



Epidemiological Highlights

Week 14 (2-8 Apr) 2023



World Health
Organization

EWARS Reporting Updates for Epi week 14,2023

Currently, a total of **159 health facilities** are registered in EWARS

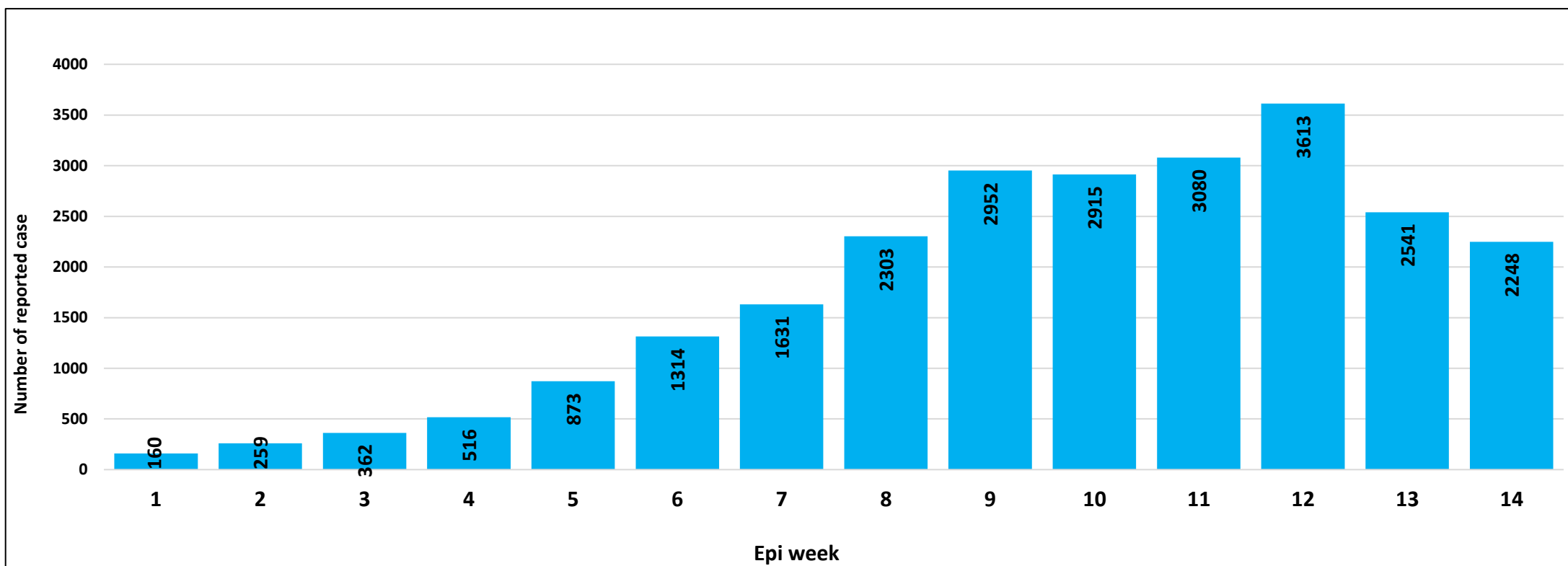
- Of those 124 weekly reports were received on time in week 14 in 2023
- Timeliness and completeness of weekly reporting were 78% which is less than the 80% weekly threshold
- Sixty (60) alerts were triggered
- All alerts were reviewed and verified by the WHO EWARS team; this is a 13% increase from the previous week (69 alerts in week 12, 2023)

Highlights: Weekly Proportionate Morbidity and SARI Mortality among the FDMN population from 2020-Epi 14,2023

- Acute Respiratory Infections (18.7%), Suspected Varicella (2.7%) and Acute Watery Diarrheal Diseases (2.3%) were the diseases and health conditions with the highest proportional morbidity this week.
- Monitoring of suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020. So far, 25 cases of which none is probable COVID-19 Death, have been reported in 2023
- This Epi week, No new SARI deaths was reported , and upon investigation, none met reclassification as as probable COVID-19 death as highlighted below:

Year	Suspected SARI death reported (current week)	Reclassified as death due to probable COVID-19
2023	25 (0)	0
2022	136	8
2021	96	15
2020	49	2

Weekly Trends of suspected Varicella Cases in FDMN Camps from Epi week 1-14 ,2023



This reporting week, 2248 new suspected cases of Varicella were reported through EWARS

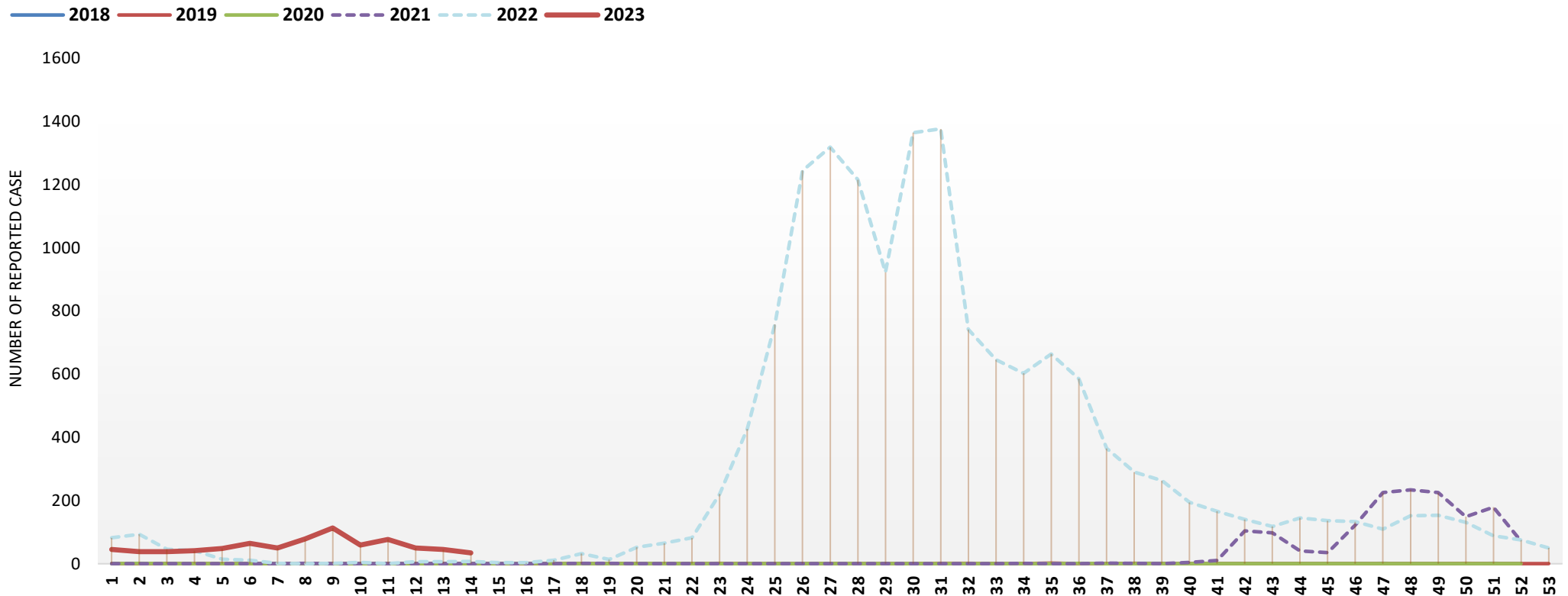
So far In 2023, a cumulative total of 22,767 suspected Varicella cases have been reported with trends beginning to decline in Epi week 13 upon peaking in Epi week 12 as shown above

There has been an exponential increase in the number of suspected varicella cases reported in most weeks of 2023 compared to a similar period in the previous years

Varicella contributes 2.7 % of weekly proportional morbidity among total consultations. No fatalities reported yet

Dengue Surveillance Updates

Yearly Trends of Dengue Case trend from 2018 – 2023 week 14



- ❑ Cumulative of 800 confirmed dengue cases and 2 death with a CFR 0.2% have been reported so far in 2023
- ❑ The current transmission is a continuation of that for 2021 and 2022 (possible endemic transmission established)
- ❑ Camp 3 and the surrounding camps continue to bear the greatest burden of the cases so far reported in 2023 similar to 2022

COVID-19 Surveillance Updates for Epi week 14, 2023

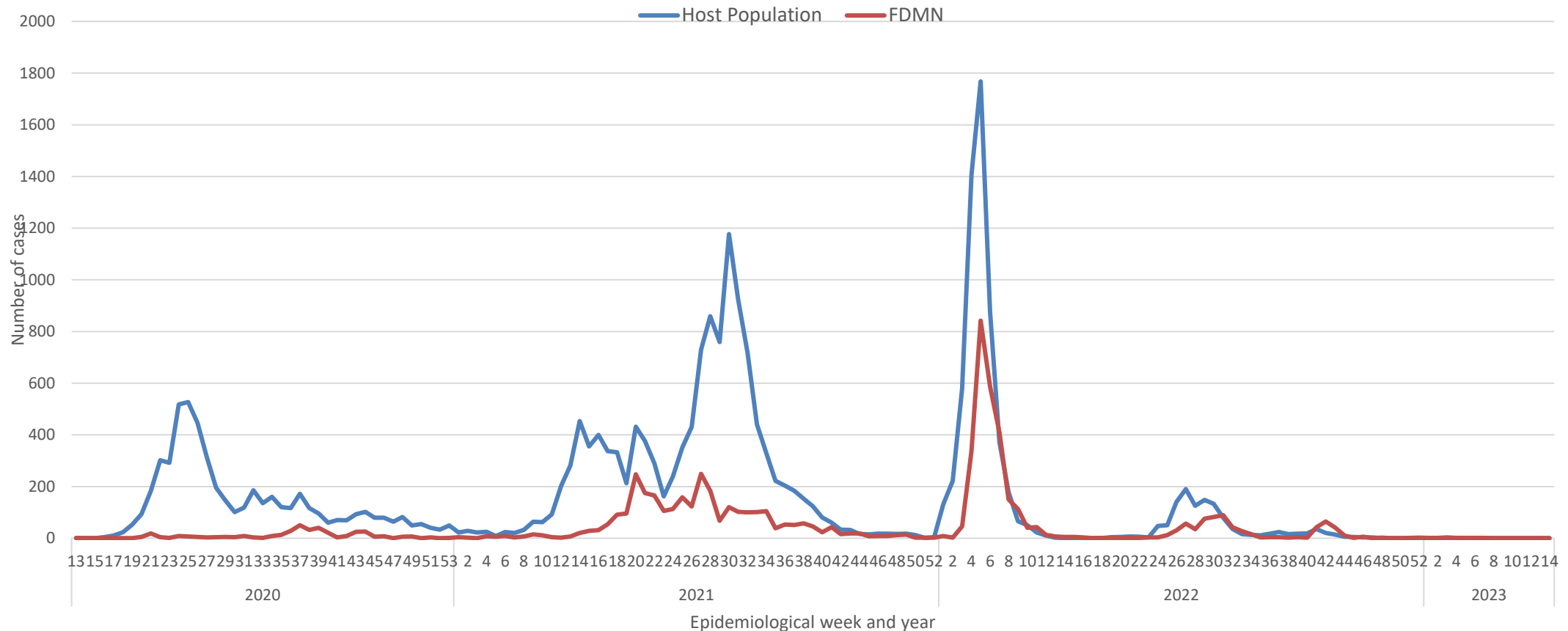
FDMN: Transmission under control

- No (0) new confirmed case reported this week
- Weekly TPR and incidence/new infections are zero
- No new death reported, total deaths stabilized at **45** (CFR- 0.7%) while cumulative cases steady at **6,597**
- Level of recovery continues to steady at 99%

Host Population: Transmission under control

- No (0) new confirmed case were reported this week like last 14 weeks(so far in 2023), the total caseload is **24,643**
- Weekly TPR steady at zero this week, similar to previous week
- Weekly case incidence stabilized at 0.0 cases/1m population/week last week
- Recovery level continues to remain steady at 99%, no new death, and total deaths stand at **269** (CFR- 1.1%)

Weekly Trends of COVID-19 Cases among FDMN and Host population in Cox's Bazar District from Epi week 13,2020- Epi week 14,2023



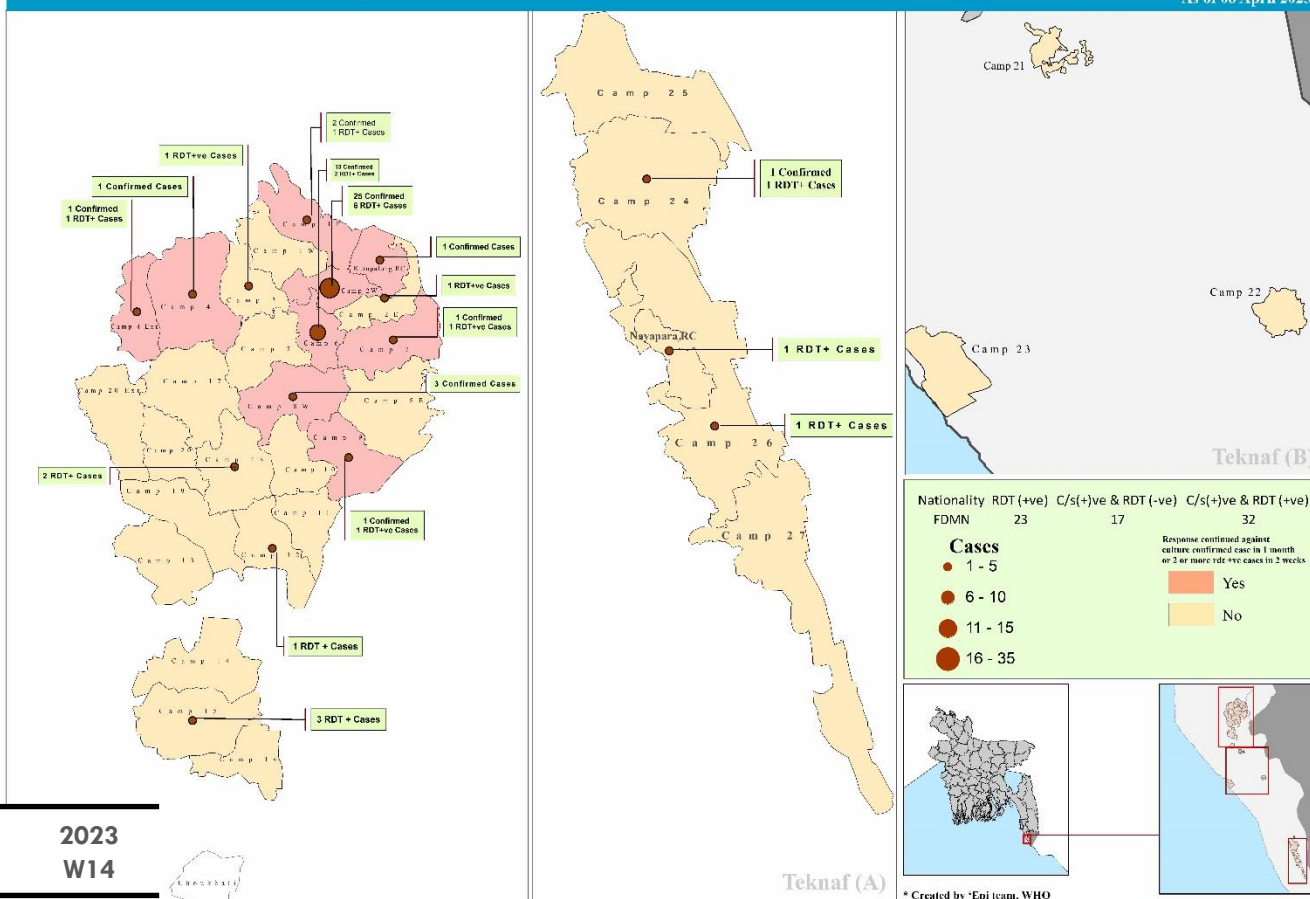
The COVID-19 transmission appears to be under control in the two populations and zero weekly caseloads has been sustained so far in 2023 among host population and for seven weeks among FDMN population.

Cholera/AWD Surveillance Updates

- In this week, there are 26 RDT-positive AWD/Cholera suspects and of these 21 culture confirmed Cholera cases were reported from samples sent for testing.
- A total of 85 cases of which 24 RDT-positive AWD/cholera suspected cases and 61 culture-confirmed Cholera cases have so far been reported in (Epi week 1-14) 2023.
- Cumulatively there are 947 RDT AWD cases/Cholera suspects have been reported while 463 cases were culture-confirmed since transmission in 2018.

Distribution of RDT positive and culture confirmed for Cholera cases in FDMN 23

As of 08 April 2023



	2018	2019	2020	2021	2022	2023 W14
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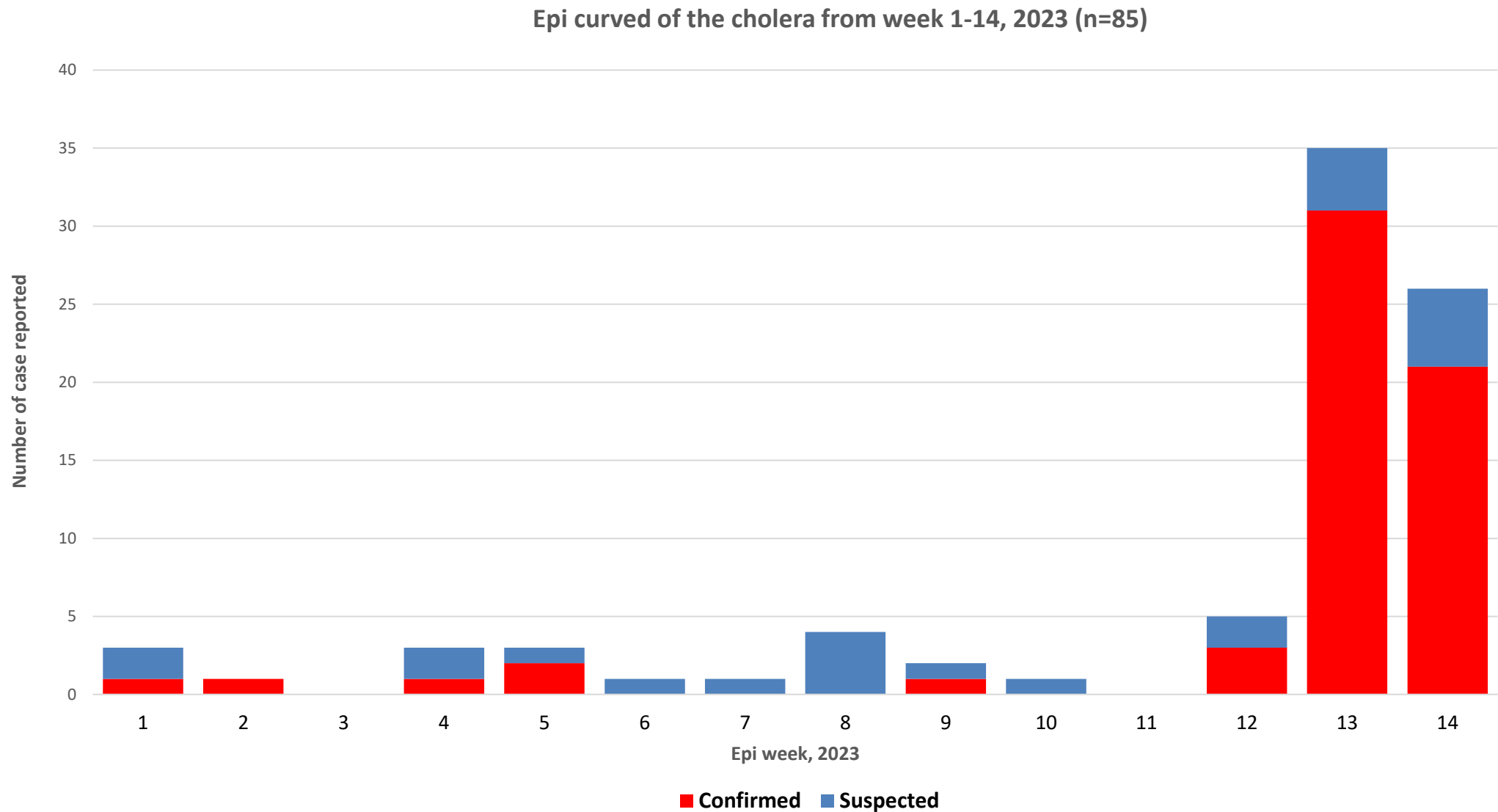
RDT positive AWD cases & culture confirmed for Cholera cases

	49	258	28	357	170	85
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Culture confirmed for Cholera

	7	184	5	136	70	61
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Weekly Trends of Cholera/AWD Surveillance Updates



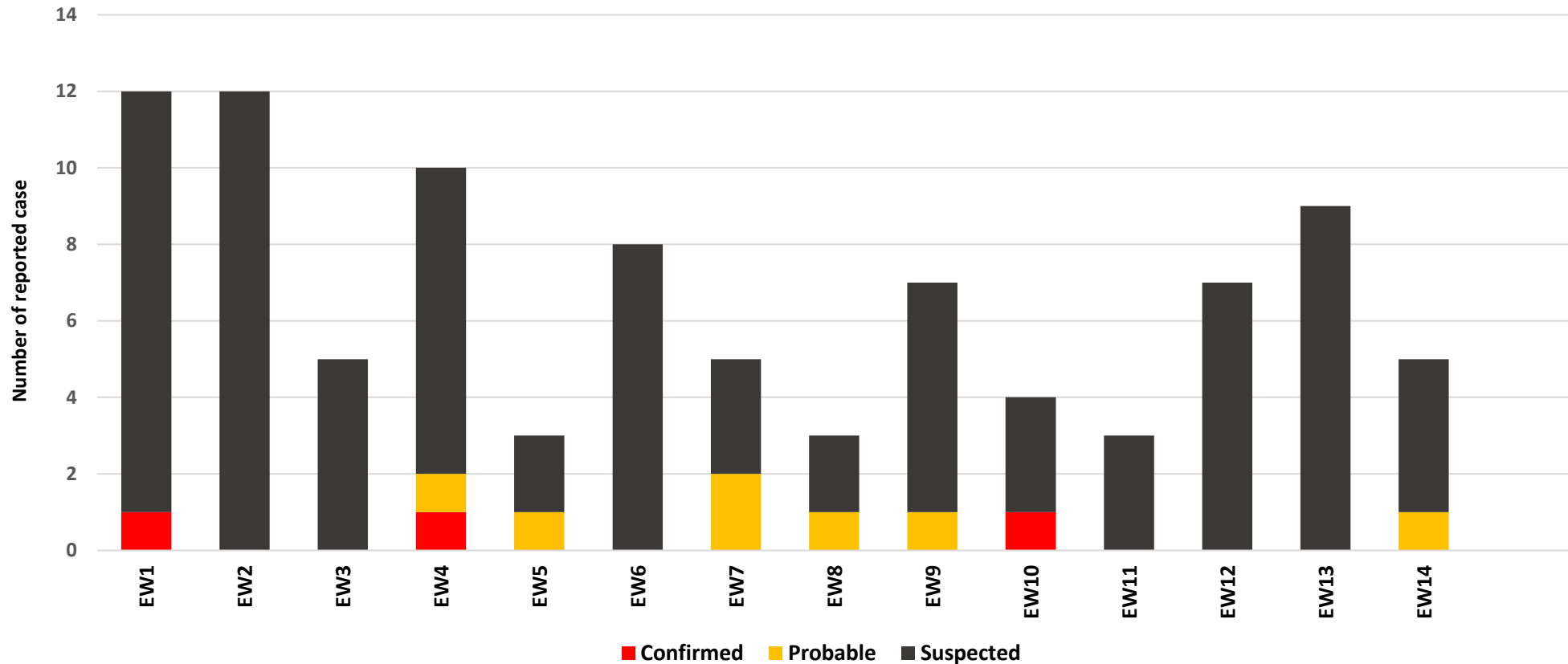
Weekly and annual Diphtheria Surveillance Updates

- One (1) probable and four (4) suspected diphtheria cases were reported in go.data in this Epi week
- The last confirmed case was reported on 5 March 2023
- In total 54 deaths have so far been reported since 2017, with the last death reported on 18 October 2022

Classification	2017	2018	2019	2020	2021	2022	2023
Confirmed	66	226	31	19	30	56	3
Probable	1154	1555	60	9	29	3	7
Suspected	1796	3549	523	198	118	349	83
Death	30	14	3	0	5	2	0

Weekly trends of Diphtheria cases from week 1-14,2023

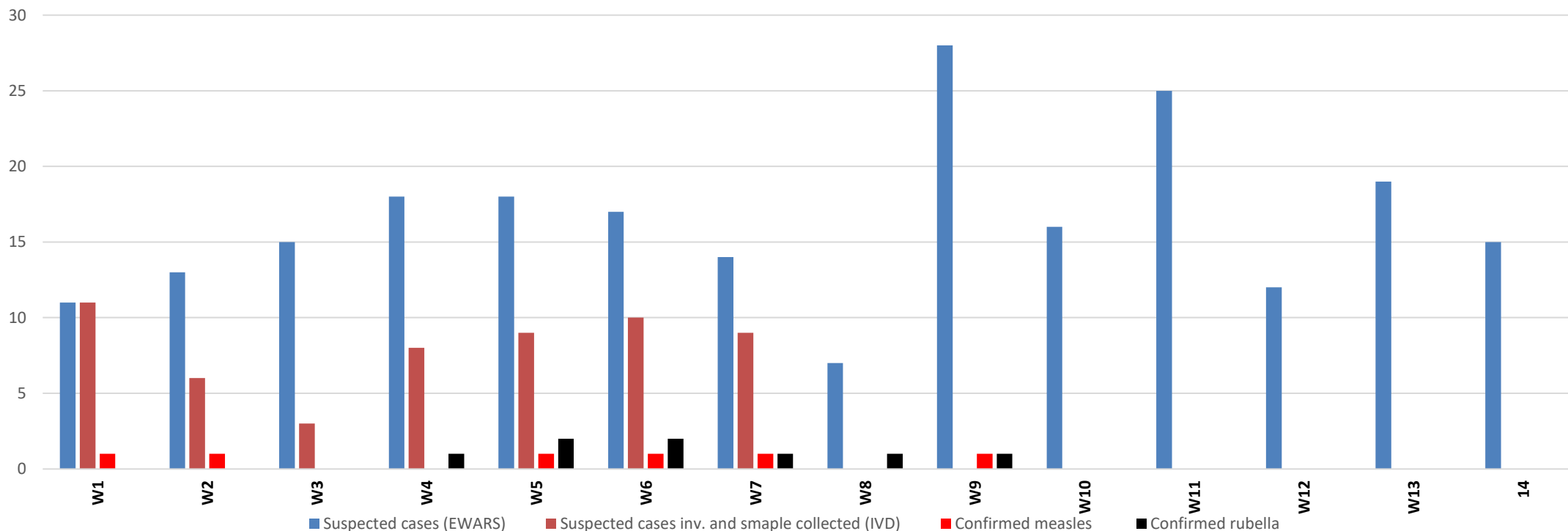
Total number of diphtheria case reported in EWARS from week 1-14, 2023



- Persistent transmission continues to be reported, Diphtheria vaccination campaign concluded in all 33 camps with 92% coverage
- **One (1) probable and four (4) suspected cases** were reported this Epi week
- There are 93 diphtheria cases (3 confirmed 7 probable and 83 suspected cases) and zero fatalities so far reported in 2023

Epi Curve of Weekly Suspected Measles Cases week1-14,2023

Weekly suspected measles cases reported through EWARS, IVD and Lab, 2023 (W1-14)



- Total of 228 cases were reported through EWARS, 58 cases were reported through IVD case-based surveillance of which 14 were confirmed through the lab (IgM positive)
- Six (06) confirmed cases were males and 8 were rubella confirmed
- Epidemiology and IVD units undertaking investigations

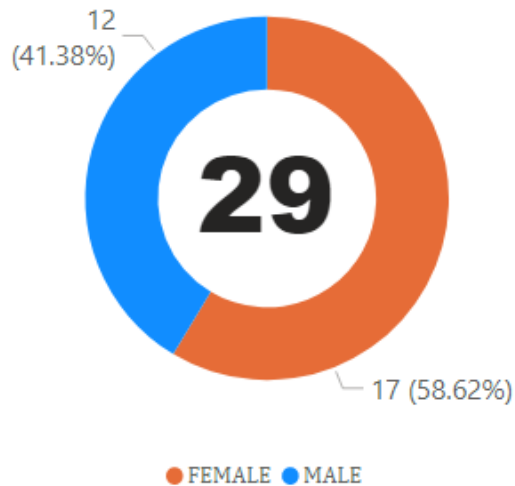
Community-based Mortality surveillance updates Epi week 14 2023

Probable causes of death	Epi week 14	In 2023
Still Birth	2 (7%)	90 (11%)
Neonatal Death (<28 days old)	6 (21%)	83 (10%)
Infectious Disease	1 (3%)	22 (3%)
Severe Acute Respiratory Infection (SARI)	--	18 (2%)
Injury	--	18 (2%)
Maternal Death	--	16 (2%)
Acute Malnutrition	--	2 (0%)
Other	20 (69%)	575 (70%)
Total	29 (100%)	795 (100%)

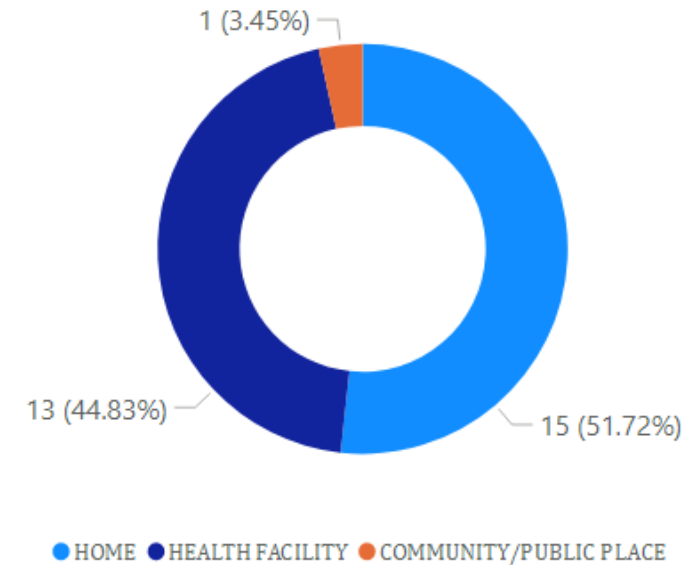
Partners to report all mortalities into the EWARS platform using both case and event-based reporting as applicable

Community-based Mortality surveillance updates Epi week 14 2023

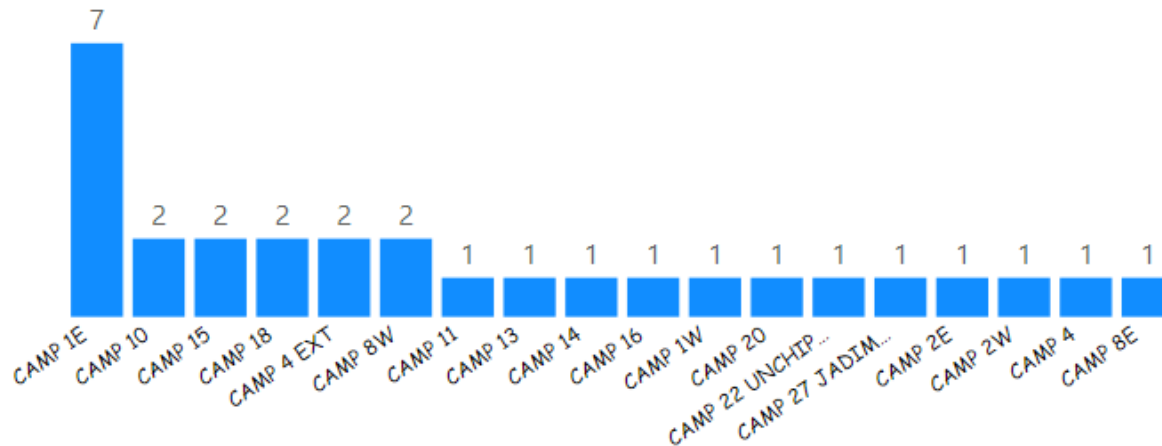
Gender distribution



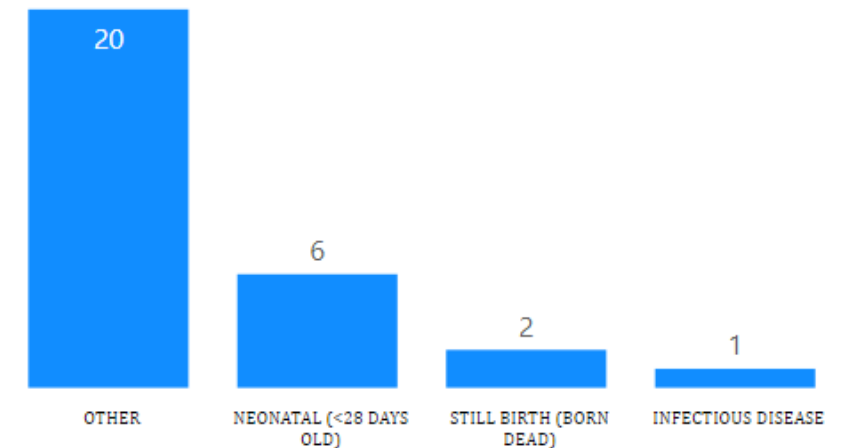
Place of death



Distribution of deceased Camp



Distribution of Probable cause of death



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W14 2023



Ministry of Health and Family
Welfare Bangladesh



World Health
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HEALTH SECTOR
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Sources of data

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

Highlights W14 2023

Table 1 | Coverage

#	%	
952,309	-	Estimated total Rohingya population ¹
923,358	97%	Total population under surveillance
165	-	Total number of health facilities
159	96%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

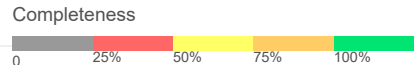
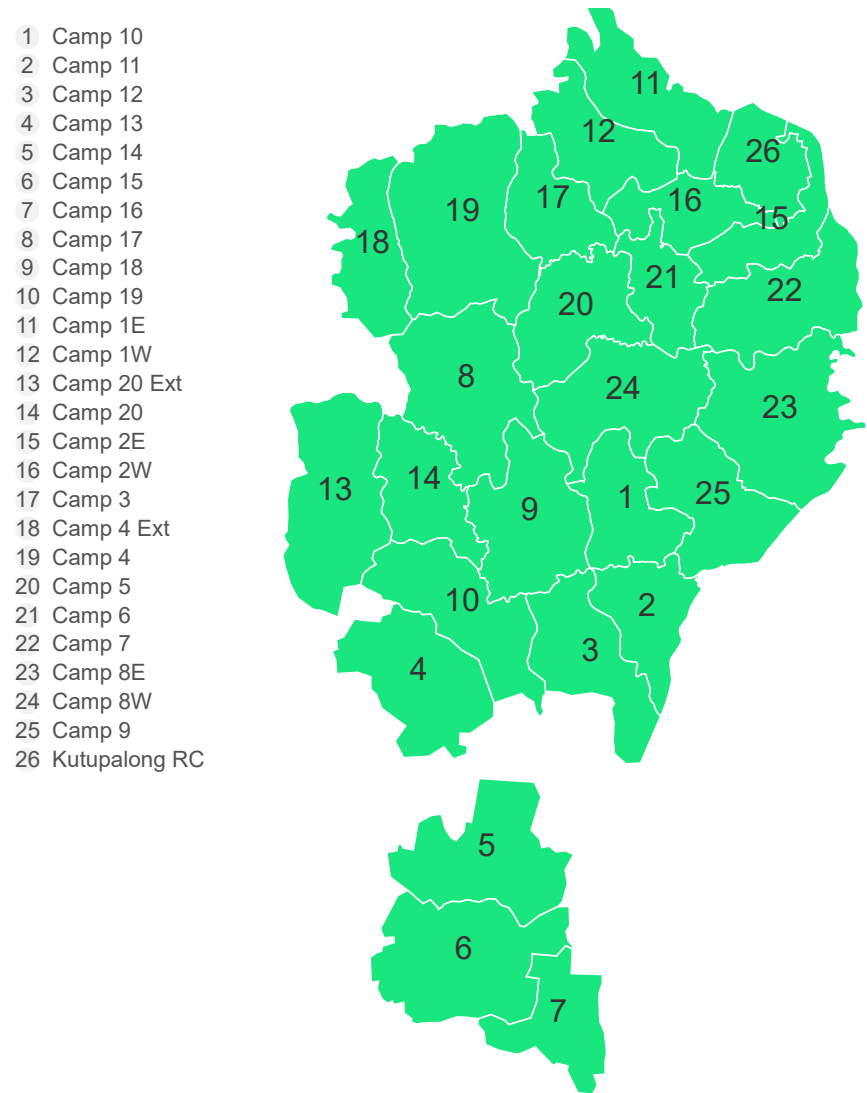
W14	Cumulative (2023)	
124	2214	Number of weekly reports received
78%	91%	Completeness
78%	90%	Timeliness

Table 3 Alert performance indicators

W14	Cumulative (2023)	
60	1,206	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

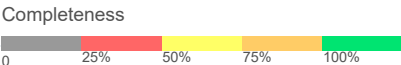
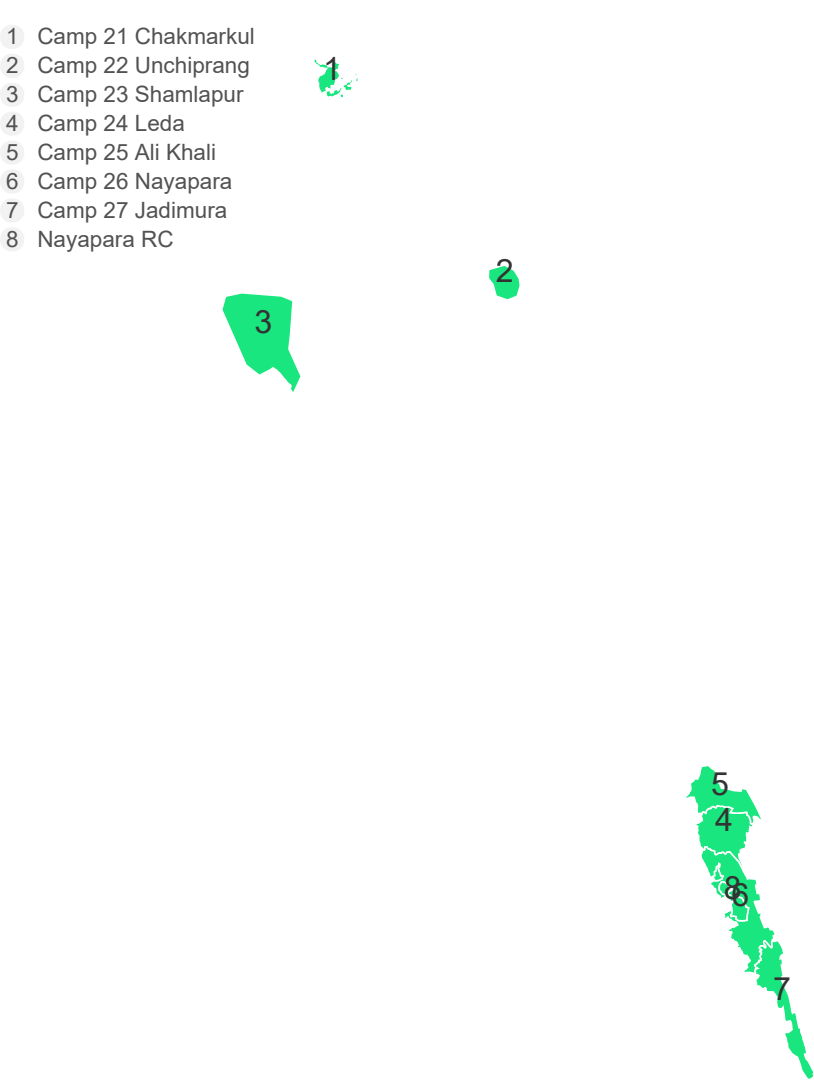


Table 4 | Performance by camp (W14 2023)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Northern Group				
Camp 1E	4	4	100%	0%
Camp 1W	5	4	80%	0%
Camp 2E	3	3	100%	0%
Camp 2W	4	3	100%	0%
Camp 3	5	3	75%	0%
Camp 4	5	5	100%	0%
Camp 4 Ext	1	1	100%	0%
Camp 5	5	4	80%	0%
Camp 6	2	1	100%	0%
Camp 7	5	3	80%	0%
Camp 8E	9	9	100%	0%
Camp 8W	4	2	75%	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

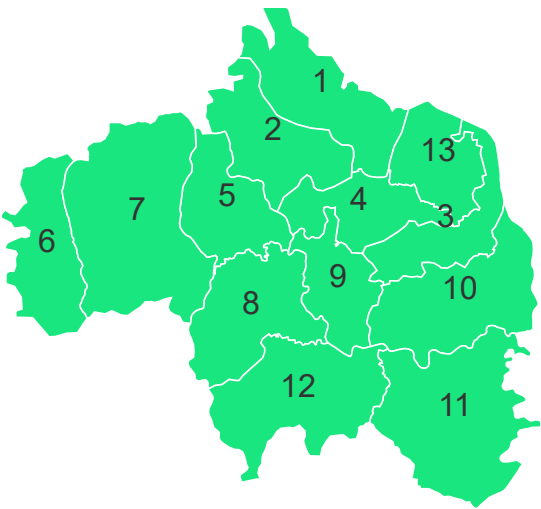


Table 5 | Performance by camp (W14 2023)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	3	75%	0%
Camp 11	6	2	50%	0%
Camp 12	6	4	100%	0%
Camp 13	8	7	100%	0%
Camp 14	6	5	100%	0%
Camp 15	8	7	88%	0%
Camp 16	7	6	71%	0%
Camp 17	5	3	60%	0%
Camp 18	4	3	100%	0%
Camp 19	4	3	100%	0%
Camp 20	4	3	125%	0%
Camp 20 Ext	3	2	100%	0%
Camp 9	6	5	67%	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

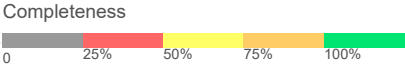
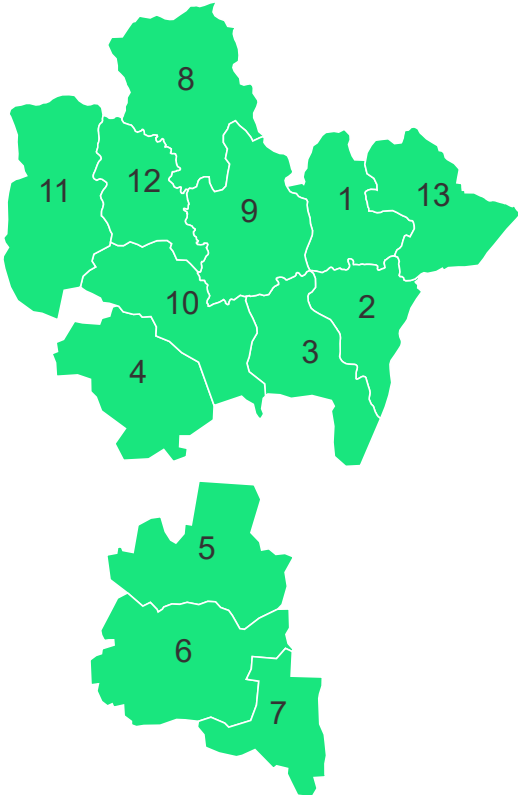


Table 6 | Performance by camp (W14 2023)

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

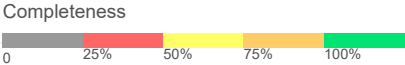
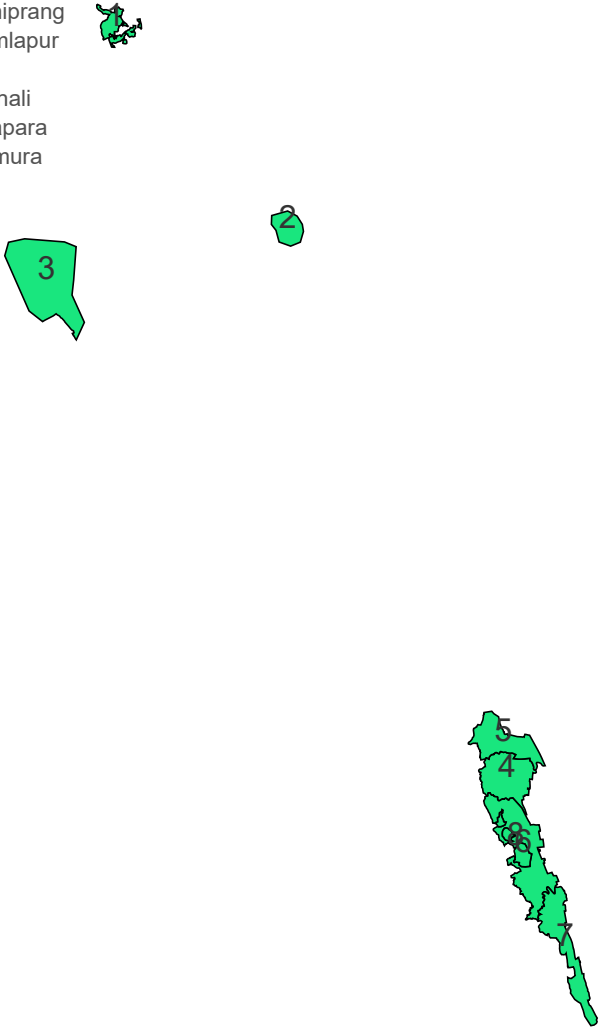


Table 7 | Performance by partner (W14 2023)

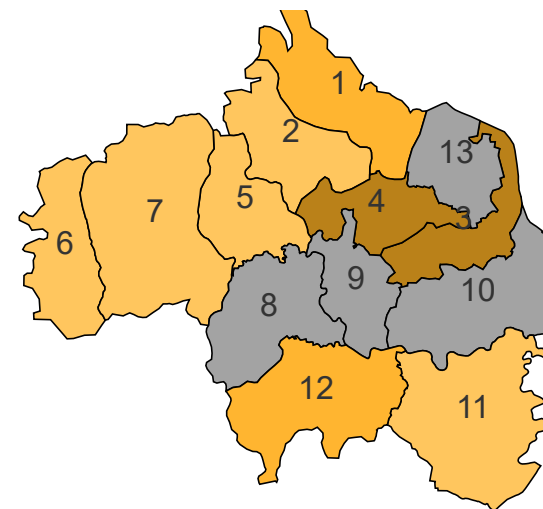
Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	1	1	100%	100%	IRC	4	3	0%	0%
AWARD	6	4	67%	67%	MSF	9	7	0%	0%
BASHMAH	1	1	100%	100%	MoH	12	9	0%	0%
BDRCS	10	9	90%	90%	MHI	1	2	0%	0%
BRAC	0	10	91%	91%	Medair	0	0		
CARE	4	4	100%	100%	FH/MTI	4	4	0%	0%
GH/CPI	1	1	100%	100%	PRANTIC	1	1	100%	100%
DBC	1	1	100%	100%	PULSE	1	1	100%	100%
DSK	1	0	0%	0%	QC	1	1	100%	100%
DCHT-PWJ	1	1	100%	100%	PHD	10	10	0%	0%
FRNDS	5	4	0%	0%	RPN	2	2	100%	100%
GK	10	8	0%	0%	RHU	3	3	100%	0%
Global One	1	0	0%	0%	RI	3	1	0%	0%
GUSS	1	1	100%	100%	RTMI	9	7	0%	0%
HAEFA	2	2	100%	100%	SALT	1	2	200%	100%
HAIB	0	0			SCI	6	6	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	0	0%	0%	TdH	2	2	0%	0%
IOM	23	21	0%	0%					

Table 8 | Performance by camp

Northern group	W14		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 1E	5	100%	44	100%
Camp 1W	2	100%	58	100%
Camp 2E	14	100%	114	100%
Camp 2W	11	100%	70	100%
Camp 3	1	100%	65	100%
Camp 4	1	100%	58	100%
Camp 4 Ext	2	100%	10	100%
Camp 5	0	0%	29	100%
Camp 6	0	0%	28	100%
Camp 7	0	0%	28	100%
Camp 8E	2	100%	55	100%
Camp 8W	4	100%	65	100%
Kutupalong RC	0	0%	17	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	W14		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	1	100%	20	100%
Camp 11	1	100%	13	100%
Camp 12	1	100%	37	100%
Camp 13	2	100%	50	100%
Camp 14	0	0%	44	100%
Camp 15	1	100%	39	100%
Camp 16	3	100%	41	100%
Camp 17	1	100%	22	100%
Camp 18	3	100%	45	100%
Camp 19	0	0%	7	100%
Camp 20	1	100%	23	100%
Camp 20 Ext	0	0%	10	100%
Camp 9	1	100%	47	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

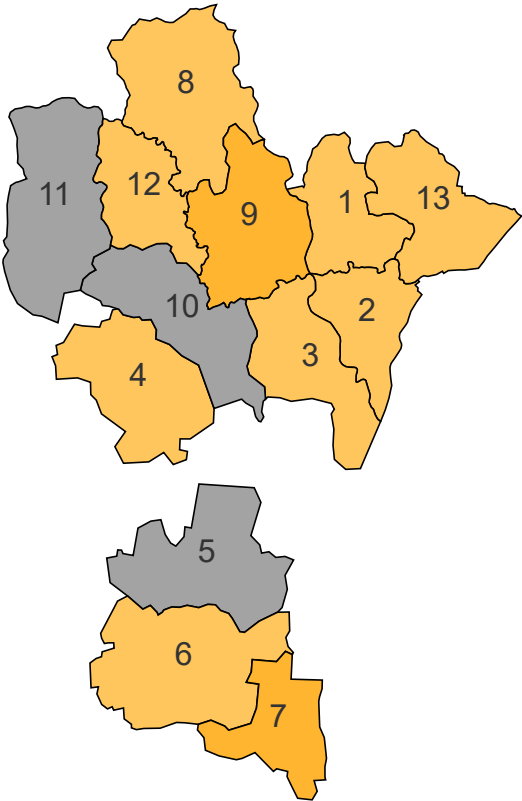


Table 10 | Performance by camp

Teknaf	W14		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 21 Chakmarkul	0	0%	22	100%
Camp 22 Unchiprang	1	100%	27	100%
Camp 23 Shamlapur	0	0%	3	100%
Camp 24 Leda	2	100%	60	100%
Camp 25 Ali Khali	0	0%	9	100%
Camp 26 Nayapara	0	0%	15	100%
Camp 27 Jadimura	0	0%	4	100%
Nayapara RC	0	0%	16	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

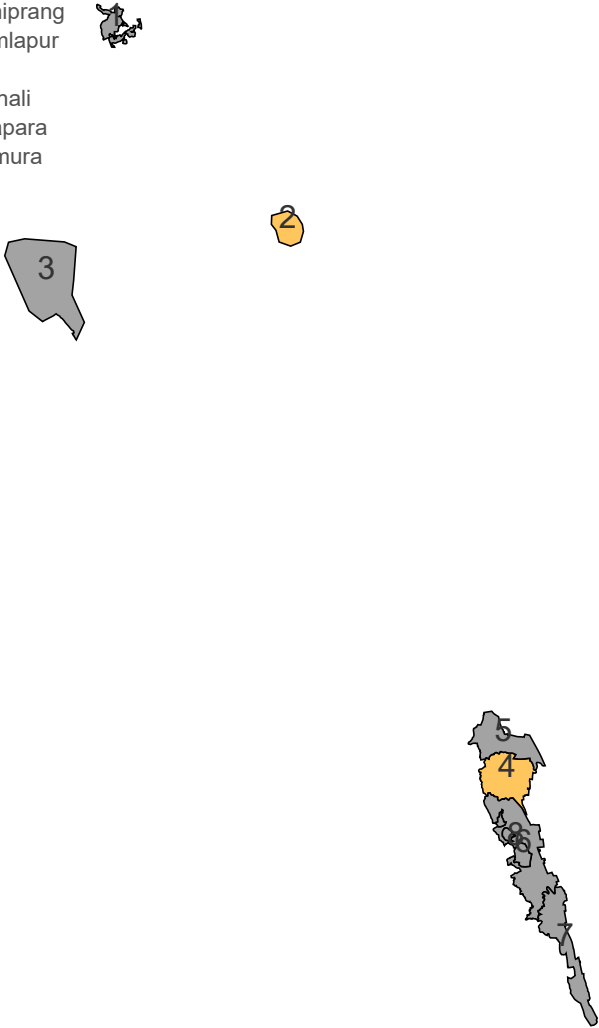


Table 11 | Performance by type of alert

Event	W14		Cumulative (2023)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	0	0%	49	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	8	100%
Meningitis	1	100%	7	100%
Haem. fever (susp.)	0	0%	5	100%
NNT	0	0%	1	100%
Unexp. fever	0	0%	24	100%
AWD	0	100%	19	100%
ARI	0	0%	18	100%
AJS	0	100%	15	100%
Varicella (Susp.)	0	0%	91	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	7	100%	79	100%

Table 12 | Risk assessment

W14	Cumulative (2023)	
0	0	Low risk
0	0	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>



Ministry of
Health and
Family
Welfare
Bangladesh



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HEALTH SECTOR
COX'S BAZAR



Global
EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W14 2023



Ministry of Health and Family
Welfare Bangladesh



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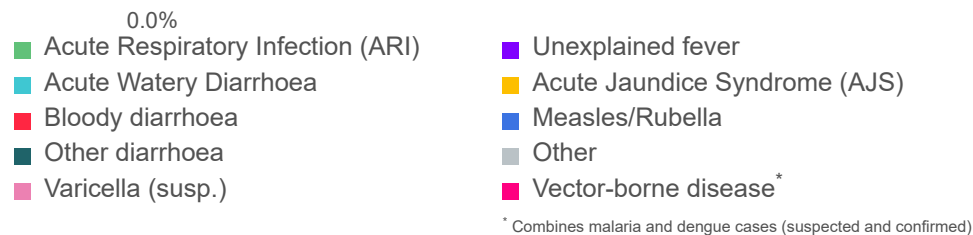
HEALTH SECTOR
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Proportional morbidity

Figure 1 | Proportional morbidity (W14 2023)



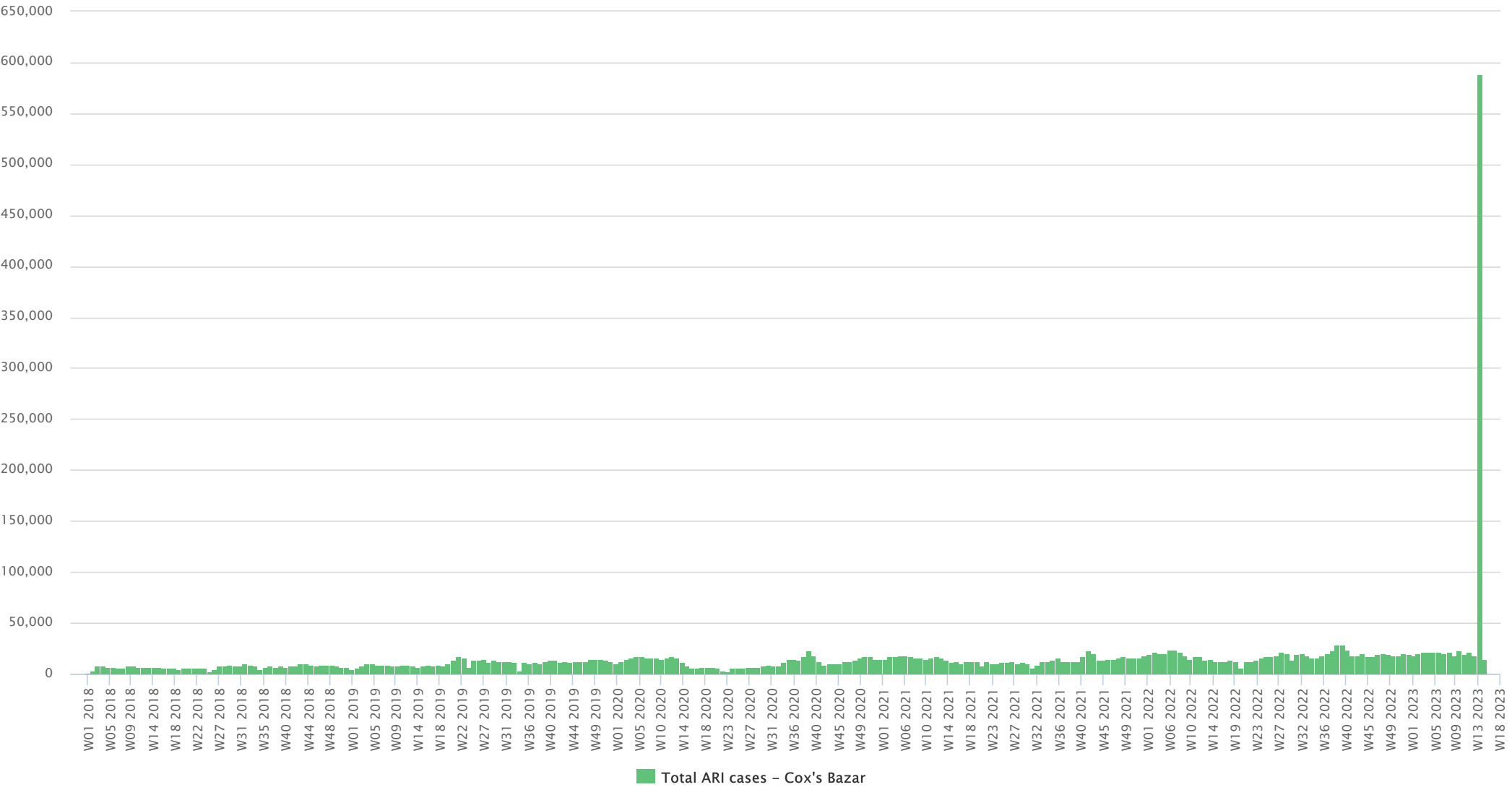
Disease	W14		2023	
	# cases	% morbidity	# cases	% morbidity
AWD	1,925	2.3%	34,060	1.6%
Bloody diarr.	197	0.2%	3,656	0.2%
Other diarr.	995	1.2%	16,554	0.8%
Susp. Varicella	2,248	2.7%	25,003	1.2%
ARI	15,473	18.7%	863,535	41.7%
Measles/Rub.	15	0.0%	228	0.0%
AFP	0	0.0%	13	0.0%
Susp. menin.	1	0.0%	52	0.0%
AJS	9	0.0%	276	0.0%
Susp. HF	0	0.0%	52	0.0%
Neo. tetanus	0	0.0%	1	0.0%
Adult tetanus	0	0.0%	4	0.0%
Malaria (conf.)	3	0.0%	23	0.0%
Malaria (susp.)	67	0.1%	690	0.0%
Dengue (conf.)	99	0.1%	1,163	0.1%
Dengue (susp.)	27	0.0%	358	0.0%
Unexpl. fever	805	1.0%	10,639	0.5%
Sev. Malnut.	28	0.0%	584	0.0%
Inj./Wounds	1,934	2.3%	33,042	1.6%
Other	58,845	71.1%	1,078,508	52.1%
Total	81,987	100%	2,070,054	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W14)

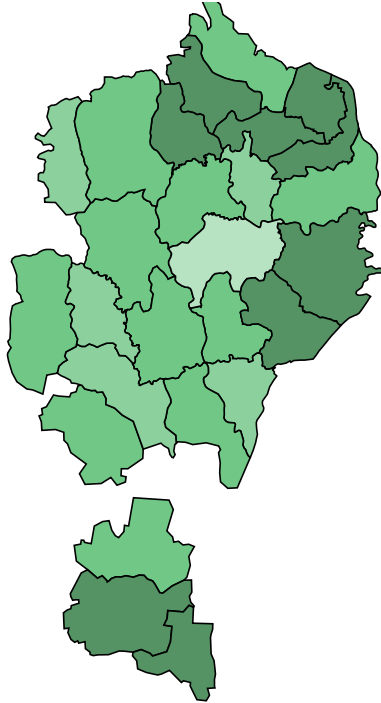


Figure 3 | Trend in number of cases over time (W38 2017 - W14 2023)

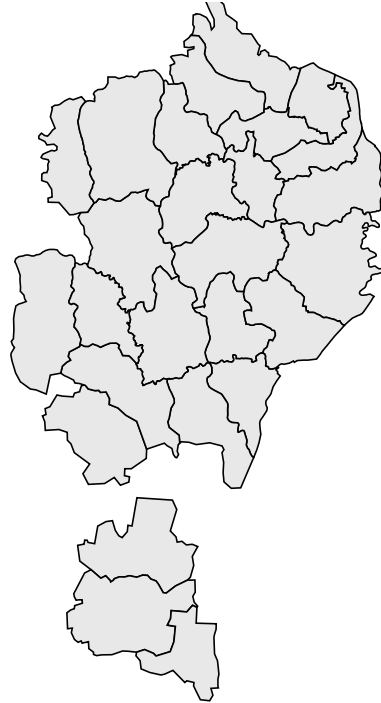


Map 1 | Map of cases by camp (W14 2023)

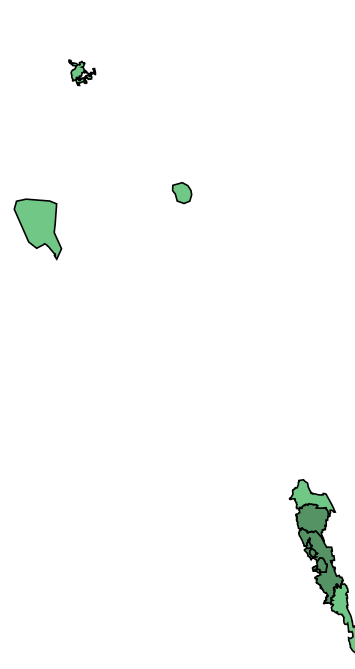
a. Ukhia | Number of cases



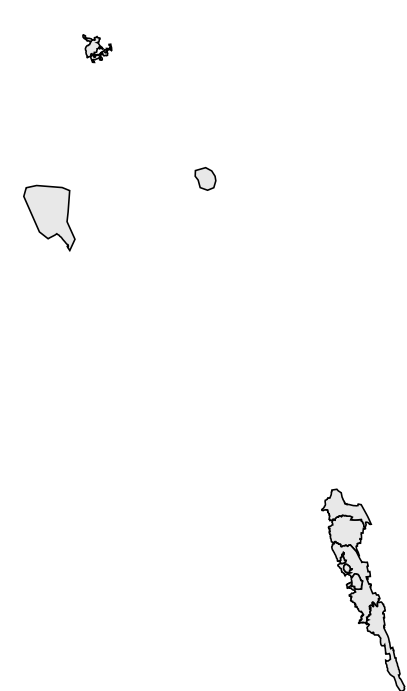
b. Ukhia | Number of alerts



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 (W14 2023)

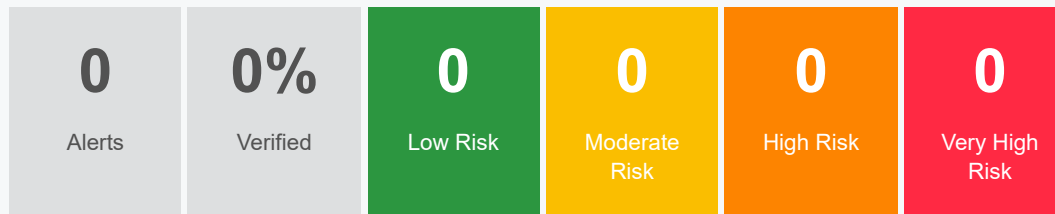
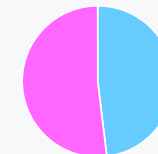
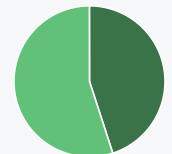


Figure | % sex



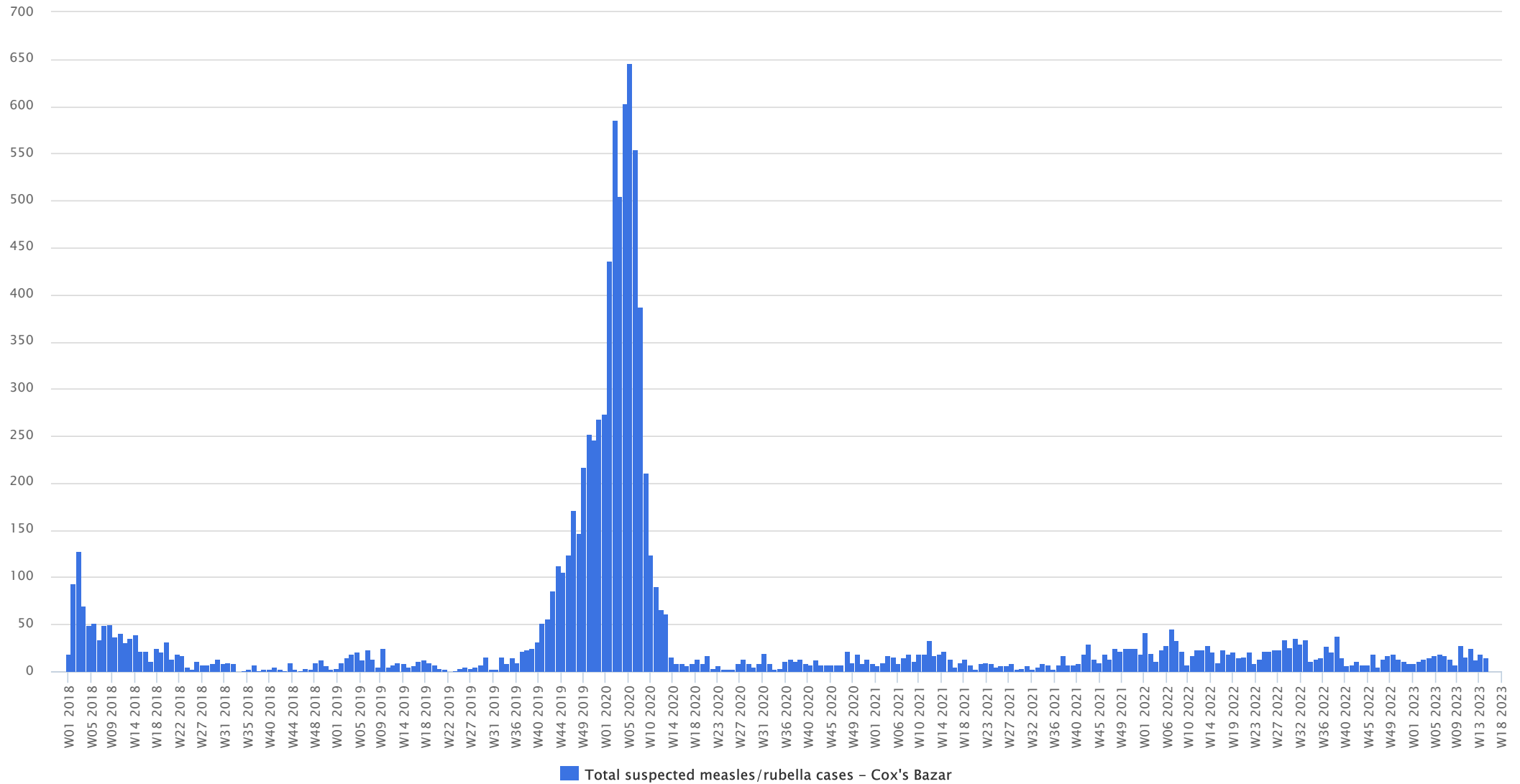
Male Female

Figure | % age



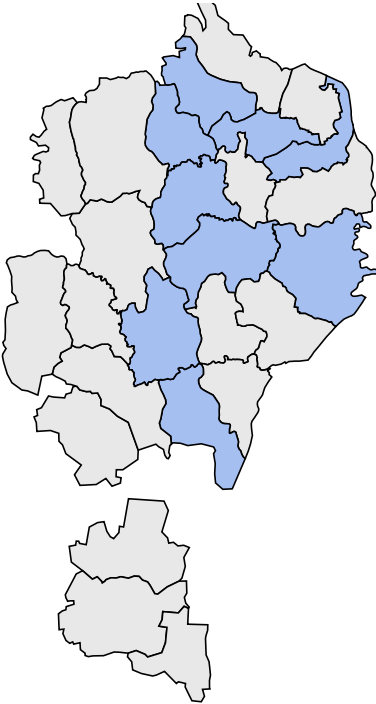
>=5 <5

Figure 4 | Trend in number of suspected cases over time (W38 2017 - W14 2023)



Map 2 | Map of cases by camp (W14 2023)

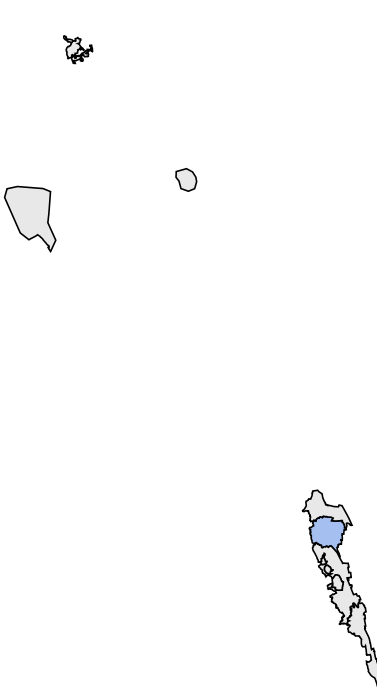
a. Ukhia | Number of cases



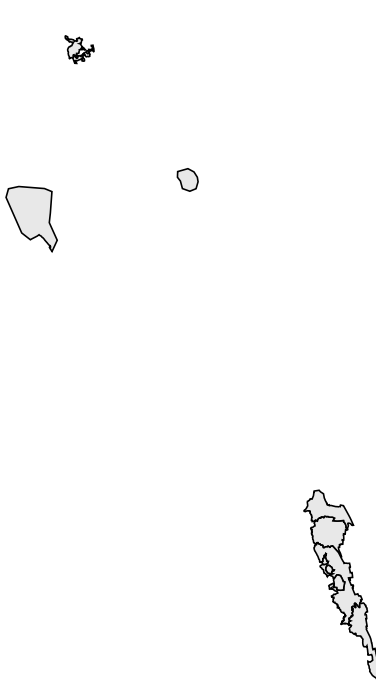
b. Ukhia | Number of alerts



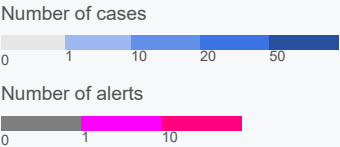
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W14 2023)

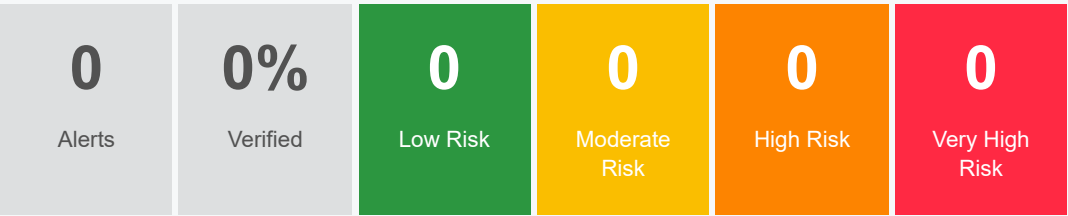


Figure | % sex

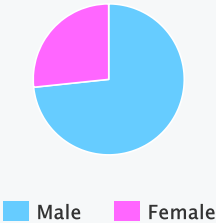


Figure | % age

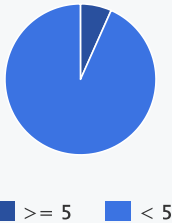
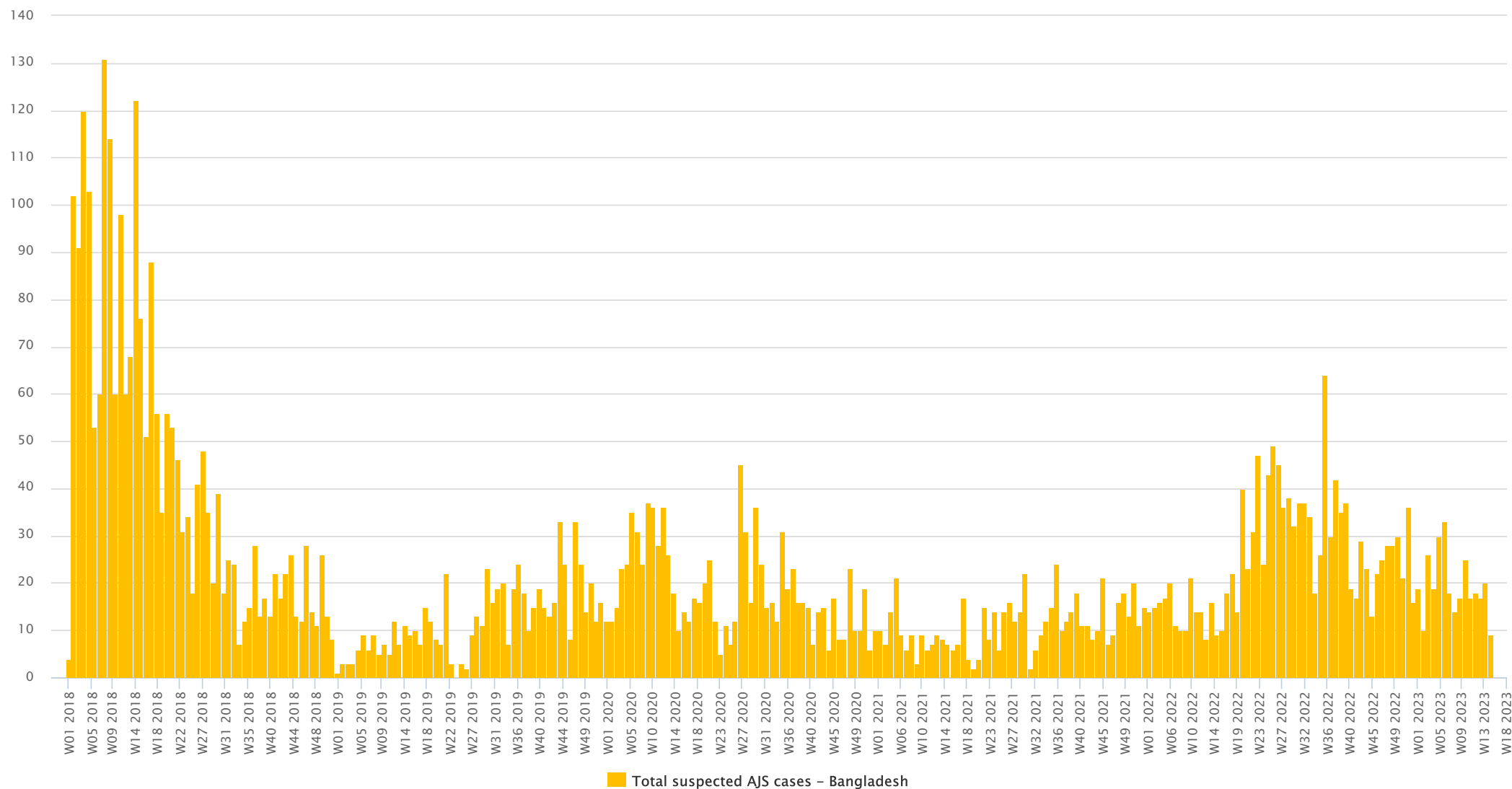
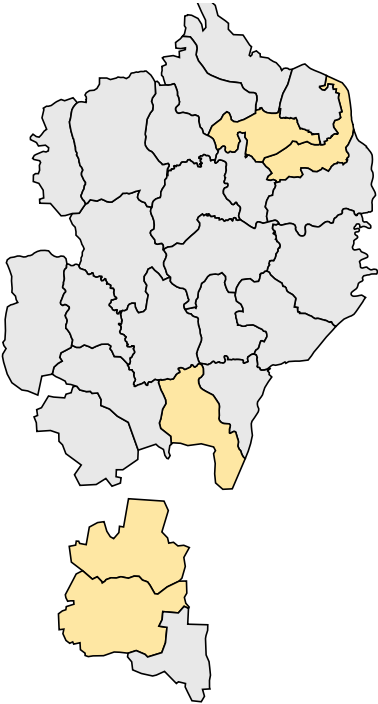


Figure 5 | Trend in number of cases over time (W38 2017 - W14 2023)



Map 3 | Map of cases by camp (W37 2017 - W14 2023)

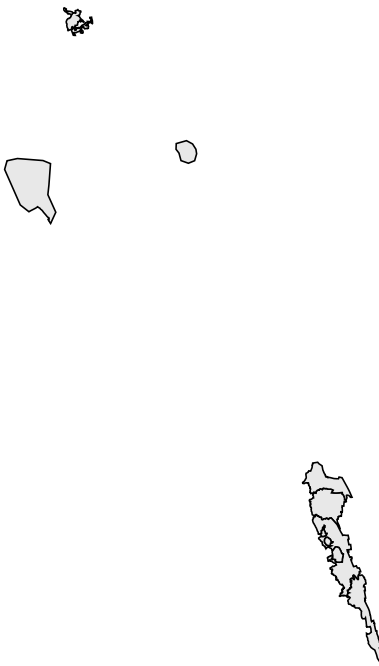
a. Ukhia | Number of cases



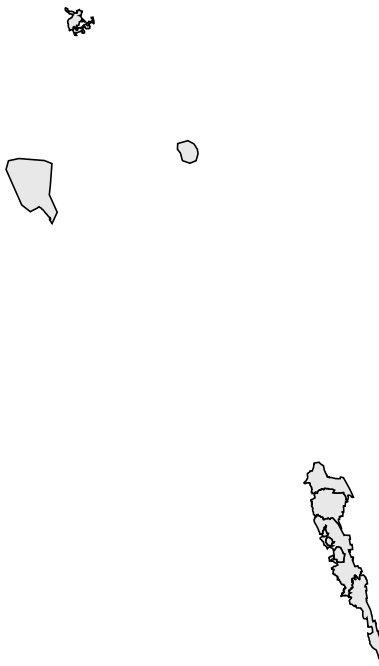
b. Ukhia | Number of alerts



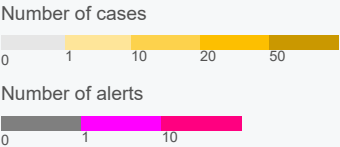
c. Teknaf | Number of cases



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 (W14 2023)

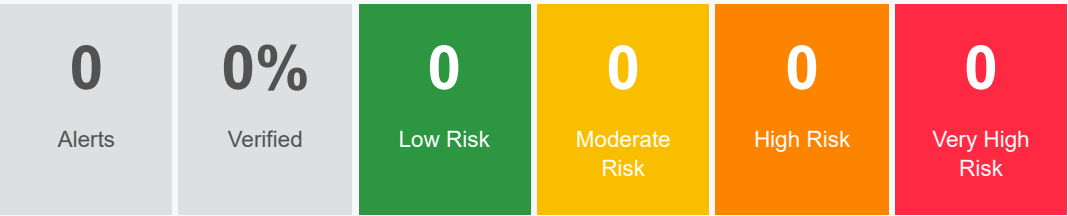


Figure | % sex

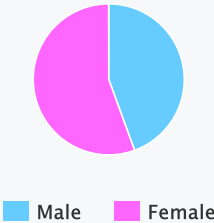


Figure | % age

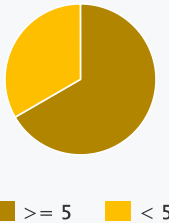


Figure 6 | Trend in number of cases over time (W38 2017 - W14 2023)

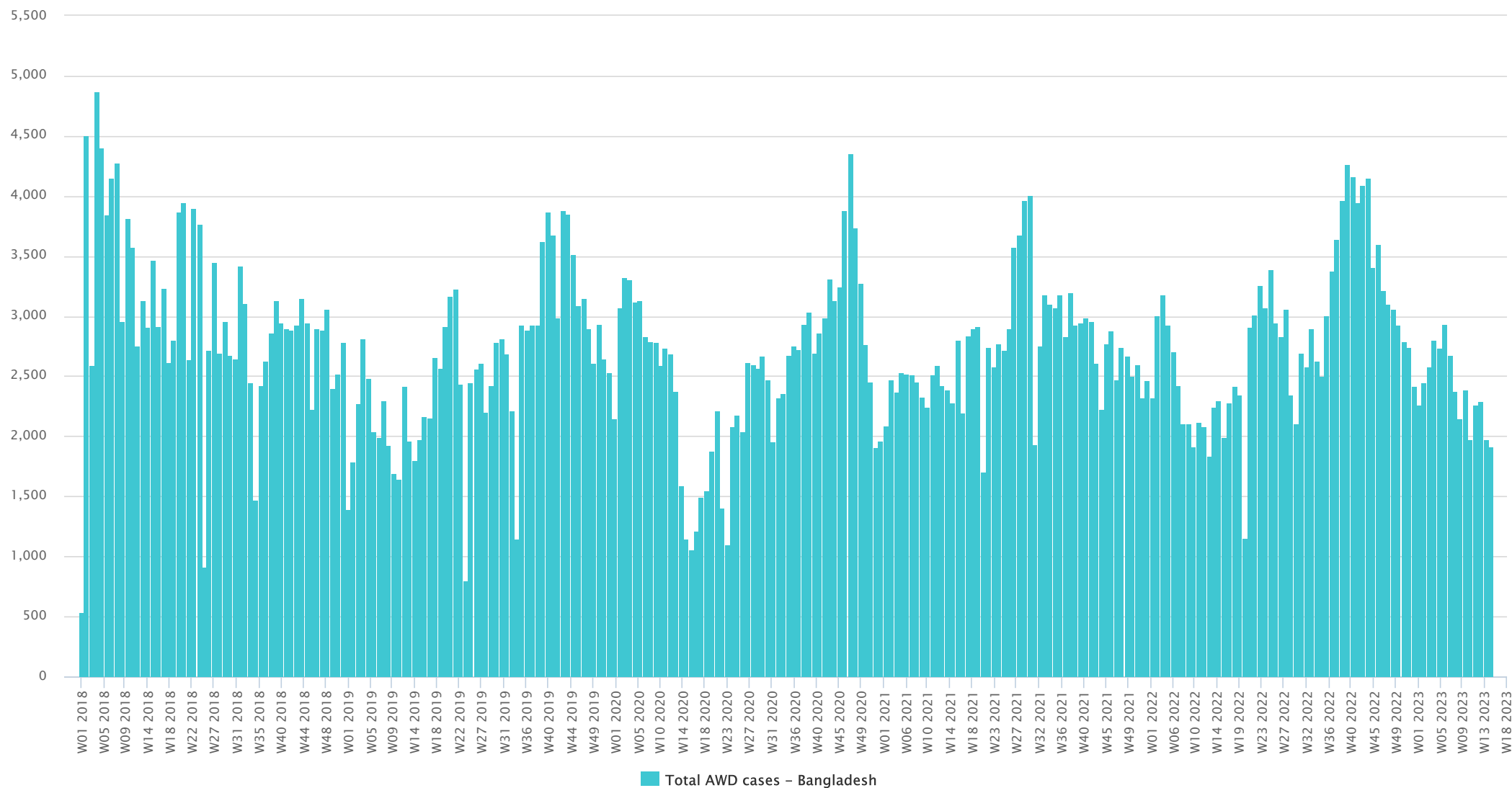
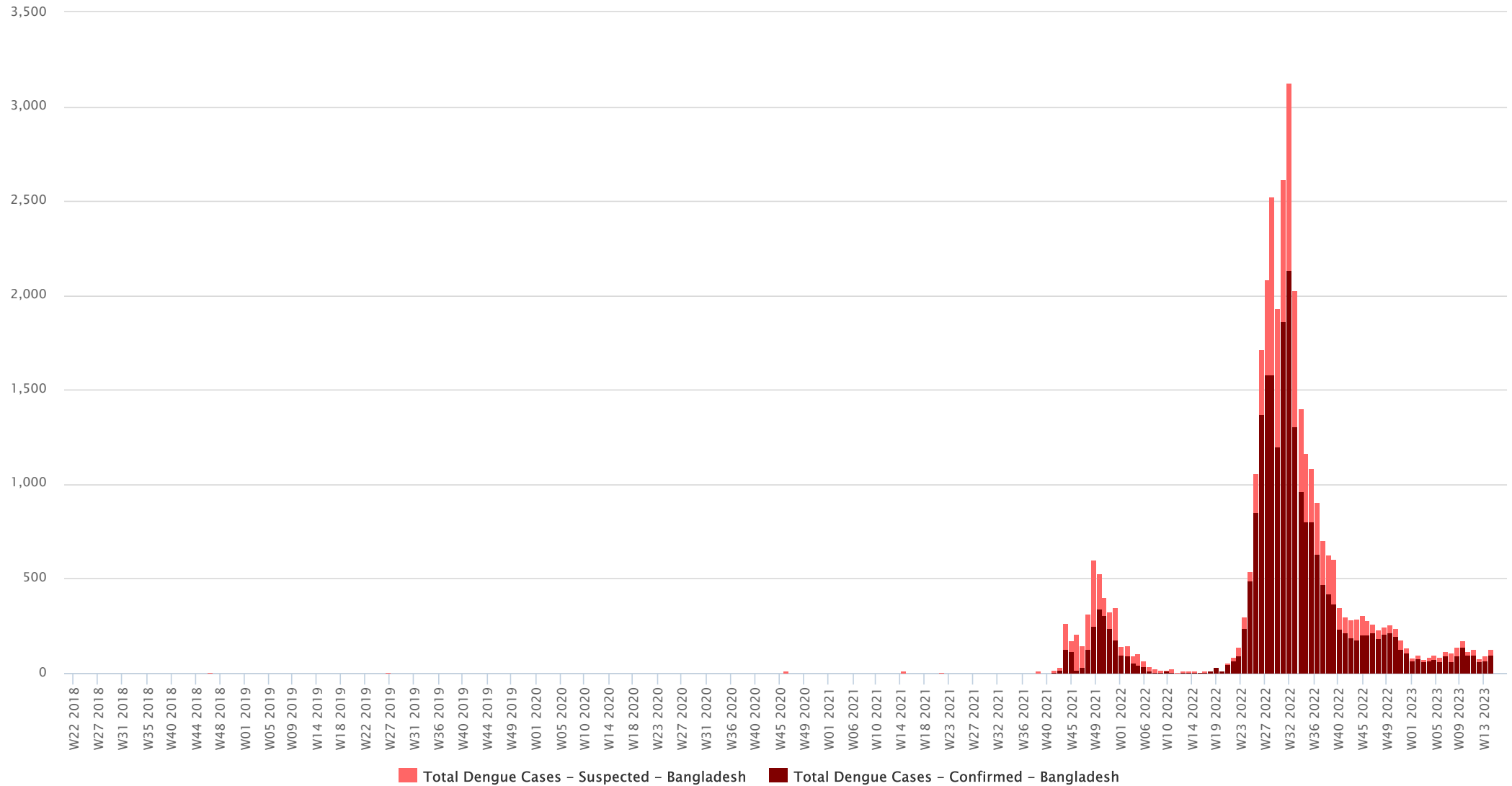
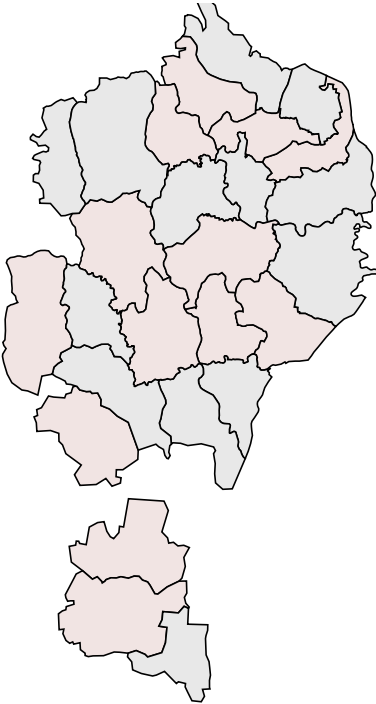


Figure 7 | Trend in number of cases over time (W38 2017 - W14 2023)



Map 4 | Map of cases by camp (W37 2017 - W14 2023)

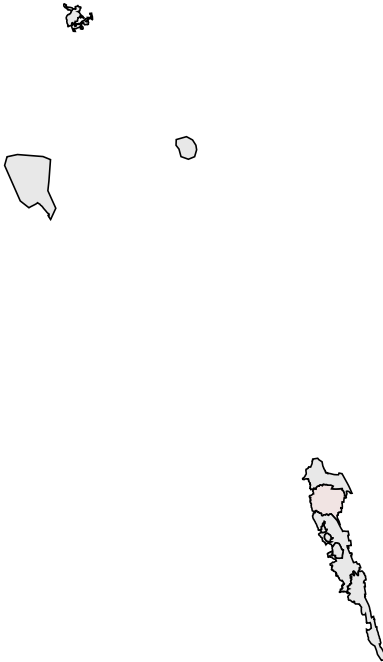
a. Ukhia | Number of cases



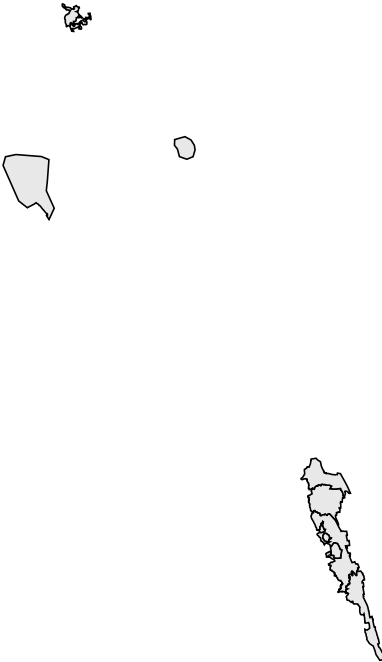
b. Ukhia | Number of alerts



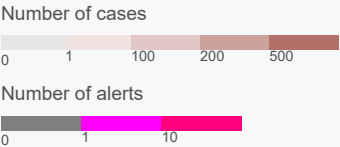
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold

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

Alert management (W14 2023)

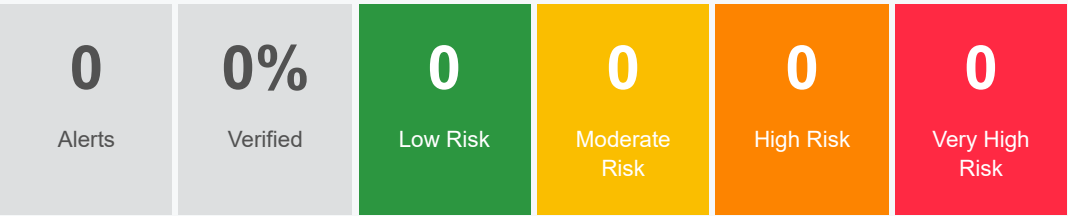


Figure | % sex

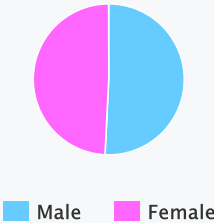


Figure | % age

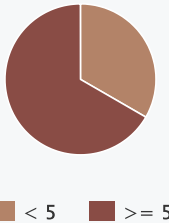
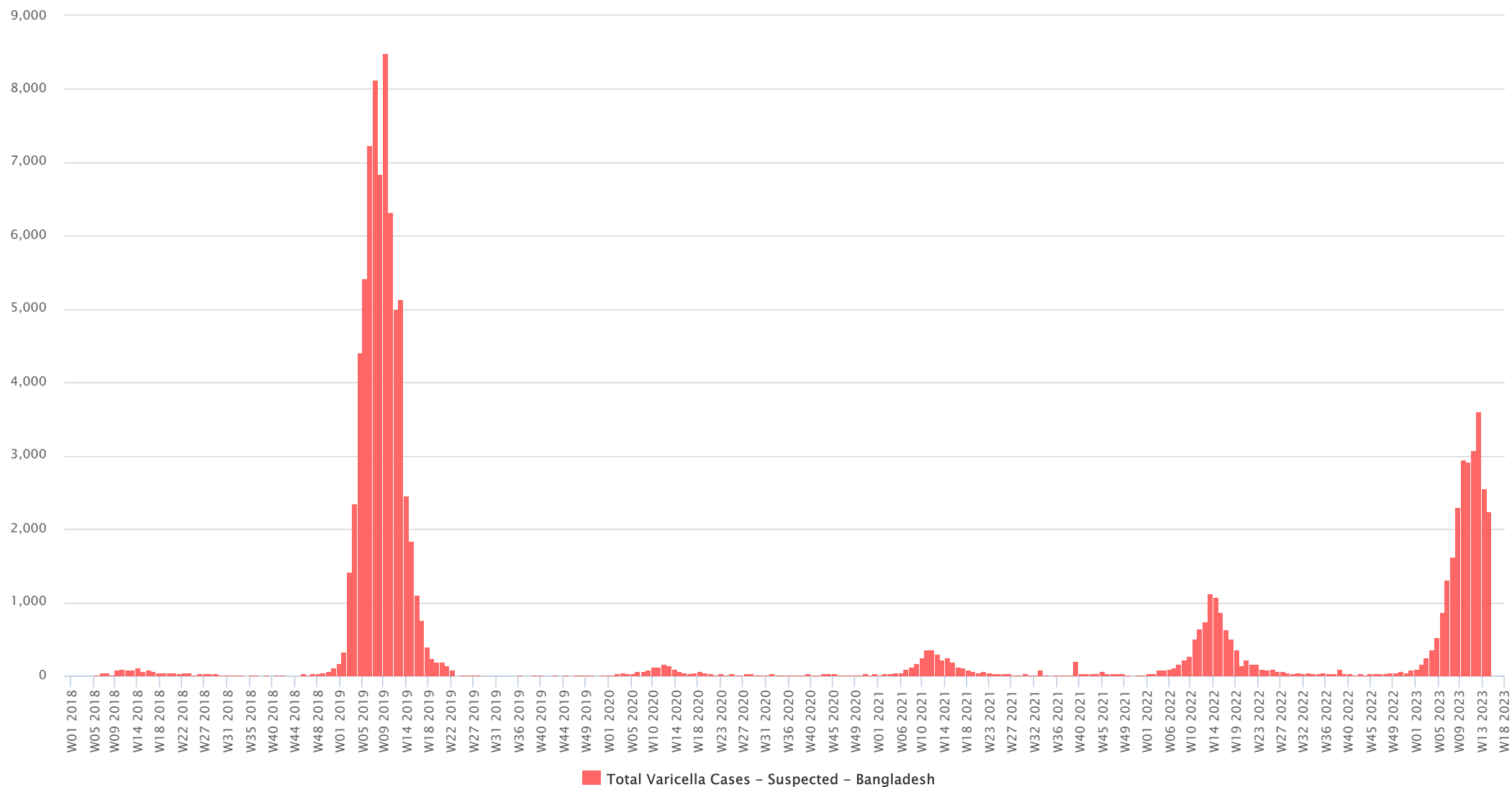
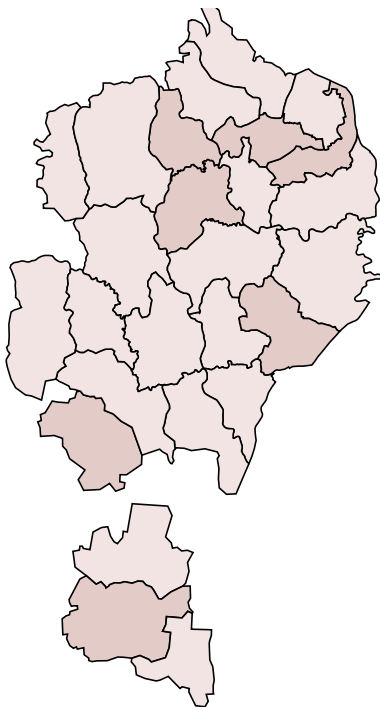


Figure 7 | Trend in number of cases over time (W38 2017 - W14 2023)

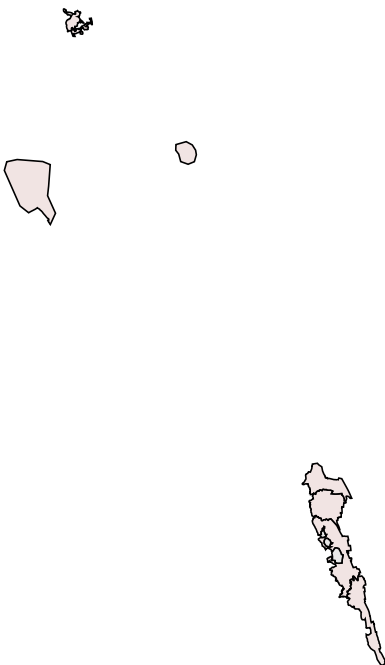


Map 4 | Map of cases by camp (W37 2017 - W14 2023)

a. Ukhia | Number of cases



c. Teknaf | Number of cases



Map legend

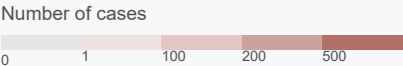


Figure | % sex

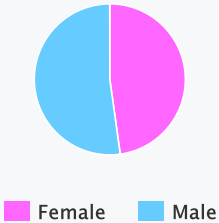
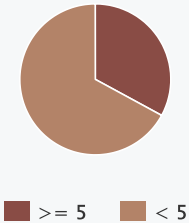


Figure | % age



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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>

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