



Epidemiological Highlights

Week 35 (21-27 August) 2022



World Health
Organization

Highlights: COVID-19

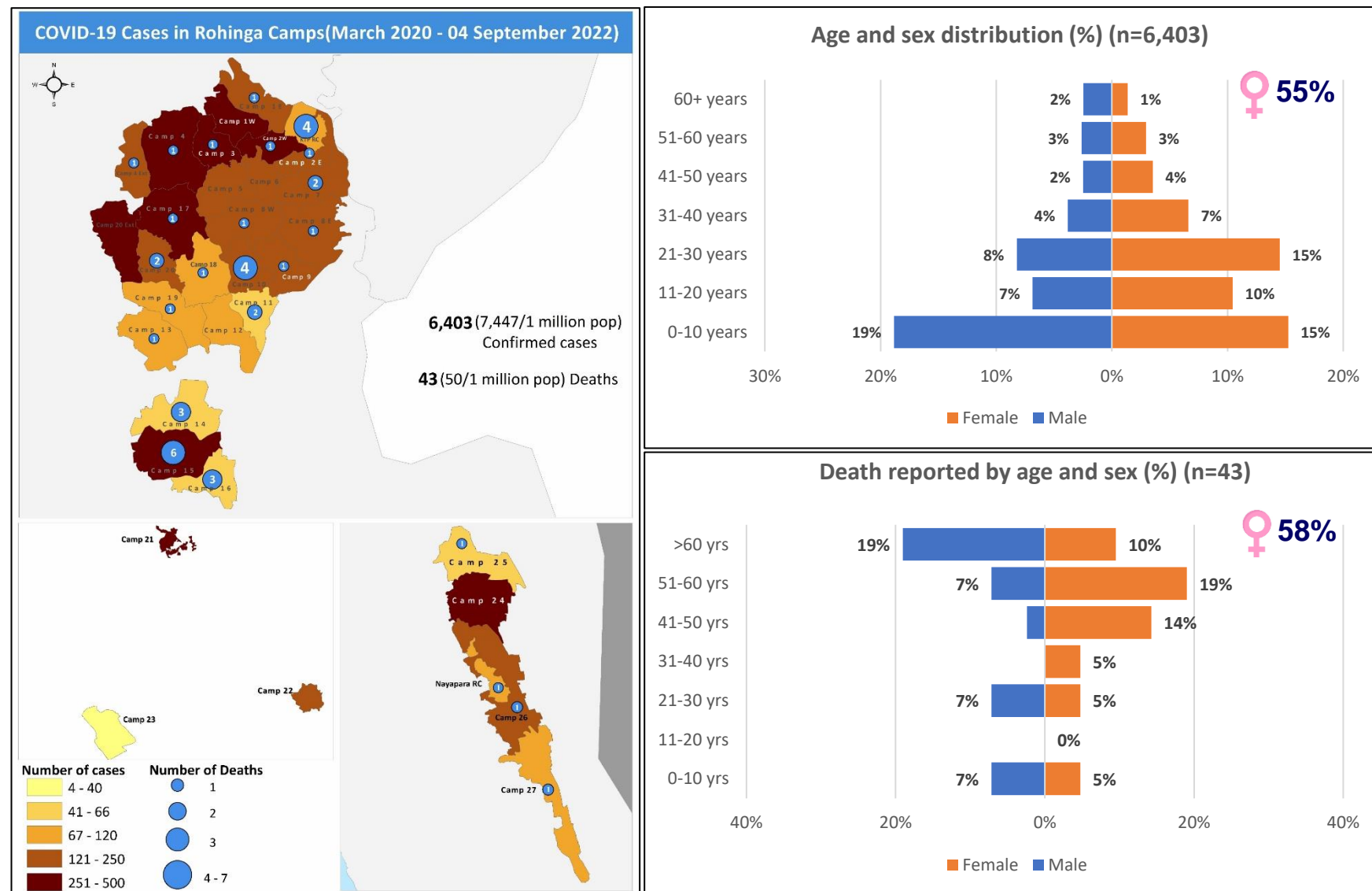
As of week 35, 2022 there were **6,403 confirmed cases** of COVID-19 (SARS-CoV-2), out of 110,129 **samples** that had been submitted for testing. The **Total Positivity Rate (TPR)** now stands at **5.8%**

In the reporting week, again 3 new confirmed case was detected out of 574 total samples tested. This translated to a 0.5% TPR which is less than that of the previous week's 2.8%.

As of this week (week 35)

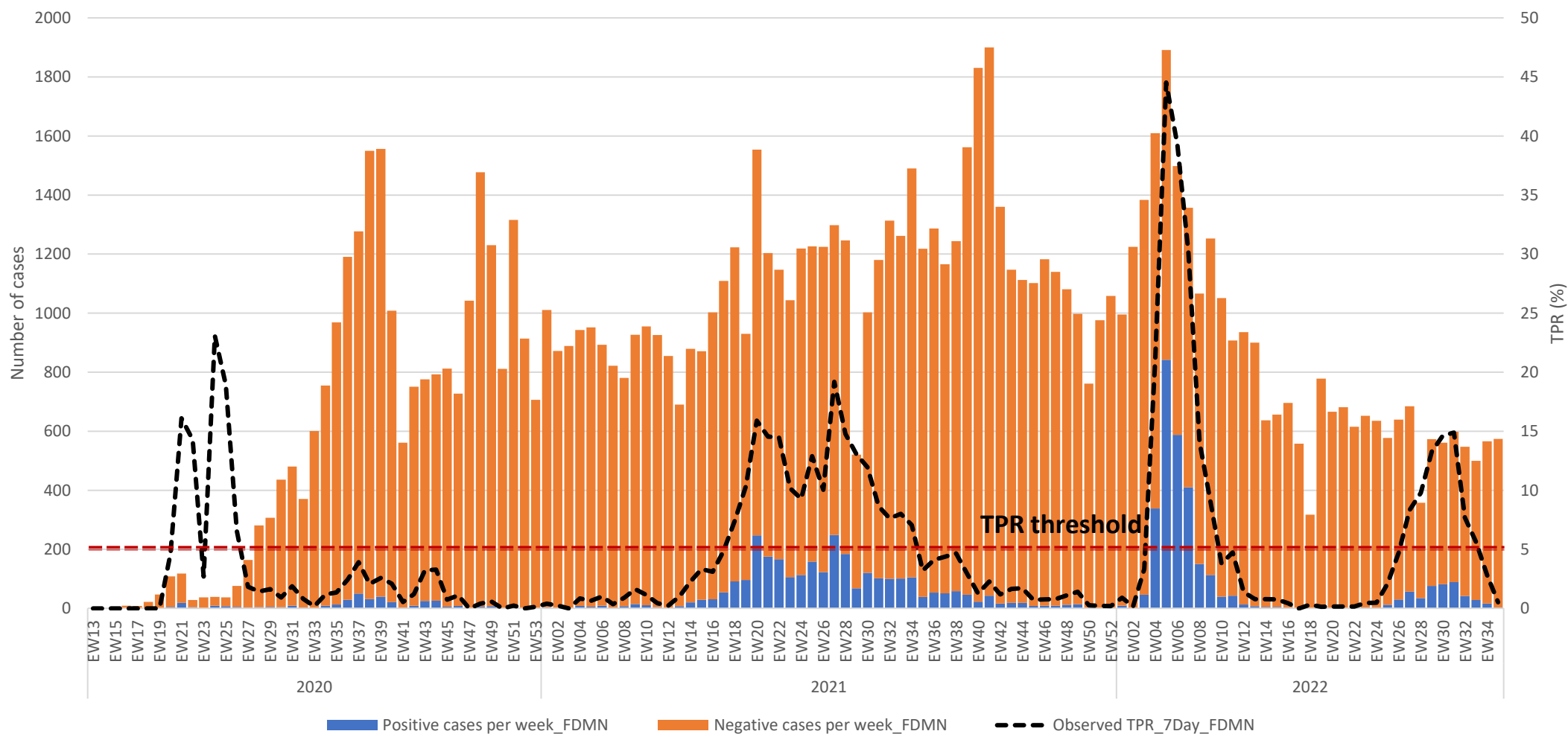
- **Median age** of tested and confirmed cases were 11 (0-120) and 20 (0-100) years respectively
- **Proportion of females** among tested and confirmed cases were 54% and 55% respectively
- **All the 34 camps**, have so far reported confirmed cases since the outbreak began, while the five camps with the highest number of reported cases were; C24-477, C17-449, C2W-413, C4-393, and C3-344
- 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 3.5 cases/1 million population in this Epi week which is less than that of the previous week's 18.6 cases/1 million population.

Highlights: COVID-19



Highlights: COVID-19

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



EWARS Reporting Updates

- Currently, a total of 169 health facilities are registered in EWARS
 - Only 145/169 weekly reports were received on time in week 35
 - Timeliness of reporting for this week was 86%
 - Eighty-one (81) alerts were triggered
 - All alerts were reviewed and verified by the WHO EWARS team; this was less than the previous week (102 alerts in week 34, 2022).

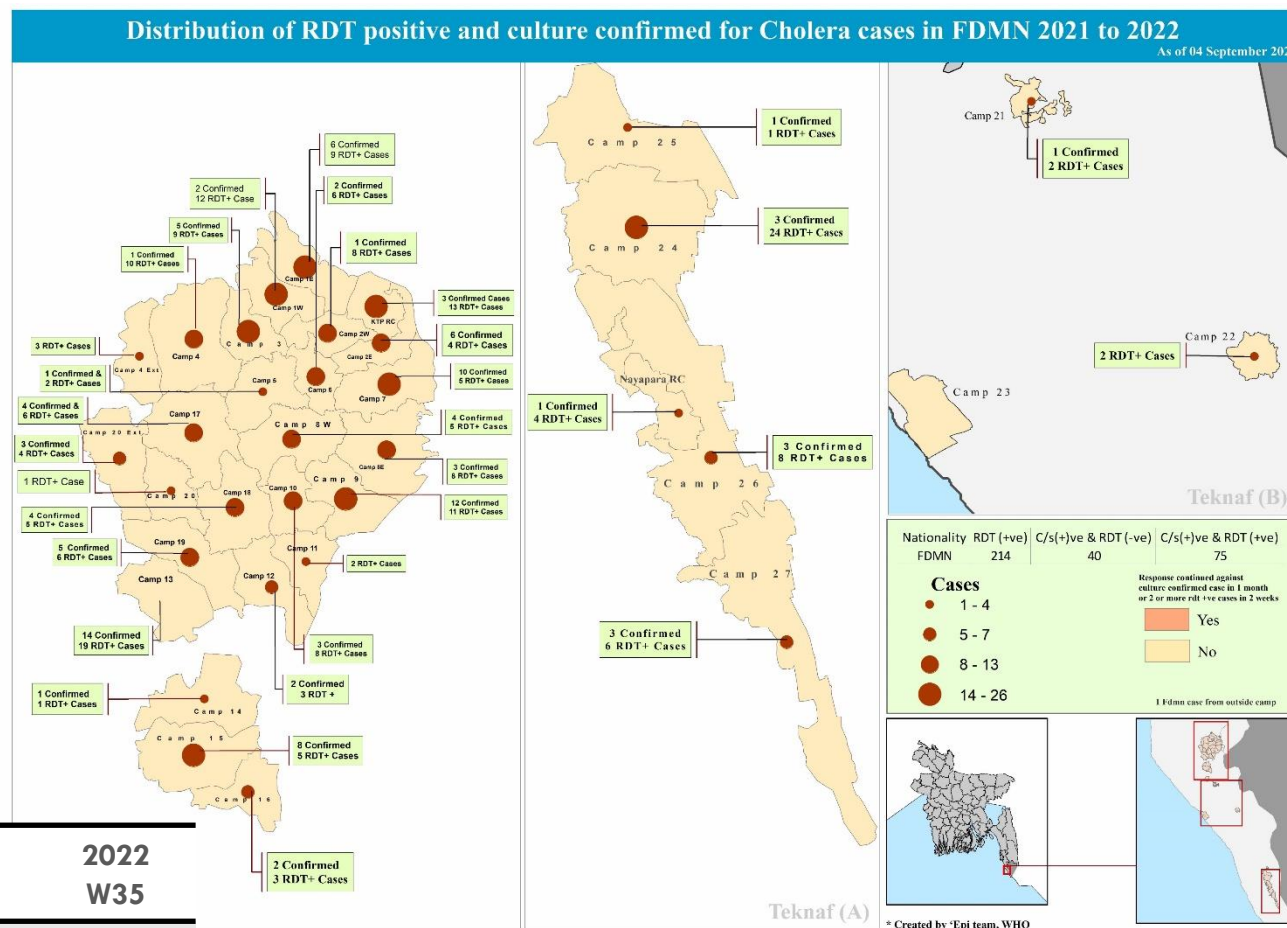
Highlights: Morbidities and Mortalities

- Acute Respiratory Infections (16.0%), Diarrheal Diseases (3.9%) & Injuries, and Wounds (2.0%) were the diseases and health conditions with the highest proportional morbidity in week 35.
- Monitoring of suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020.
- This Epi week, five (5) new SARI death was reported as highlighted below:

Year	Suspected SARI death reported	Reclassified as death due to probable COVID-19
2022	99	7
2021	96	15
2020	49	2

Cholera/AWD Surveillance Updates

- In this week, there is six (6) new RDT-positive case was reported, among samples sent for testing.
- In 2022 total of one hundred (100) RDT-confirmed cholera cases were reported as of W35 2022. Of these 19 were positive for culture, and 81 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 W35
RDT positive/culture confirmed for Cholera	49	258	28	357	100
Culture confirmed for Cholera	7	184	5	136	19

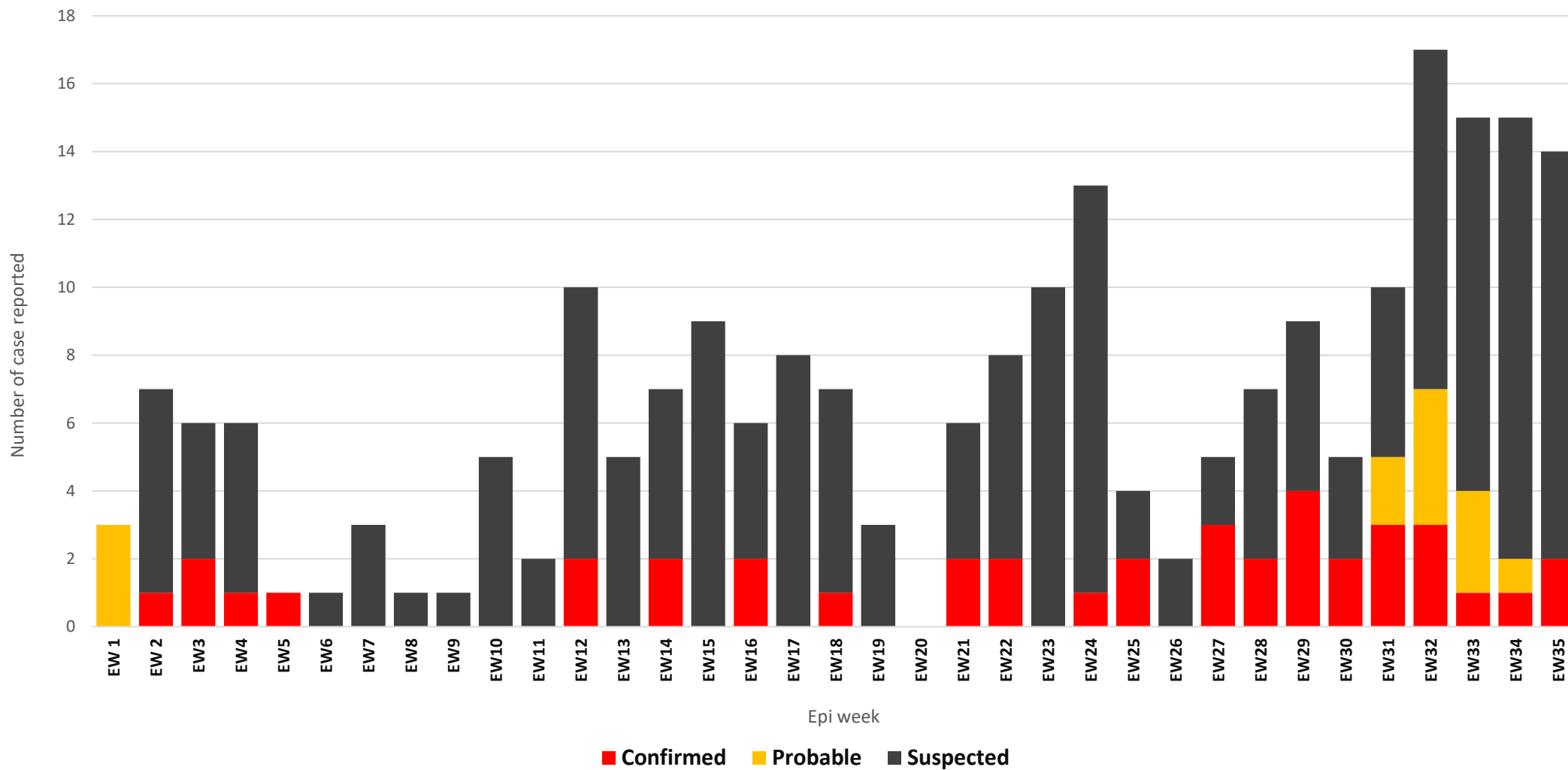
Diphtheria Surveillance Updates

- Two (2) confirmed and 12 suspected diphtheria cases were reported in go.data in this Epi week 35
- The last confirmed case was reported on 26 August 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	40
Probable	1154	1555	60	9	29	13
Suspected	1796	3549	523	198	118	178
Death	30	14	3	0	5	1

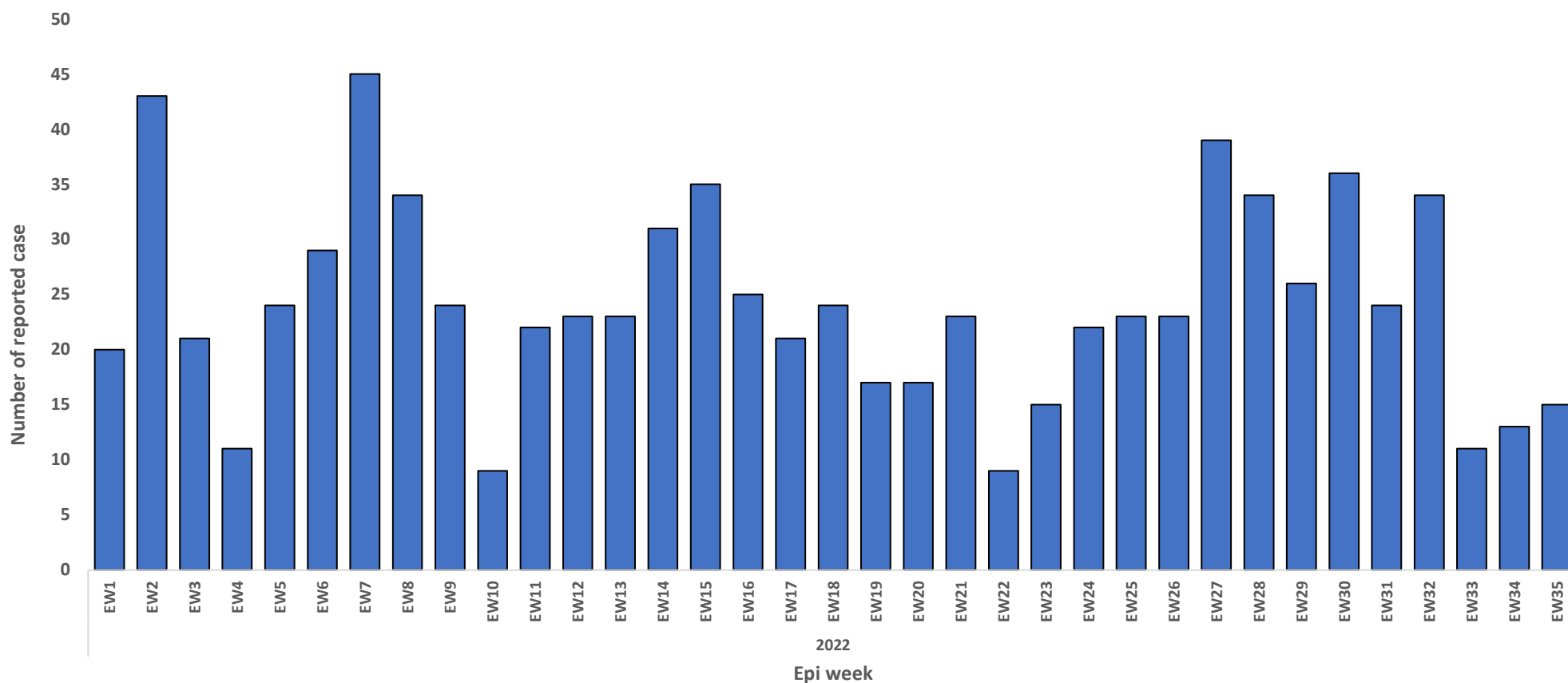
Trends of Diphtheria cases

Total number of diphtheria case reported in EWARS from week 1-35, 2022



Epi Curve of Suspected Measles Cases

Total number of Measles case reported in EWARS from 2021- 2022 (W35)



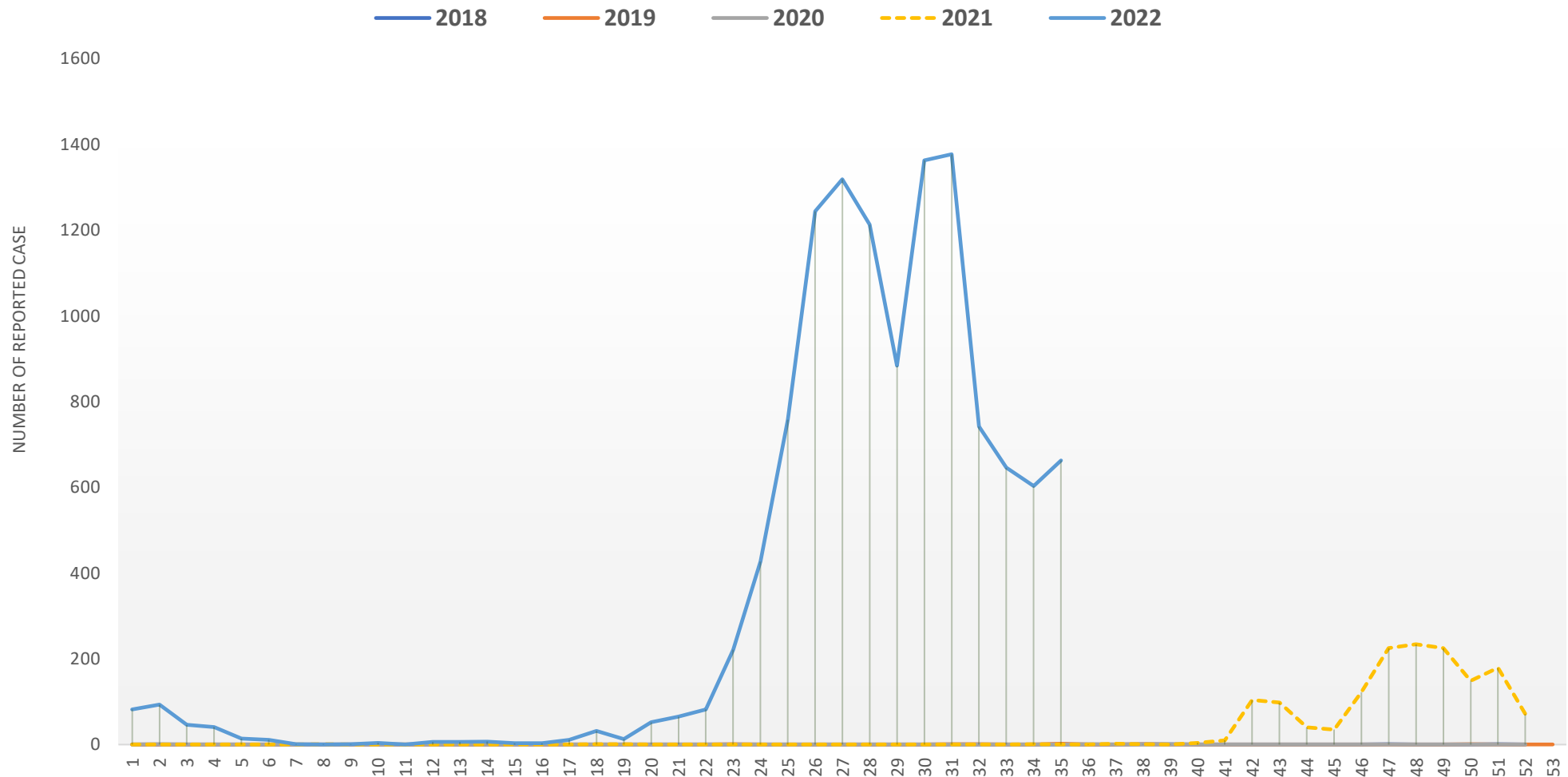
- > In week 35, 15 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 845 reported in 2022
- > About 55% (462/845) of the total suspected measles cases were reported through case-based reporting and samples collected for laboratory 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
	August (as of 27 August)	2,654	5	12,033	15

Dengue Surveillance Updates

Yearly Trends of Dengue case trend from 2018 - Epi Week 35, 2022



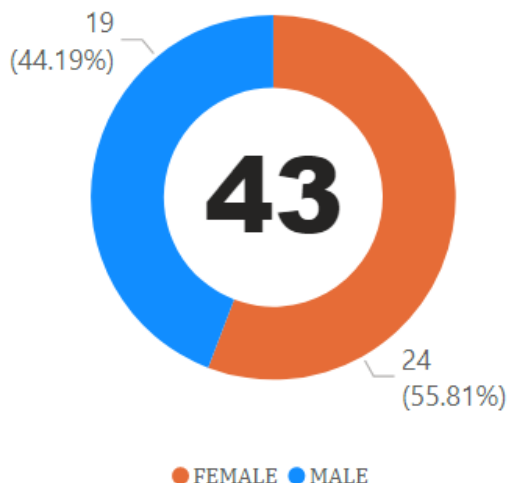
Community-based Mortality surveillance updates Epi week 35

Probable causes of death	Epi week 35	In 2022
Still Birth	2(9%)	133 (10%)
Neonatal Death (<28 days old)	6 (14%)	129 (10%)
Infectious Disease	1 (2%)	41(3%)
Severe Acute Respiratory Infection (SARI)	4 (9%)	38 (2%)
Injury	1 (2%)	32 (3%)
Maternal Death	--	31 (3%)
Acute Malnutrition	--	1 (0%)
Other	29 (67%)	869 (69%)
Total	43(100%)	1,294 (100%)

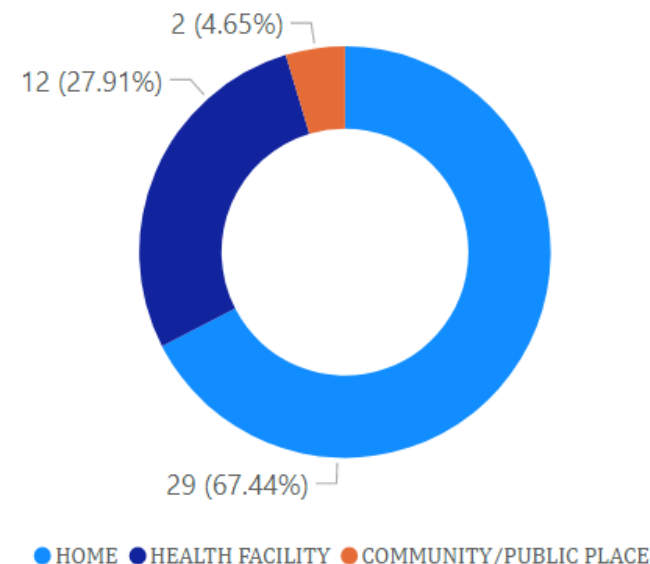
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable

Community-based Mortality surveillance updates Epi week 35

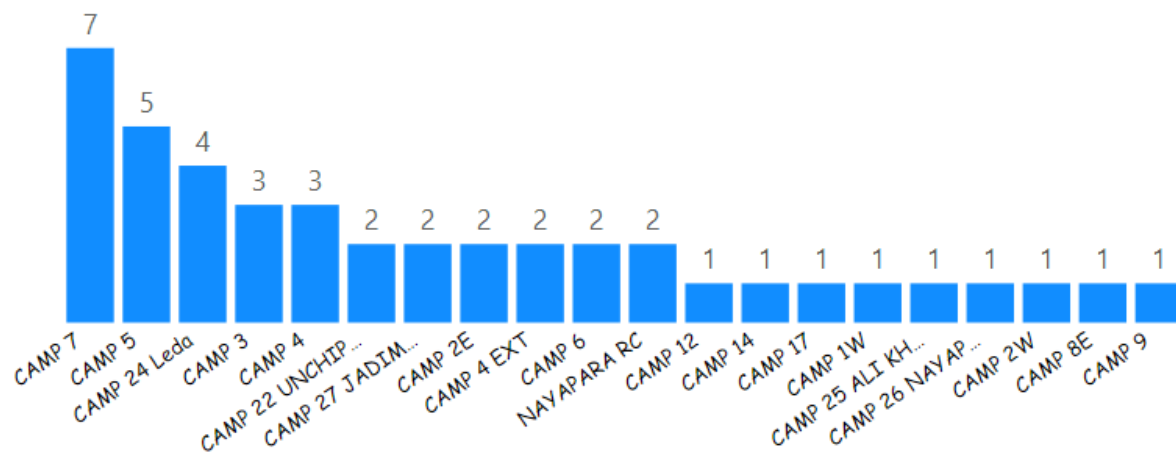
Gender distribution



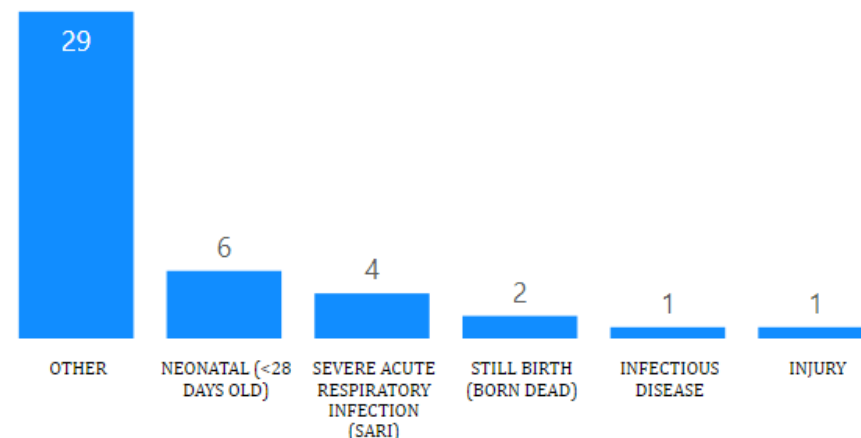
Place of death



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W35 2022



Ministry of Health and Family
Welfare Bangladesh



World Health
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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 W35 2022

Table 1 | Coverage

#	%	
918,841	-	Estimated total Rohingya population ¹
902,066	98%	Total population under surveillance
175	-	Total number of health facilities
169	97%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

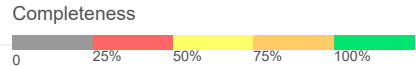
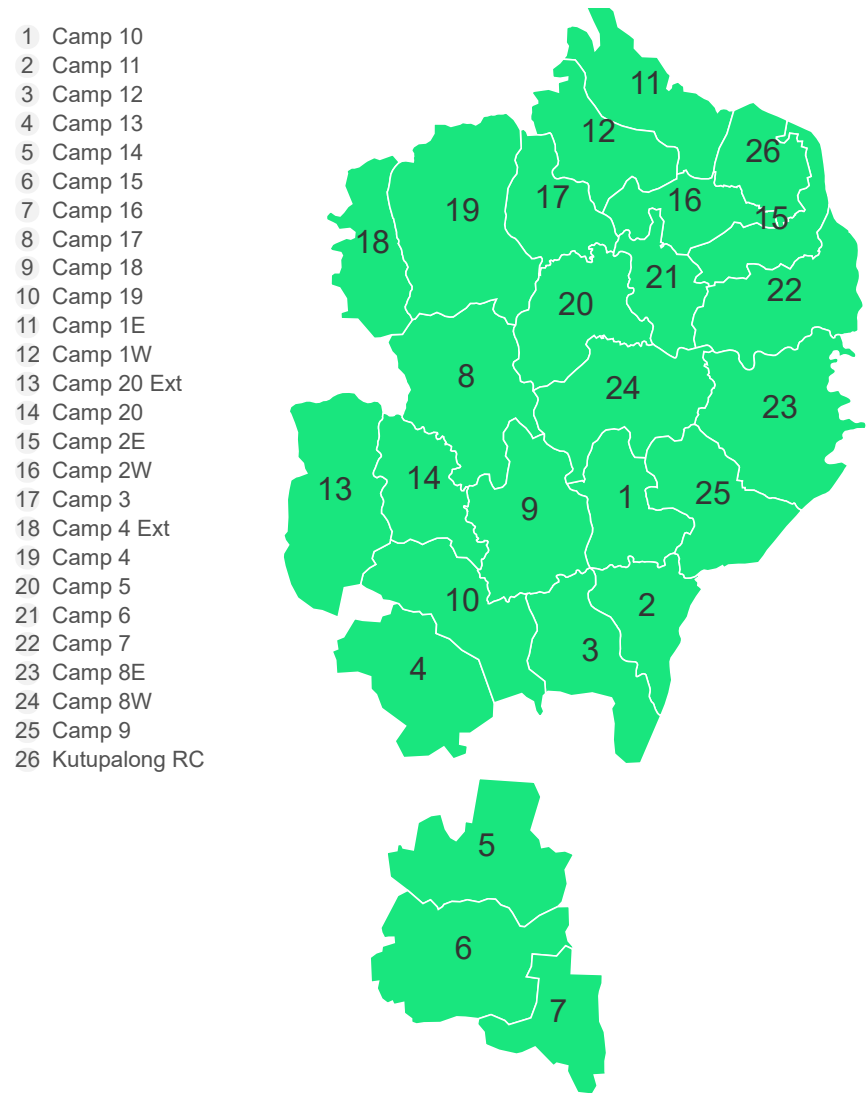
W35	Cumulative (2022)	
145	5748	Number of weekly reports received
86%	92%	Completeness
86%	90%	Timeliness

Table 3 Alert performance indicators

W35	Cumulative (2022)	
81	3,181	Total alerts raised
100%	100%	% verified
0%	0%	% auto-discarded
0%	0%	% undergoing risk assessment
0%	0%	% completed risk assessment

¹ 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

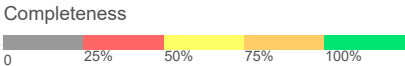
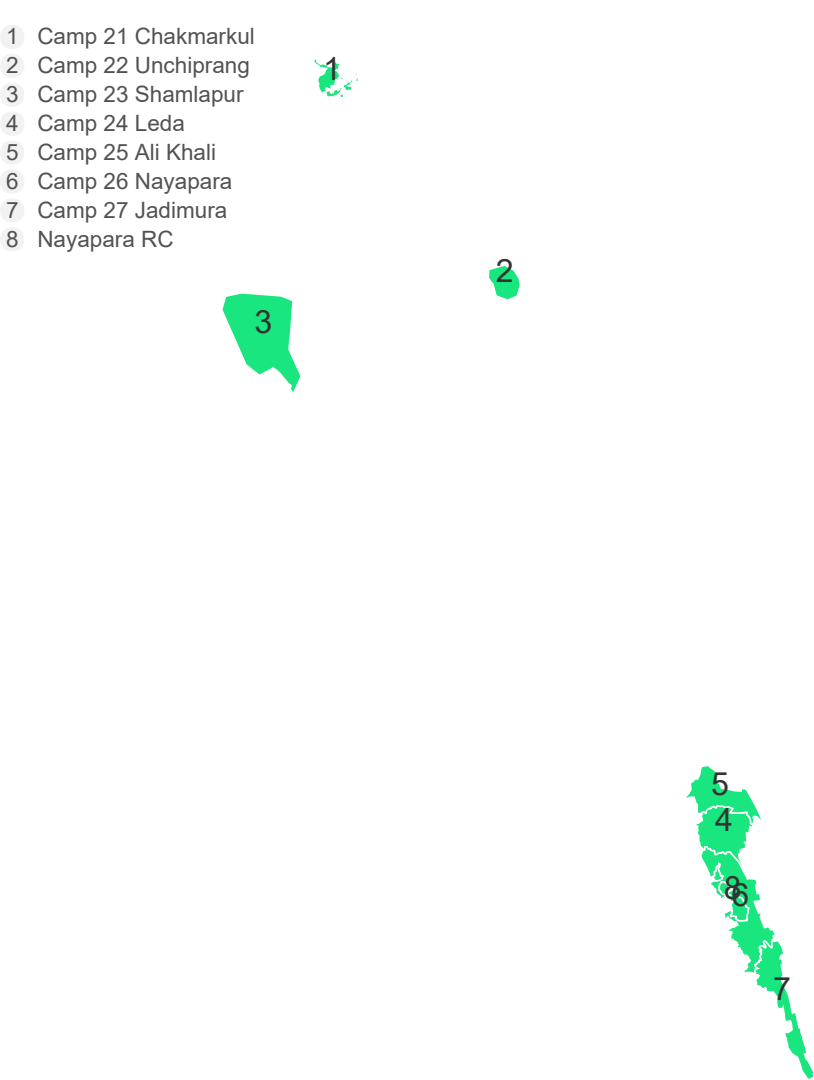


Table 4 | Performance by camp (W35 2022)

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

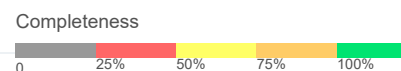
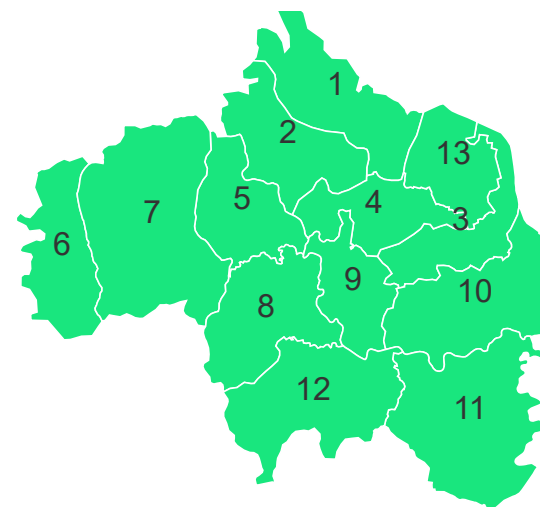
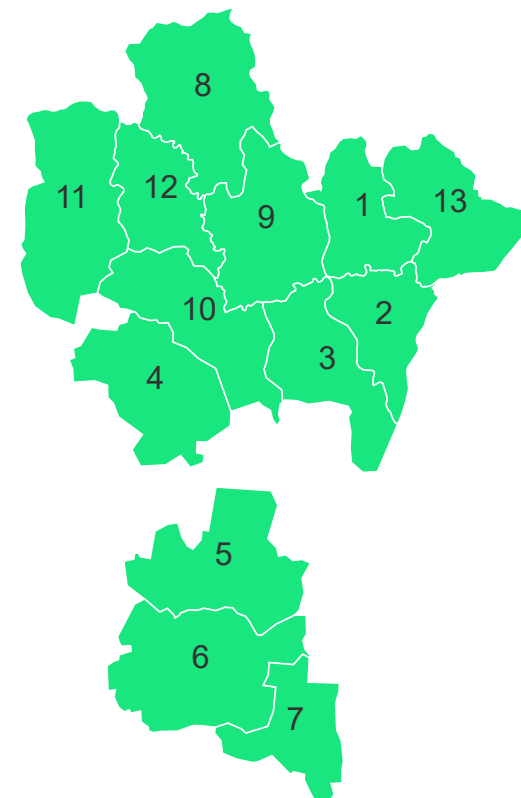


Table 5 | Performance by camp (W35 2022)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	0%	0%
Camp 11	8	7	0%	0%
Camp 12	6	3	0%	0%
Camp 13	10	8	0%	0%
Camp 14	7	5	0%	0%
Camp 15	9	7	0%	11%
Camp 16	7	6	0%	0%
Camp 17	5	4	0%	0%
Camp 18	5	4	0%	0%
Camp 19	5	4	0%	0%
Camp 20	4	3	0%	0%
Camp 20 Ext	3	3	0%	0%
Camp 9	6	5	0%	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 (W35 2022)

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

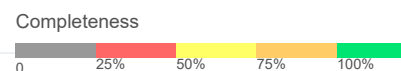
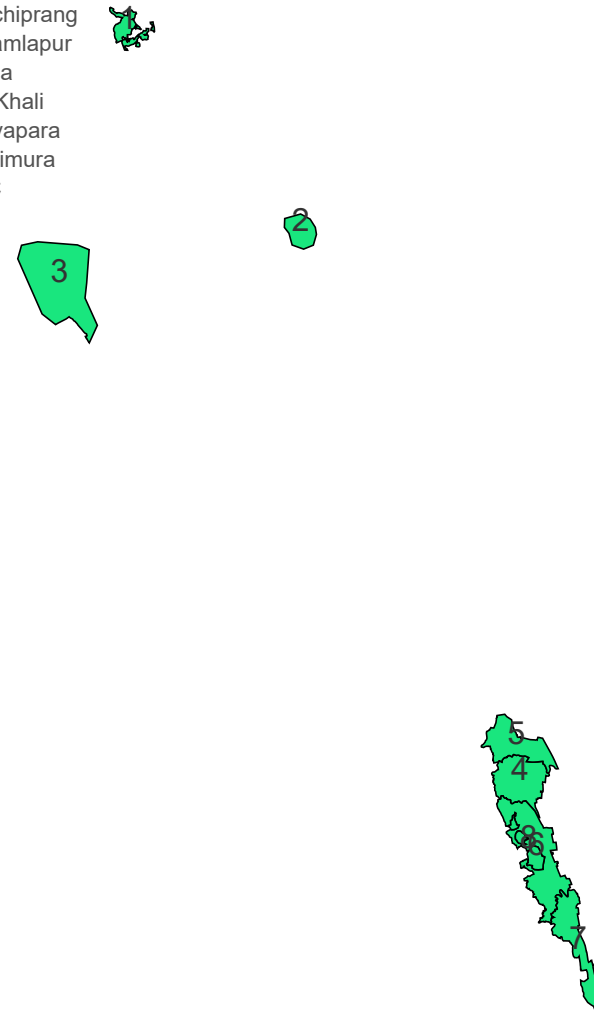


Table 7 | Performance by partner (W35 2022)

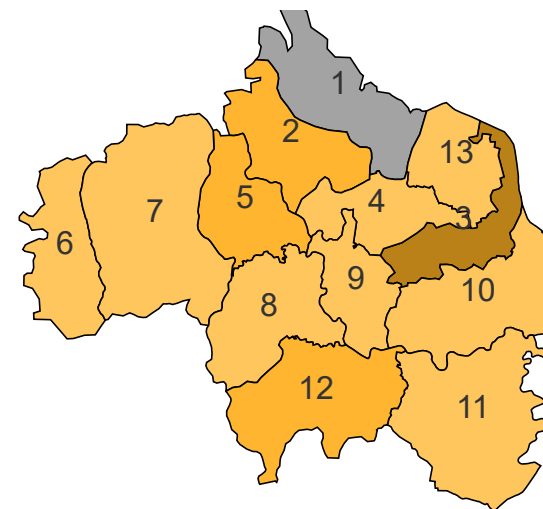
Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	0	0	0%	0%	IRC	0	3	0%	0%
AWARD	0	6	0%	0%	MSF	0	8	0%	0%
BASHMAH	0	1	0%	0%	MoH	0	11	0%	0%
BDRCS	0	11	0%	0%	MHI	0	0		
BRAC	0	11	0%	0%	Medair	0	0		
CARE	0	4	0%	0%	FH/MTI	0	4	0%	0%
GH/CPI	0	1	0%	0%	PRANTIC	0	1	0%	0%
DBC	0	1	0%	0%	PULSE	0	1	0%	0%
DSK	0	1	0%	0%	QC	0	1	0%	0%
DCHT-PWJ	0	1	0%	0%	PHD	0	10	0%	0%
FRNDS	0	5	0%	0%	RPN	0	2	0%	0%
GK	0	11	0%	0%	RHU	0	3	0%	0%
Global One	0	0	0%	0%	RI	0	3	0%	0%
GUSS	0	1	0%	0%	RTMI	0	8	0%	0%
HAEFA	0	2	0%	0%	SALT	0	1	0%	0%
HAIB	0	0	0%	0%	SCI	0	7	0%	0%
HMBDF	0	2	0%	0%	DCHT-MM	0	1	0%	0%
HOPE	0	1	0%	0%	Turkish Government	0	1	0%	0%
ICRC	0	1	0%	0%	TdH	0	2	0%	0%
IOM	0	24	0%	0%					

Table 8 | Performance by camp

Northern group	W35		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	0	0%	68	100%
Camp 1W	3	100%	168	100%
Camp 2E	12	100%	338	100%
Camp 2W	1	100%	104	100%
Camp 3	3	100%	153	100%
Camp 4	2	100%	126	100%
Camp 4 Ext	2	100%	47	100%
Camp 5	2	100%	111	100%
Camp 6	2	100%	84	100%
Camp 7	1	100%	62	100%
Camp 8E	2	100%	59	100%
Camp 8W	3	100%	167	100%
Kutupalong RC	2	100%	70	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	W35		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	4	100%	67	100%
Camp 11	0	0%	75	100%
Camp 12	1	100%	108	100%
Camp 13	1	100%	119	100%
Camp 14	3	100%	65	100%
Camp 15	4	100%	116	100%
Camp 16	6	100%	95	100%
Camp 17	1	100%	85	100%
Camp 18	2	100%	130	100%
Camp 19	5	100%	52	100%
Camp 20	1	100%	47	100%
Camp 20 Ext	0	0%	42	100%
Camp 9	3	100%	164	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

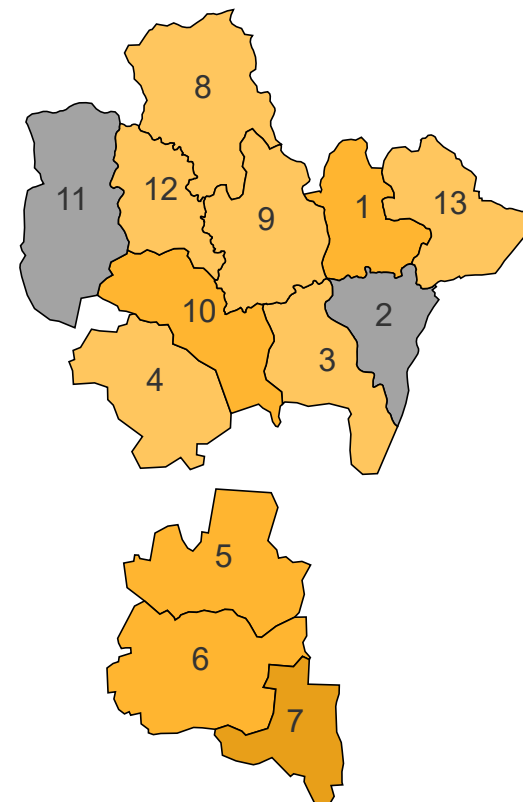


Table 10 | Performance by camp

Teknaf	W35		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	1	100%	39	100%
Camp 22 Unchiprang	6	100%	57	100%
Camp 23 Shamlapur	0	0%	16	100%
Camp 24 Leda	3	100%	76	100%
Camp 25 Ali Khali	1	100%	26	100%
Camp 26 Nayapara	0	0%	97	100%
Camp 27 Jadimura	1	100%	56	100%
Nayapara RC	2	100%	33	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

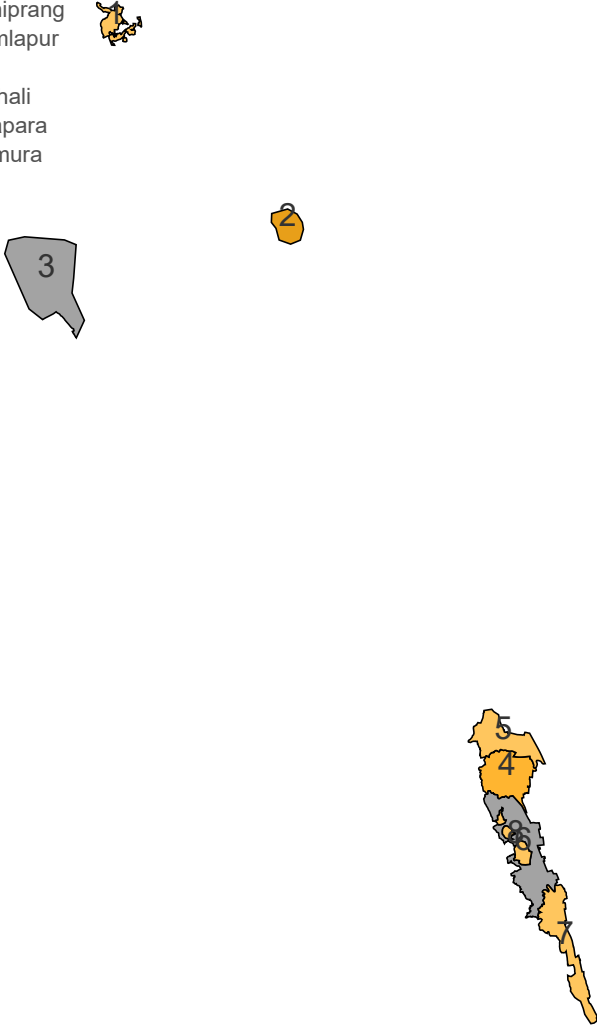


Table 11 | Performance by type of alert

Event	W35		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	3	100%
Measles	5	100%	373	100%
Bloody Diarr.	0	0%	0	0%
AFP	1	100%	22	100%
Meningitis	1	100%	20	100%
Haem. fever (susp.)	1	100%	21	100%
NNT	0	0%	3	100%
Unexp. fever	0	100%	108	100%
AWD	1	100%	176	100%
ARI	2	100%	152	100%
AJS	4	100%	78	100%
Varicella (Susp.)	0	0%	107	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	7	100%	175	100%

Table 12 | Risk assessment

W35	Cumulative (2022)	
0	8	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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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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Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W35 2022



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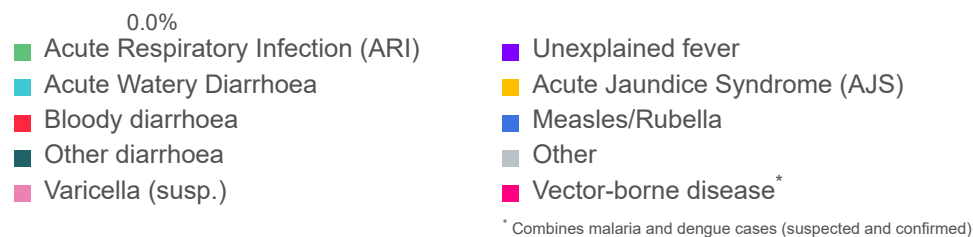
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Proportional morbidity

Figure 1 | Proportional morbidity (W35 2022)



Disease	W35		2022	
	# cases	% morbidity	# cases	% morbidity
AWD	2,910	2.6%	92,887	2.6%
Bloody diarr.	328	0.3%	13,011	0.4%
Other diarr.	1,147	1.0%	36,517	1.0%
Susp. Varicella	38	0.0%	8,811	0.2%
ARI	18,188	16.0%	625,768	17.5%
Measles/Rub.	12	0.0%	808	0.0%
AFP	2	0.0%	56	0.0%
Susp. menin.	5	0.0%	138	0.0%
AJS	61	0.1%	906	0.0%
Susp. HF	18	0.0%	139	0.0%
Neo. tetanus	1	0.0%	9	0.0%
Adult tetanus	0	0.0%	13	0.0%
Malaria (conf.)	2	0.0%	347	0.0%
Malaria (susp.)	1,496	1.3%	52,289	1.5%
Dengue (conf.)	783	0.7%	16,348	0.5%
Dengue (susp.)	284	0.3%	7,015	0.2%
Unexpl. fever	1,518	1.3%	43,359	1.2%
Sev. Malnut.	63	0.1%	1,492	0.0%
Inj./Wounds	2,214	2.0%	77,272	2.2%
Other	84,378	74.3%	2,593,941	72.5%
Total	112,020	100%	3,578,118	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W35)

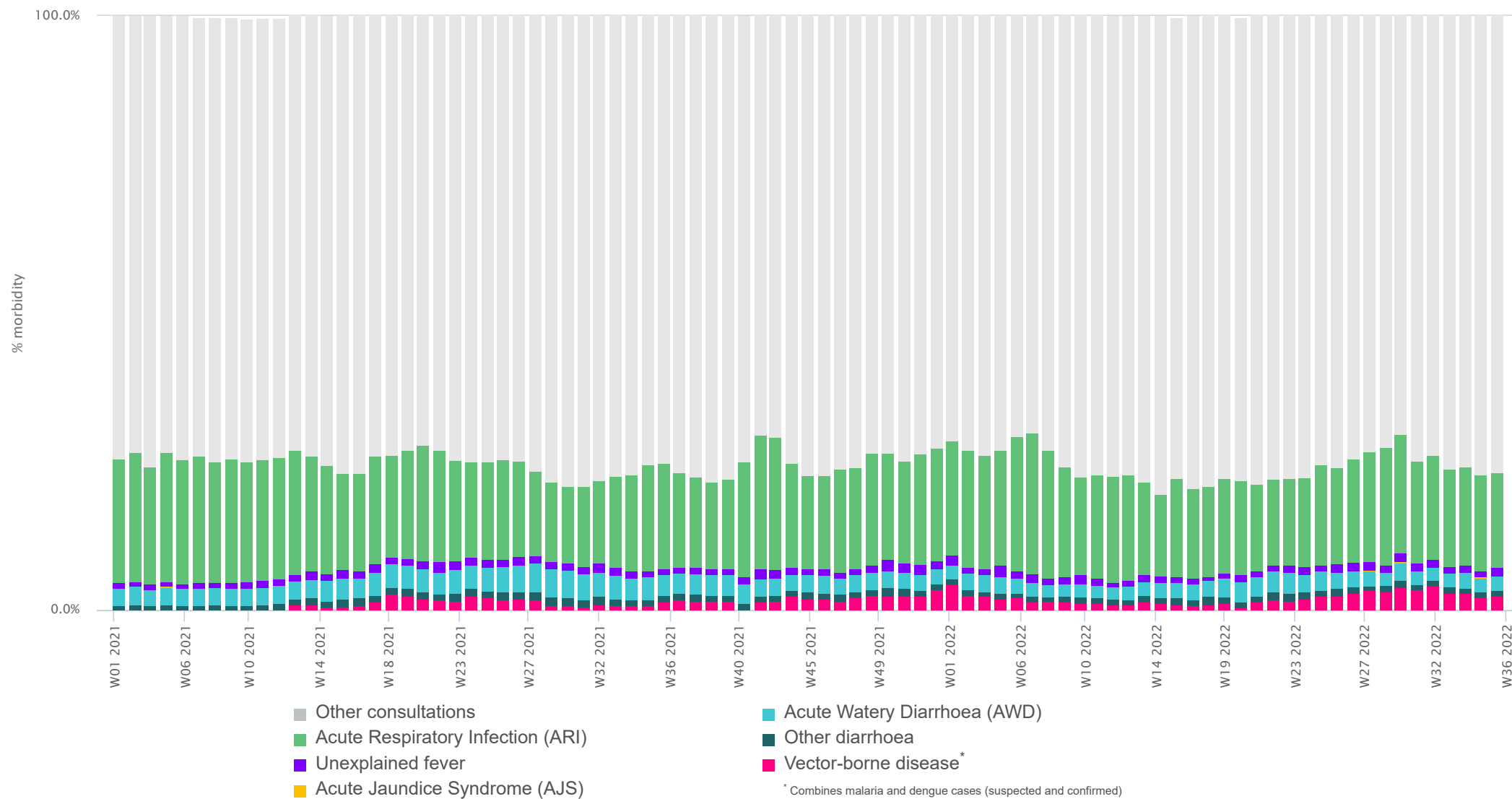
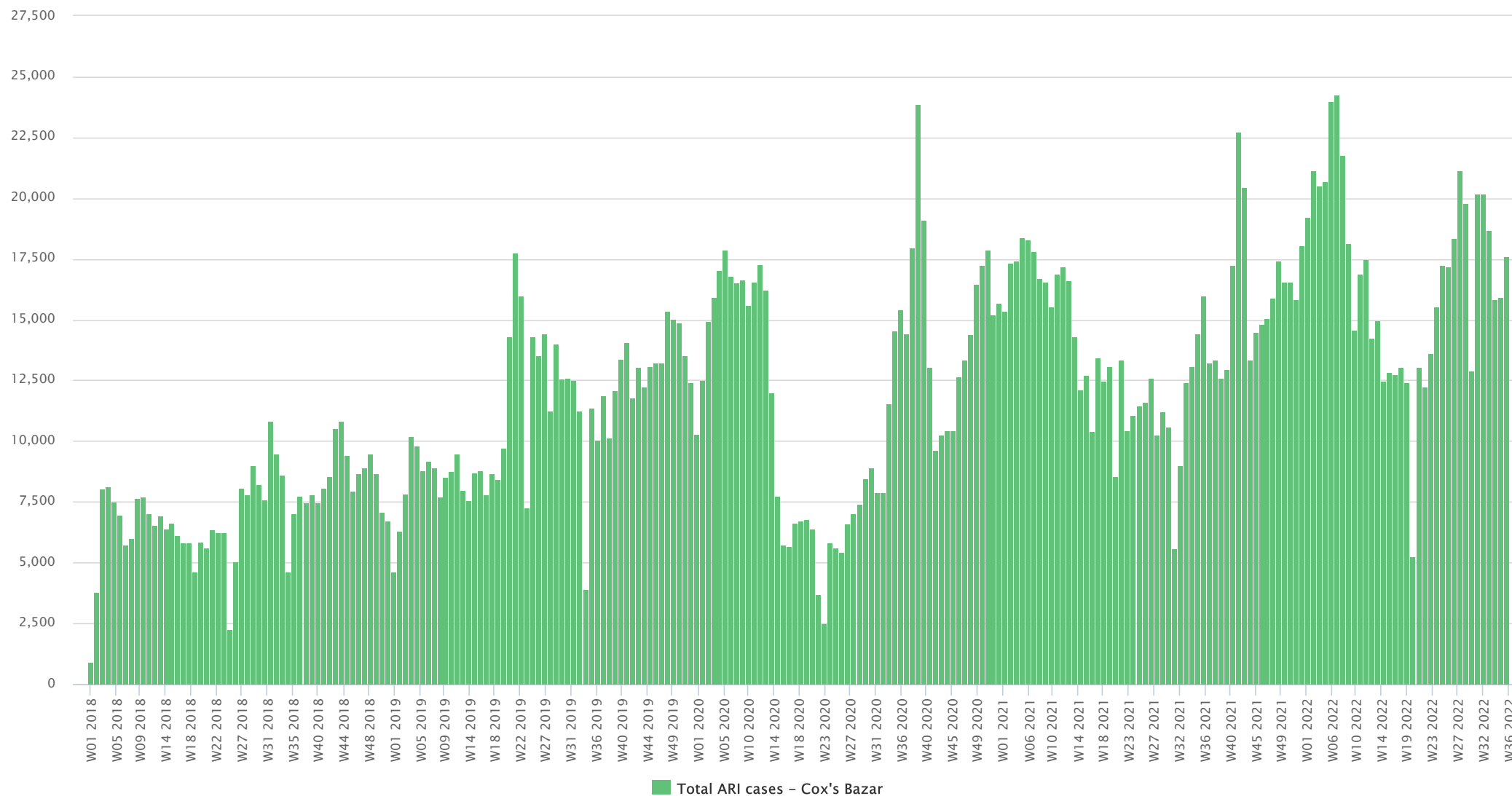
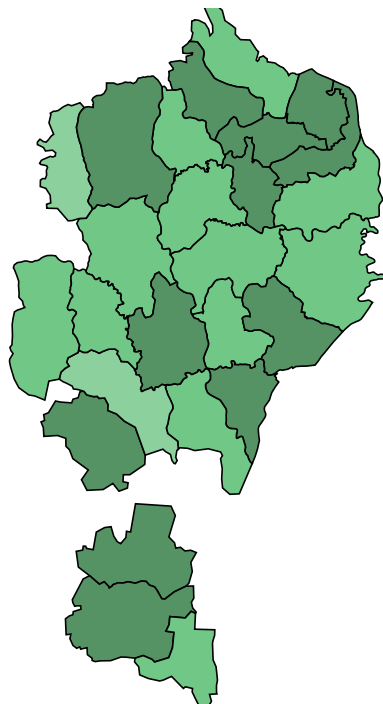


Figure 3 | Trend in number of cases over time (W38 2017 - W35 2022)

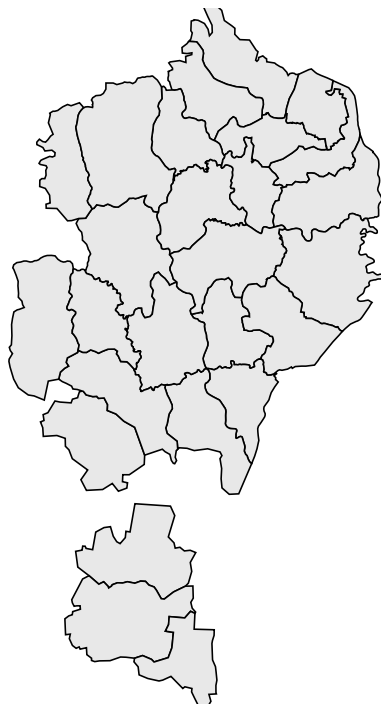


Map 1 | Map of cases by camp (W35 2022)

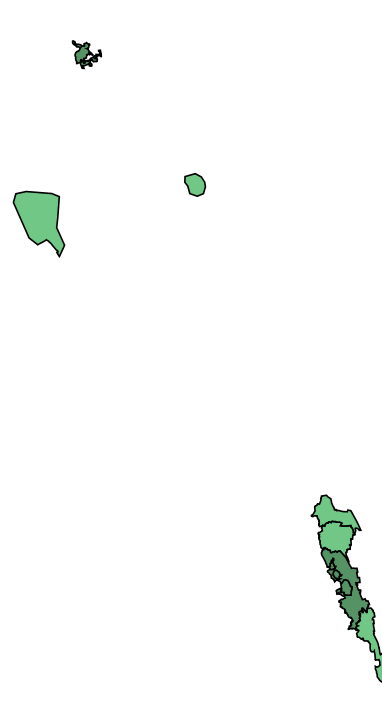
a. Ukhia | Number of cases



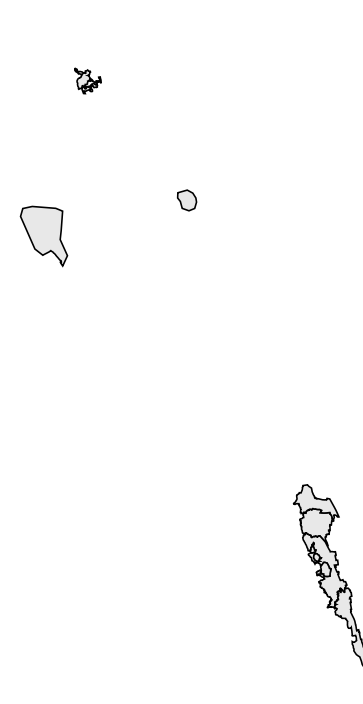
b. Ukhia | Number of alerts



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 (W35 2022)

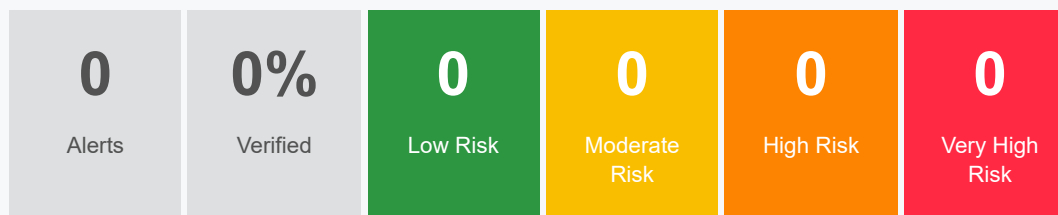
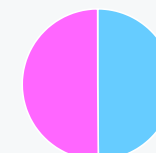
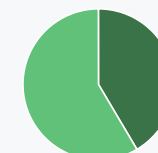


Figure | % sex



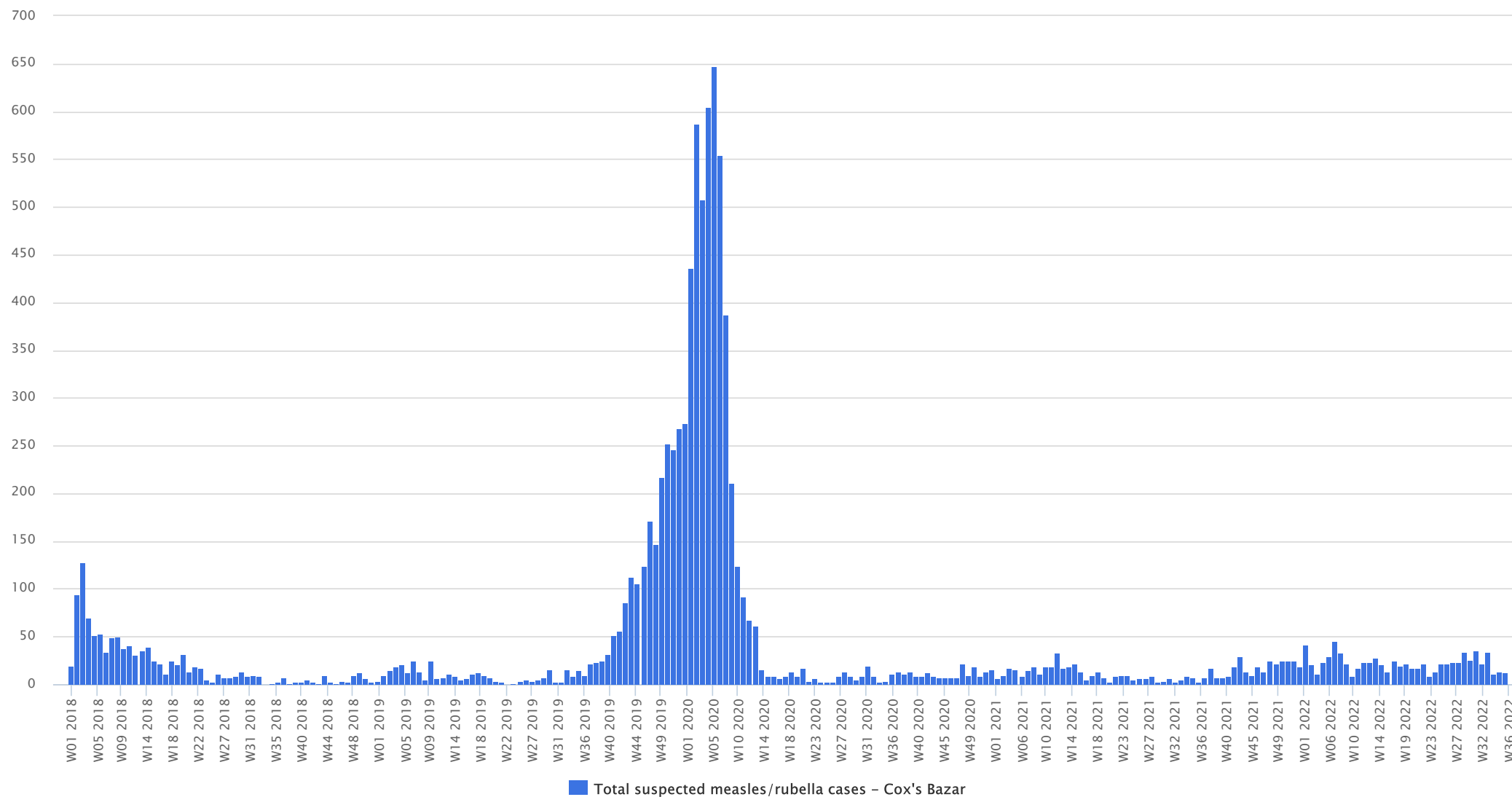
Male Female

Figure | % age



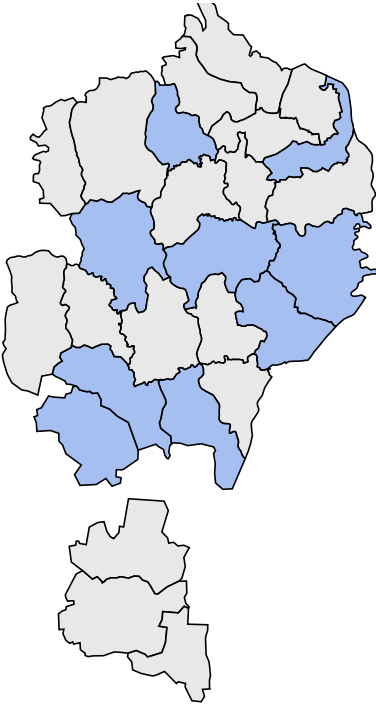
>=5 < 5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W35 2022)

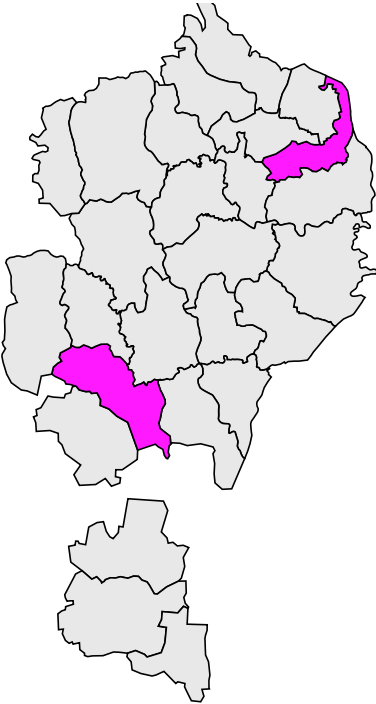


Map 2 | Map of cases by camp (W35 2022)

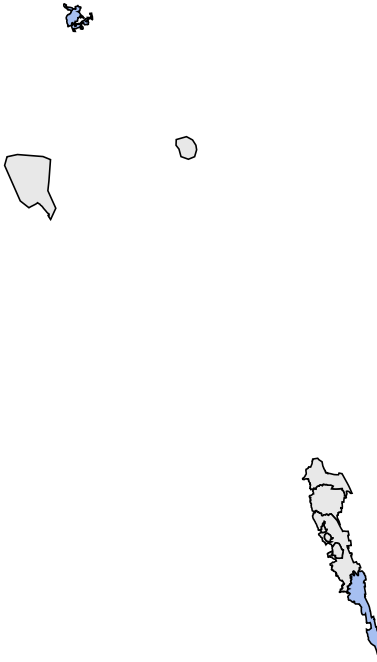
a. Ukhia | Number of cases



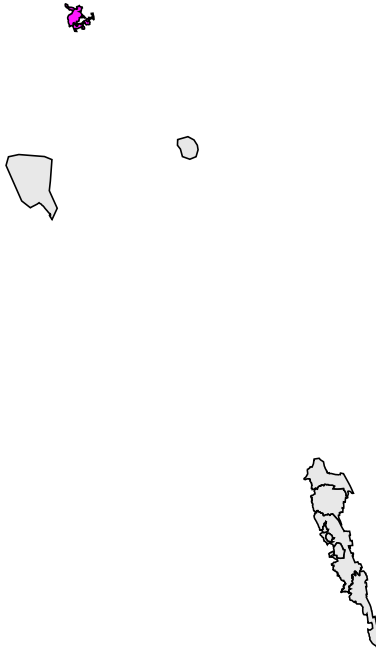
b. Ukhia | Number of alerts



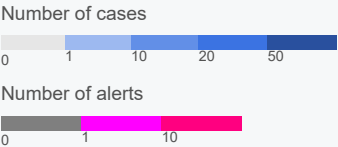
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W35 2022)

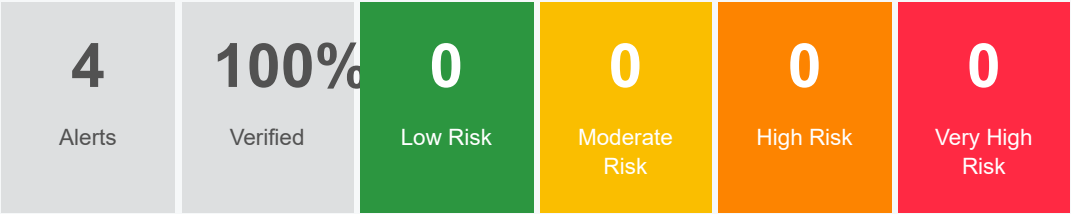


Figure | % sex

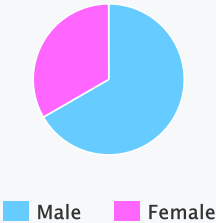


Figure | % age

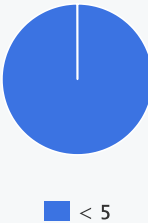
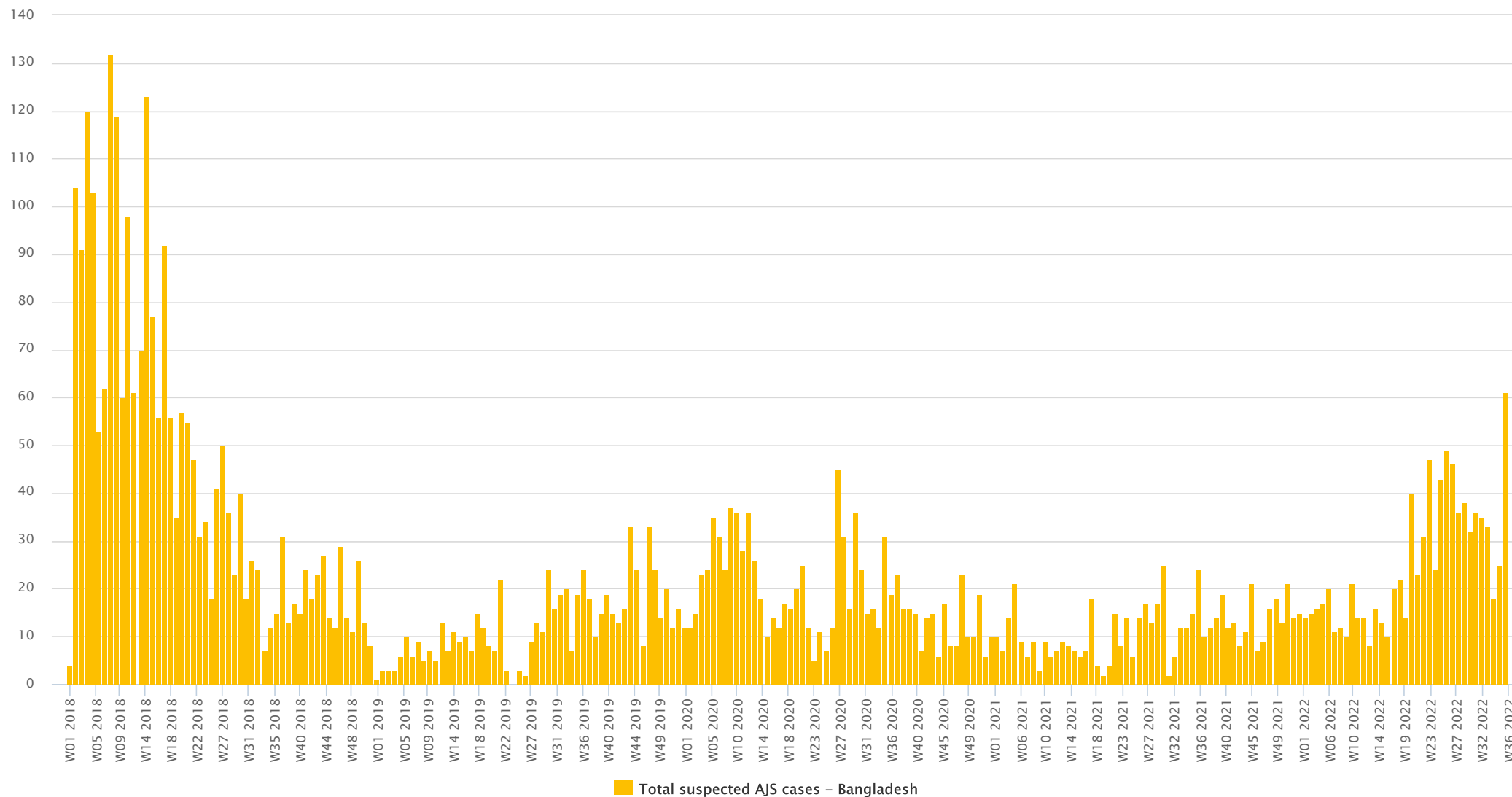
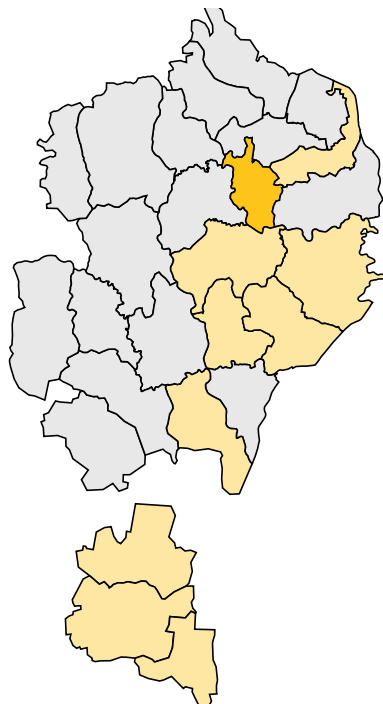


Figure 5 | Trend in number of cases over time (W38 2017 - W35 2022)

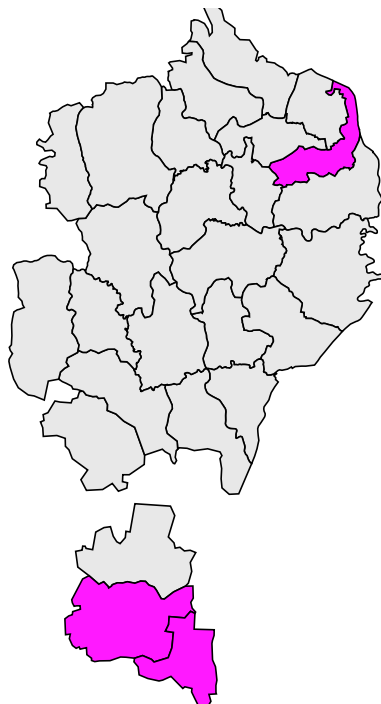


Map 3 | Map of cases by camp (W37 2017 - W35 2022)

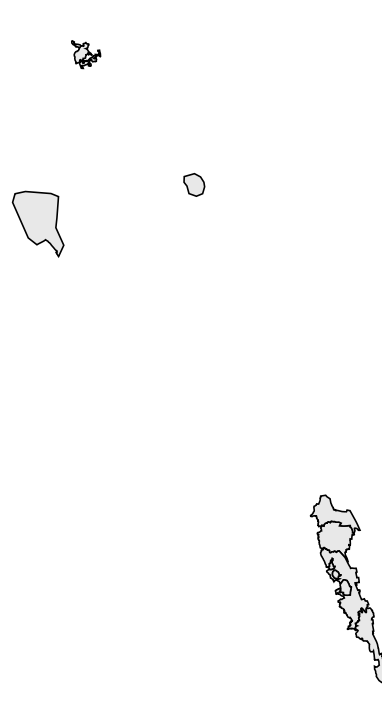
a. Ukhia | Number of cases



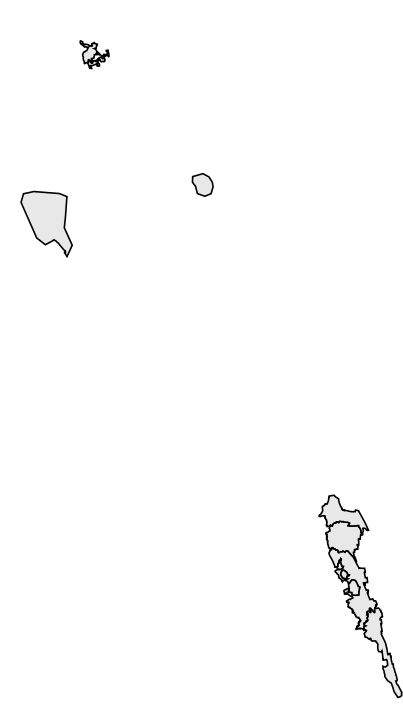
b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend

Number of cases



Number of alerts



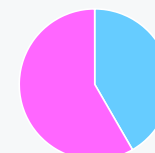
Alert threshold

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

Alert management (W35 2022)

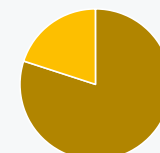


Figure | % sex



Male Female

Figure | % age



>= 5 < 5

Figure 6 | Trend in number of cases over time (W38 2017 - W35 2022)

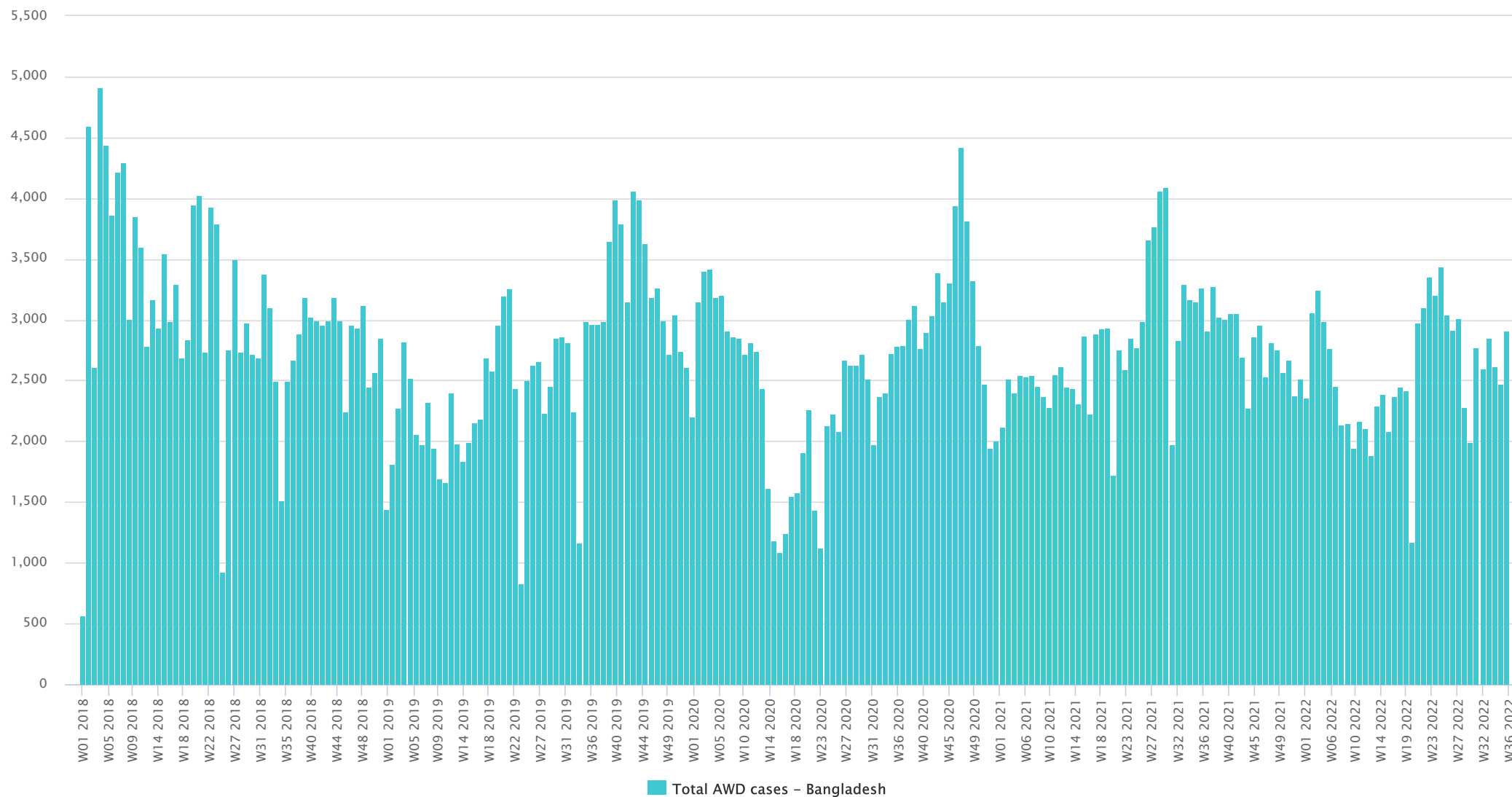
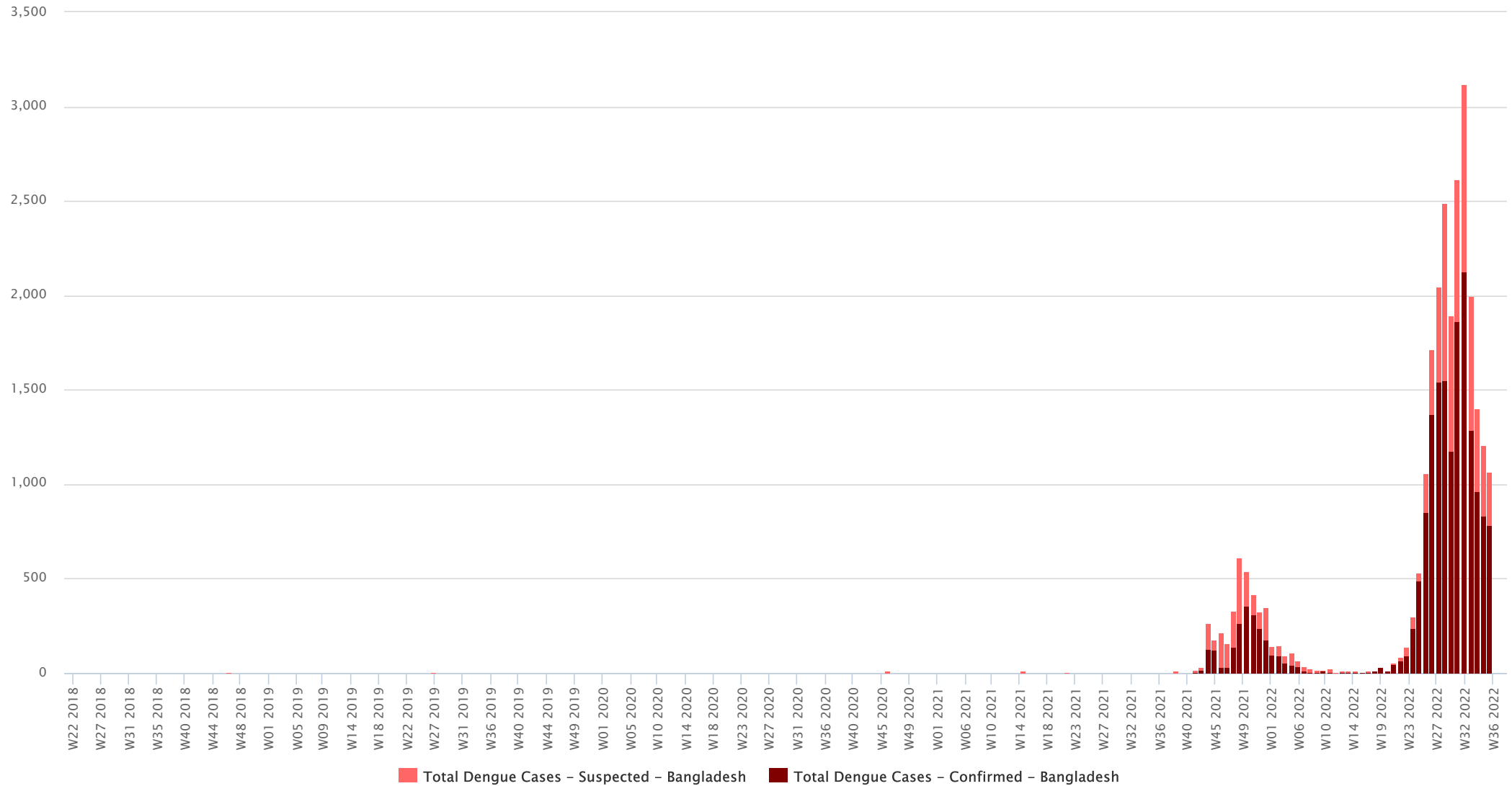
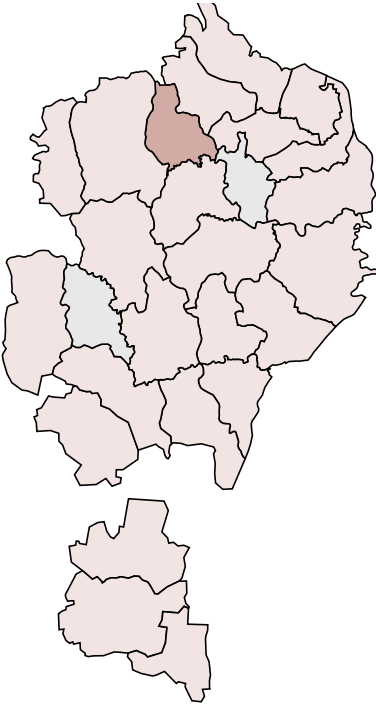


Figure 7 | Trend in number of cases over time (W38 2017 - W35 2022)

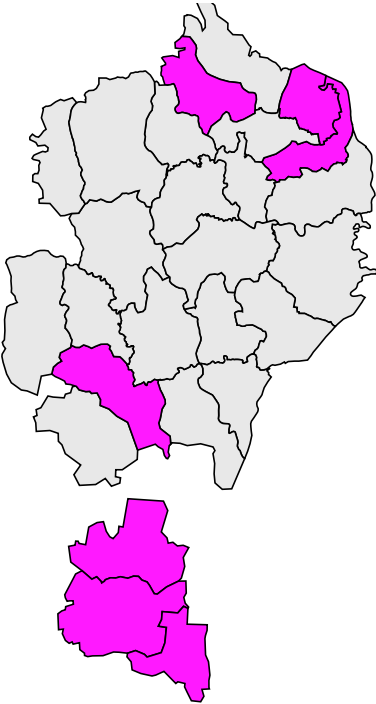


Map 4 | Map of cases by camp (W37 2017 - W35 2022)

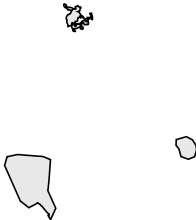
a. Ukhia | Number of cases



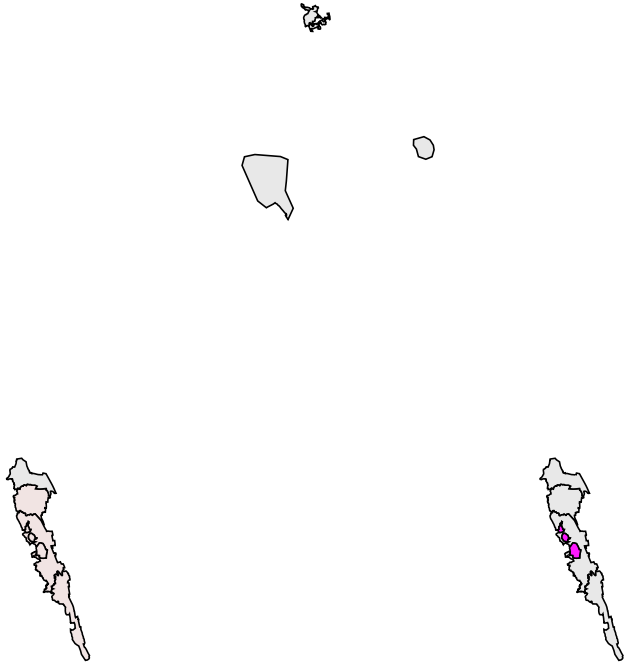
b. Ukhia | Number of alerts



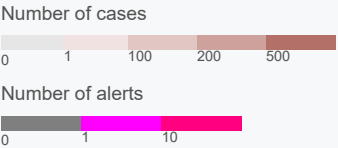
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W35 2022)

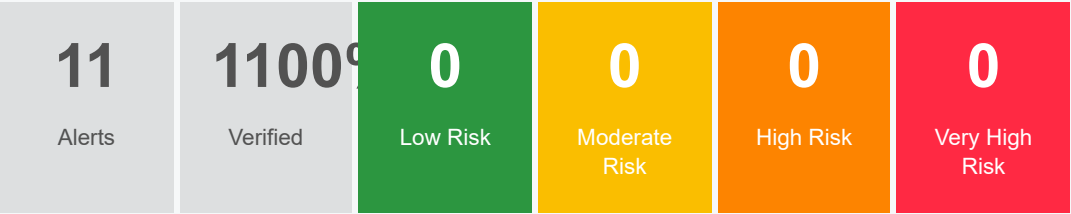


Figure | % sex

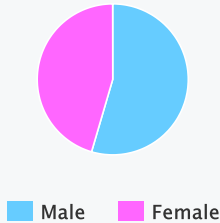


Figure | % age

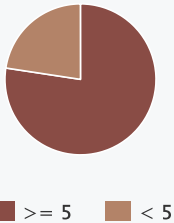
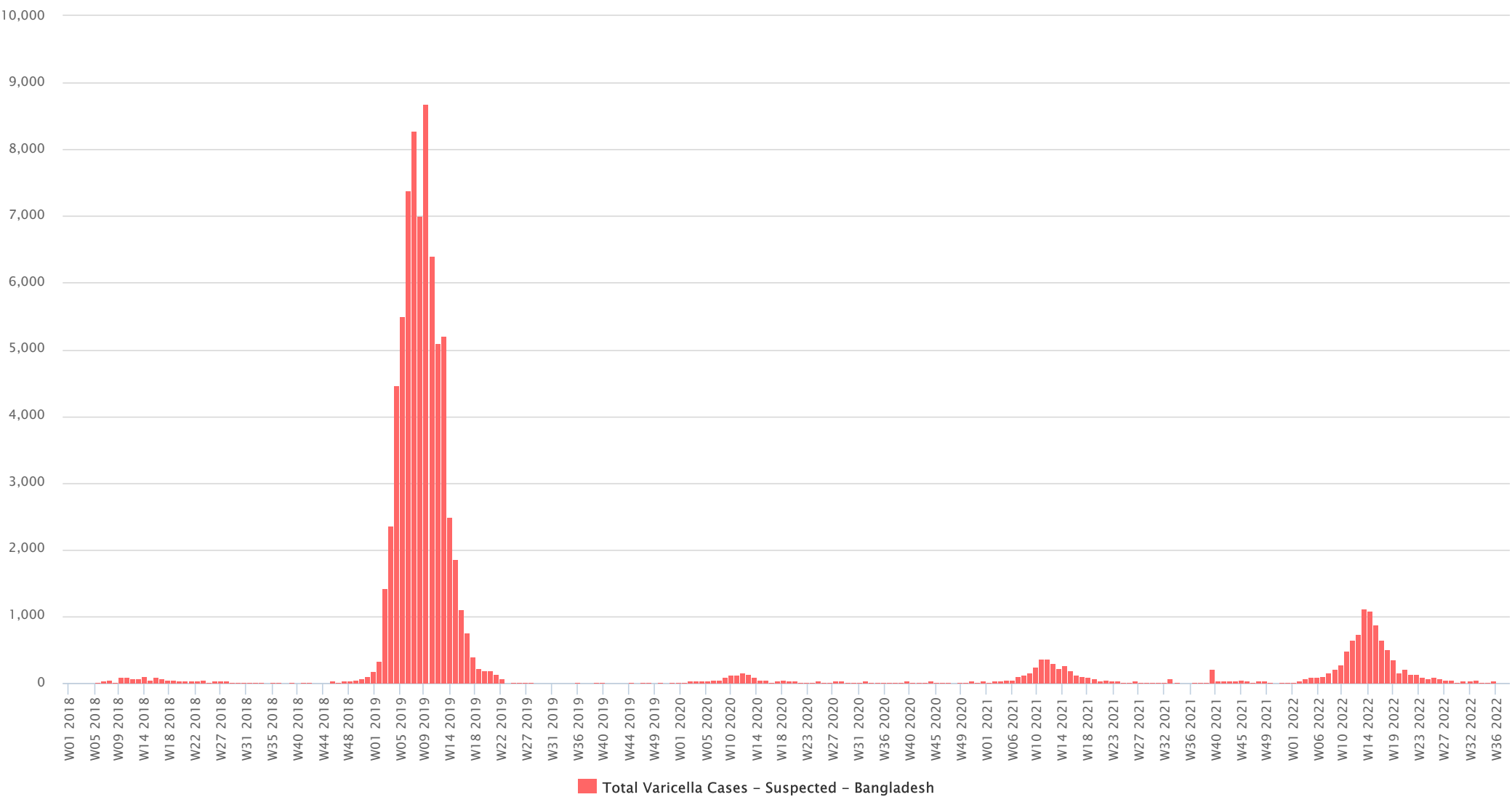
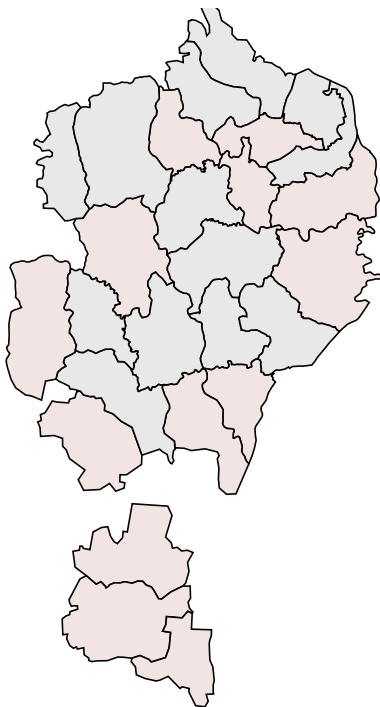


Figure 7 | Trend in number of cases over time (W38 2017 - W35 2022)

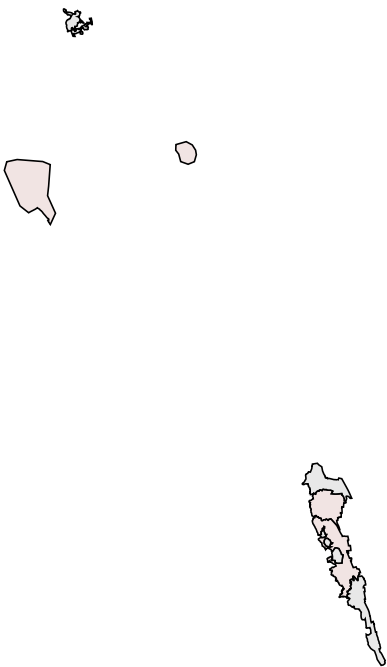


Map 4 | Map of cases by camp (W37 2017 - W35 2022)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

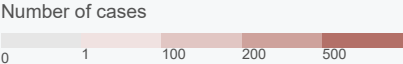


Figure | % sex

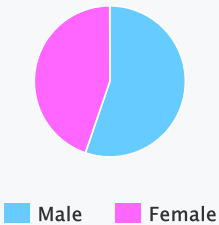
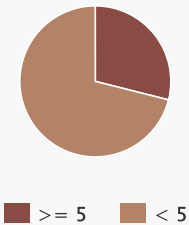


Figure | % age



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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