Global
EWARS

Epidemiological Highlights

Week 14 (27 March- 2 April) 2022

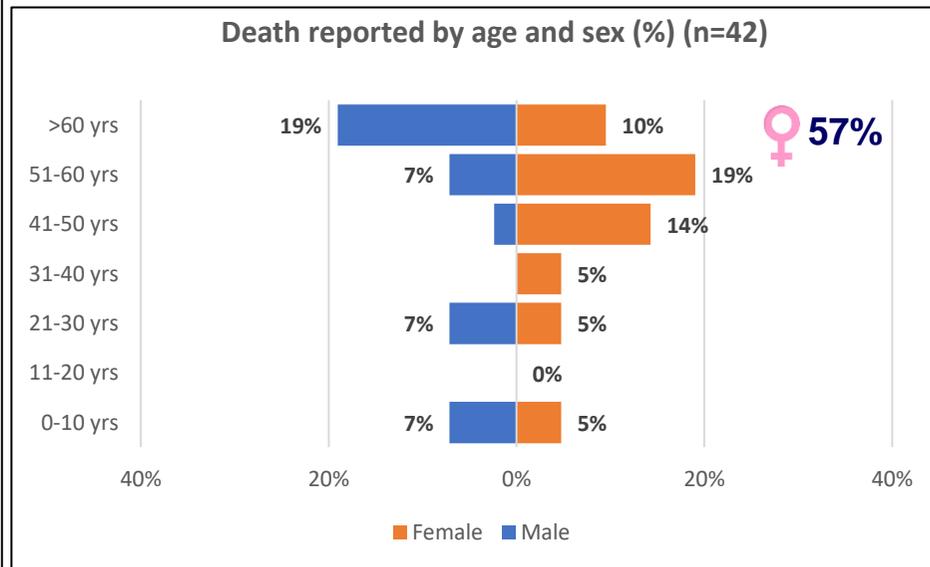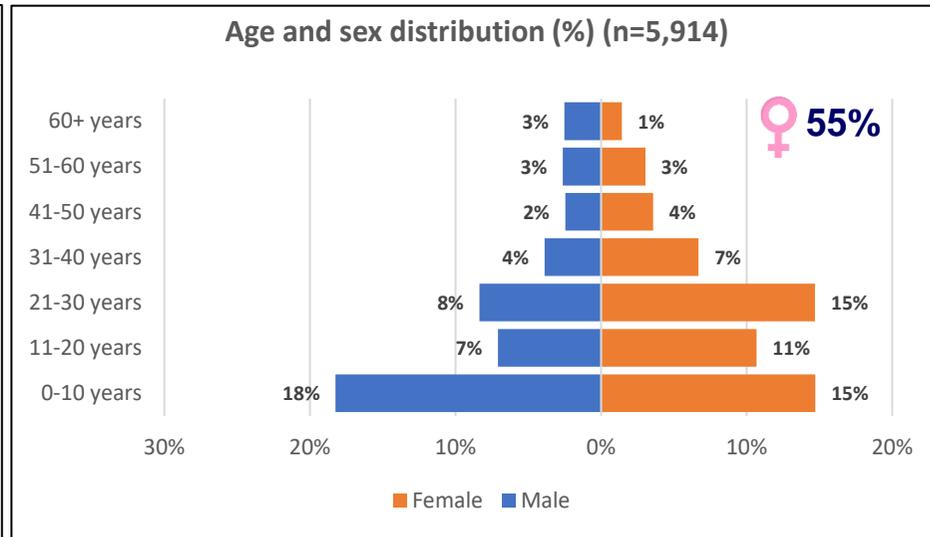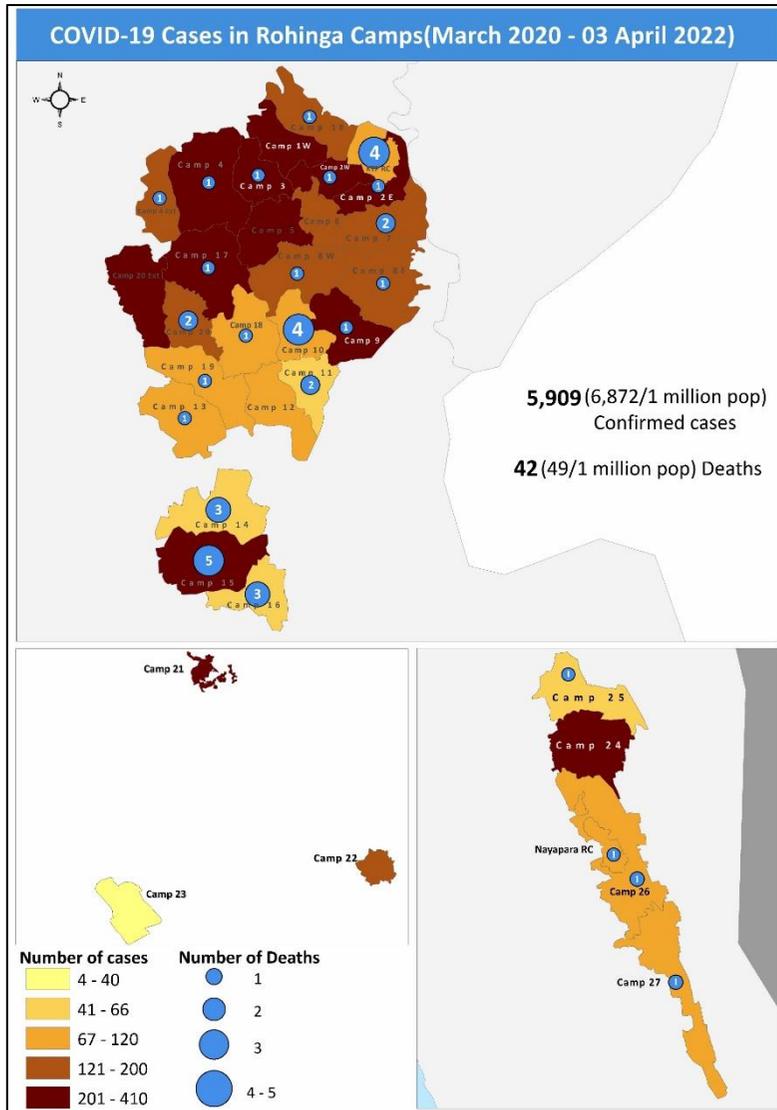**World Health Organization**

Highlights: COVID-19

As of week 14, 2022 there were **5,914 confirmed cases** of COVID-19 (SARS-CoV-2), out of **97,697 samples** that had been submitted for testing. The **total positivity rate now stands at 6.1%**

In the reporting week, five (5) new confirmed cases were detected out of 637 total samples tested. This translated to a 0.8% Test positivity Rate (TPR) which is similar to the previous week.
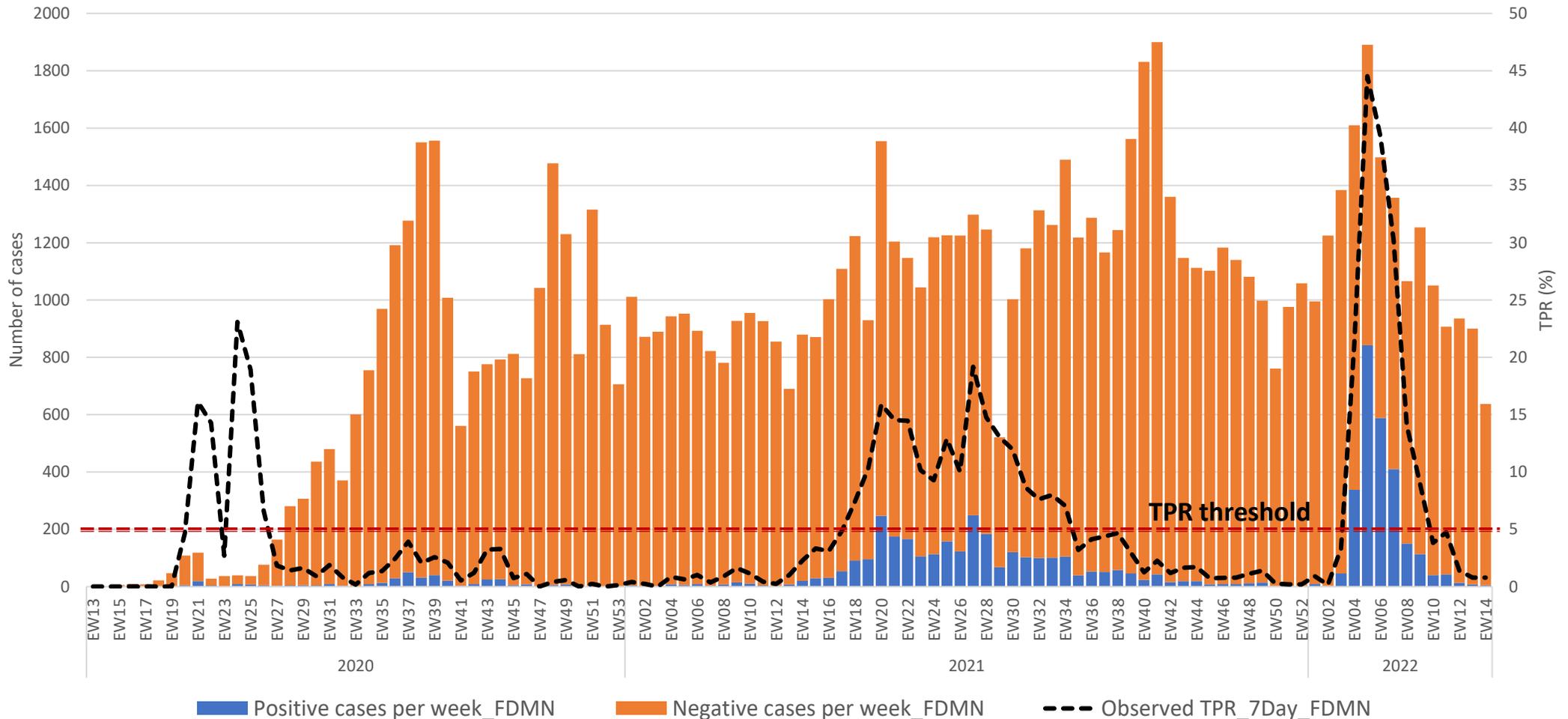
As of this week (week 14)
- **Median age** of tested and confirmed cases were 11 (0-120) and 20 (0-100) years respectively
- **Proportion of females** among tested and confirmed cases were 54% and 55% respectively
- **All the 34 camps**, have so far reported confirmed cases since the outbreak began, while the five camps with the highest number of reported cases were; C17-407, C24-387, C2W-368, C4-363, and C3-337

- 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 5.8 cases/1 million population in this Epi week which is 29% lower in comparison with the previous week.

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Highlights: COVID-19

COVID-19 Cases in Rohinga Camps (March 2020 - 03 April 2022)

5,909 (6,872/1 million pop) Confirmed cases

42 (49/1 million pop) Deaths

Number of cases
- 4 - 40
- 41 - 66
- 67 - 120
- 121 - 200
- 201 - 410

Number of Deaths
- 1
- 2
- 3
- 4 - 5

Age and sex distribution (%) (n=5,914)

♀ **55%**

Age	Male	Female
60+ years	3%	1%
51-60 years	3%	3%
41-50 years	2%	4%
31-40 years	4%	7%
21-30 years	8%	15%
11-20 years	7%	11%
0-10 years	18%	15%

Female ■ Male ■

Death reported by age and sex (%) (n=42)

♀ **57%**

Age	Male	Female
>60 yrs	19%	10%
51-60 yrs	7%	19%
41-50 yrs		14%
31-40 yrs		5%
21-30 yrs	7%	5%
11-20 yrs	0%	
0-10 yrs	7%	5%

Female ■ Male ■

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Highlights: COVID-19

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

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EWARS Reporting Updates

- Currently, a total of 166 health facilities are registered in EWARS

  - Only 159/166 weekly reports were received on time in week 14

  - Timeliness of reporting for this week was 96%

  - One hundred (100) alerts were triggered

  - All alerts were reviewed and verified by the WHO EWARS team; this was a drop from the previous week (77 alerts in week 13, 2022).

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Highlights: Morbidities and Mortalities

▪ Acute Respiratory Infections (15.2%), Diarrheal Diseases (3.8%) & Injury, and wounds (1.9%) were the diseases and health conditions with the highest proportional morbidity in week 14.

▪ Monitoring of suspected SARI death under enhanced Community-based mortality surveillance has been continued since week 28, 2020.

▪ This Epi week, Two SARI death was reported as highlighted below:

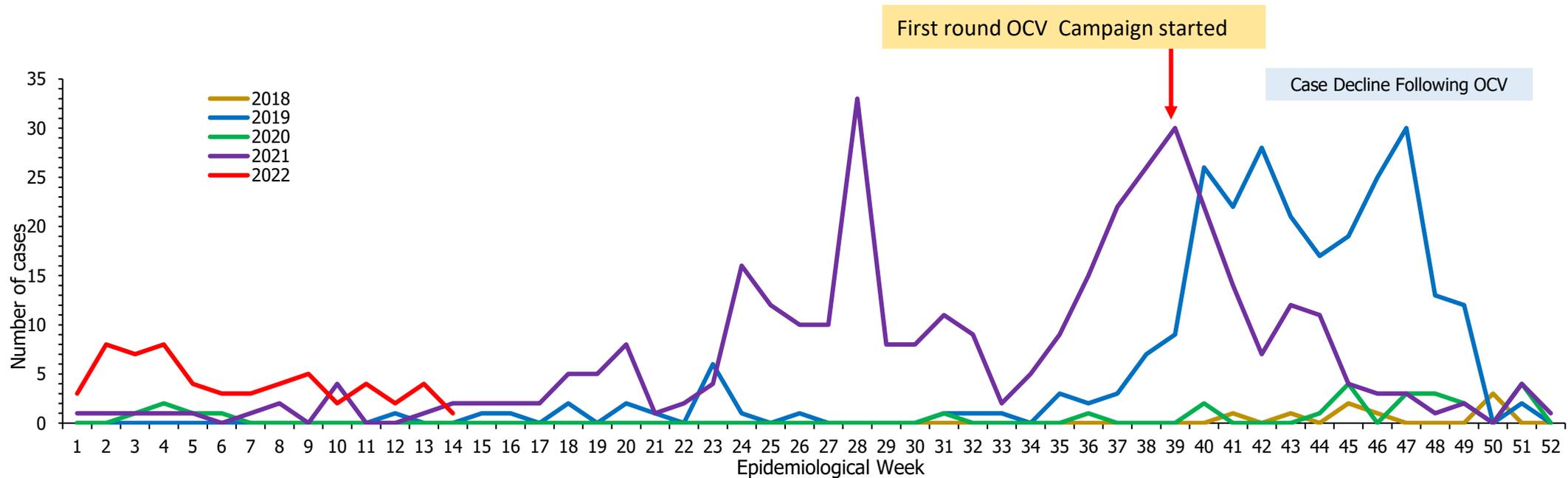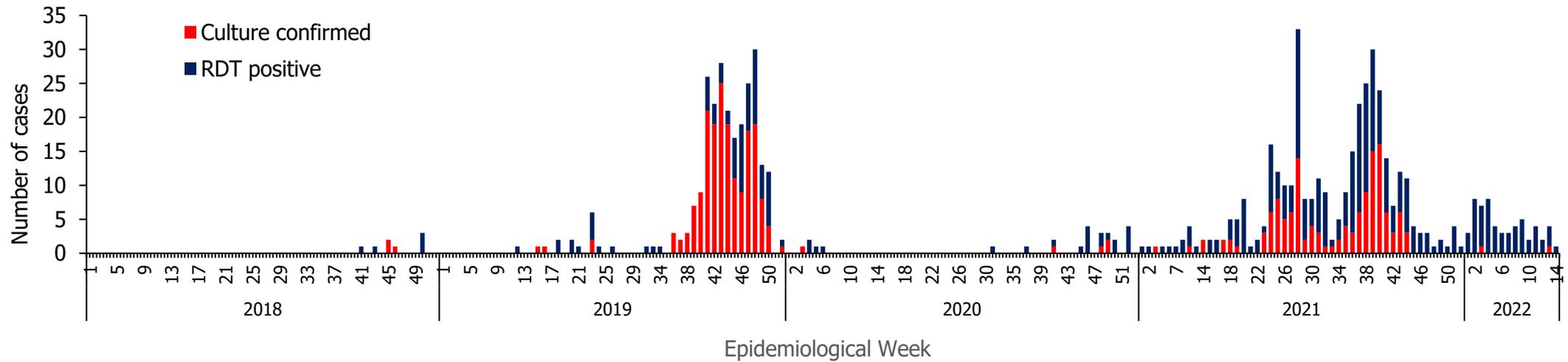| Year	Suspected SARI death reported	Reclassified as death due to probable COVID-19
2022	42	6
2021	96	15
2020	49	2

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Cholera/AWD Surveillance Updates

- In this week, one (1) RDT-positive case was reported, among samples sent for testing.

- In 2022 total of fifty-eight (58) RDT confirmed cholera cases were reported as of W14 2022. Of these two (2) were positive for culture, 52 were negative for culture and 4 are pending for culture result.

- Cumulatively there are 739 RDT and culture-confirmed cholera cases of which 333 cases were culture-confirmed since transmission in 2018

Distribution of RDT positive and culture confirmed for Cholera cases in FDMN 2021 to 2022
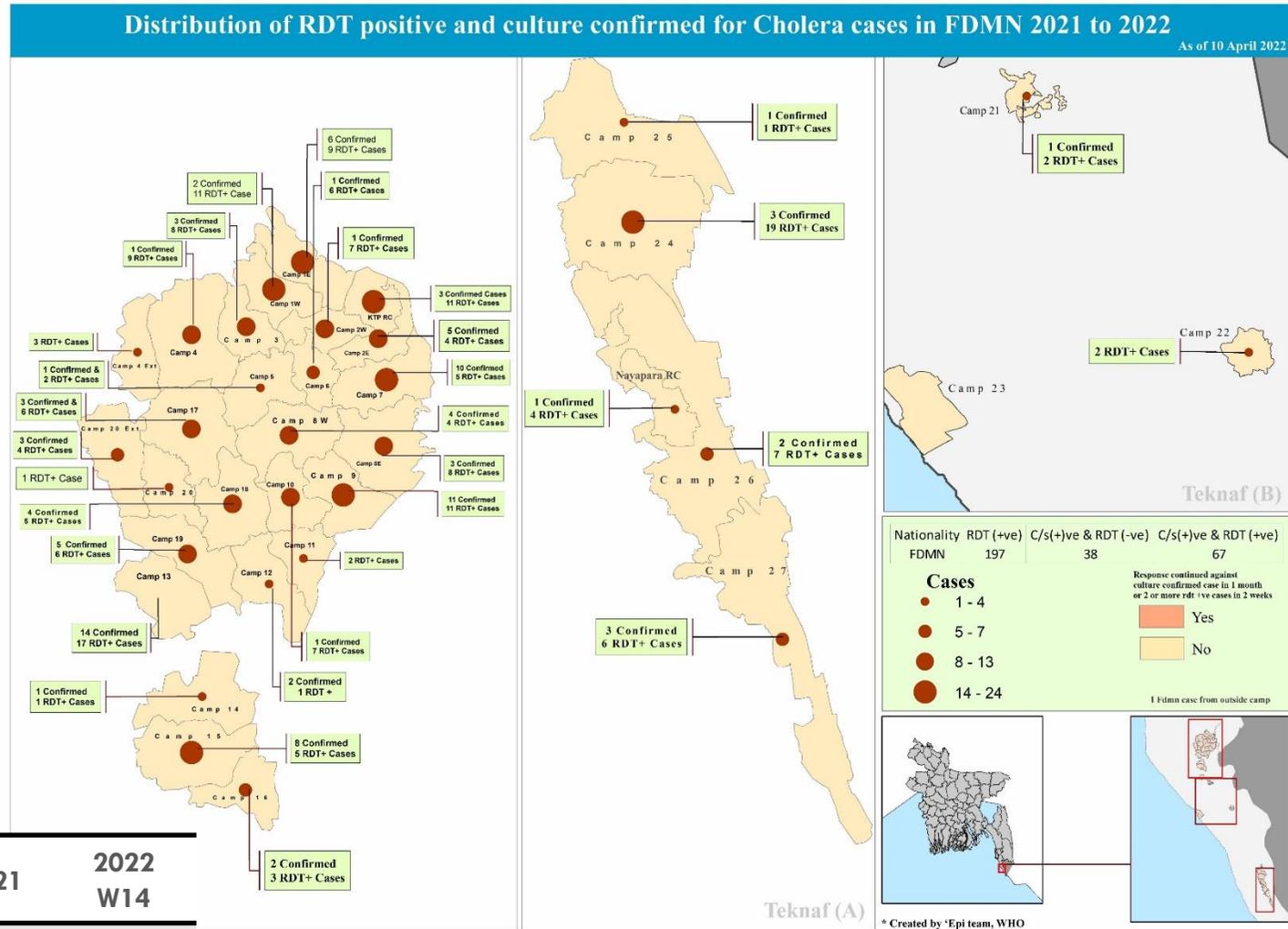
	2018	2019	2020	2021	2022 W14
RDT positive/culture confirmed for Cholera	49	258	28	357	58
Culture confirmed for Cholera	7	184	5	136	2

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Epidemic curve of cholera, Cox's Bazar District, 2017-2022 (W14)

Epidemiological Highlights
Week 14, 2022

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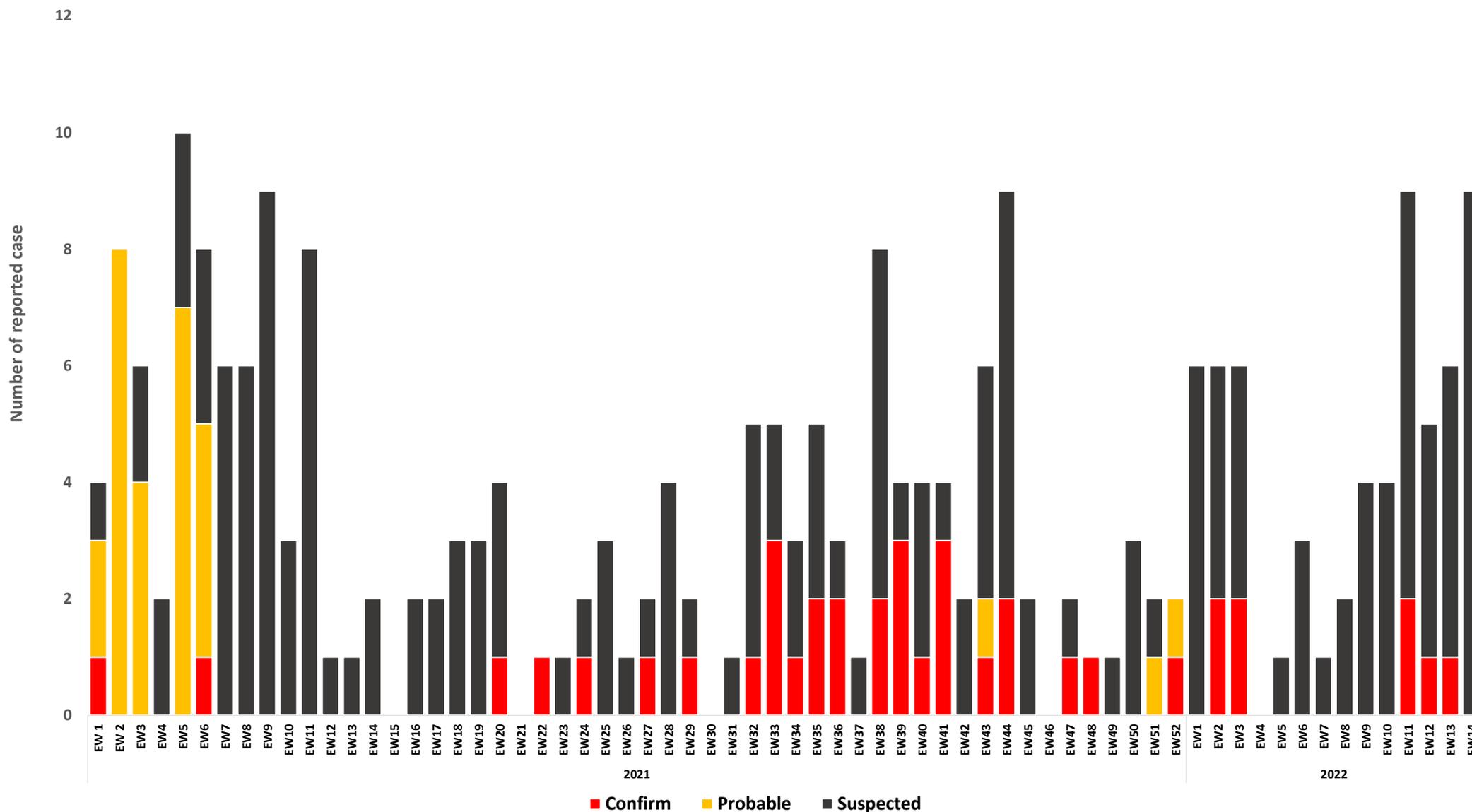**World Health Organization**

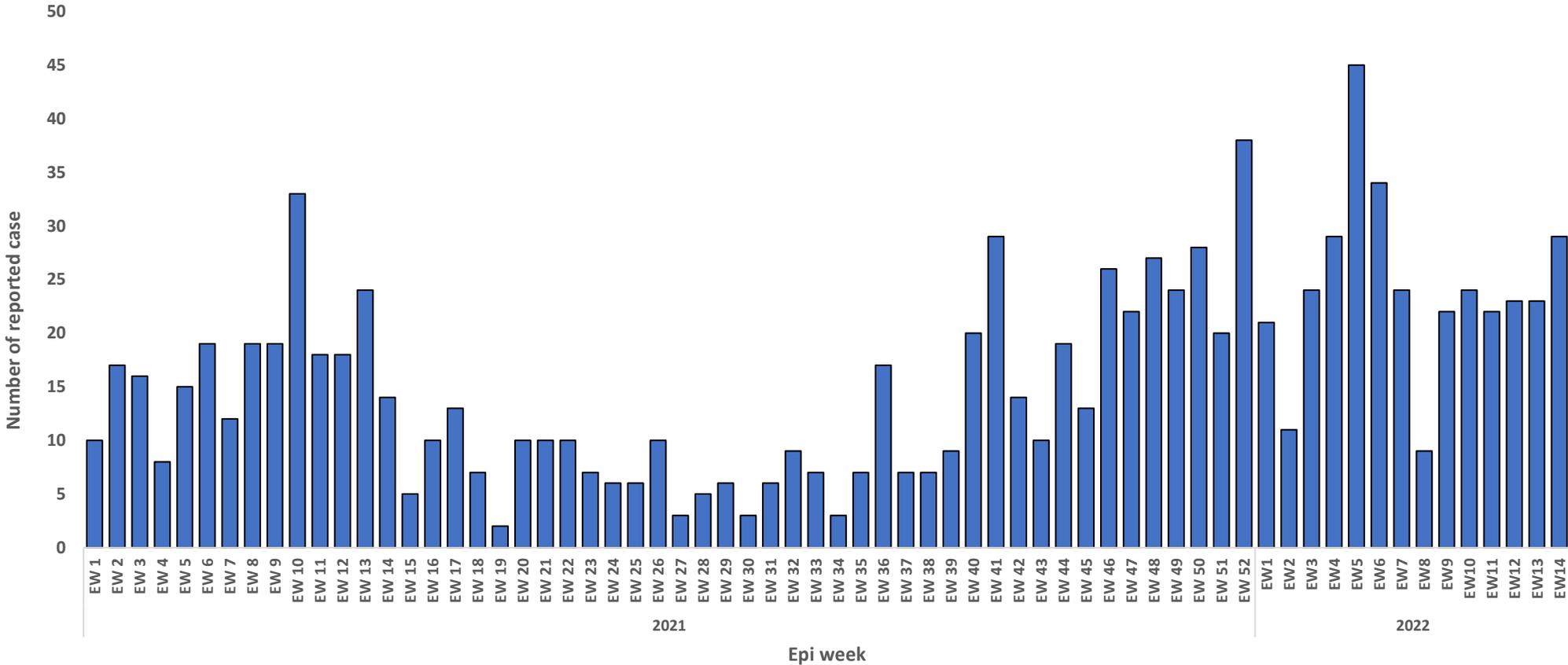# Diphtheria Surveillance Updates

- Nine (9) suspected diphtheria cases were reported in go.data in this Epi week

- The last confirmed case was reported on 2 April 2022

- In total 52 deaths have so far been reported since 2017, the last death reported on 5 November 2021

Classification	2017	2018	2019	2020	2021	2022
Confirmed	66	226	31	19	30	8
Probable	1154	1555	60	9	29	0
Suspected	1796	3549	523	198	118	54
Death	30	14	3	0	5	0

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Trends of Diphtheria cases as of Epi Week 14, 2022

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Week 14, 2022

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Epi Curve of Suspected Measles Cases as of Epi Week 14

> In week 14, 29 suspected measles cases were reported through weekly reporting. This brings the total number of suspected measles cases to 340 reported in 2022
> About 54% (184/340) of the total suspected measles cases were reported through case-based reporting and samples collected for laboratory confirmation

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Dengue Surveillance Updates Epi week 14

Year	Month/Epi Week	Confirmed case	Death	Confirmed case (cumulative)	Death (cumulative)
2021	Jan-Mar	1	0	1	0
	Apr-Jun	3	0	4	0
	Jul-Sep	6	0	10	0
	Oct-Dec	1,493	3	1,503	3
2022	Jan	184	0	1,687	3
	Feb	9	0	1,696	3
	March	16	0	1,772	3
	Week 13 (28 Mar-3 April)	5	0	1,777	3
	Week 14 (4-10 April)	3	0	1,780	3

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Community-based Mortality surveillance updates Epi week 14

Probable causes of death	Epi week 14	In 2022
Still Birth	8 (17%)	67 (12%)
Neonatal Death (<28 days old)	6 (13%)	50 (9%)
Infectious Disease	1 (2%)	15 (3%)
Severe Acute Respiratory Infection (SARI)	1 (2%)	15 (3%)
Injury	1 (2%)	9 (2%)
Maternal Death	--	16 (3%)
Acute Malnutrition	--	1 (0%)
Other	31 (65%)	378 (69%)
Total	**48 (100%)**	**551 (100%)**

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

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Community-based Mortality surveillance updates Epi week 14

Gender distribution

19 (39.58%)

48

29 (60.42%)

● MALE ● FEMALE

Place of death

3 (6.25%)

20 (41.67%)

25 (52.08%)

● HOME ● HEALTH FACILITY ● COMMUNITY/PUBLIC PLACE
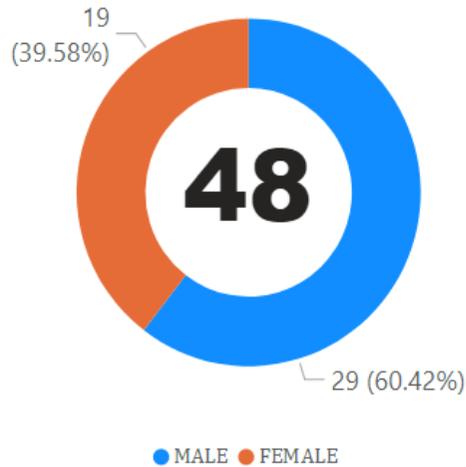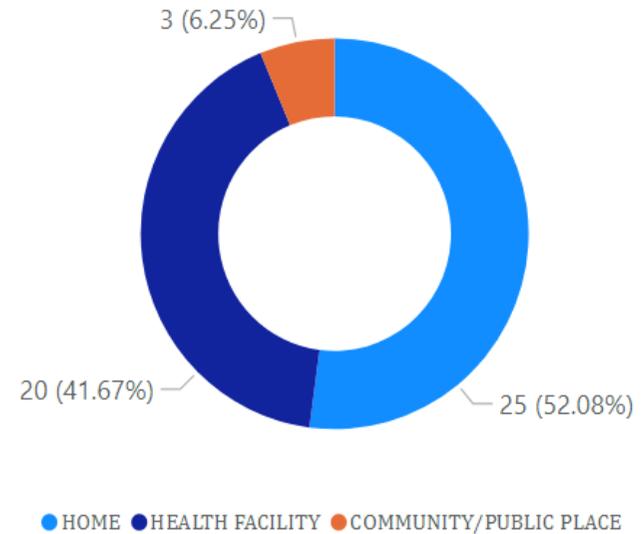
Distribution of deceased Camp

Camp	Count
CAMP 7	9
CAMP 16	5
CAMP 2E	5
CAMP 6	4
CAMP 1W	3
CAMP 27 JADIM...	3
CAMP 5	3
KUTAPALONG RC	3
(Blank)	2
CAMP 15	2
CAMP 19	2
CAMP 11	1
CAMP 14	1
CAMP 22 UNCHIP ...	1
CAMP 24 Leda	1
CAMP 26 NAYAP ...	1
CAMP 2W	1
CAMP 3	1
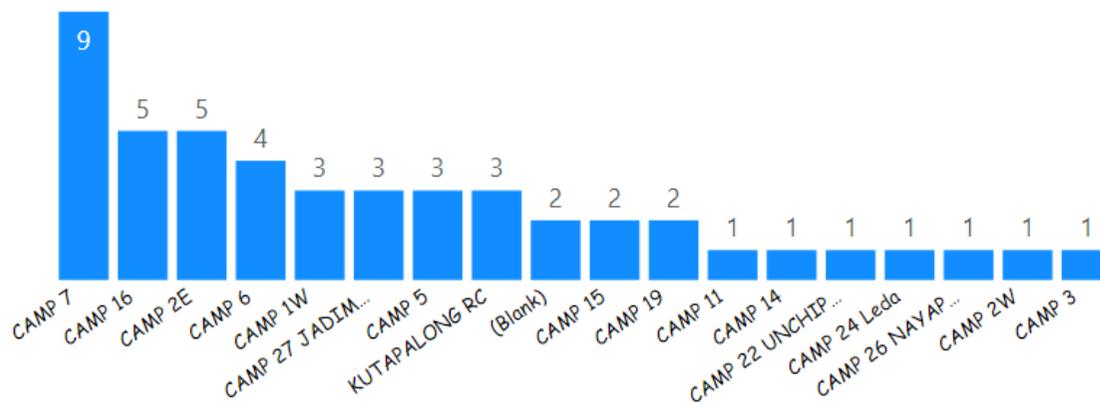
Distribution of Probable cause of death

Cause	Count
OTHER	31
STILL BIRTH (BORN DEAD)	8
NEONATAL (<28 DAYS OLD)	6
INFECTIOUS DISEASE	1
INJURY	1
SEVERE ACUTE RESPIRATORY INFECTION (SARI)	1

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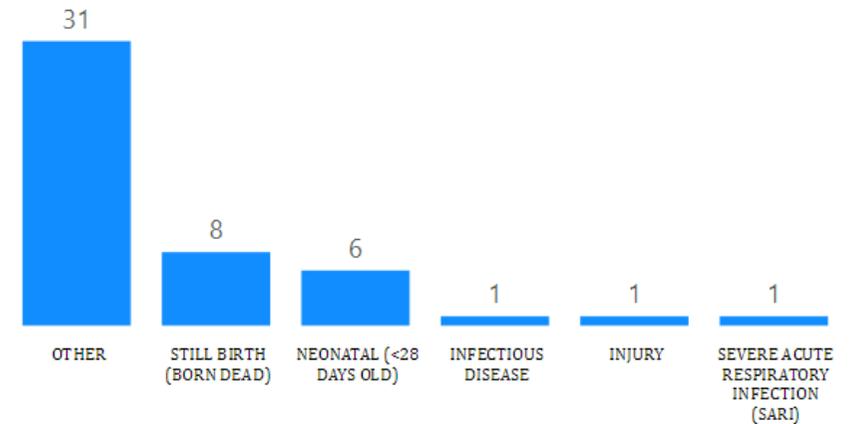
Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W14 2022

**Ministry of Health and Family
Welfare Bangladesh**

**World Health
Organization**

HEALTH SECTOR
COX'S BAZAR

Contents

Highlights

Early Warning

Alert

Sources of data

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

World Health Organization   HEALTH SECTOR COX'S BAZAR

Highlights W14 2022

Table 1 | Coverage

#	%	
918,841	-	Estimated total Rohingya population[1]
902,066	**100%**	Total population under surveillance
175	-	Total number of health facilities
166	**95%**	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W14	Cumulative (2022)	
159	**2620**	Number of weekly reports received
96%	**93%**	Completeness
89%	**80%**	Timeliness

Table 3 Alert performance indicators

W14	Cumulative (2022)	
100	**1,339**	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.

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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
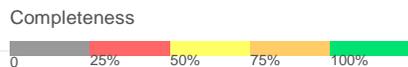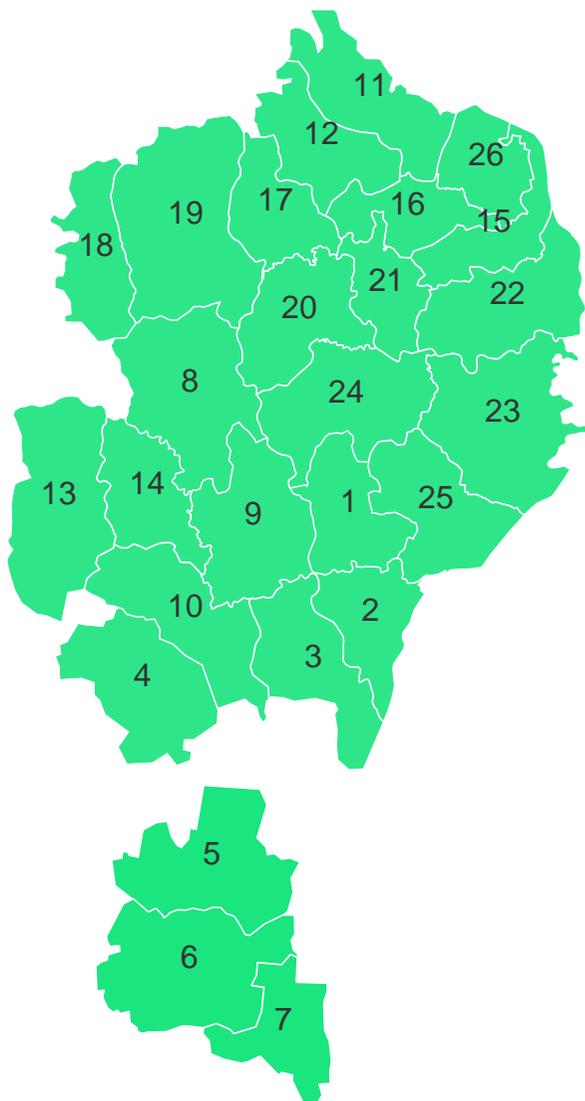
Map 1b | Teknaf completeness by camp

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

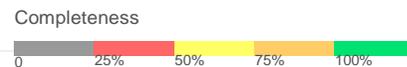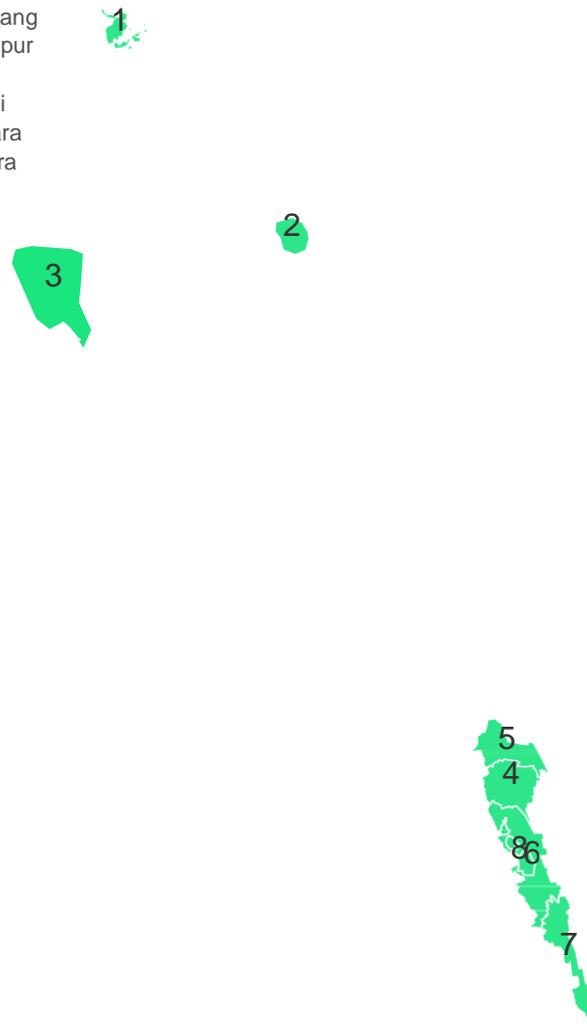Completeness

0   25%   50%   75%   100%

Completeness

0   25%   50%   75%   100%

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HEALTH SECTOR COX'S BAZAR

Table 4 | Performance by camp (W14 2022)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
		Ukhia Northern Group		
Camp 1E	4	4	100%	100%
Camp 1W	5	5	100%	100%
Camp 2E	3	3	100%	100%
Camp 2W	3	3	133%	100%
Camp 3	6	6	100%	92%
Camp 4	5	5	100%	100%
Camp 4 Ext	1	2	100%	100%
Camp 5	5	5	100%	80%
Camp 6	3	3	67%	67%
Camp 7	5	5	100%	100%
Camp 8E	7	7	100%	100%
Camp 8W	4	4	100%	100%
Kutupalong RC	2	2	100%	100%

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
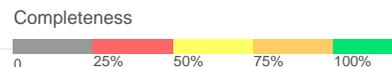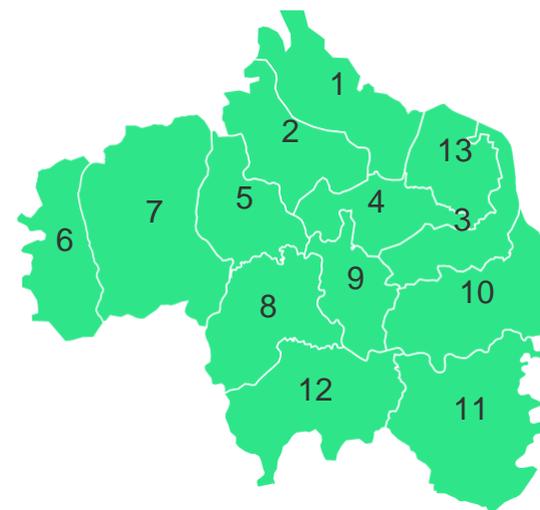9 Camp 6
10 Camp 7
11 Camp 8E
12 Camp 8W
13 Kutupalong RC

Completeness

0   25%   50%   75%   100%

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HEALTH SECTOR COX'S BAZAR

Table 5 | Performance by camp (W14 2022)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Ukhia Southern Group				
Camp 10	4	4	100%	63%
Camp 11	7	7	100%	100%
Camp 12	6	6	100%	100%
Camp 13	10	10	80%	85%
Camp 14	7	7	100%	93%
Camp 15	9	9	100%	94%
Camp 16	7	8	100%	93%
Camp 17	5	5	100%	80%
Camp 18	5	5	100%	80%
Camp 19	5	5	100%	100%
Camp 20	3	3	100%	100%
Camp 20 Ext	3	3	100%	100%
Camp 9	6	7	100%	83%

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
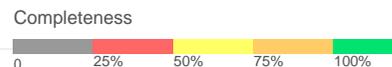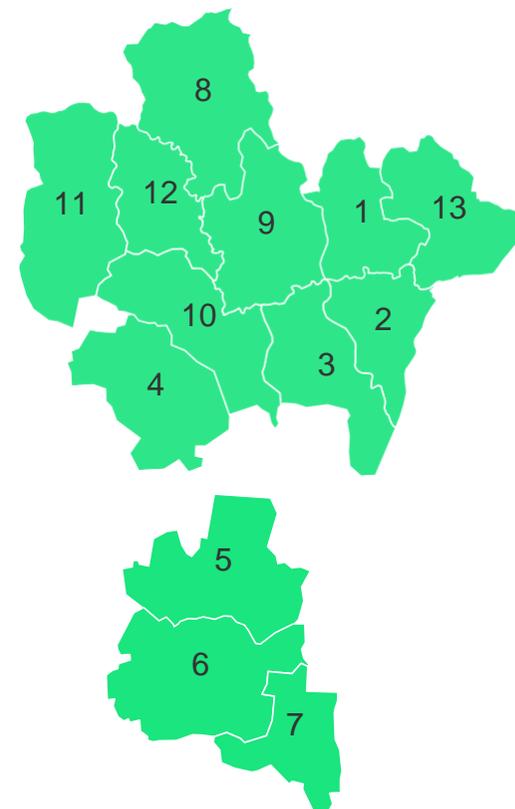
0   25%   50%   75%   100%

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Table 6 | Performance by camp (W14 2022)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
		Ukhia Teknaf		
Camp 21 Chakmarkul	4	4	100%	75%
Camp 22 Unchiprang	5	3	60%	60%
Camp 23 Shamlapur	3	3	100%	67%
Camp 24 Leda	2	2	100%	100%
Camp 25 Ali Khali	3	3	100%	83%
Camp 26 Nayapara	4	3	75%	75%
Camp 27 Jadimura	2	2	100%	100%
Nayapara RC	2	2	100%	100%

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

Completeness
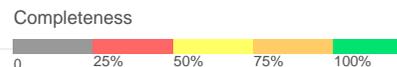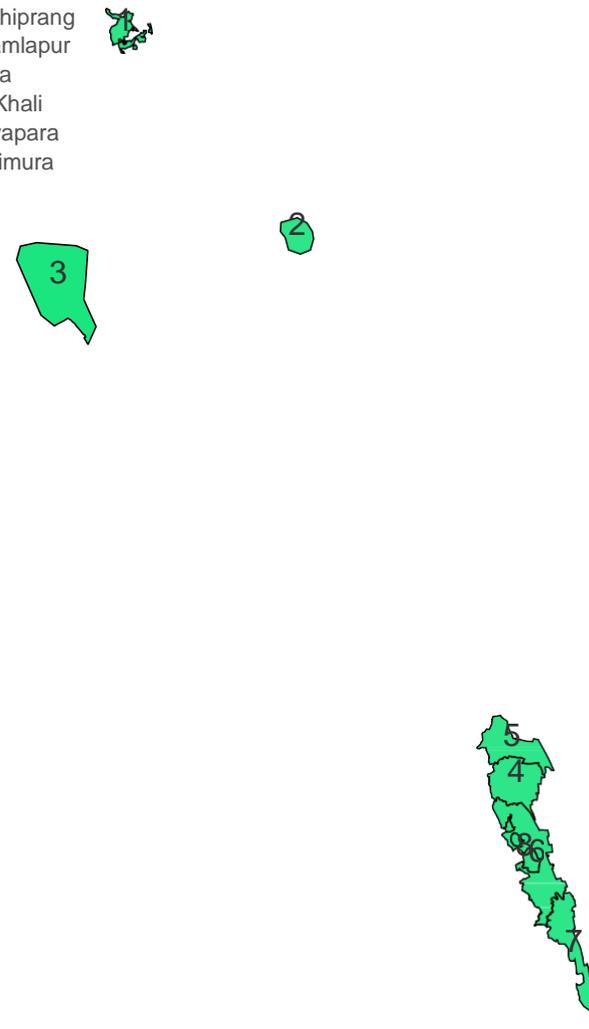
0   25%   50%   75%   100%

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Table 7 | Performance by partner (W14 2022)

Partner	Performance		Reporting		Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness		# sites	# reports received	Completeness	Timeliness
AKF	1	1	100%	100%	IRC	2	2	100%	100%
AWARD	7	7	100%	100%	MSF	9	8	78%	78%
BASHMAH	1	0	0%	0%	MoH	15	14	93%	93%
BDRCS	12	12	100%	100%	MHI	0	0		
BRAC	11	11	100%	100%	Medair	2	2	100%	100%
CARE	4	4	100%	100%	FH/MTI	3	3	67%	67%
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%	0%
DCHT-PWJ	1	1	100%	100%	PHD	10	10	100%	100%
FRNDS	6	6	100%	100%	RPN	2	2	100%	100%
GK	10	9	120%	100%	RHU	3	3	100%	100%
Global One	1	1	100%	100%	RI	3	3	100%	100%
GUSS	1	1	100%	100%	RTMI	9	8	89%	89%
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%	0%
ICRC	1	1	100%	100%	TdH	2	2	100%	100%
IOM	18	18	89%	83%					

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Table 8 | Performance by camp

Northern group	W14		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
		Alerts Northern group		
Camp 1E	4	100%	26	100%
Camp 1W	7	100%	61	98%
Camp 2E	13	100%	147	98%
Camp 2W	3	100%	43	95%
Camp 3	4	100%	71	99%
Camp 4	6	100%	58	97%
Camp 4 Ext	1	100%	16	100%
Camp 5	0	0%	44	100%
Camp 6	3	100%	37	95%
Camp 7	2	100%	26	100%
Camp 8E	1	100%	18	100%
Camp 8W	6	100%	63	100%
Kutupalong RC	0	0%	23	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

0   2   5   10

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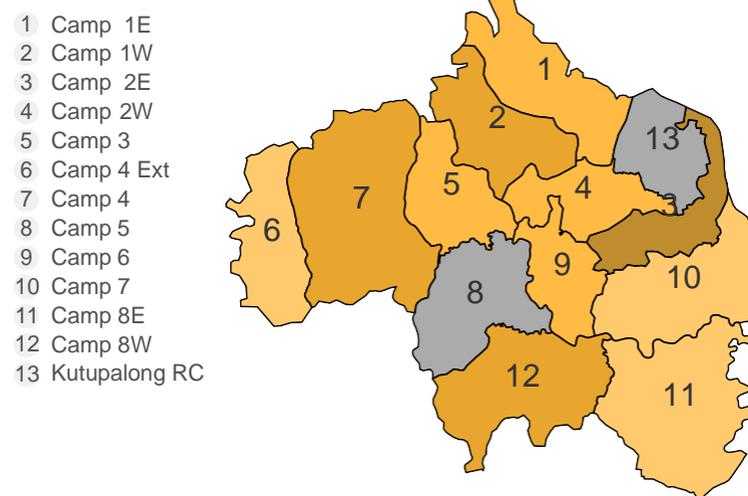
Table 9 | Performance by camp

Southern group	W14		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Alerts Northern group				
Camp 10	1	100%	19	100%
Camp 11	3	100%	37	97%
Camp 12	6	100%	47	100%
Camp 13	3	100%	57	96%
Camp 14	4	100%	27	100%
Camp 15	6	100%	44	98%
Camp 16	2	100%	43	100%
Camp 17	2	100%	24	100%
Camp 18	1	100%	57	98%
Camp 19	2	100%	21	95%
Camp 20	3	100%	20	90%
Camp 20 Ext	1	100%	15	100%
Camp 9	5	100%	67	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

0   2   5   10

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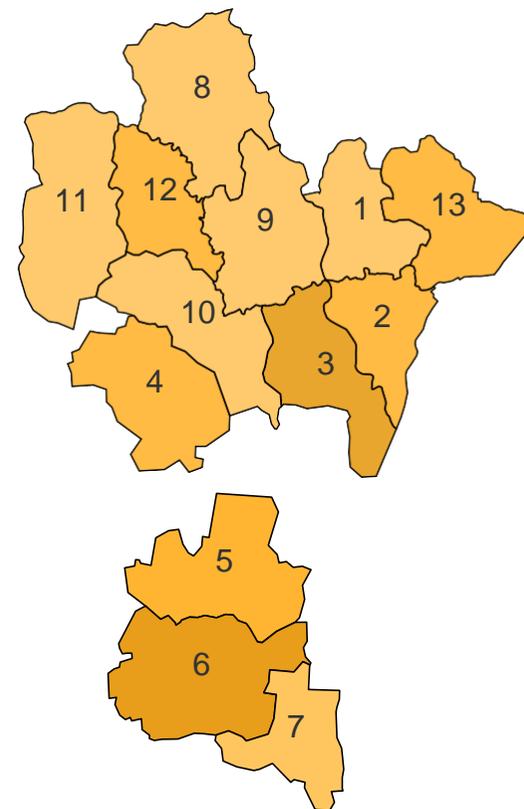
Table 10 | Performance by camp

Teknaf	W14		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
	Alerts Northern group			
Camp 21 Chakmarkul	1	100%	21	100%
Camp 22 Unchiprang	1	100%	29	100%
Camp 23 Shamlapur	1	100%	10	90%
Camp 24 Leda	3	100%	32	97%
Camp 25 Ali Khali	1	100%	13	100%
Camp 26 Nayapara	0	0%	45	100%
Camp 27 Jadimura	1	100%	27	96%
Nayapara RC	0	0%	13	92%

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

# of alerts

0   2   5   10

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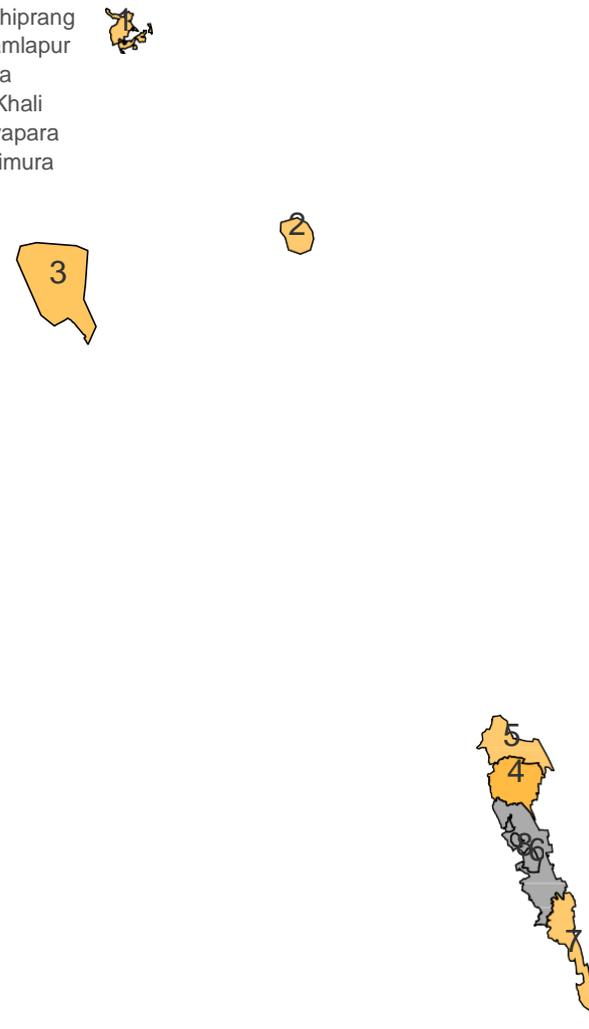
Table 11 | Performance by type of alert

Event	W14		Cumulative (2022)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	2	100%
Measles	14	100%	211	99%
Bloody Diarr.	0	0%	0	0%
AFP	1	100%	14	93%
Meningitis	0	0%	6	100%
Haem. fever (susp.)	0	0%	6	100%
NNT	0	0%	3	100%
Unexp. fever	1	100%	59	98%
AWD	1	100%	101	100%
ARI	1	100%	86	100%
AJS	1	100%	25	96%
Varicella (Susp.)	0	100%	102	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	9	100%	90	100%

Table 12 | Risk assessment

W14	Cumulative (2022)	
0	5	Low risk
0	0	Moderate risk
0	0	High risk
0	0	Very high risk

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Notes

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Ministry of Health and Family Welfare Bangladesh

World Health Organization

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Global EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Annex W14 2022

Ministry of Health and Family Welfare Bangladesh

World Health Organization

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Printed: 05:51 Monday, 25 April 2022 UTC

Proportional morbidity
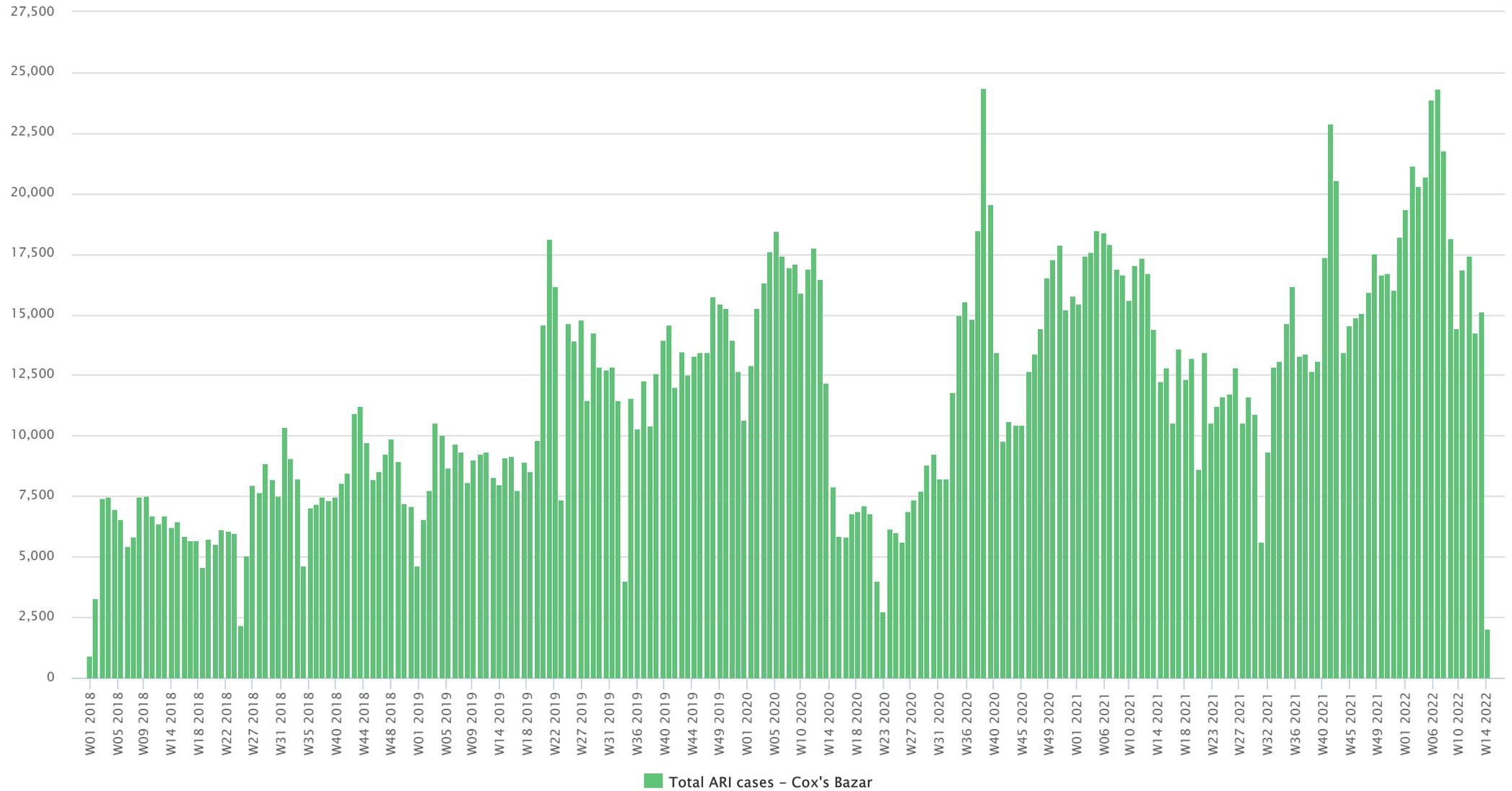
Figure 1 | Proportional morbidity (W14 2022)

0.0%
- 🟩 Acute Respiratory Infection (ARI)
- 🟦 Acute Watery Diarrhoea
- 🟥 Bloody diarrhoea
- 🟩 Other diarrhoea
- 🟪 Varicella (susp.)

- 🟪 Unexplained fever
- 🟧 Acute Jaundice Syndrome (AJS)
- 🟦 Measles/Rubella
- ⬜ Other
- 🟥 Vector-borne disease*

* Combines malaria and dengue cases (suspected and confirmed)
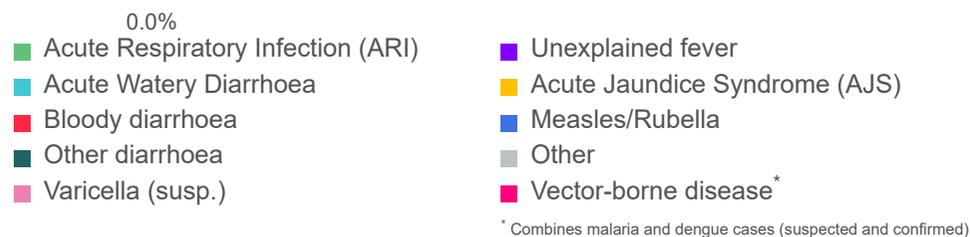
Disease	W14		2022	
	# cases	% morbidity	# cases	% morbidity
AWD	2,545	2.3%	40,032	2.4%
Bloody diarr.	363	0.3%	6,341	0.4%
Other diarr.	1,401	1.2%	16,556	1.0%
Susp. Varicella	1,137	1.0%	6,965	0.4%
ARI	17,175	15.2%	302,764	18.1%
Measles/Rub.	29	0.0%	398	0.0%
AFP	1	0.0%	34	0.0%
Susp. menin.	2	0.0%	30	0.0%
AJS	20	0.0%	234	0.0%
Susp. HF	0	0.0%	16	0.0%
Neo. tetanus	0	0.0%	5	0.0%
Adult tetanus	0	0.0%	1	0.0%
Malaria (conf.)	0	0.0%	206	0.0%
Malaria (susp.)	1,298	1.2%	25,969	1.6%
Dengue (conf.)	8	0.0%	422	0.0%
Dengue (susp.)	3	0.0%	325	0.0%
Unexpl. fever	1,675	1.5%	20,242	1.2%
Sev. Malnut.	22	0.0%	771	0.0%
Inj./Wounds	2,165	1.9%	33,904	2.0%
Other	84,648	75.1%	1,210,329	72.5%
Total	**111,053**	**100%**	**1,670,544**	**100%**

Trend in consultations and key diseases

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

- Other consultations
- Acute Respiratory Infection (ARI)
- Unexplained fever
- Acute Jaundice Syndrome (AJS)
- Acute Watery Diarrhoea (AWD)
- Other diarrhoea
- Vector-borne disease*

* Combines malaria and dengue cases (suspected and confirmed)

Figure 3 | Trend in number of cases over time (W38 2017 - W14 2022)

Total ARI cases – Cox's Bazar

Acute Respiratory Infection | Maps and Alert Management

Map 1 | Map of cases by camp (W14 2022)
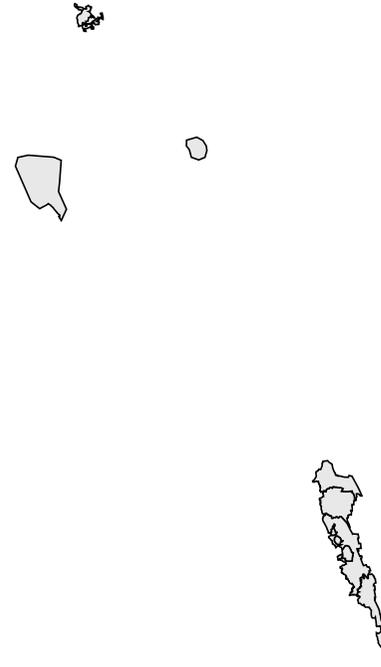
a. Ukhia | Number of cases   **b. Ukhia** | Number of alerts   **c. Teknaf** | Number of cases   **d. Teknaf** | Number of alerts

Map legend

Number of cases

0   1   100   200   500

Number of alerts

0   1   10

Alert threshold

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

Alert management (W14 2022)

0	**0%**	**0**	**0**	**0**	**0**
Alerts	Verified	Low Risk	Moderate Risk	High Risk	Very High Risk

Figure | % sex

■ Male ■ Female

Figure | % age

■ >=5 ■ < 5

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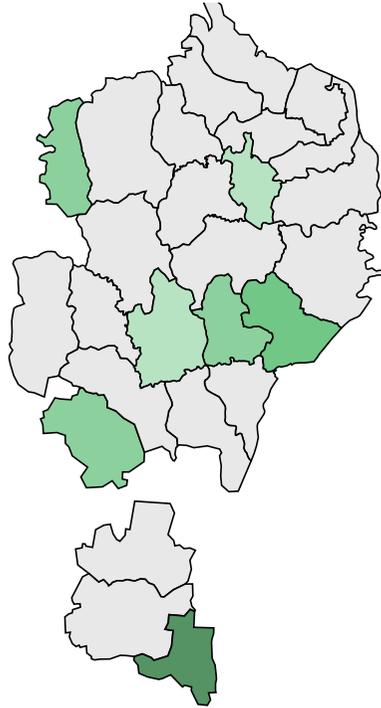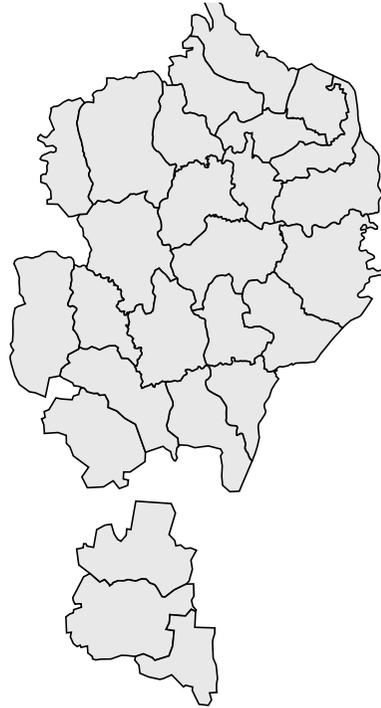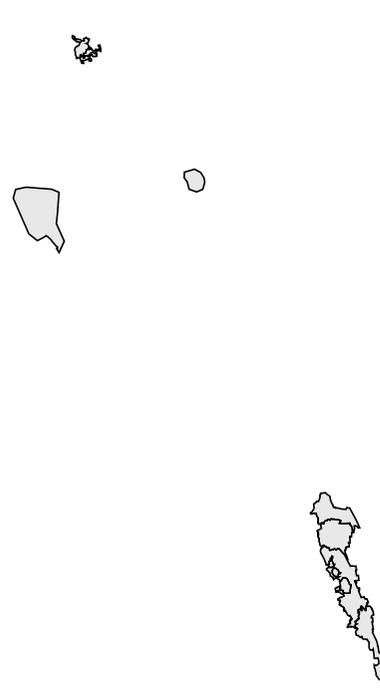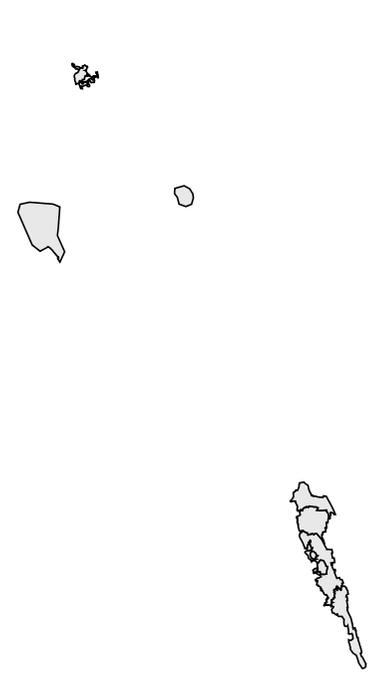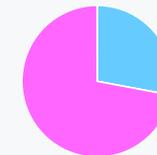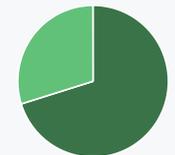
Figure 4 | Trend in number of suspected cases over time (W38 2017 - W14 2022)
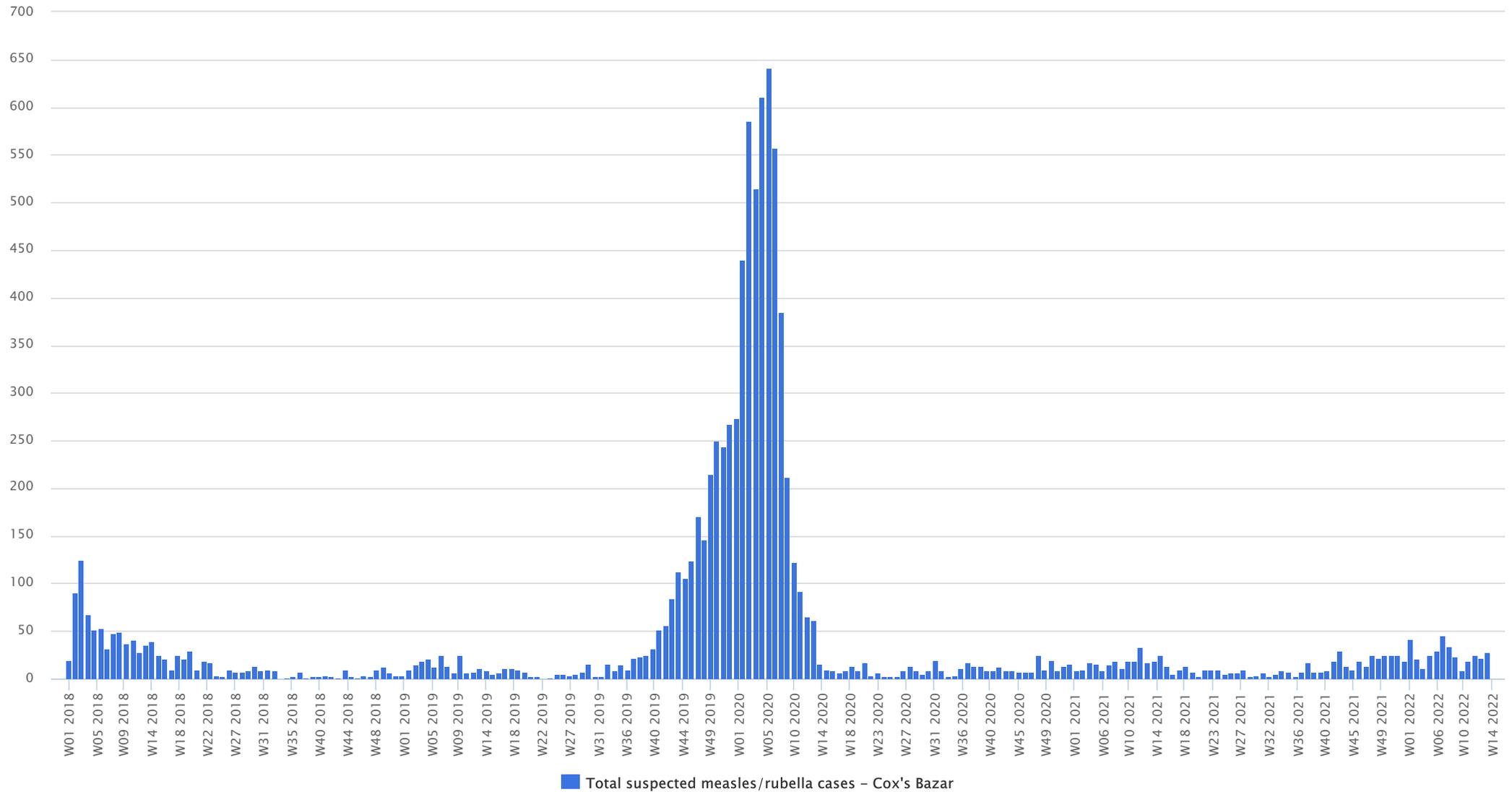
Total suspected measles/rubella cases – Cox's Bazar

World Health Organization

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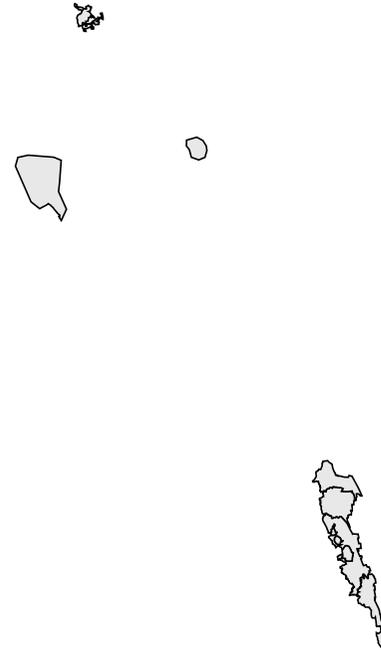
Map 2 | Map of cases by camp (W14 2022)

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

0   1   10   20   50

Number of alerts

0   1   10
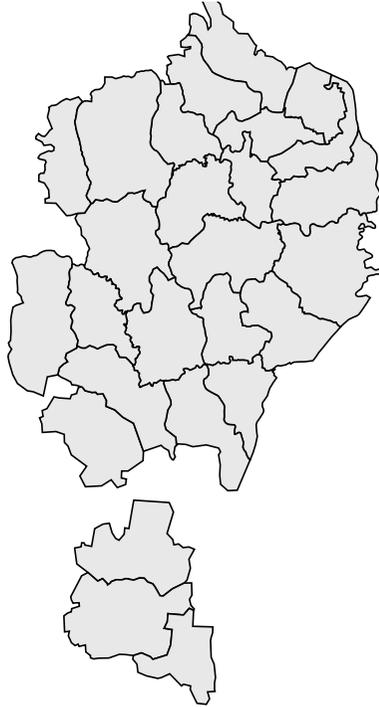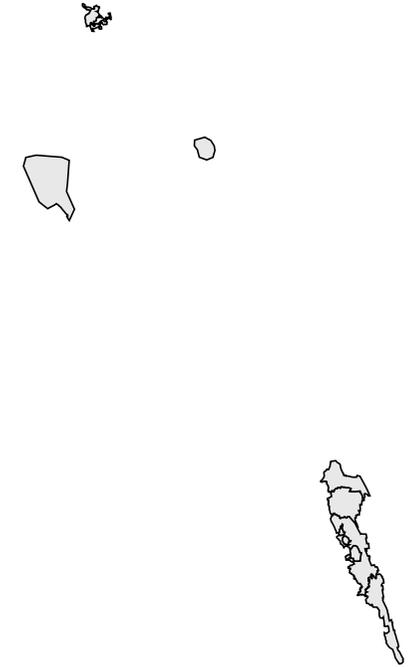
Alert threshold
1 case. *Source: IEDCR*

Alert management (W14 2022)

0	**0%**	**0**	**0**	**0**	**0**
Alerts	Verified	Low Risk	Moderate Risk	High Risk	Very High Risk

Figure | % sex

No data in chart

Figure | % age

No data in chart

World Health Organization

HEALTH SECTOR COX'S BAZAR

Figure 5 | Trend in number of cases over time (W38 2017 - W14 2022)
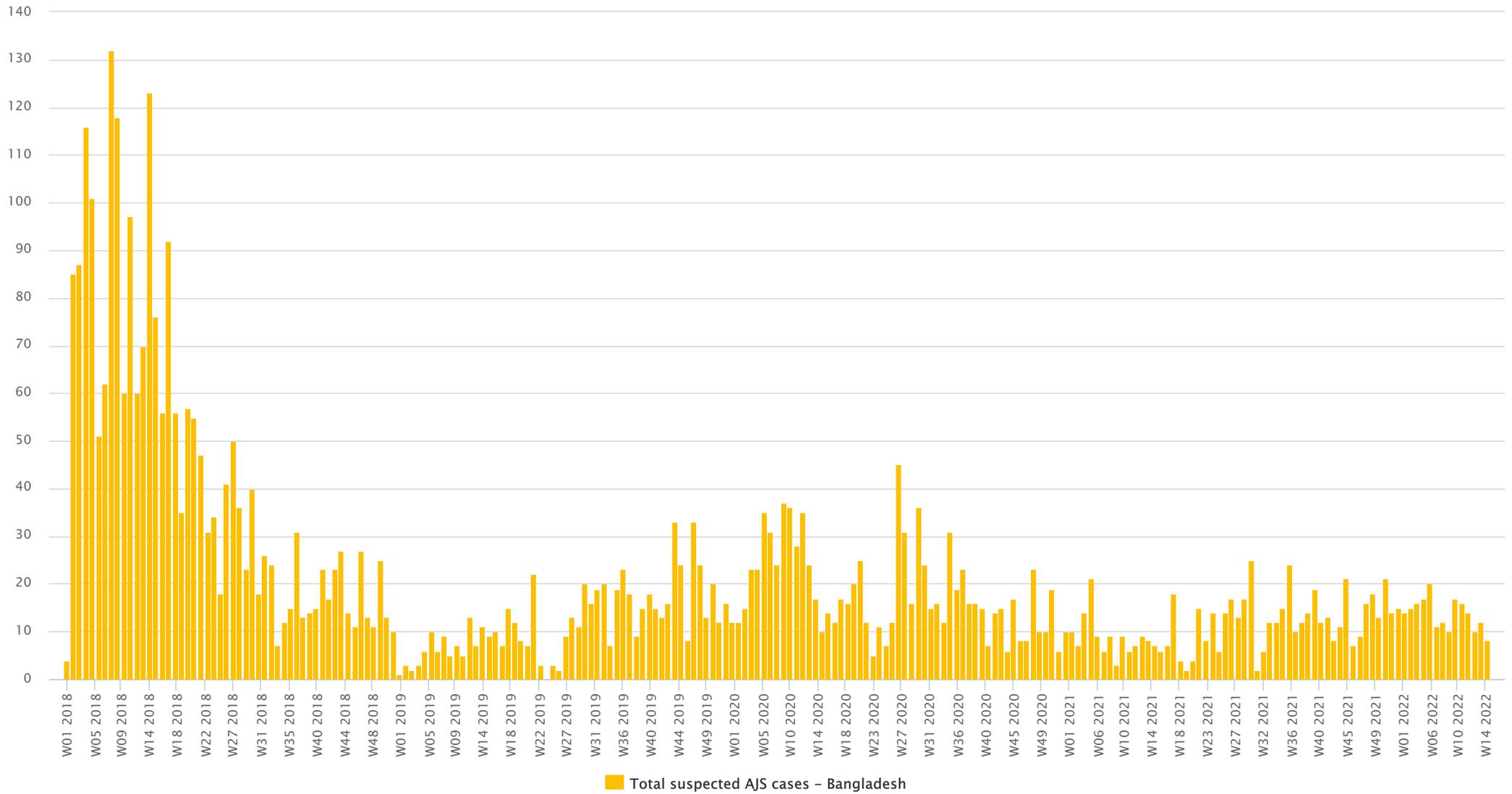
Total suspected AJS cases – Bangladesh

Acute Jaundice Syndrome | Maps and Alert Management

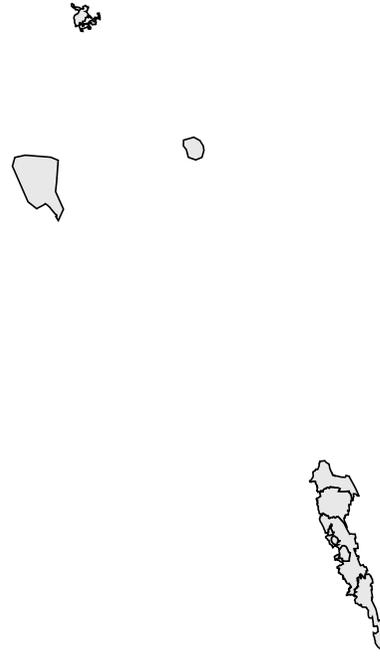**Map 3** | Map of cases by camp (W37 2017 - W14 2022)

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

0 1 10 20 50

Number of alerts

0 1 10
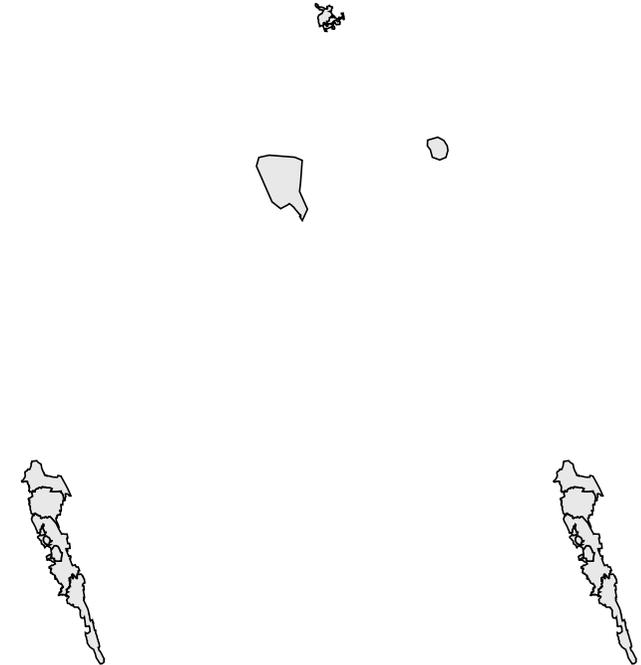
Alert threshold

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

Alert management (W14 2022)

1 Alerts	**100%** Verified	**0** Low Risk	**0** Moderate Risk	**0** High Risk	**0** Very High Risk
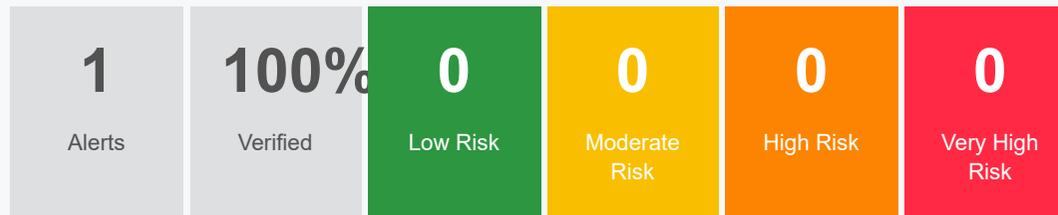
Figure | % sex

Female

Figure | % age

>= 5

World Health Organization

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Acute Watery Diarrhoea | Trends

Figure 6 | Trend in number of cases over time (W38 2017 - W14 2022)
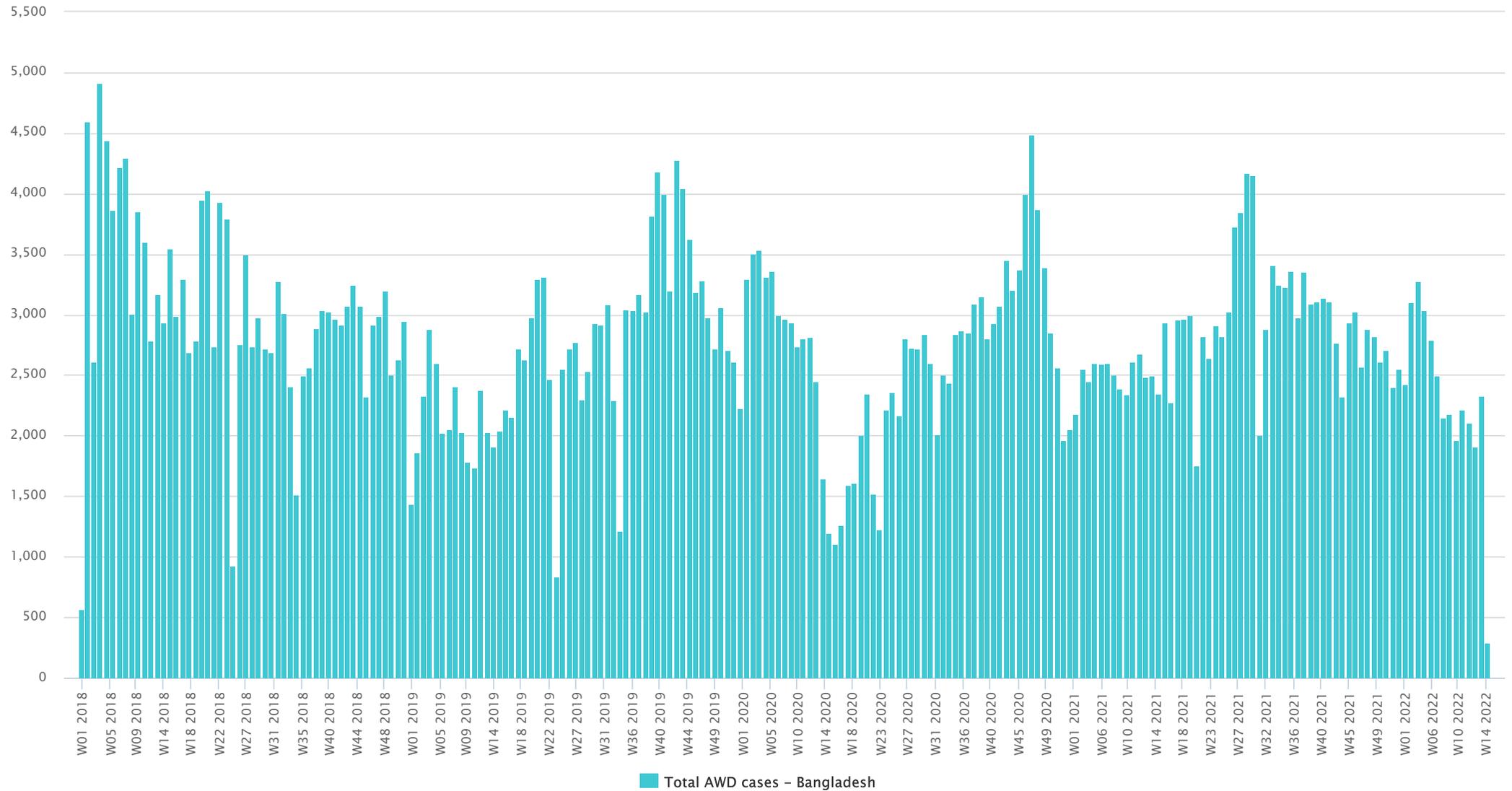
Total AWD cases – Bangladesh

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Dengue | Trends

Figure 7 | Trend in number of cases over time (W38 2017 - W14 2022)

Legend: Total Dengue Cases – Suspected – Bangladesh ■ Total Dengue Cases – Confirmed – Bangladesh

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

0   1   100   200   500

Number of alerts

0   1   10

Alert threshold
Twice the average number of cases over the past 3 weeks. *Source: IEDCR*
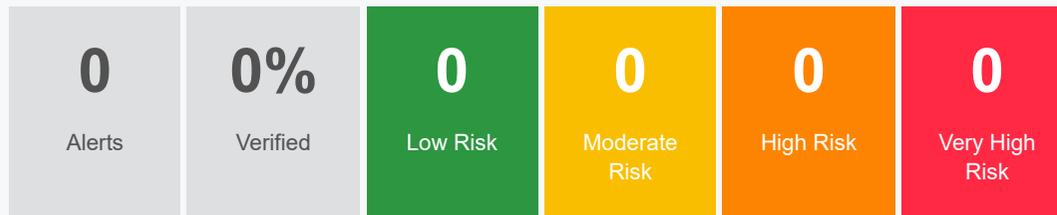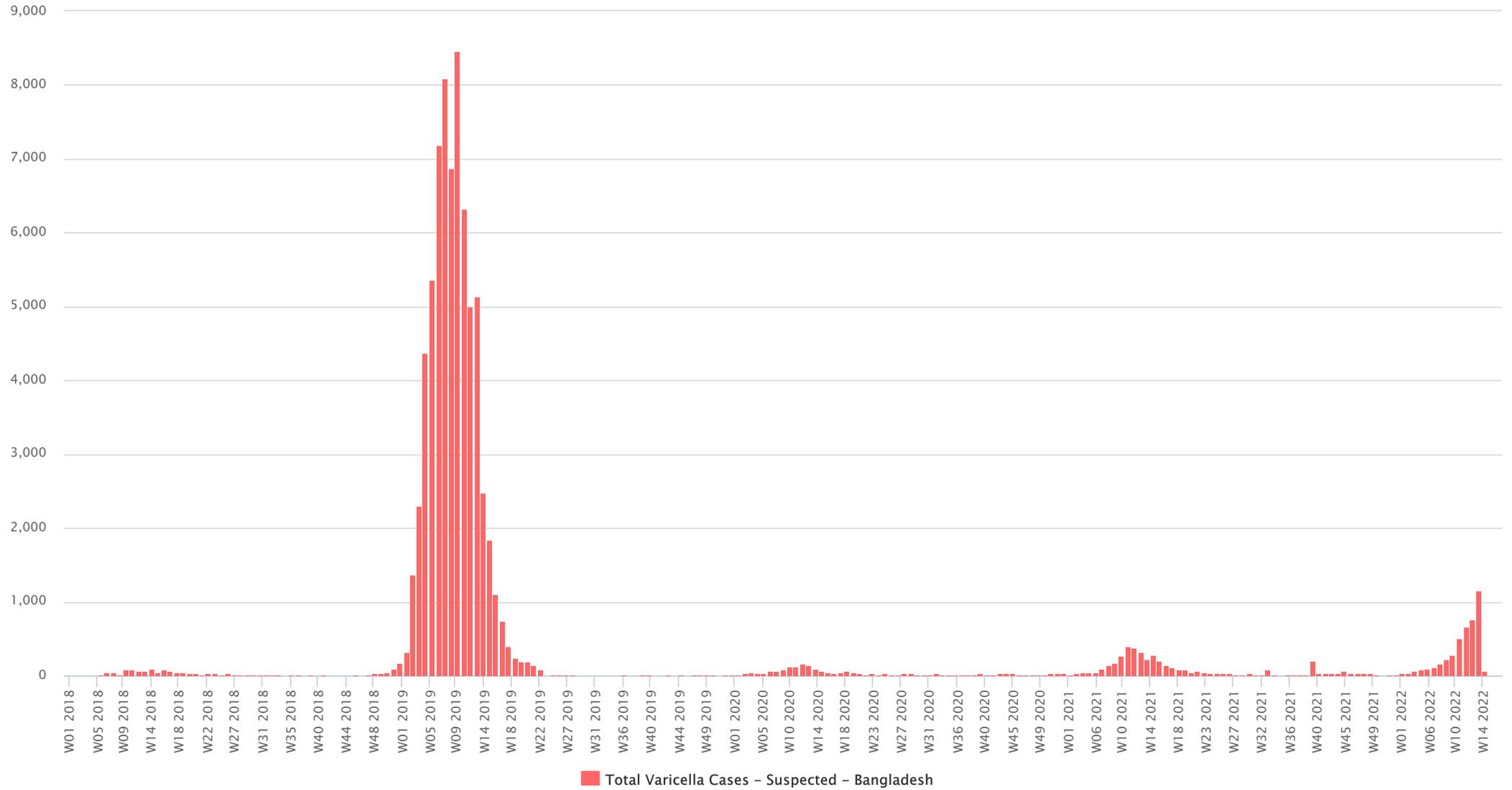
Alert management (W14 2022)

0	0%	0	0	0	0
Alerts	Verified	Low Risk	Moderate Risk	High Risk	Very High Risk

Figure | % sex

No data in chart

Figure | % age

No data in chart

World Health Organization

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Figure 7 | Trend in number of cases over time (W38 2017 - W14 2022)

Total Varicella Cases – Suspected – Bangladesh

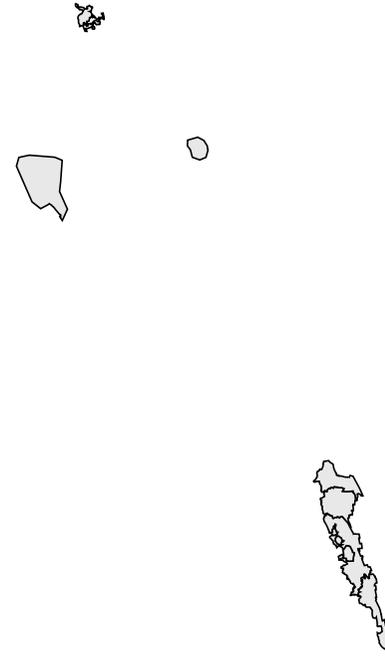**Map 4** | Map of cases by camp (W37 2017 - W14 2022)
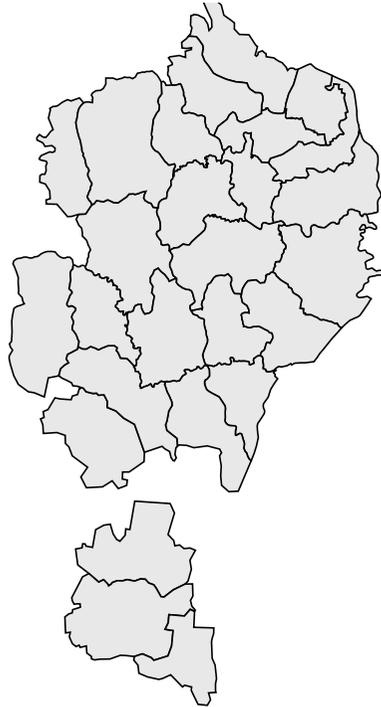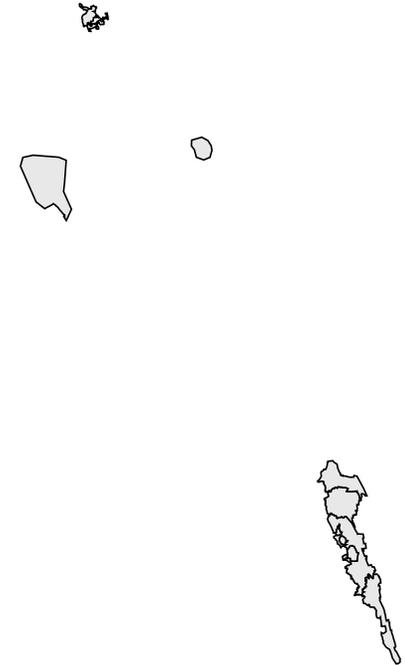
a. Ukhia | Number of cases
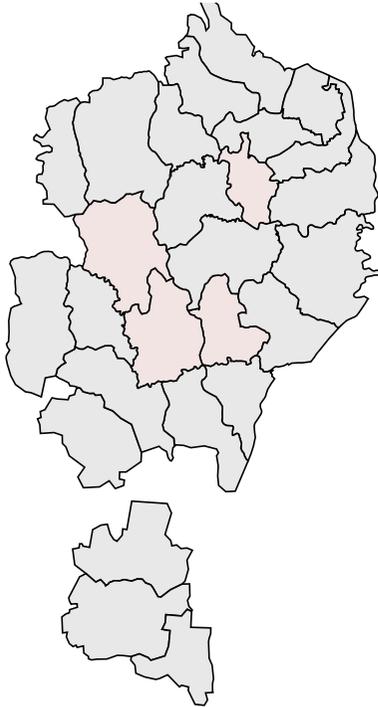
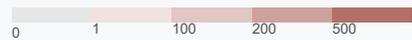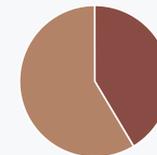**c. Teknaf** | Number of cases

Map legend

Number of cases

0   1   100   200   500

Figure | % sex

■ Male   ■ Female

Figure | % age

■ >= 5   ■ < 5

World Health Organization

HEALTH SECTOR COX'S BAZAR

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