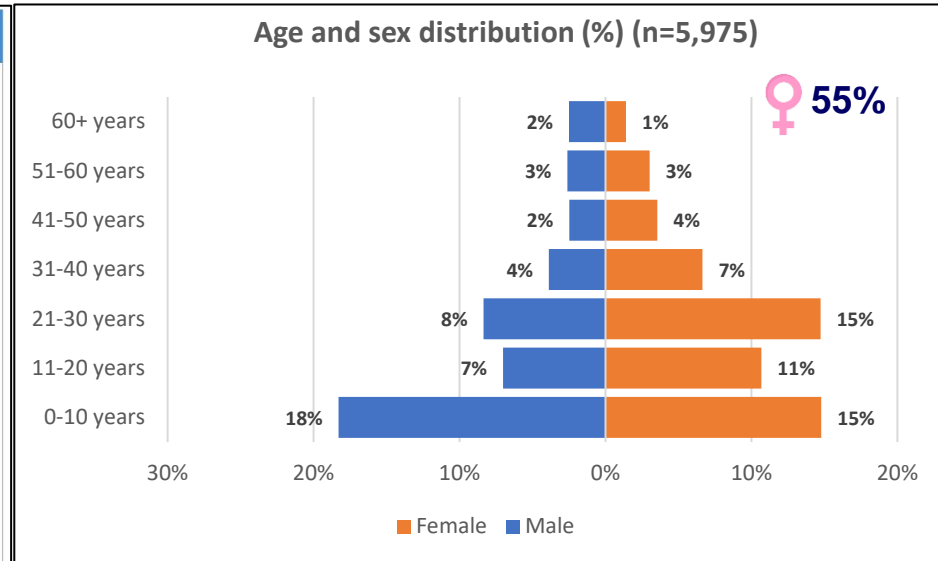
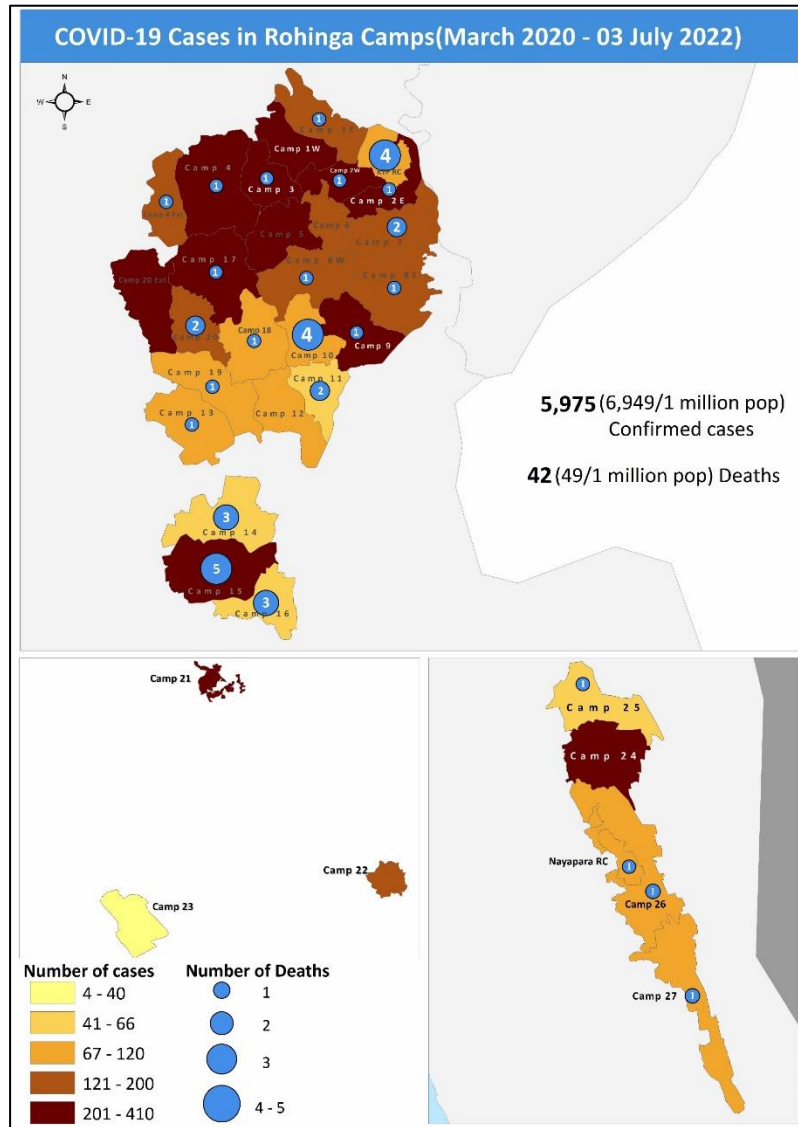
As of week 26, (27 June-3 July) 2022 there were **5,975 confirmed cases** of COVID-19 (SARS-CoV-2), out of 105,167 **samples** that had been submitted for testing. The **total positivity rate now stands at 5.7%**

In the reporting week, again 30 new confirmed case was detected out of 639 total samples tested. This translated to a 4.7% Test positivity Rate (TPR) which is higher than that of the previous week.

As of this week (week 26)

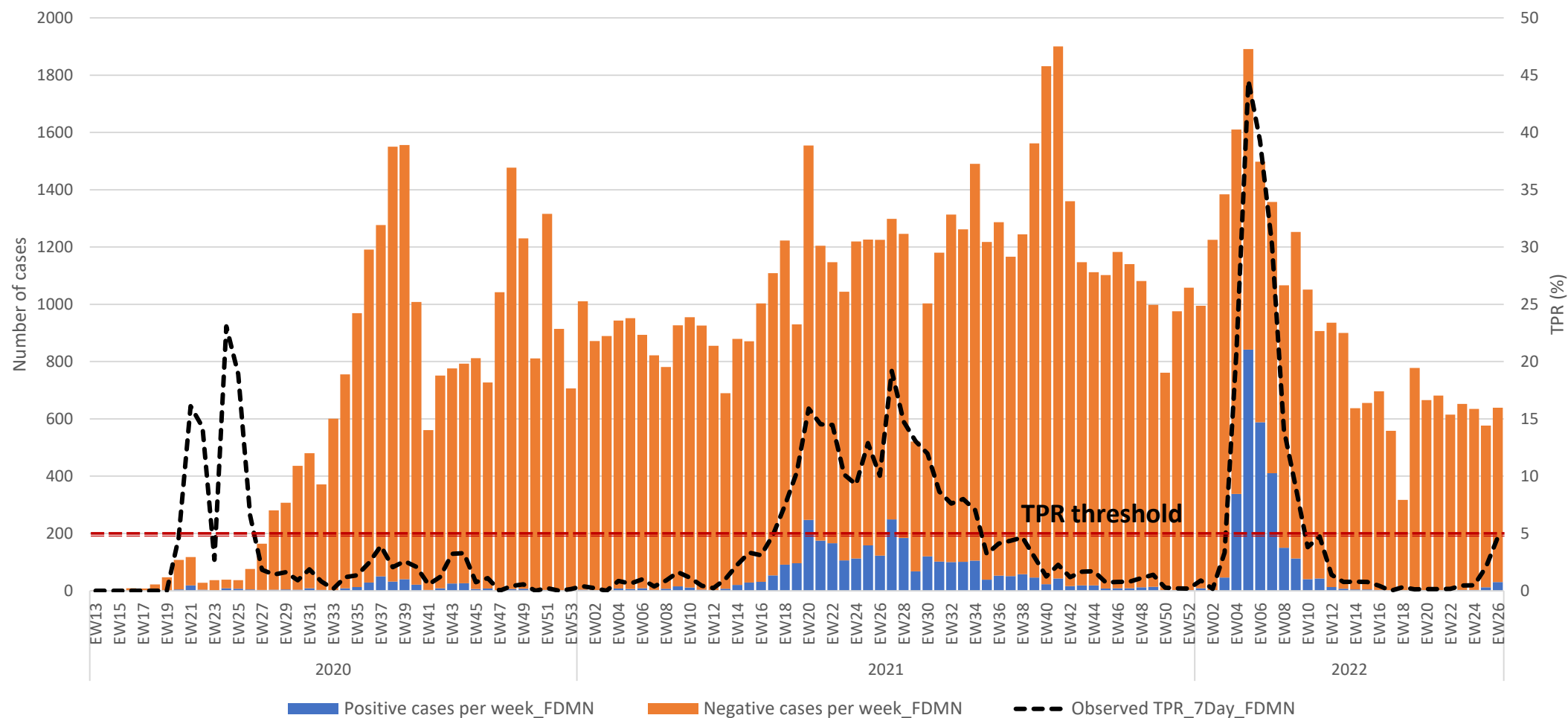
- **Median age** of tested and confirmed cases were 11 (0-120) and 20 (0-100) years respectively
- **Proportion of females** among tested and confirmed cases were 54% and 55% respectively
- **All the 34 camps**, have so far reported confirmed cases since the outbreak began, while the five camps with the highest number of reported cases were; C17-410, C24-403, C2W-375, C4-366, and C3-338
- No new death was reported in this Epi week. Total confirmed COVID-19 deaths so far reported to date stands at 42 with the average **case fatality ratio** of 0.7%
- The **weekly incidence** was 34.9 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 166 health facilities are registered in EWARS
  - Only 162/166 weekly reports were received on time in week 26
  - Timeliness of reporting for this week was 92%
  - One fifty-two (152) alerts were triggered
  - All alerts were reviewed and verified by the WHO EWARS team; this was more than the previous week (81 alerts in week 25, 2022).

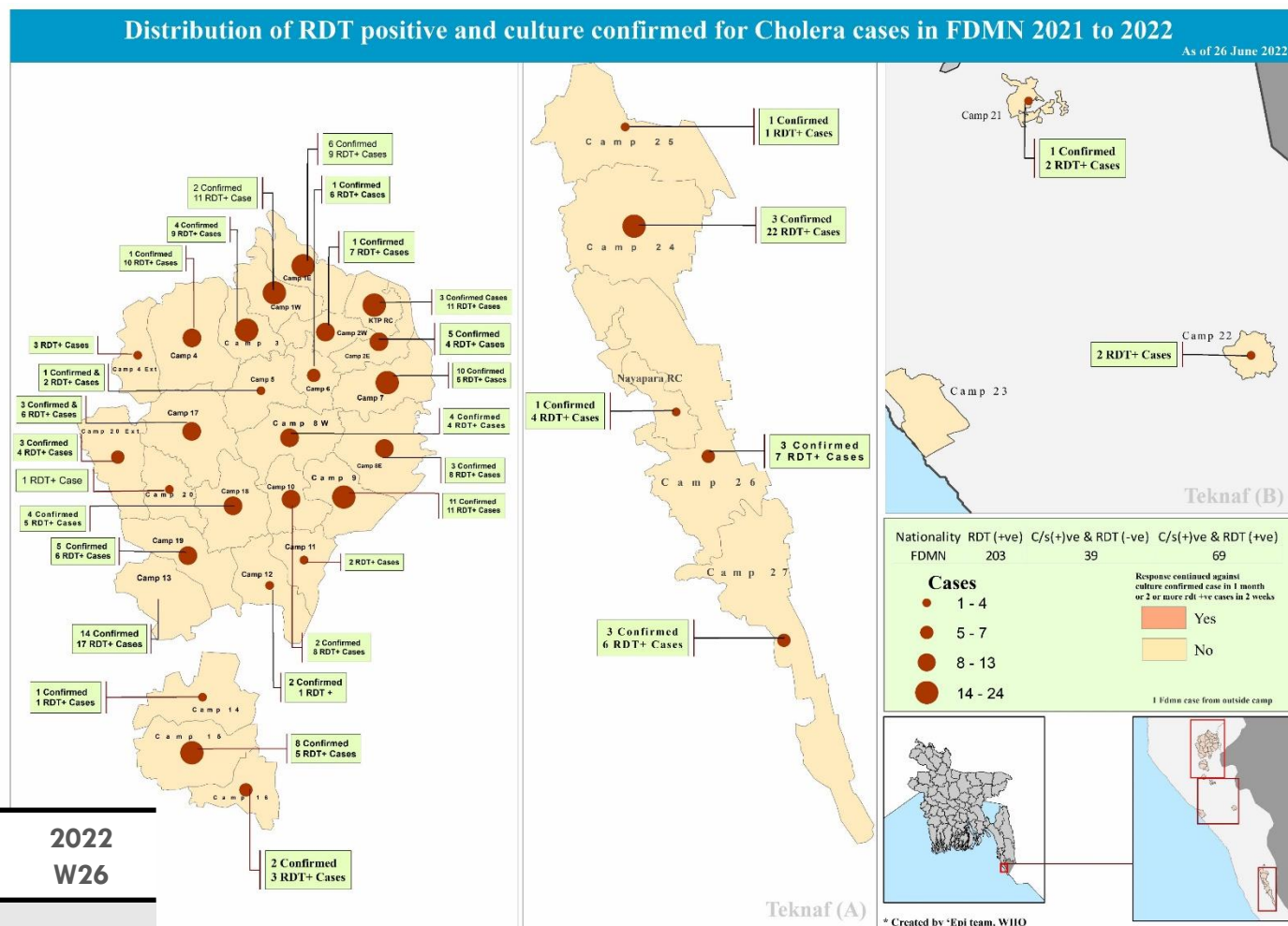
# Highlights: Morbidities and Mortalities

- Acute Respiratory Infections (15.8%), Diarrheal Diseases (4.0%) and confirmed dengue (1.8%) were the diseases and health conditions with the highest proportional morbidity in week 26.
- Monitoring of suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020.
- This Epi week, no new SARI death was reported as highlighted below:

Year	Suspected SARI death reported	Reclassified as death due to probable COVID-19
2022	61	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-one (81) RDT confirmed cholera cases were reported as of W26 2022. Of these 12 were positive for culture, and 69 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 W26
RDT positive/culture confirmed for Cholera	49	258	28	357	81
Culture confirmed for Cholera	7	184	5	136	12

# Diphtheria Surveillance Updates

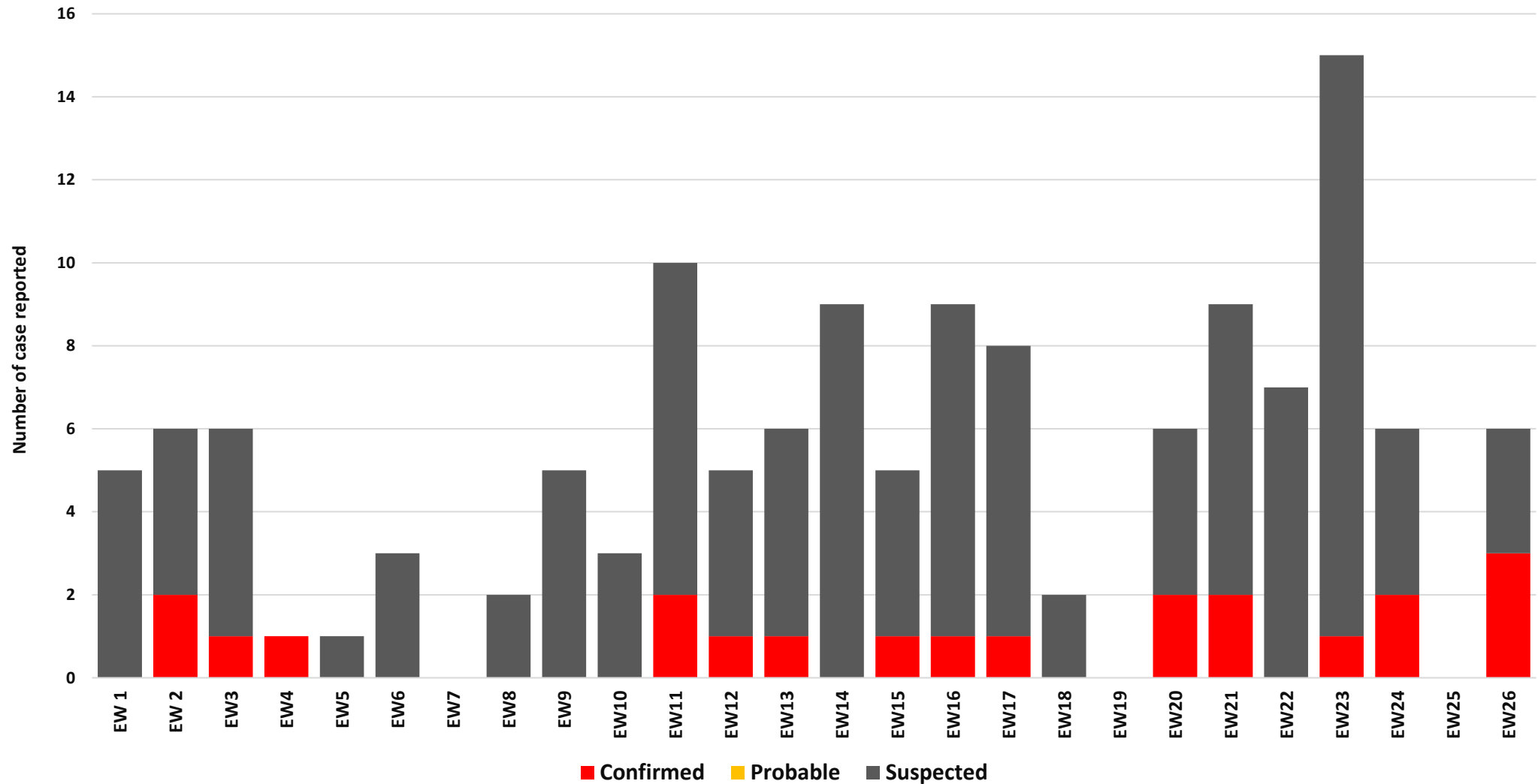
- Three (3) confirmed and 3 suspected diphtheria cases were reported in go.data in this Epi week 26
- The last confirmed case was reported on 1 July 2022
- In total 53 deaths have so far been reported since 2017, the last death reported on 25 April 2022

Classification	2017	2018	2019	2020	2021	2022
Confirmed	66	226	31	19	30	21
Probable	1154	1555	60	9	29	0
Suspected	1796	3549	523	198	118	114
Death	30	14	3	0	5	1

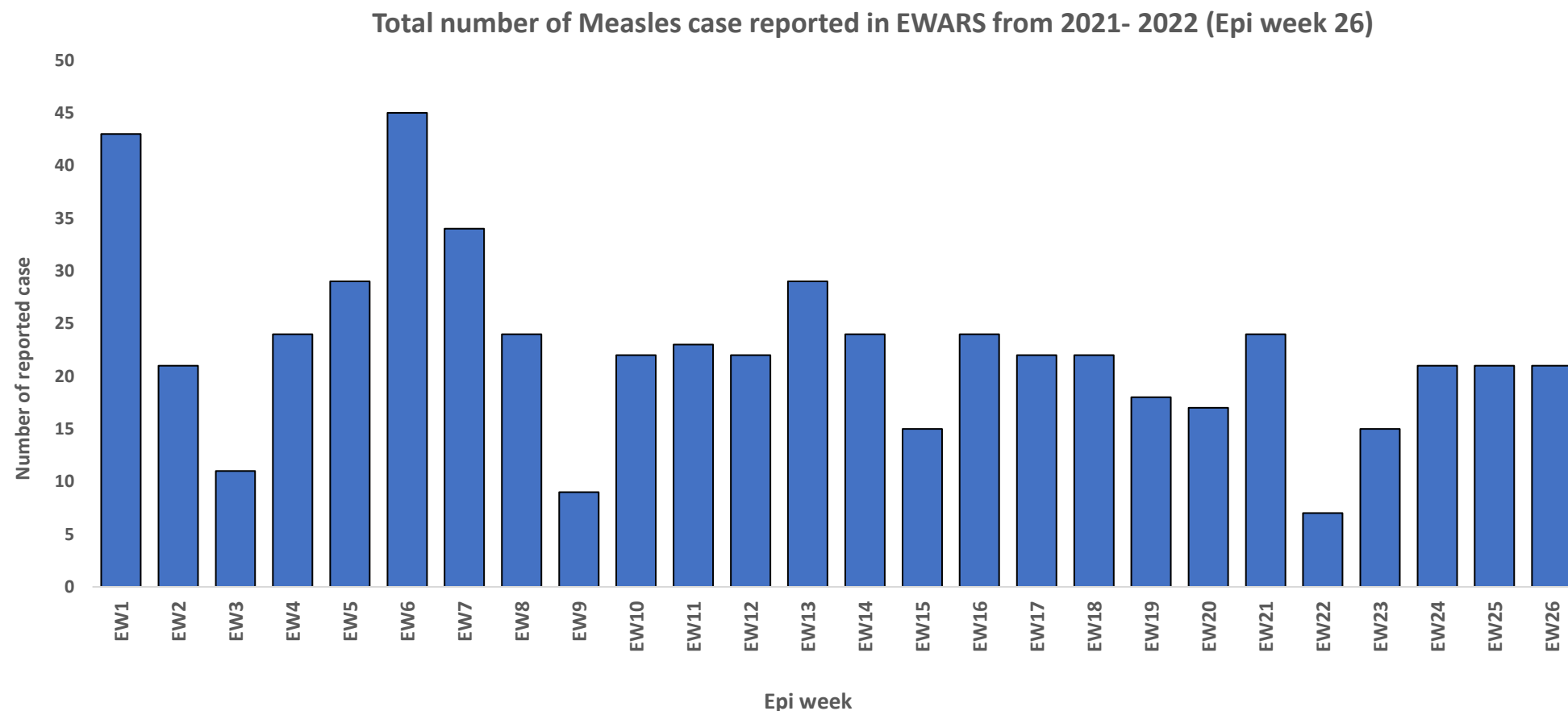


# Trends of Diphtheria cases

Total number of diphtheria case reported in EWARS from week 1-26, 2022



# Epi Curve of Suspected Measles Cases



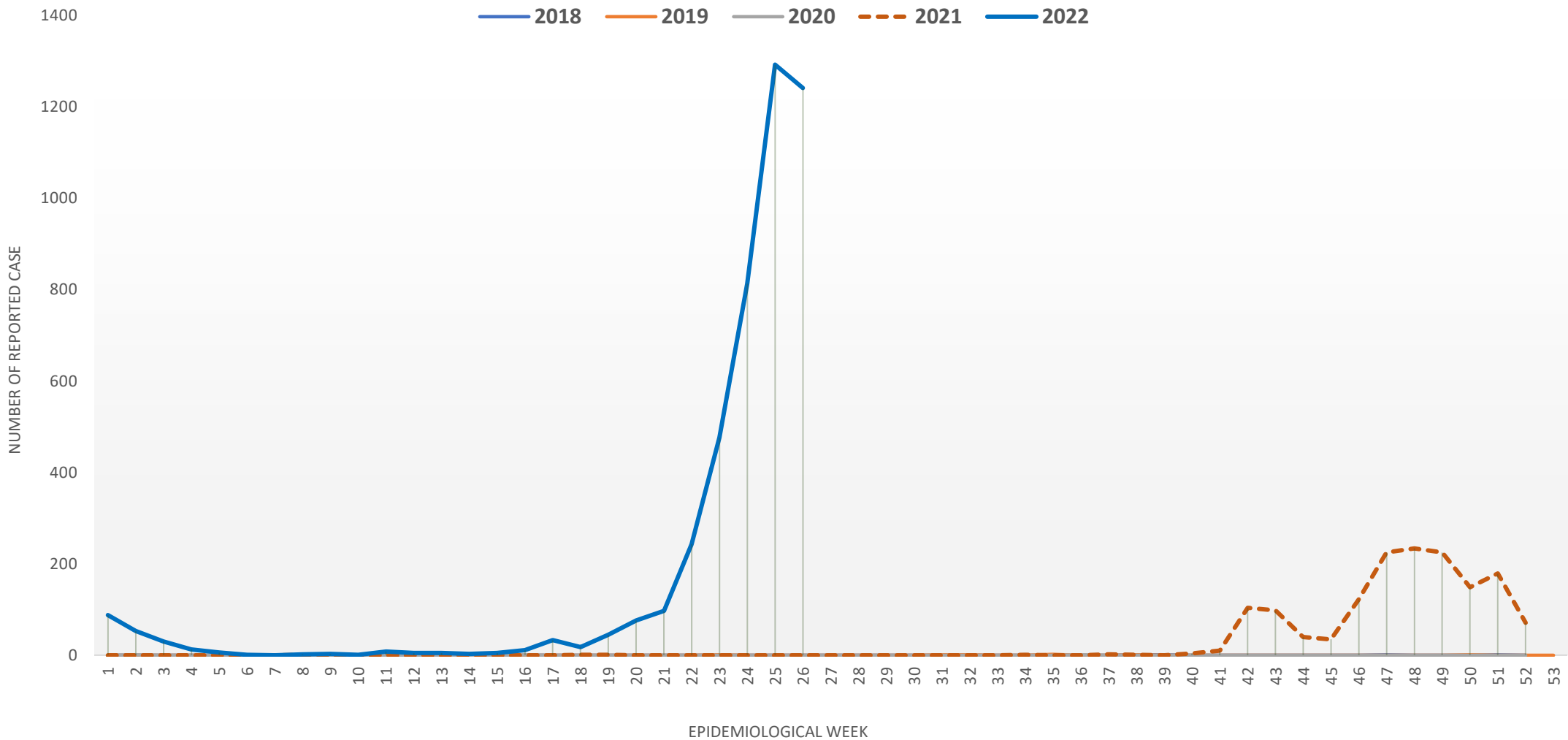
- > In week 26, 21 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 587 reported in 2022
- > About 53% (310/587) of the total suspected measles cases were reported through case-based reporting and samples collected for laboratory confirmation

# Dengue Surveillance Updates

Year	Month/Epi Week	Confirmed case	Death	Confirmed case (cumulative)	Death (cumulative)
2022	Jan (Ew1-4)	189	0	189	0
	Feb (Ew5-8)	9	0	198	0
	March (Ew9-13)	17	0	215	0
	April (Ew14-17)	57	0	277	0
	May (Ew18-21)	236	0	513	0
	June (Ew22-26)	4,046	2	4,577	2

# Dengue Surveillance Updates

Yearly Trends of Dengue case trend from 2018 - Epi Week 26, 2022



# Community-based Mortality surveillance updates Epi week 26

Probable causes of death	Epi week 26	Cumulative in 2022
Still Birth	2 (6%)	99 (11%)
Neonatal Death (<28 days old)	2 (6%)	93 (10%)
Infectious Disease	2 (6%)	28 (3%)
Severe Acute Respiratory Infection (SARI)	--	21 (2%)
Injury	1 (3%)	28 (3%)
Maternal Death	2 (6%)	25 (3%)
Acute Malnutrition	--	1 (0%)
Other	22 (71%)	623 (68%)
<b>Total</b>	<b>31 (100%)</b>	<b>918 (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 26

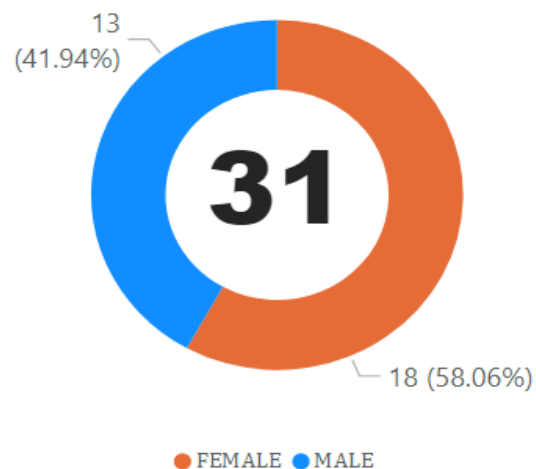
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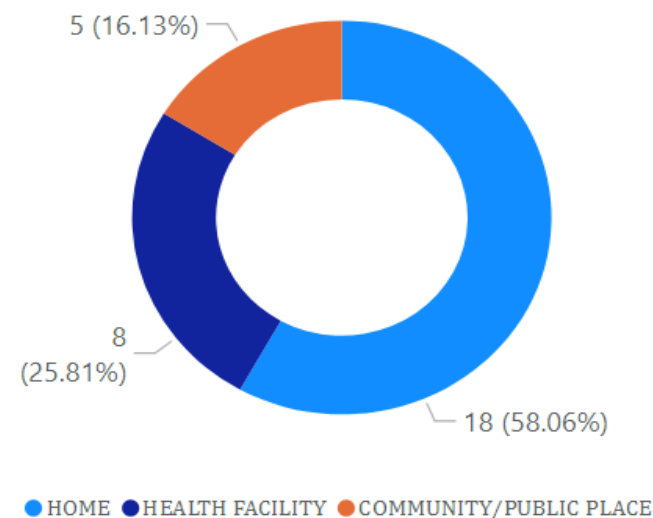
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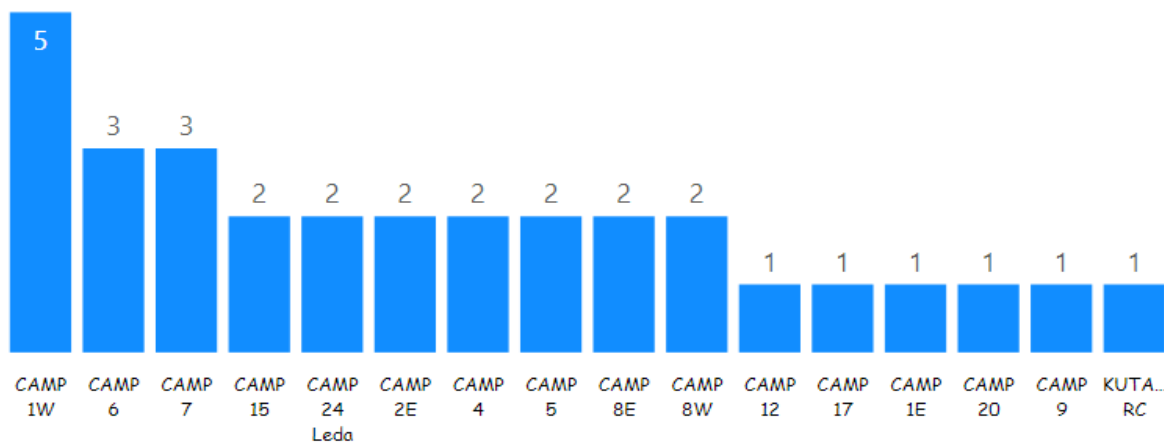
## Gender distribution



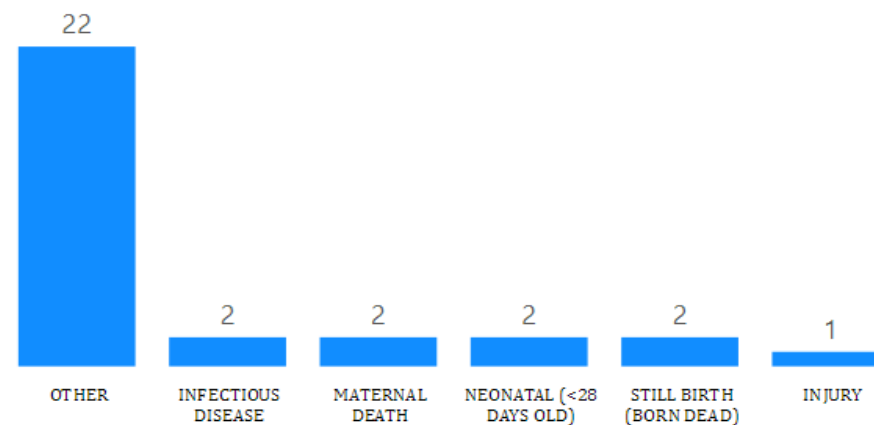
## Place of death



## Distribution of deceased Camp



## Distribution of Probable cause of death



# Bangladesh

Rohingya Emergency Response

Early Warning, Alert and  
Response System (EWARS)

Epidemiological Bulletin W26 2022



Ministry of Health and Family  
Welfare Bangladesh



World Health  
Organization



HEALTH SECTOR  
COX'S BAZAR



Printed: 06:31 Sunday, 14 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 W26 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**

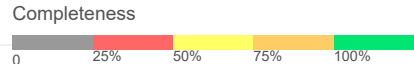
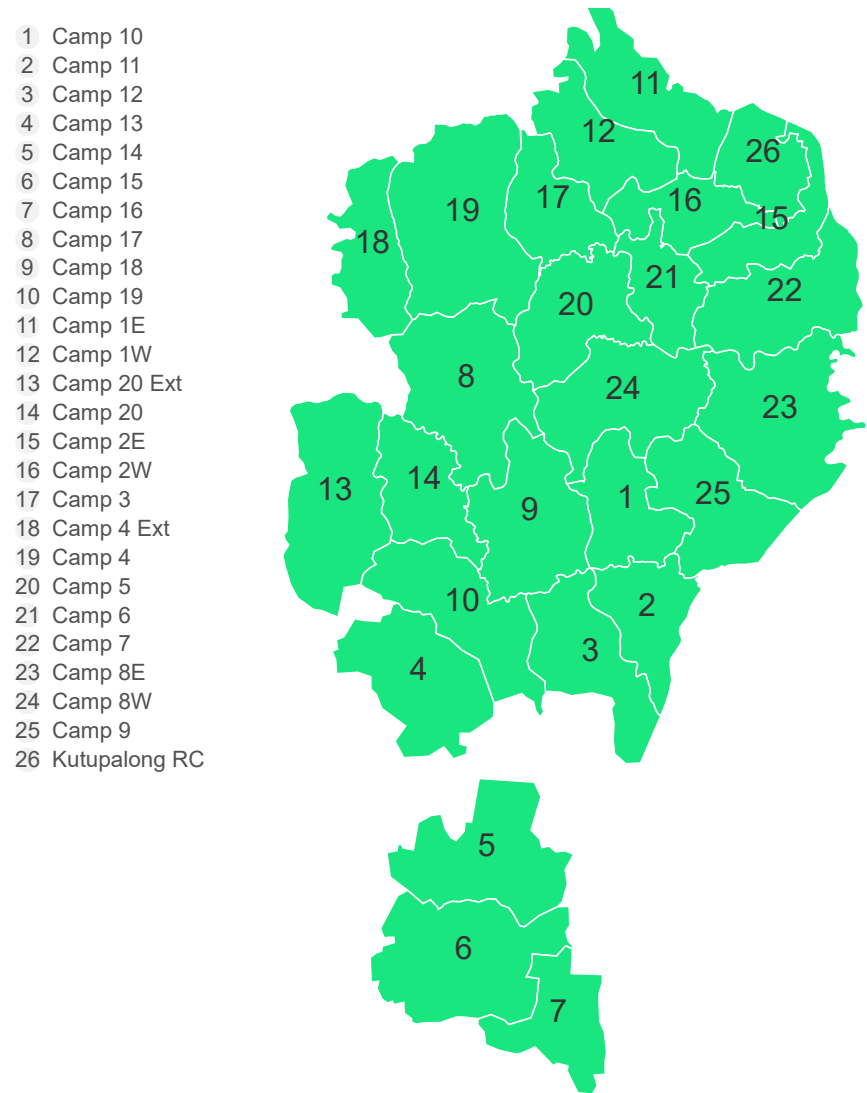
W26	Cumulative (2022)	
<b>162</b>	<b>5129</b>	Number of weekly reports received
<b>92%</b>	<b>90%</b>	Completeness
<b>92%</b>	<b>91%</b>	Timeliness

**Table 3 Alert performance indicators**

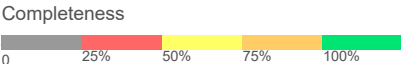
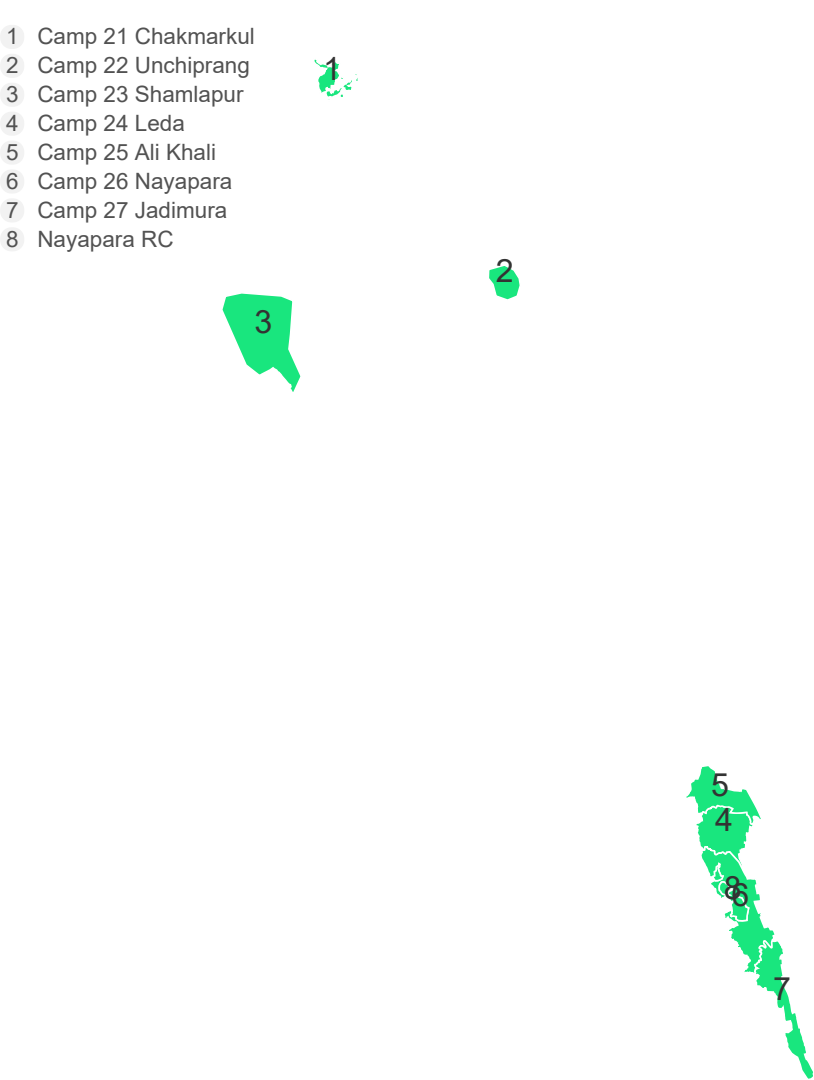
W26	Cumulative (2022)	
<b>152</b>	<b>2,754</b>	Total alerts raised
<b>100%</b>	<b>99%</b>	% verified
<b>0%</b>	<b>0%</b>	% auto-discarded
<b>0%</b>	<b>0%</b>	% undergoing risk assessment
<b>0%</b>	<b>0%</b>	% completed risk assessment

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

Map 1a | Ukhia completeness by camp



Map 1b | Teknaf completeness by camp

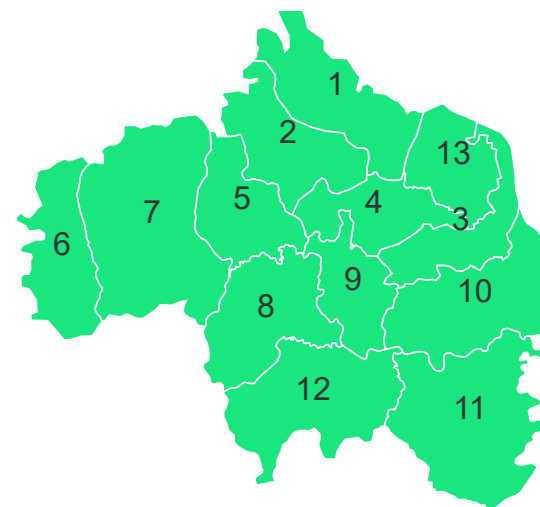


**Table 4 | Performance by camp (W26 2022)**

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	3	4	100%	0%
Camp 1W	5	4	80%	0%
Camp 2E	3	3	100%	0%
Camp 2W	3	4	100%	0%
Camp 3	5	6	100%	0%
Camp 4	5	5	100%	0%
Camp 4 Ext	1	1	100%	0%
Camp 5	5	5	80%	0%
Camp 6	3	3	100%	0%
Camp 7	6	5	83%	0%
Camp 8E	8	8	88%	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

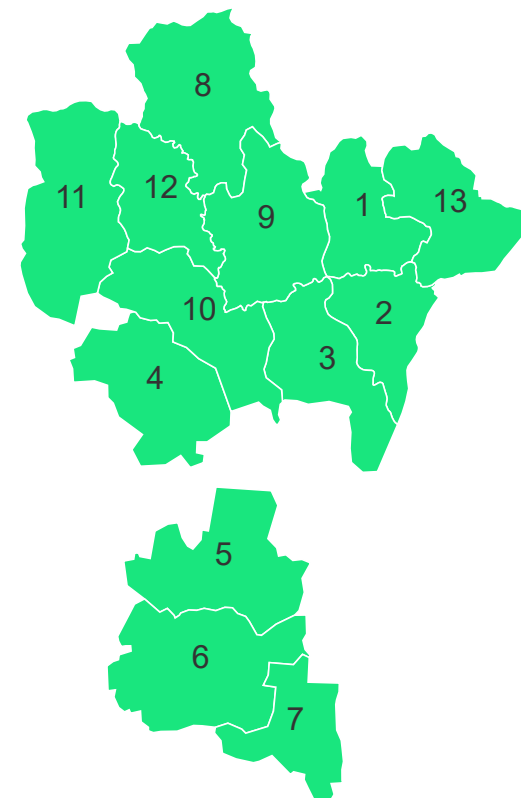


**Table 5 | Performance by camp (W26 2022)**

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	0%
Camp 11	8	7	88%	0%
Camp 12	6	6	100%	0%
Camp 13	10	10	100%	0%
Camp 14	7	7	100%	0%
Camp 15	9	9	100%	11%
Camp 16	7	7	100%	0%
Camp 17	5	5	100%	0%
Camp 18	5	5	100%	0%
Camp 19	5	5	100%	0%
Camp 20	4	3	75%	13%
Camp 20 Ext	3	3	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



Completeness

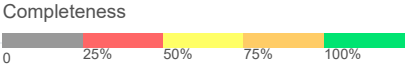
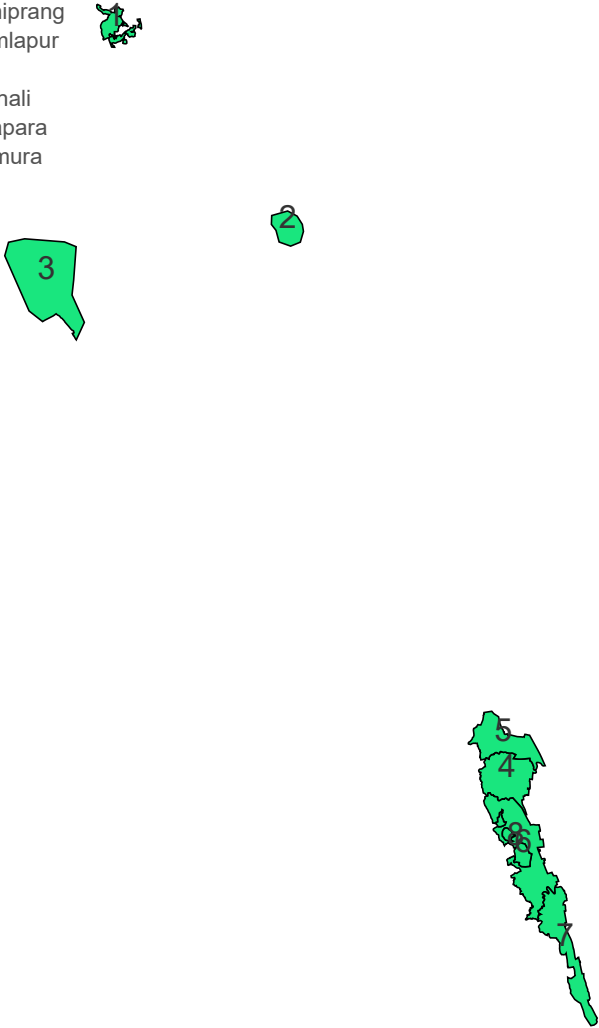


Table 6 | Performance by camp (W26 2022)

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	100%	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 (W26 2022)

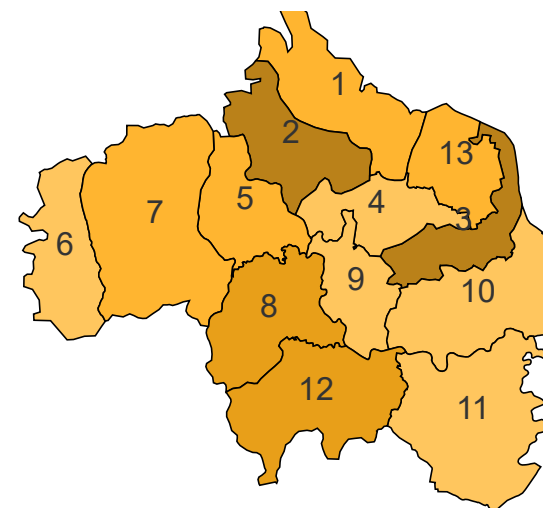
Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	1	0	0%	0%	IRC	4	2	0%	0%
AWARD	6	6	100%	100%	MSF	9	7	0%	0%
BASHMAH	1	0	0%	0%	MoH	12	10	0%	0%
BDRCS	11	11	100%	100%	MHI	0	0		
BRAC	0	11	100%	100%	Medair	0	0		
CARE	4	4	100%	100%	FH/MTI	4	3	0%	0%
DAM	0	0			PRANTIC	1	1	100%	100%
DBC	1	1	100%	100%	PULSE	1	1	100%	100%
DSK	1	1	0%	0%	QC	1	1	100%	100%
DCHT-PWJ	1	1	100%	100%	PHD	10	10	0%	0%
FRNDS	6	3	0%	0%	RPN	2	2	100%	100%
GK	10	10	0%	0%	RHU	3	3	100%	0%
Global One	1	1	100%	0%	RI	3	3	0%	0%
GUSS	1	1	100%	100%	RTMI	9	8	0%	0%
HAEFA	2	2	100%	100%	SALT	1	1	100%	100%
HAIB	8	8	100%	0%	SCI	7	7	0%	0%
HMBDF	2	2	0%	0%	DCHT-MM	1	1	100%	100%
HOPE	1	1	100%	100%	Turkish Government	1	1	100%	100%
ICRC	1	2	200%	100%	TdH	2	2	0%	0%
IOM	23	23	0%	0%					

Table 8 | Performance by camp

Northern group	W26		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	5	100%	66	100%
Camp 1W	13	100%	152	100%
Camp 2E	17	100%	307	98%
Camp 2W	2	100%	88	98%
Camp 3	3	100%	134	100%
Camp 4	4	100%	118	97%
Camp 4 Ext	2	100%	39	100%
Camp 5	11	100%	97	100%
Camp 6	2	100%	76	99%
Camp 7	1	100%	50	98%
Camp 8E	2	100%	52	98%
Camp 8W	10	100%	141	98%
Kutupalong RC	4	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

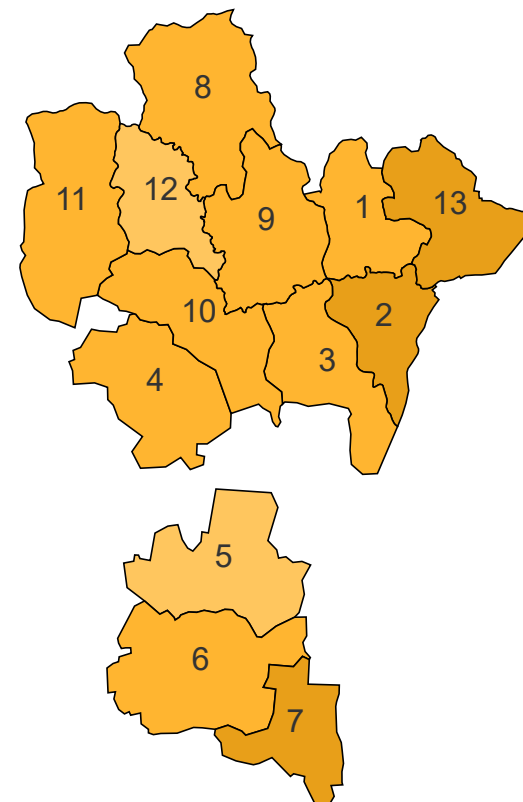


Table 9 | Performance by camp

Southern group	W26		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	3	100%	51	96%
Camp 11	7	100%	69	100%
Camp 12	4	100%	95	100%
Camp 13	3	100%	107	98%
Camp 14	2	100%	60	98%
Camp 15	3	100%	102	97%
Camp 16	6	100%	78	99%
Camp 17	5	100%	74	99%
Camp 18	5	100%	114	96%
Camp 19	4	100%	40	98%
Camp 20	2	100%	36	100%
Camp 20 Ext	4	100%	30	100%
Camp 9	8	100%	124	98%

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	W26		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	1	100%	35	100%
Camp 22 Unchiprang	2	100%	46	100%
Camp 23 Shamlapur	1	100%	16	94%
Camp 24 Leda	3	100%	64	97%
Camp 25 Ali Khali	1	100%	21	100%
Camp 26 Nayapara	6	100%	80	100%
Camp 27 Jadimura	3	100%	49	100%
Nayapara RC	2	100%	29	100%

Map 7 | Number of alerts by camp

- 1

Camp 21 Chakmarkul
- 2

Camp 22 Unchiprang
- 3

Camp 23 Shamlapur
- 4

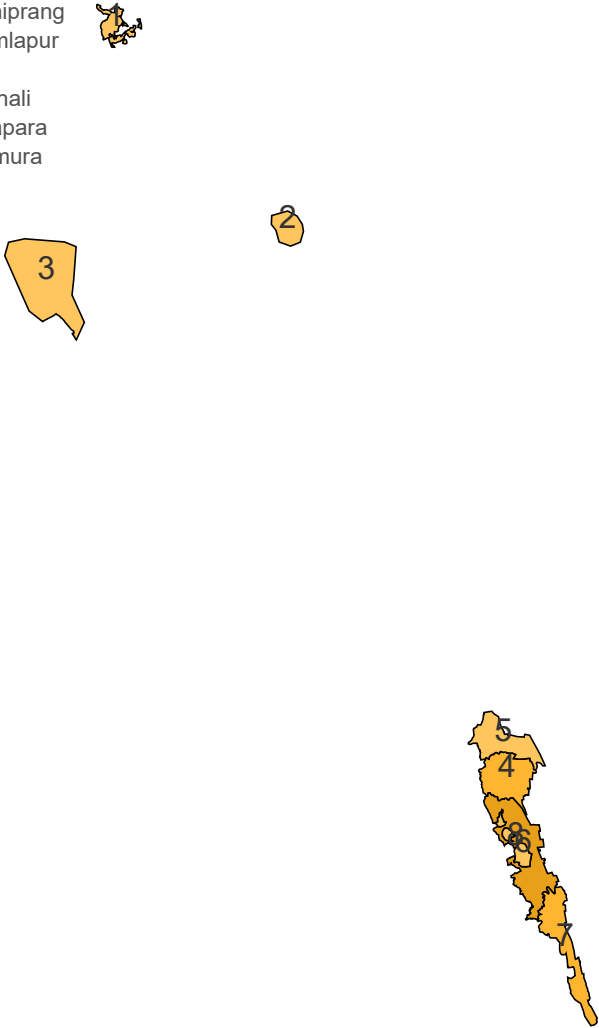
Camp 24 Leda
- 5

Camp 25 Ali Khali
- 6

Camp 26 Nayapara
- 7

Camp 27 Jadimura
- 8

Nayapara RC



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

Event	W26		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
<b>Indicator-based surveillance</b>				
Malaria	0	0%	3	100%
Measles	14	100%	341	99%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	20	95%
Meningitis	2	100%	16	100%
Haem. fever (susp.)	0	0%	14	100%
NNT	0	0%	3	100%
Unexp. fever	4	100%	103	100%
AWD	2	100%	159	100%
ARI	2	100%	138	100%
AJS	5	100%	64	100%
Varicella (Susp.)	0	0%	107	100%
Suspected COVID-19	0	0%	0	0%
<b>Event-based surveillance</b>				
EBS total	15	100%	160	99%

**Table 12** | Risk assessment

W26	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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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>



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 W26 2022



Ministry of Health and Family  
Welfare Bangladesh



World Health  
Organization



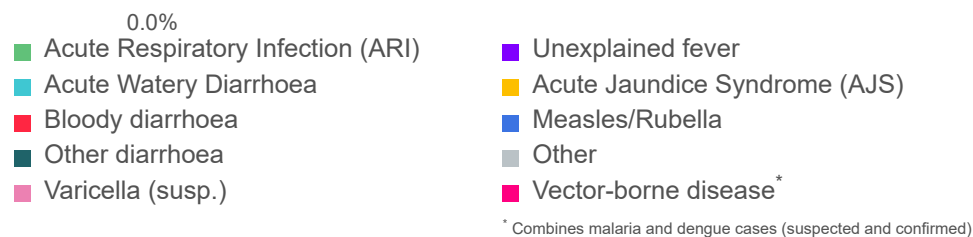
HEALTH SECTOR  
COX'S BAZAR



Printed: 02:27 Monday, 27 June 2022 UTC

# Proportional morbidity

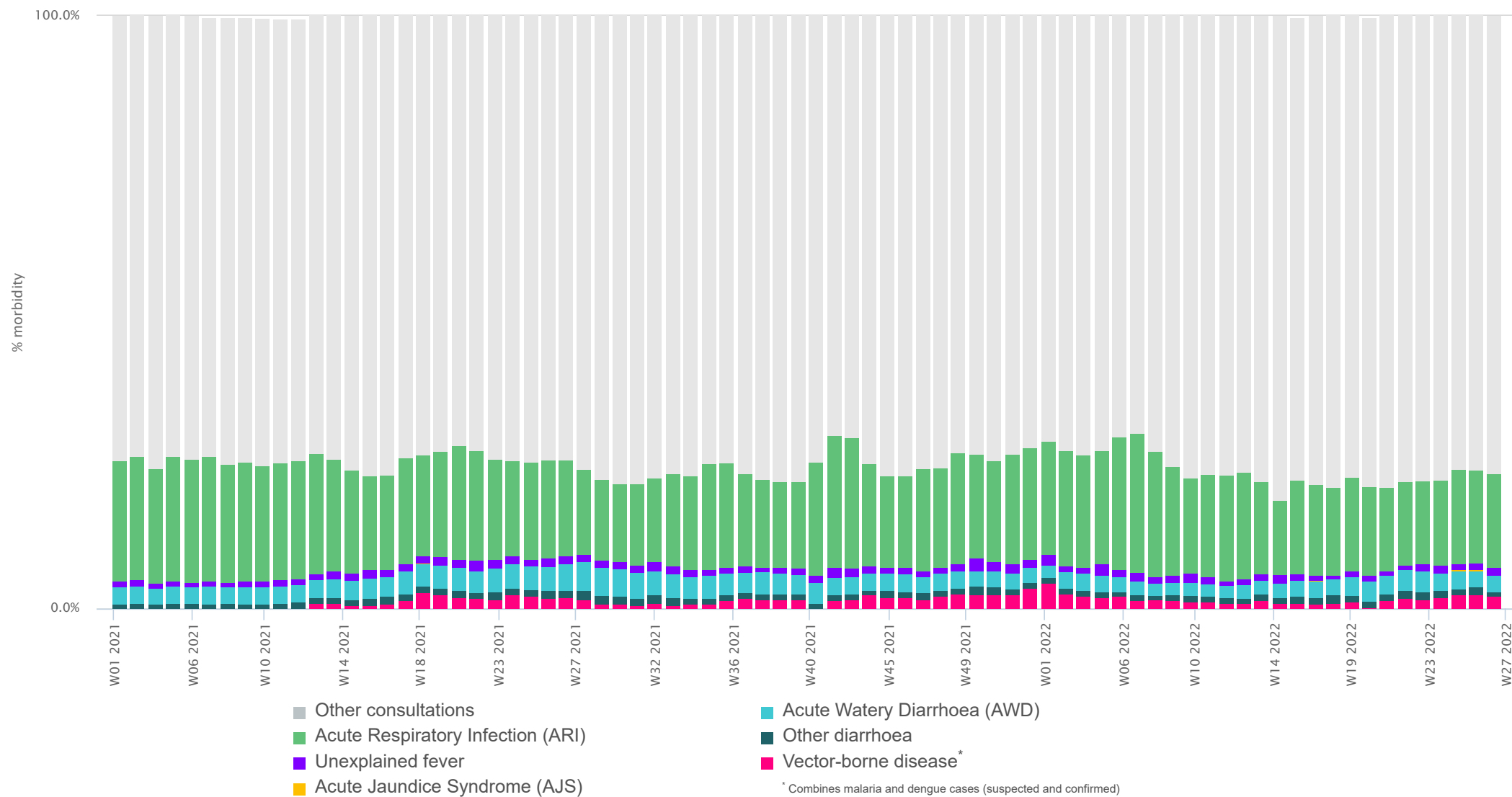
**Figure 1 |** Proportional morbidity (W26 2022)



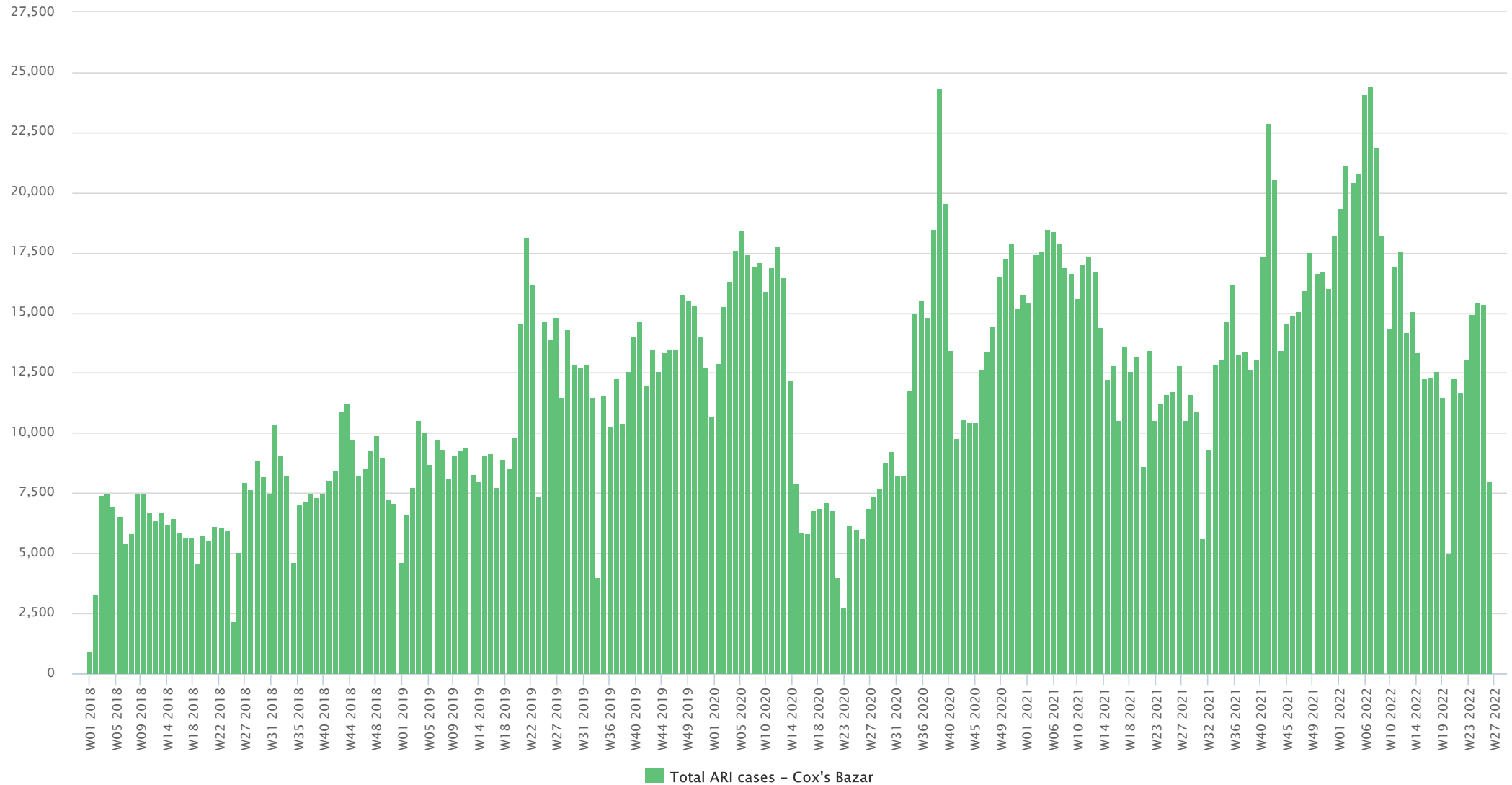
Disease	W26		2022	
	# cases	% morbidity	# cases	% morbidity
AWD	1,500	2.8%	64,943	2.6%
Bloody diarr.	208	0.4%	9,125	0.4%
Other diarr.	409	0.8%	26,411	1.1%
Susp. Varicella	21	0.0%	8,448	0.3%
ARI	8,503	15.8%	422,234	17.1%
Measles/Rub.	12	0.0%	555	0.0%
AFP	0	0.0%	40	0.0%
Susp. menin.	1	0.0%	53	0.0%
AJS	15	0.0%	419	0.0%
Susp. HF	0	0.0%	20	0.0%
Neo. tetanus	0	0.0%	8	0.0%
Adult tetanus	0	0.0%	12	0.0%
Malaria (conf.)	0	0.0%	221	0.0%
Malaria (susp.)	0	0.0%	36,661	1.5%
Dengue (conf.)	993	1.8%	3,154	0.1%
Dengue (susp.)	182	0.3%	785	0.0%
Unexpl. fever	801	1.5%	28,711	1.2%
Sev. Malnut.	21	0.0%	1,064	0.0%
Inj./Wounds	902	1.7%	54,848	2.2%
Other	40,177	74.7%	1,802,710	73.1%
<b>Total</b>	<b>53,006</b>	<b>100%</b>	<b>2,466,665</b>	<b>100%</b>

## Trend in consultations and key diseases

**Figure 2** | Trend in proportional morbidity for key diseases (W26)

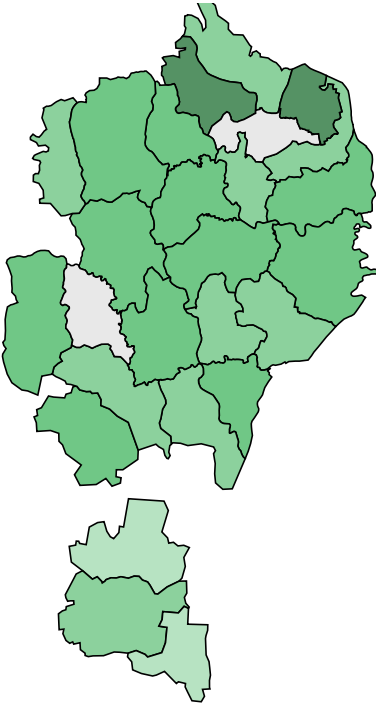


**Figure 3** | Trend in number of cases over time (W38 2017 - W26 2022)



Map 1 | Map of cases by camp (W26 2022)

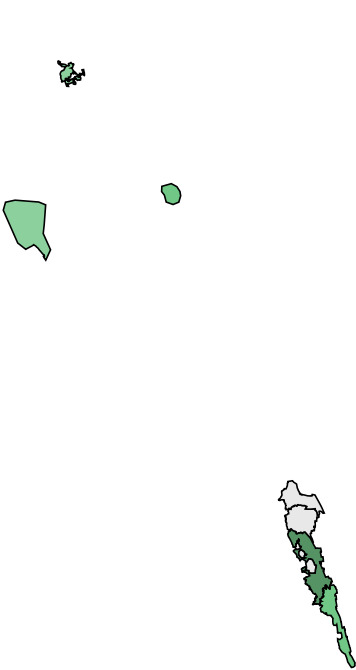
a. Ukhia | Number of cases



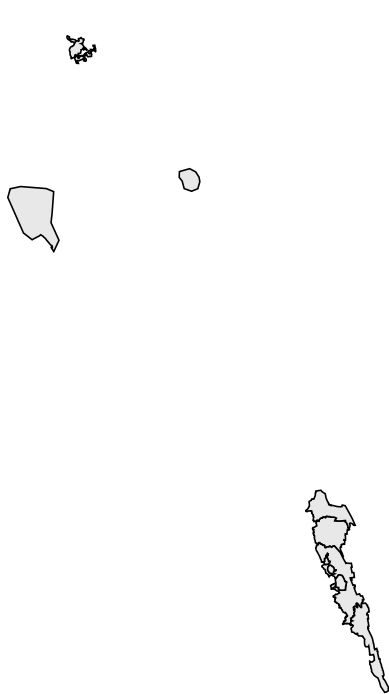
b. Ukhia | Number of alerts



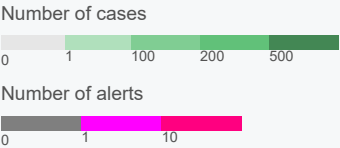
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W26 2022)

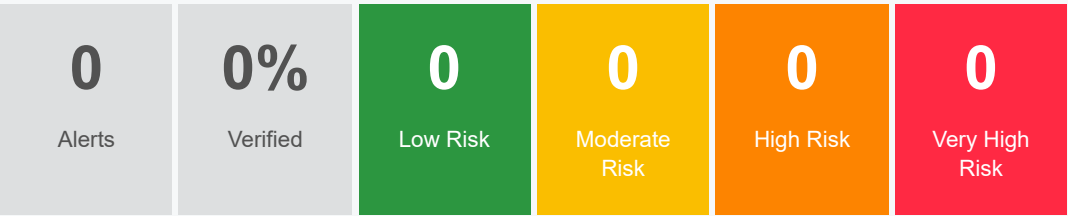
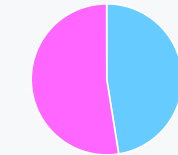


Figure | % sex



Male Female

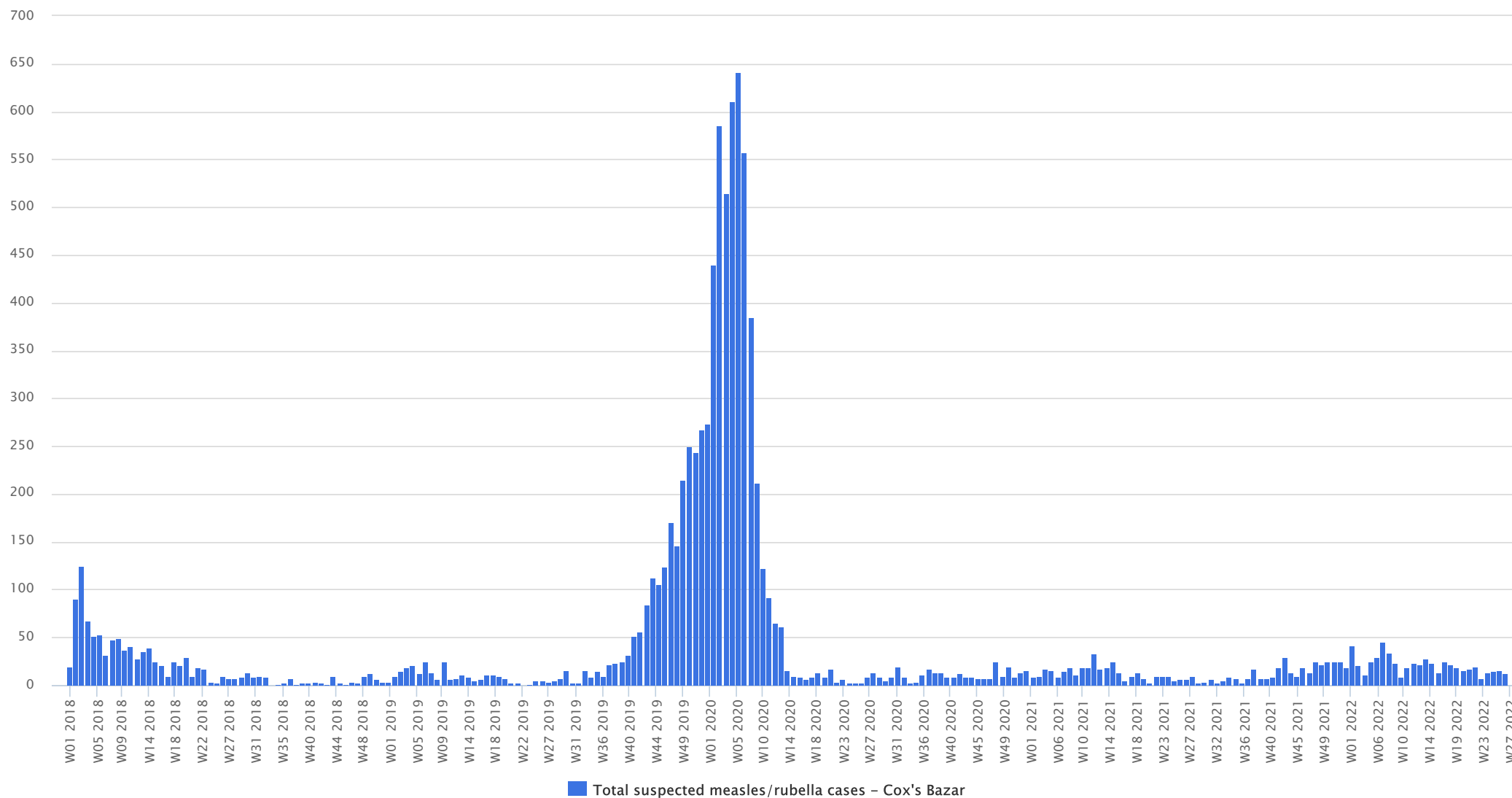
Figure | % age



>=5 < 5

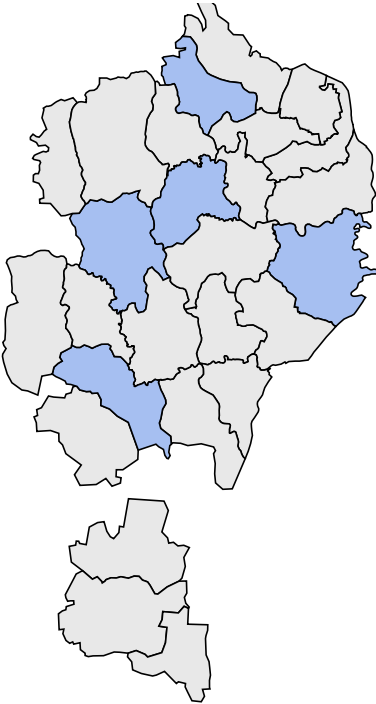


**Figure 4** | Trend in number of suspected cases over time (W38 2017 - W26 2022)

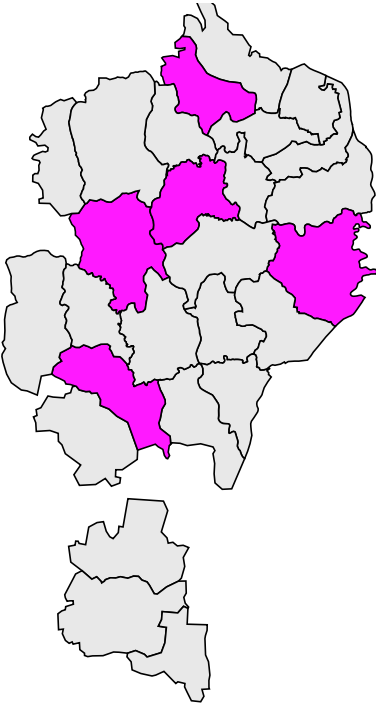


Map 2 | Map of cases by camp (W26 2022)

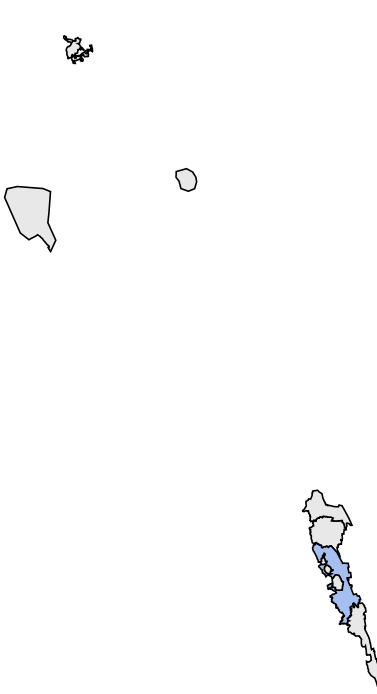
a. Ukhia | Number of cases



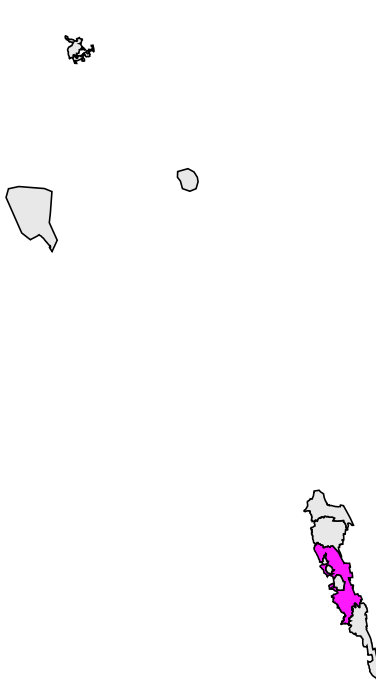
b. Ukhia | Number of alerts



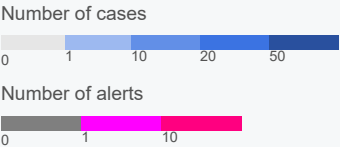
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold  
1 case. Source: IEDCR

Alert management (W26 2022)

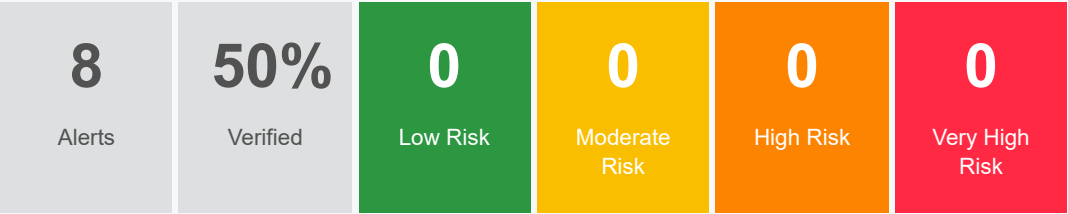


Figure | % sex

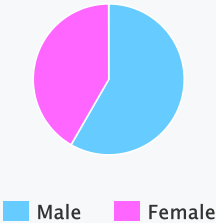
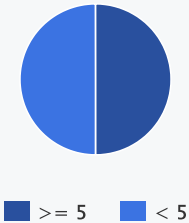
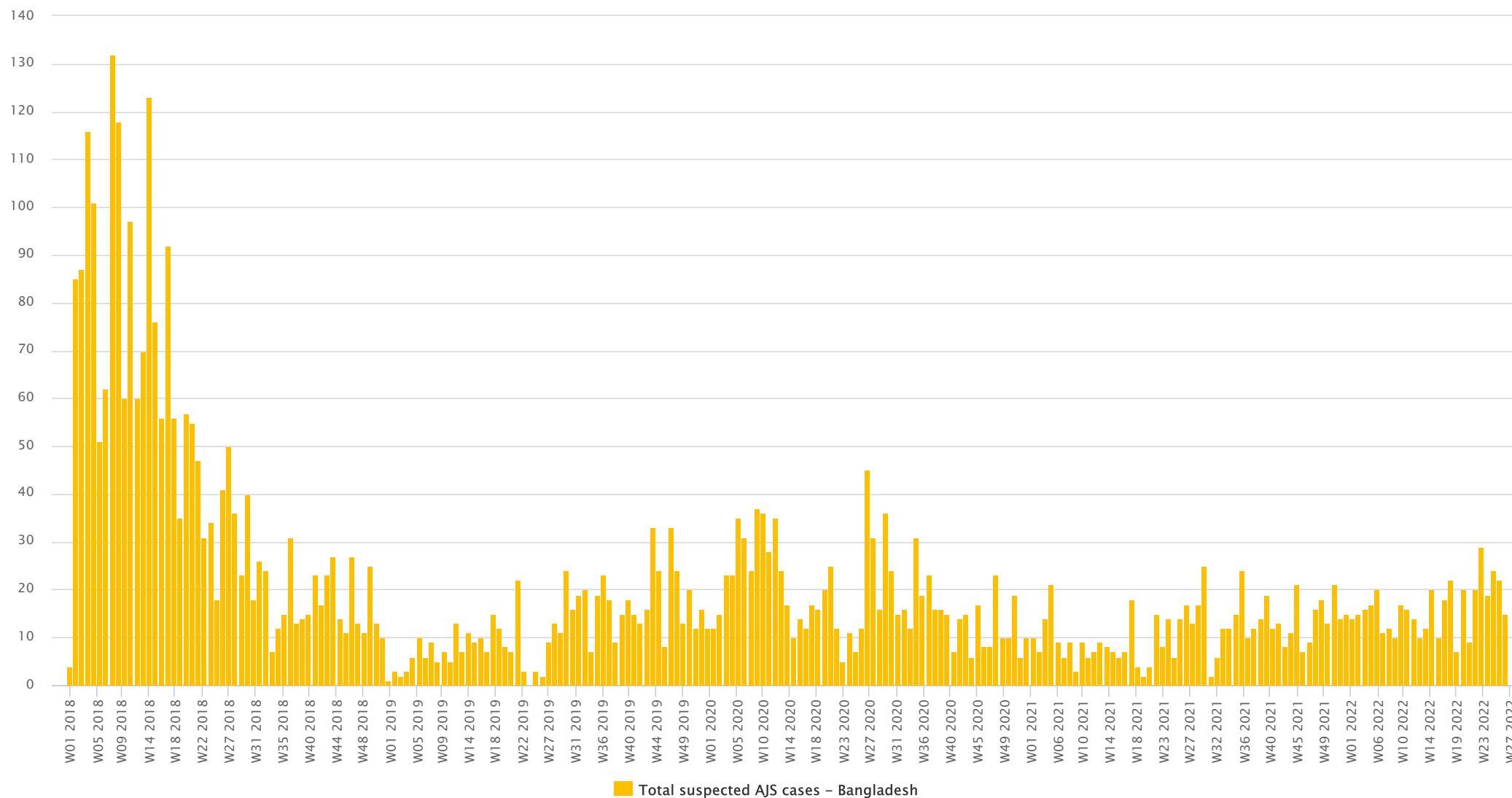


Figure | % age



**Figure 5** | Trend in number of cases over time (W38 2017 - W26 2022)

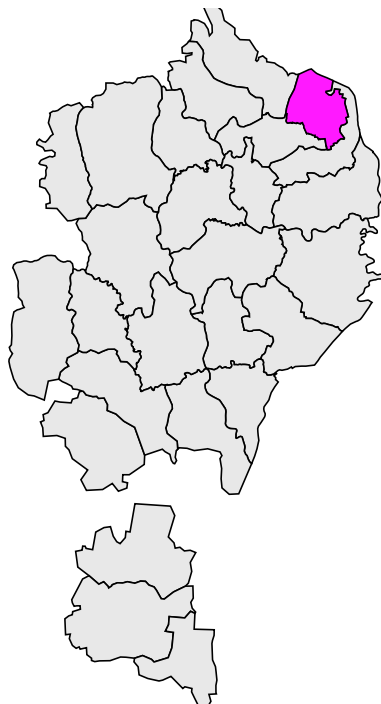


**Map 3 | Map of cases by camp (W37 2017 - W26 2022)**

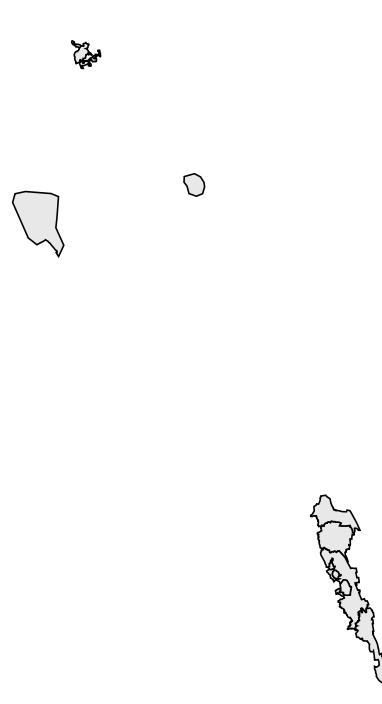
**a. Ukhia | Number of cases**



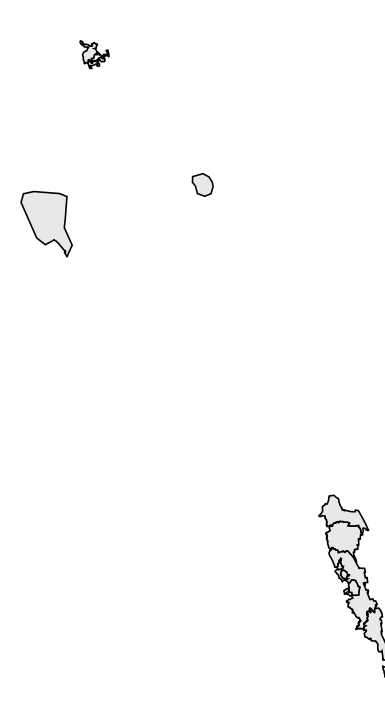
**b. Ukhia | Number of alerts**



**c. Teknaf | Number of cases**

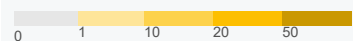


**d. Teknaf | Number of alerts**



## Map legend

Number of cases



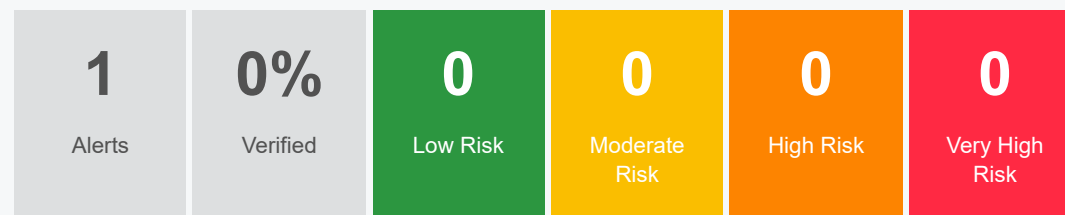
Number of alerts



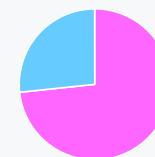
## Alert threshold

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

## Alert management (W26 2022)

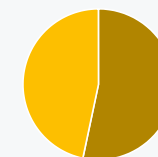


## Figure | % sex



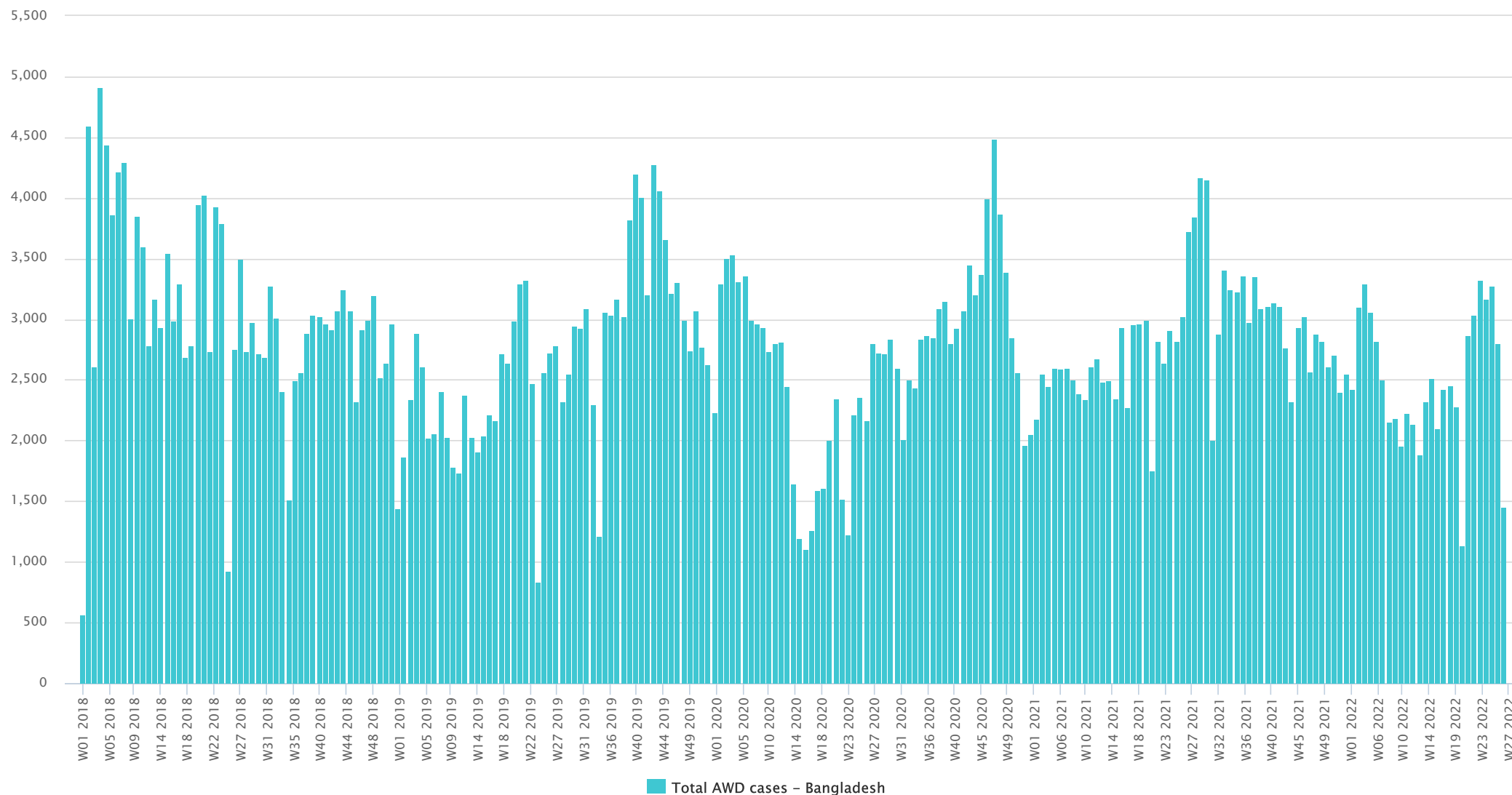
Female Male

## Figure | % age

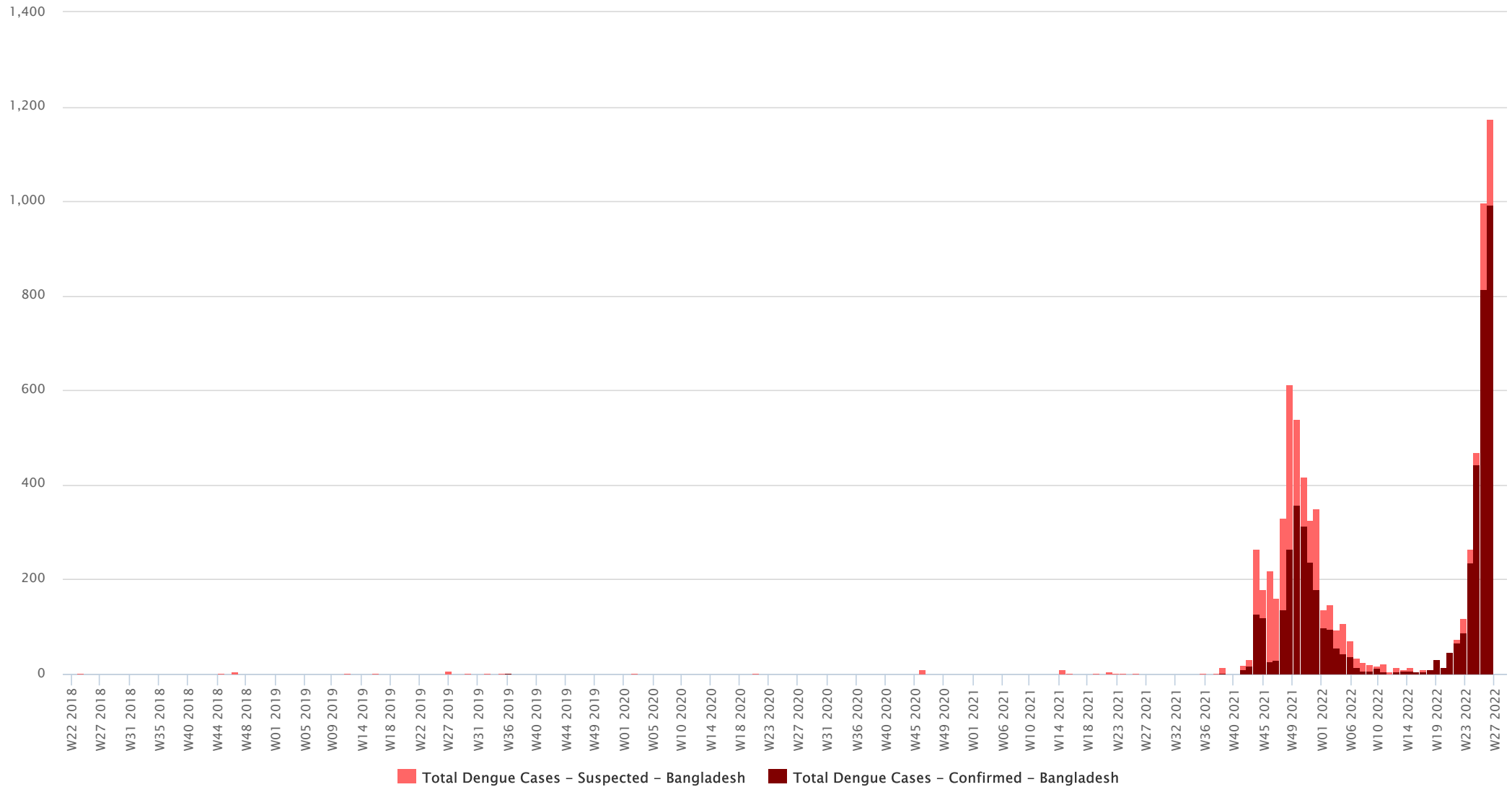


>= 5 < 5

**Figure 6** | Trend in number of cases over time (W38 2017 - W26 2022)

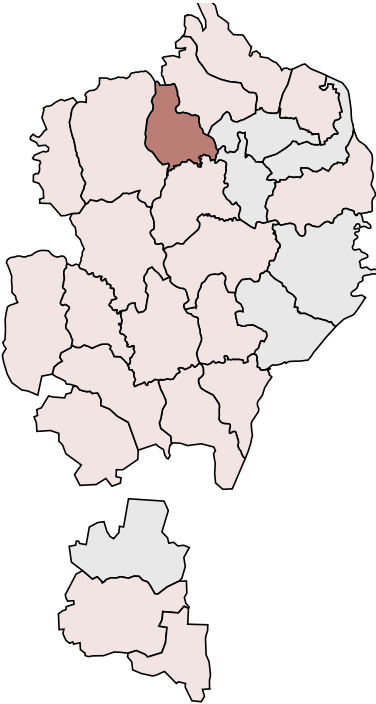


**Figure 7** | Trend in number of cases over time (W38 2017 - W26 2022)

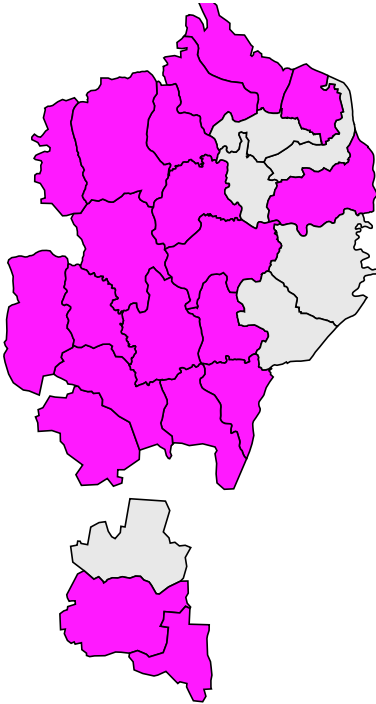


Map 4 | Map of cases by camp (W37 2017 - W26 2022)

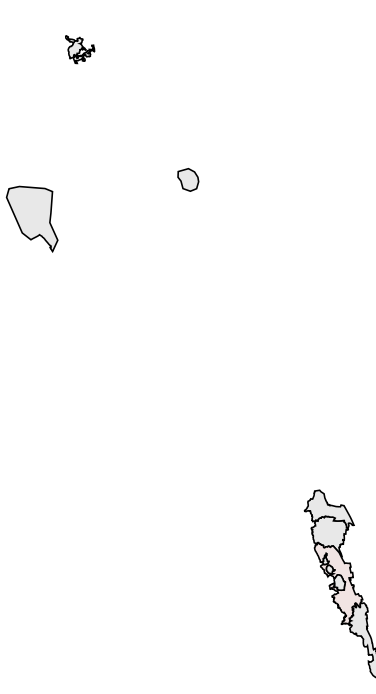
a. Ukhia | Number of cases



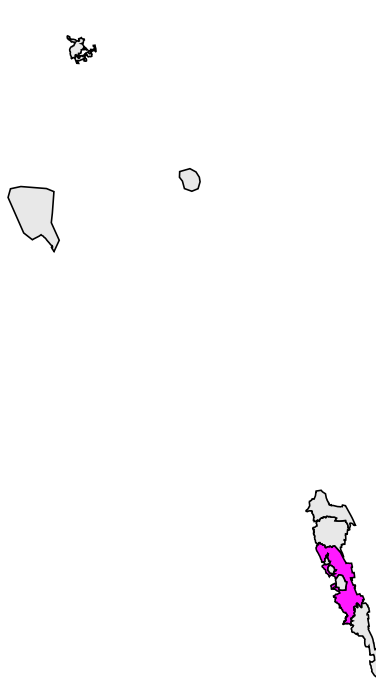
b. Ukhia | Number of alerts



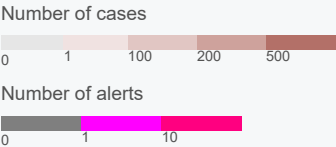
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W26 2022)

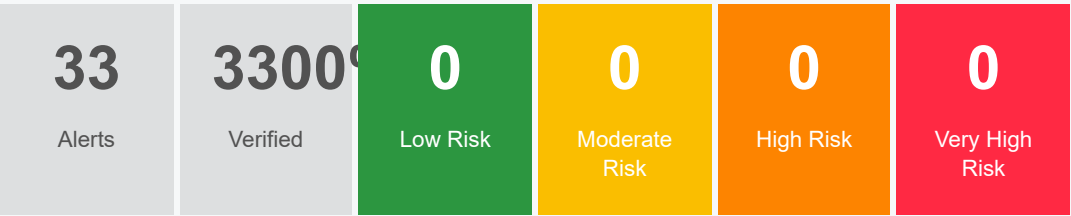


Figure | % sex

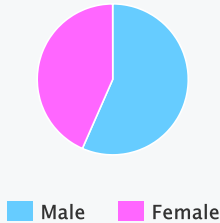
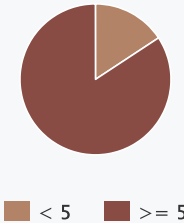
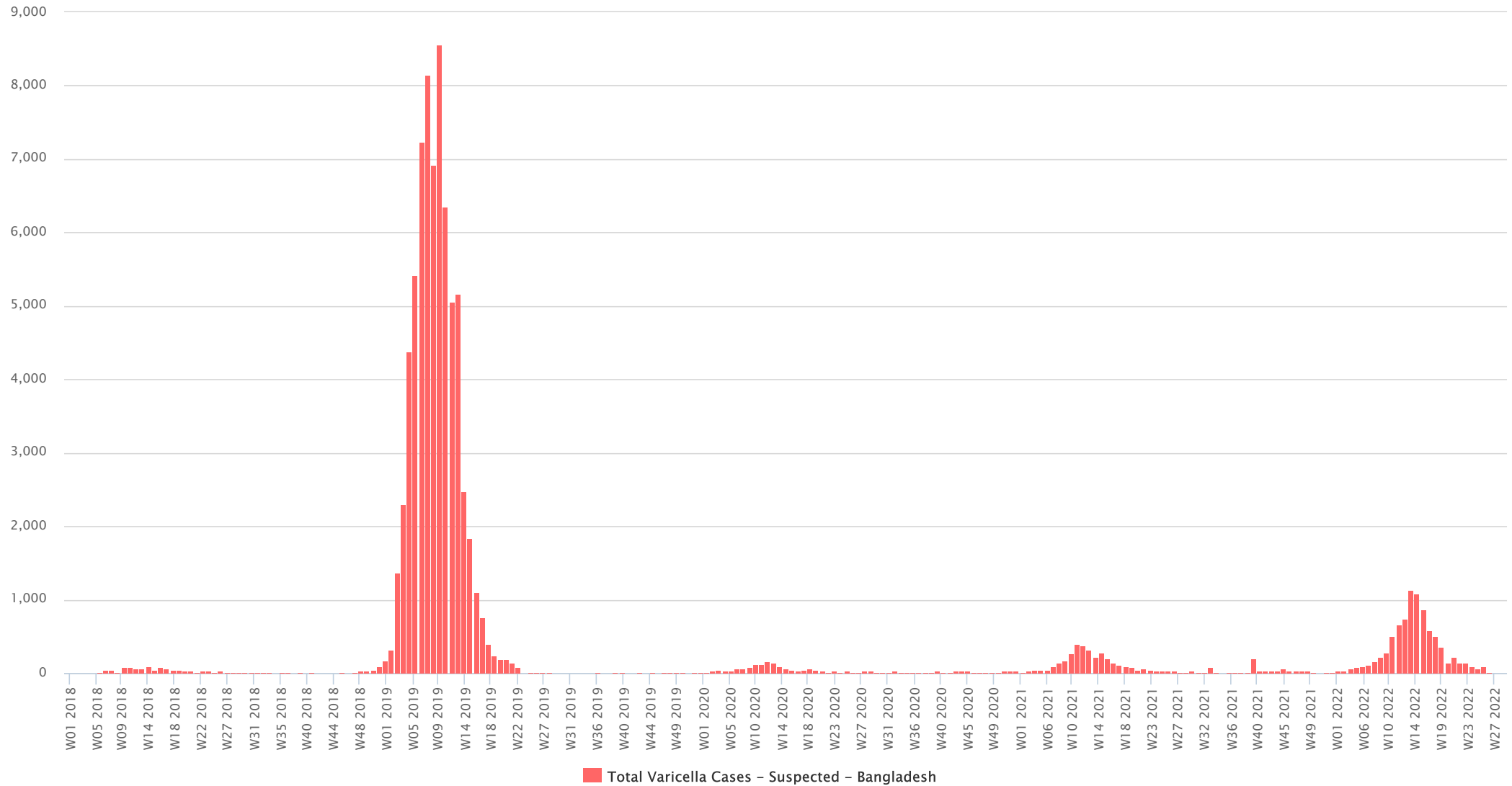


Figure | % age



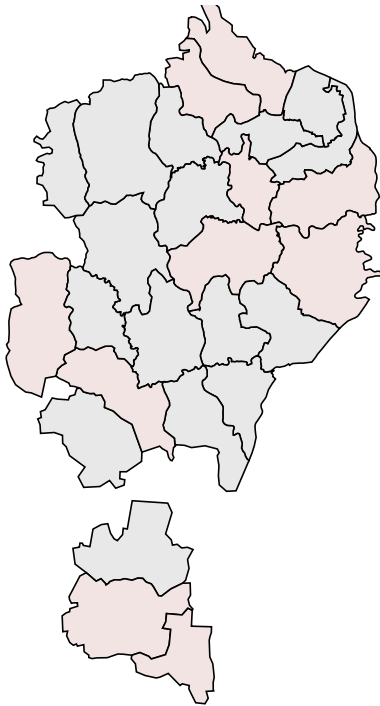
**Figure 7** | Trend in number of cases over time (W38 2017 - W26 2022)



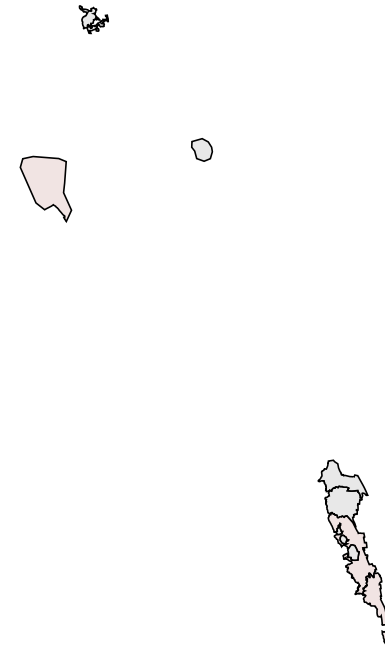


**Map 4** | Map of cases by camp (W37 2017 - W26 2022)

**a. Ukhia** | Number of cases

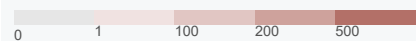


**c. Teknaf** | Number of cases

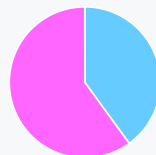


## Map legend

Number of cases

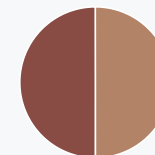


**Figure** | % sex



Male Female

**Figure** | % age



< 5 >= 5

## For more help and support, please contact:

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## Notes

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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