



Epidemiological Highlights

Week 27 (29 June- 05 July 2020)



**World Health
Organization**

Highlights:

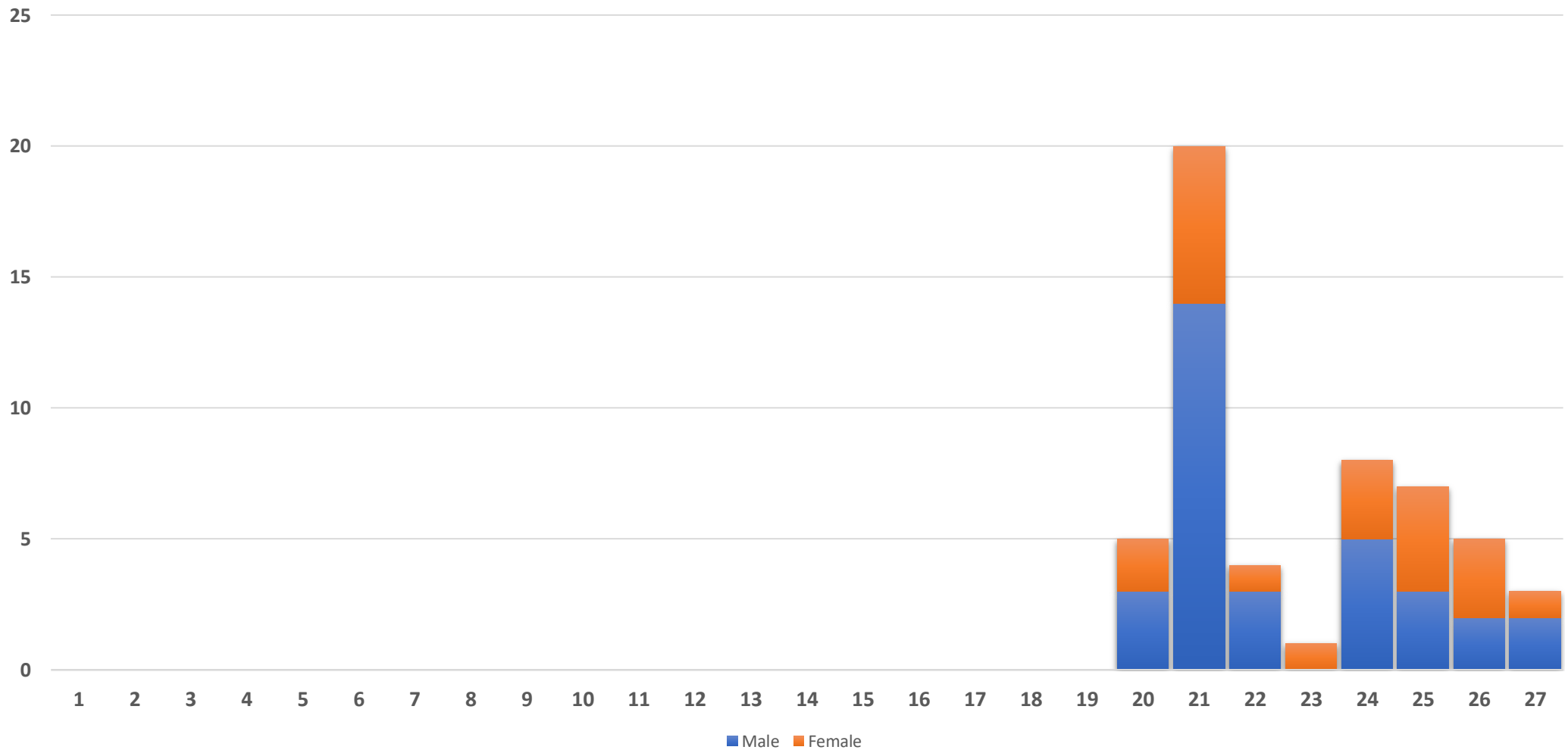
COVID-19 update among Host Population and FDMN/Rohingya Refugee* in Cox's Bazar

Number of test conducted (in last 24 hours):	16,920 (283)	Host Population Total (in last 24 hours)	FDMN/Rohingya Refugee Total (in last 24 hours)
Number of confirmed case (in last 24 hours):	2,829 (51)		
Number of tests conducted		16,220 (258)	700 (25)
Number of confirmed cases		2,776 (50)	53 (1)
Case in isolation		1,404 (50)	30 (1)
Case recovered		1,337 (46)	13 (0)
Death		35 (0)	5 (0)
Quarantine contd.		1,822 (18)	7 (0)

*The Government of Bangladesh refers to Rohingya as "Forcibly Displaced Myanmar Nationals". The UN system refers to this population as Rohingya refugees, in line with the applicable international framework. In this document both terms are used, as appropriate, to refer to the same population.

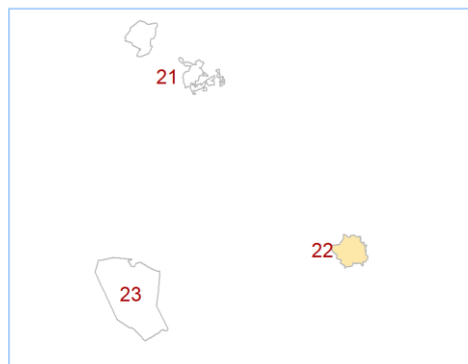
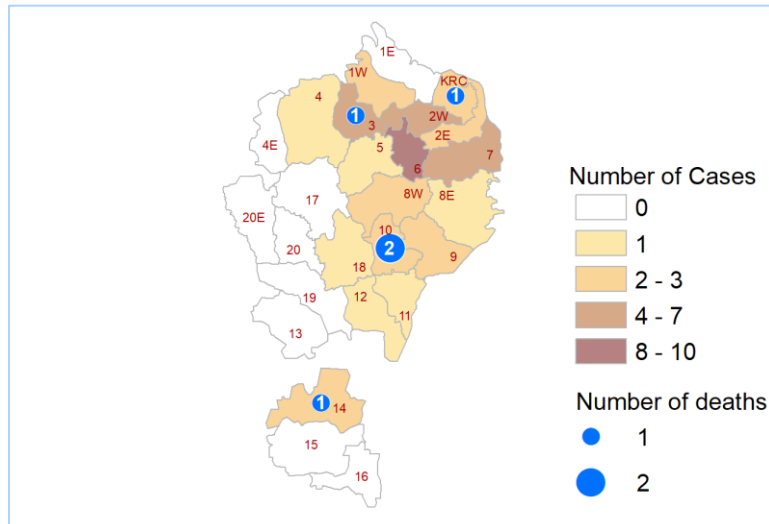
Highlights:

Epi Curve of COVID-19 positive cases among FDMN/Rohingya Refugees (n=53)

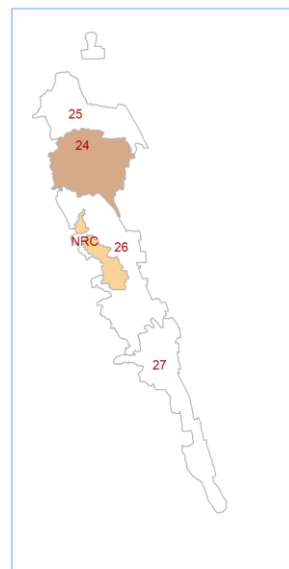


Highlights:

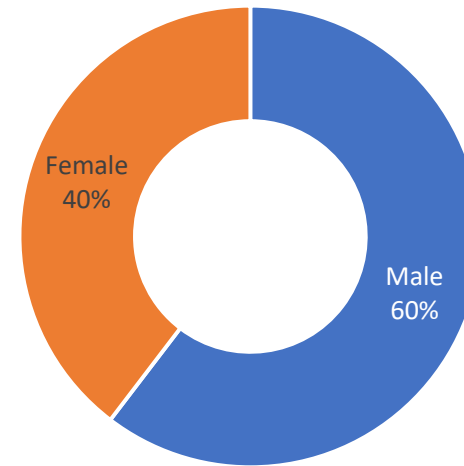
COVID-19 Cases in Rohingya Camps (As of 05 July 2020)



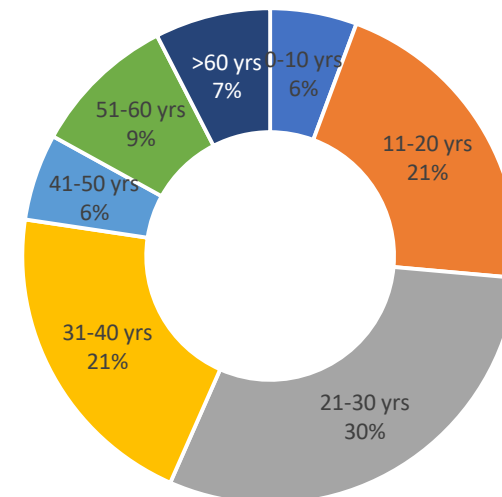
53 Confirmed cases
in FDMN/Rohingya
Refugee Camps



Sex Distribution (%) (n=53)

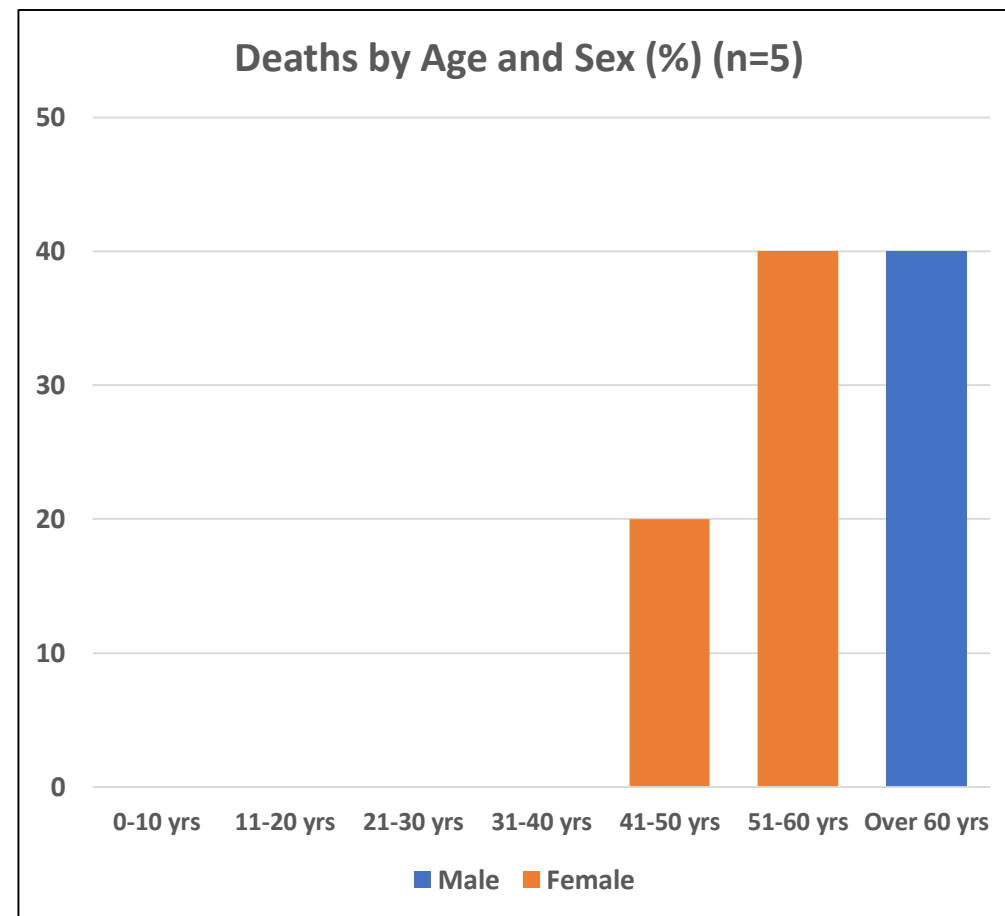
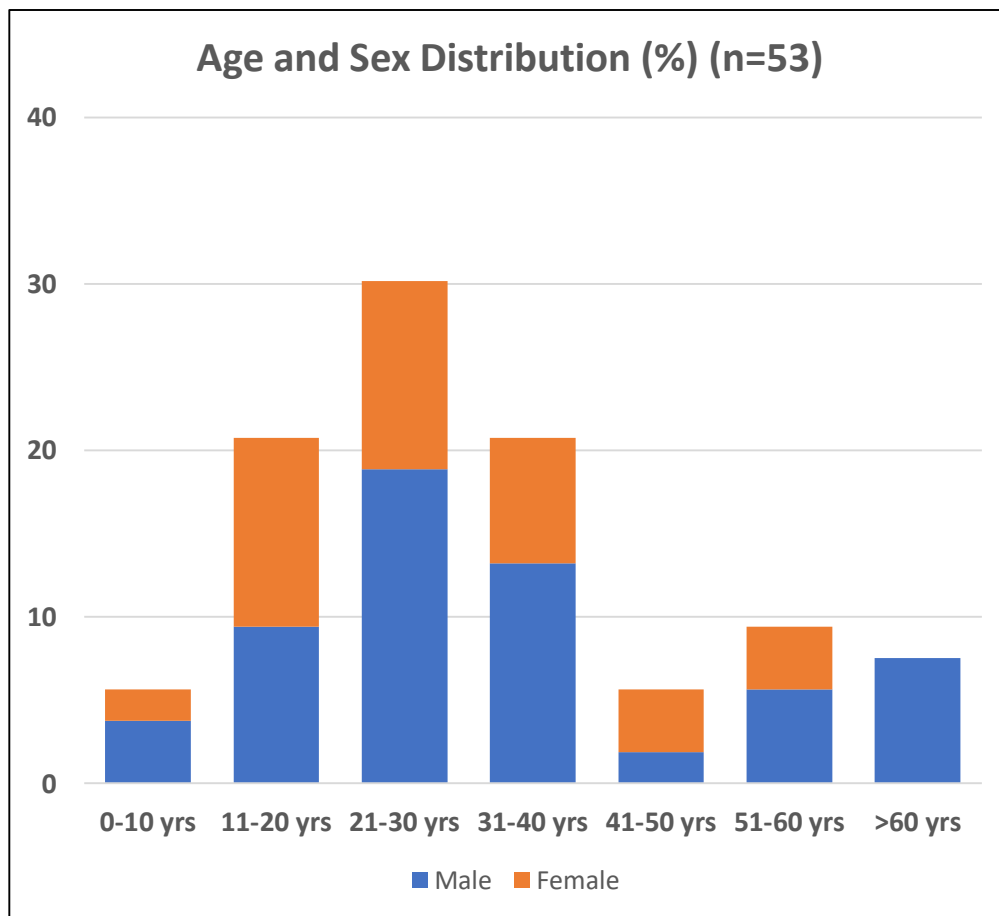


Age Group (%) (n=53)



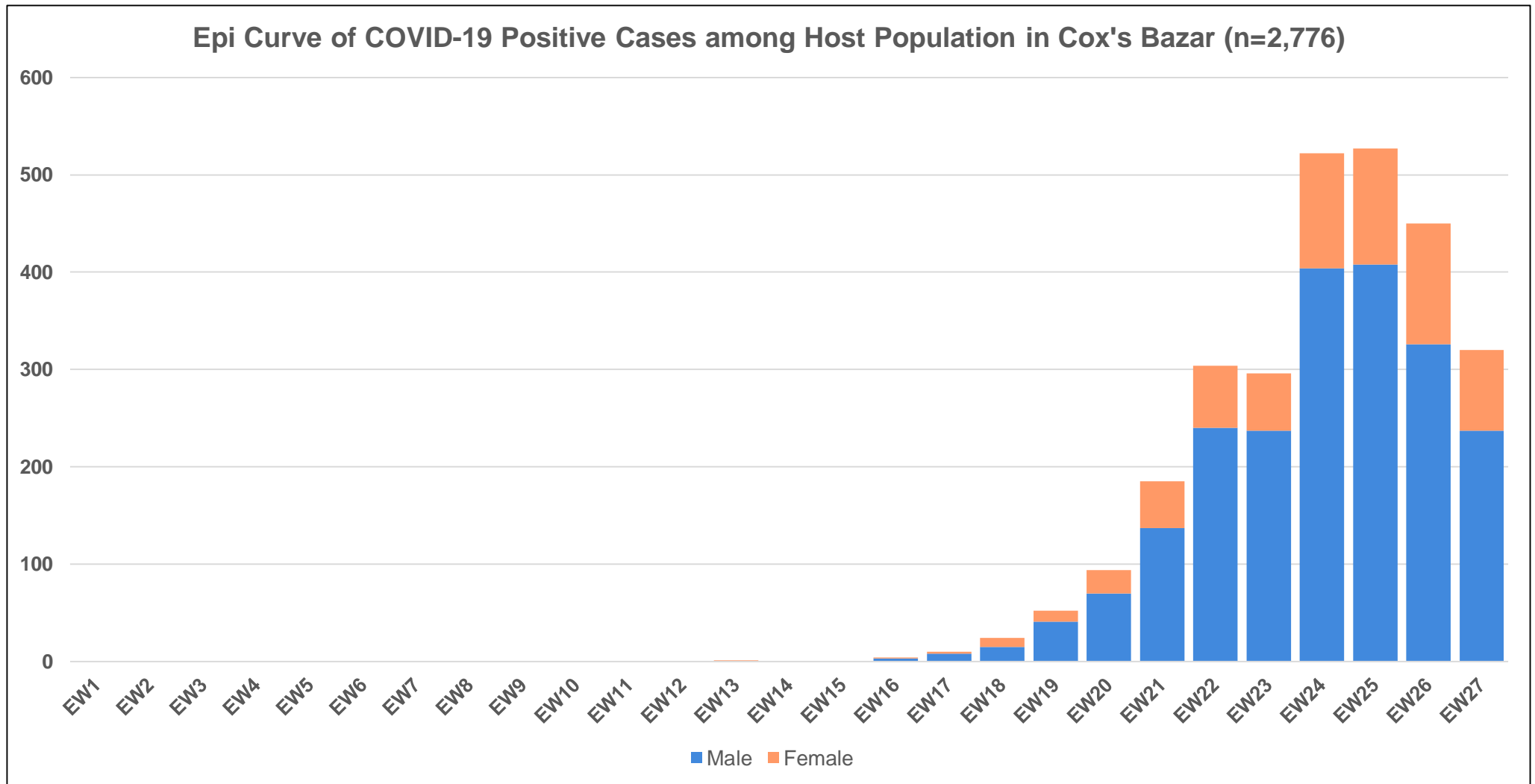
Highlights:

COVID-19 update of Laboratory Confirmed Cases and Deaths among FDMN/Rohingya Refugees



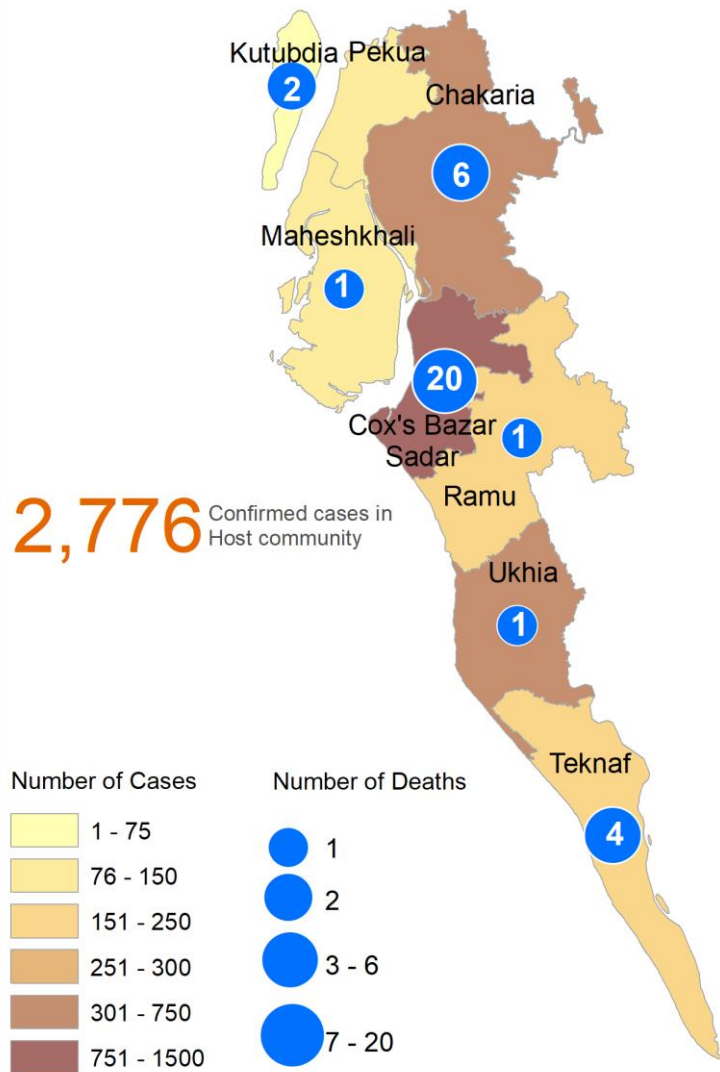
The average age is 62.2 (50-71 years)

Highlights:

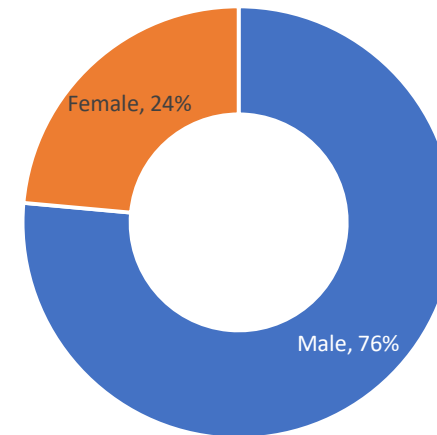


Highlights:

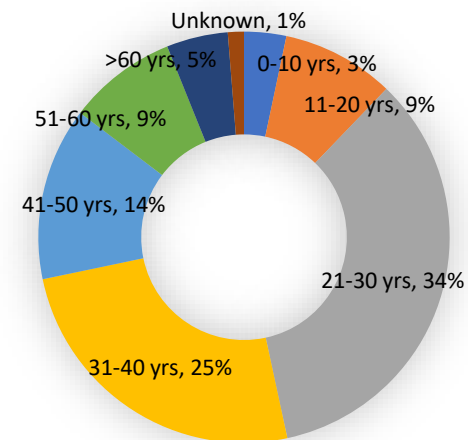
COVID-19 Cases in Cox's Bazar District (As of 05 July 2020)



Sex Distribution (%) (n=2,776)

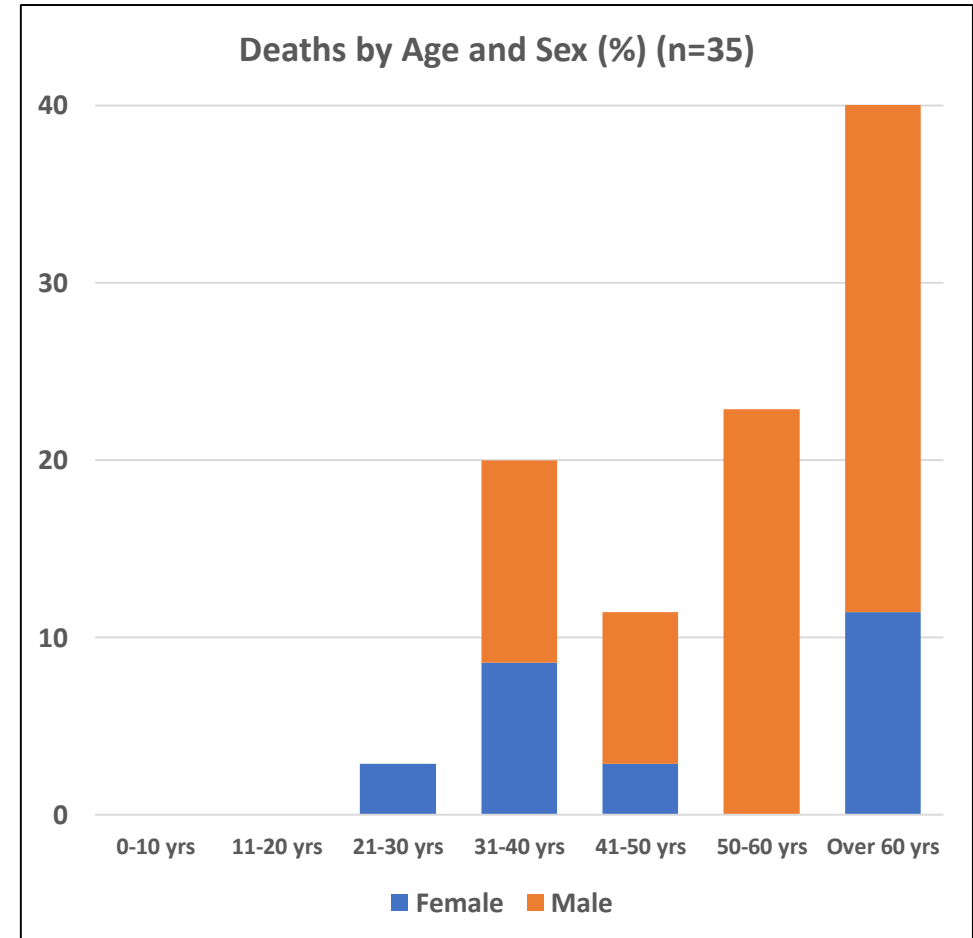
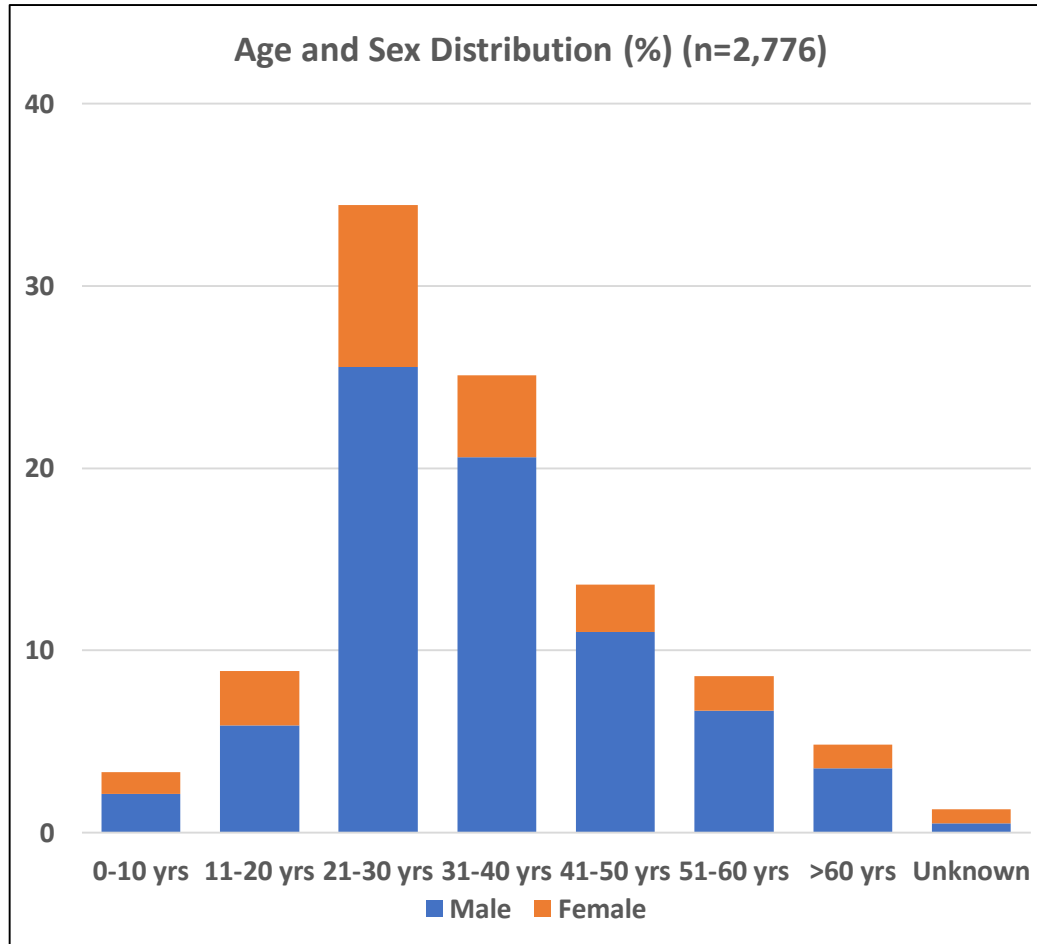


Age Group (%) (n=2,776)



Highlights:

COVID-19 Update of Laboratory Confirmed Cases and Deaths among Host Population in Cox's Bazar



Highlights:

- Acute Respiratory Infection (14.3%), Diarrheal Diseases (7.1%) & Unexplained Fever (2.1%) are the diseases with highest proportional morbidity in week 27.
- Total consultation is significantly dropped over 50% in last 3 months. Out of total consultation, ARI contributed 14.3% in week 27 decreased from 26.4% in week 12.
- Two third reduction of total ARI consultation indicates changes in specific health seeking behavior of refugee population.
- Community-based mortality surveillance has included SARI death in weekly reporting. Three (03) SARI death has been reported so far.

EWARS Reporting Updates

- Total 143/166 (86%) health facilities registered in EWARS
- Only 114/143 weekly reports received in week 27.
- Completeness and Timeliness for this week is 79%.
- Total 57 alerts were triggered in week 27.
- All alerts were reviewed and verified by WHO EWARS team which is less than as of previous week (76 in week 26).

Diphtheria

No diphtheria case reported in go.data in week 27

A total of 9 122 case-patients were reported since 2017 to till date

- Confirmed = 329
- Probable = 2785
- Suspected = 6008

Total Case reported in 2020 = 158

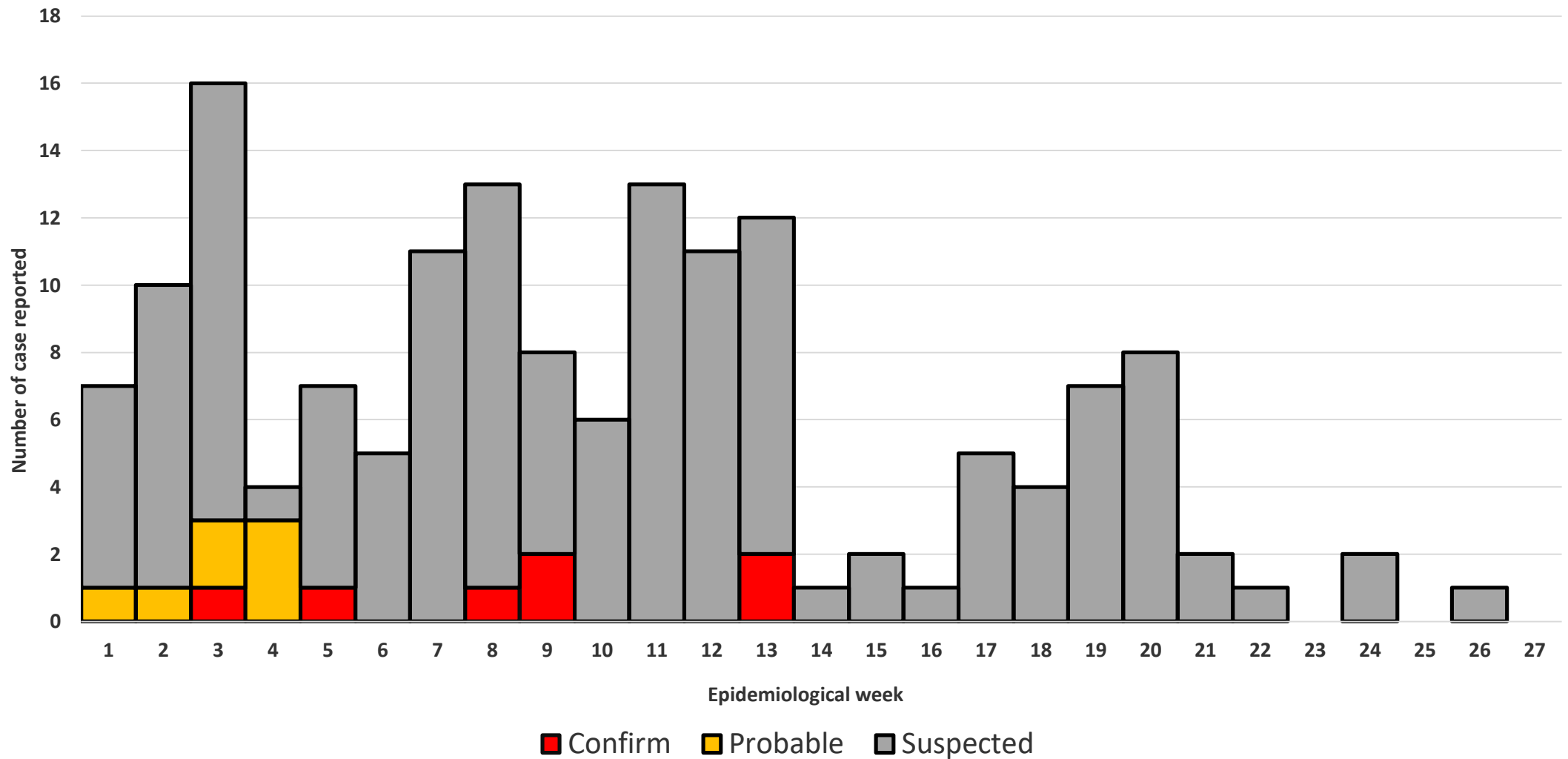
- Confirmed = 7
- Probable = 7
- Suspected = 144

Last confirmed case was reported in Week 13 (24 March 2020)

Total deaths reported is 47. Last death was reported on 25 October 2019

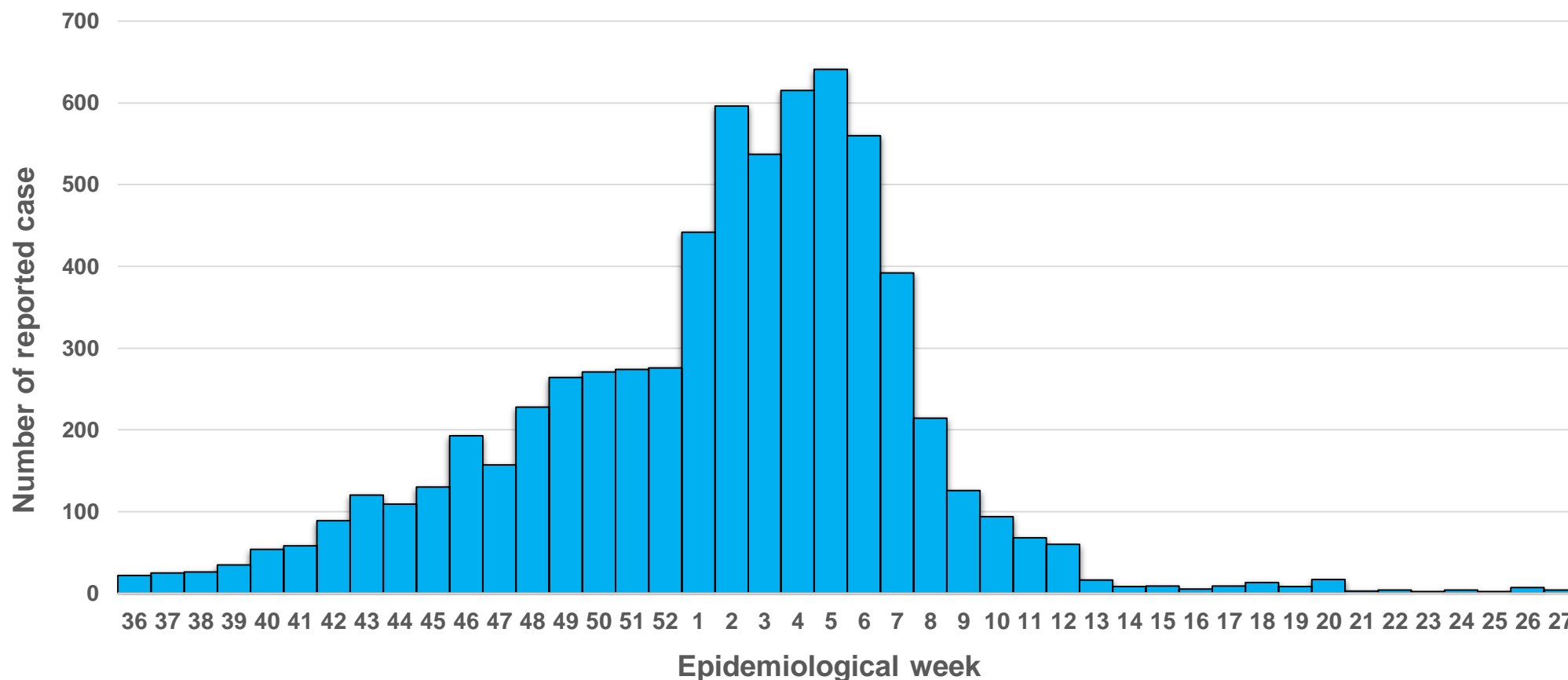
Diphtheria

Total number of diphtheria case reported in EWARS from week 1-27, 2020



Measles Update

Total number of Measles case reported in EWARS from week 36, 2019 to week 27, 2020



Total 7 suspected measles cases were reported through aggregated weekly reporting in EWARS in week 27. Aggregated weekly report: 4,424 and individual case report (CRF): 2,460 (56%) in 2020.

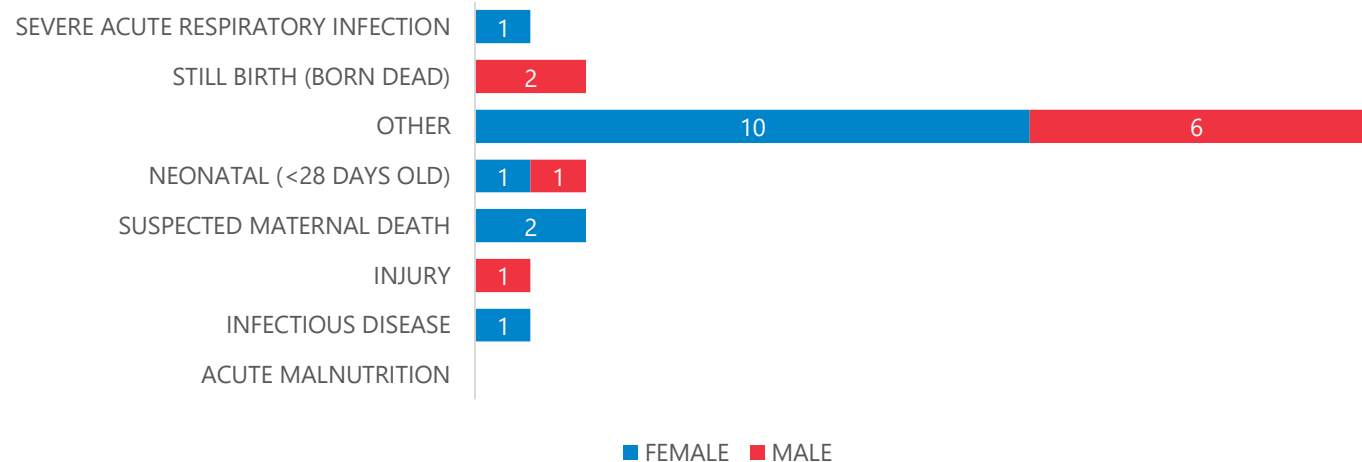
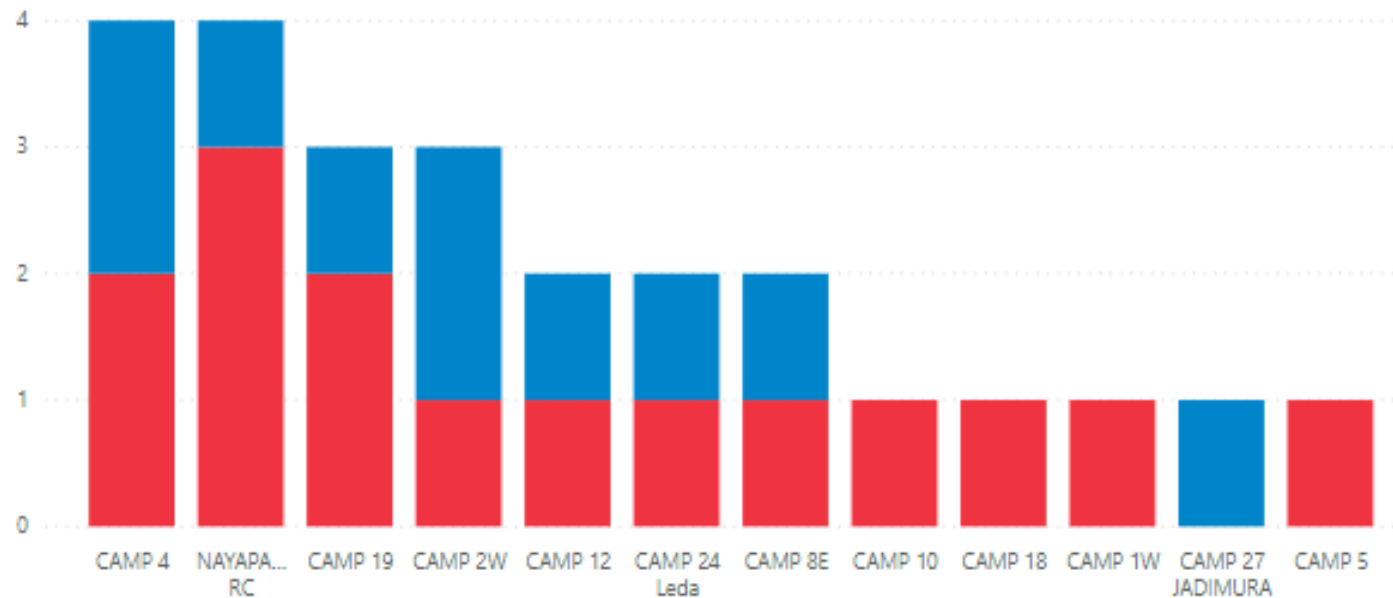
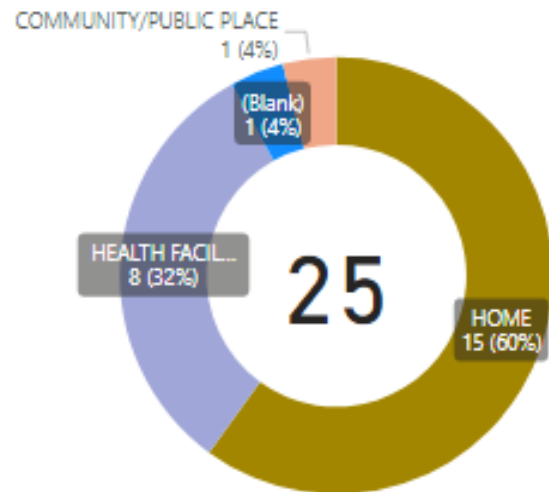
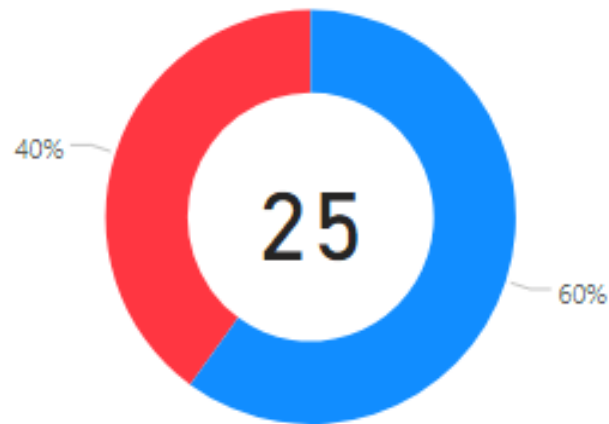
Diarrhoeal Disease

- A total 3 475 cases of diarrhoeal diseases reported in EWARS in week 27
- Among which 2489 cases (5.1%) reported as acute watery diarrhoea (AWD), 719 (1.5%) and 267 (0.5%) cases as other diarrhea and bloody diarrhea respectively.
- Diarrhoeal diseases are the second highest contributor of proportional morbidity after acute respiratory infection (ARI).

Community-based Mortality surveillance

- In week 27 total of 25 deaths were recorded due to 16 causes classified as “Others”, 2 still birth, 2 neonatal death, 1 infectious diseases, 2 suspected maternal death, 1 injury and 1 SARI death .
- Three mortality alert raised for women of reproductive age (12-49 years).
- Eight of deaths reported from health facility, 1 from community place and 15 from homes.
- We would like to urge donor agencies to inform their partners to report **all mortalities** into EWARS using the “Community-based mortality surveillance” form.

Community-based Mortality Surveillance



Bangladesh

Rohingya Emergency Response

Early Warning, Alert and
Response System (EWARS)

Epidemiological Bulletin W27 2020



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 W27 2020

Table 1 | Coverage

#	%	
854,704	-	Estimated total Rohingya population ¹
854,704	100%	Total population under surveillance
166	-	Total number of health facilities
143	86%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W27	Cumulative (2020)	
114	3693	Number of weekly reports received
79%	91%	Completeness
79%	82%	Timeliness

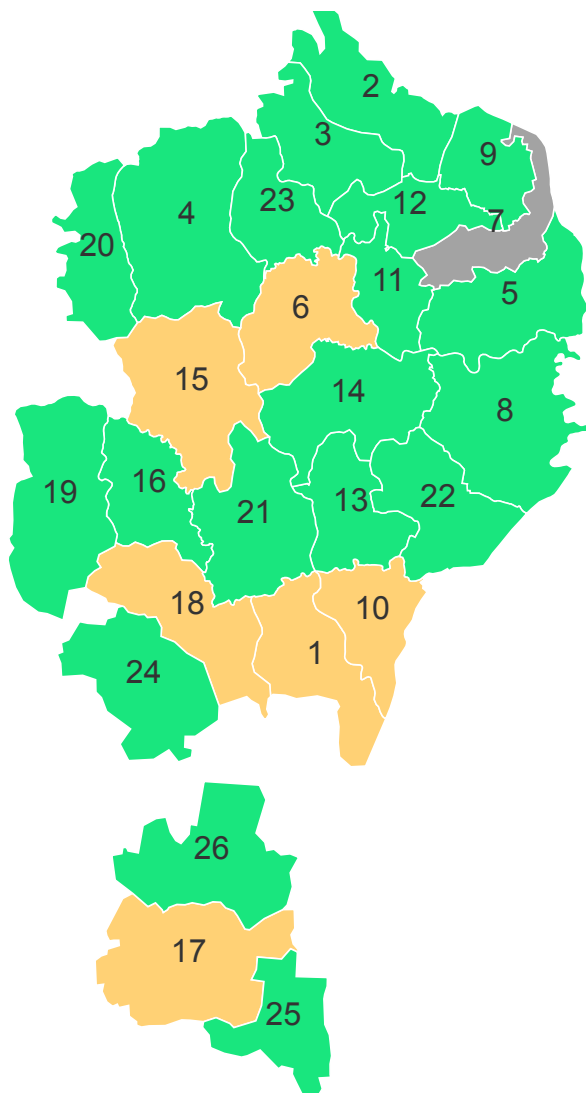
Table 3 Alert performance indicators

W27	Cumulative (2020)	
57	1,714	Total alerts raised
100%	100%	% verified
0%	0%	% auto-discarded
0%	0%	% undergoing risk assessment
0%	0%	% completed risk assessment

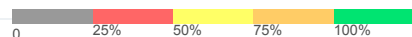
¹ Source: UNHCR. Bangladesh: Joint Government of Bangladesh- UNHCR Population Factsheet. 31 December 2019.

Map 1a | Ukhia completeness by camp

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

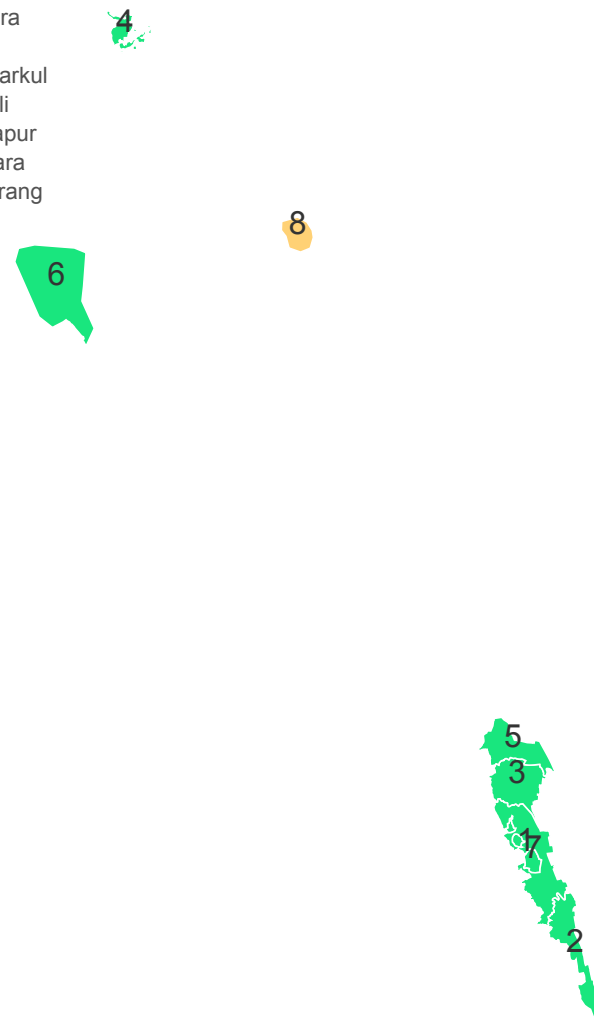


Completeness



Map 1b | Teknaf completeness by camp

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



Completeness

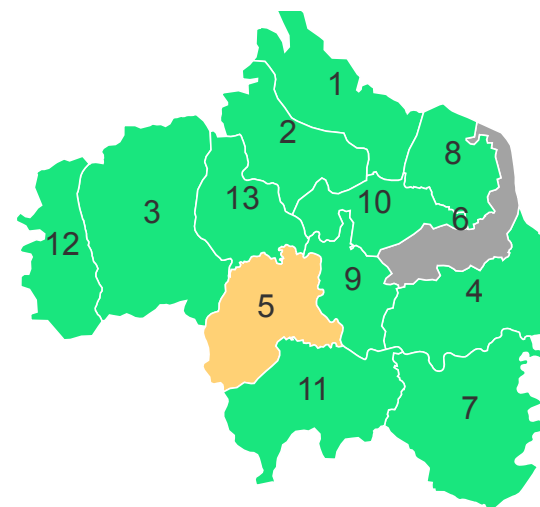


Table 4 | Performance by camp (W27 2020)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 1E	4	4	100%	100%
Camp 1W	3	3	100%	100%
Camp 2E	1	0	0%	0%
Camp 2W	2	2	100%	100%
Camp 3	6	6	100%	100%
Camp 4	6	5	80%	80%
Camp 4 Ext	1	1	100%	100%
Camp 5	4	2	50%	50%
Camp 6	2	2	100%	100%
Camp 7	5	5	100%	100%
Camp 8E	7	6	86%	86%
Camp 8W	7	6	86%	86%
Kutupalong RC	1	1	100%	100%

Map 2 | Completeness by camp

- 1 Camp 1E
- 2 Camp 1W
- 3 Camp 4
- 4 Camp 7
- 5 Camp 5
- 6 Camp 2E
- 7 Camp 8E
- 8 Kutupalong RC
- 9 Camp 6
- 10 Camp 2W
- 11 Camp 8W
- 12 Camp 4 Ext
- 13 Camp 3



Completeness



Table 5 | Performance by camp (W27 2020)

Southern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
Camp 10	4	4	100%	100%
Camp 11	9	5	56%	56%
Camp 12	7	4	67%	67%
Camp 13	8	7	88%	88%
Camp 14	6	5	83%	83%
Camp 15	11	6	60%	60%
Camp 16	5	4	80%	80%
Camp 17	5	3	60%	60%
Camp 18	5	4	80%	80%
Camp 19	5	3	60%	60%
Camp 20	3	3	100%	100%
Camp 20 Ext	1	1	100%	100%
Camp 9	7	5	83%	83%

Map 3 | Completeness by camp

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

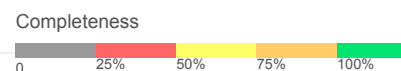
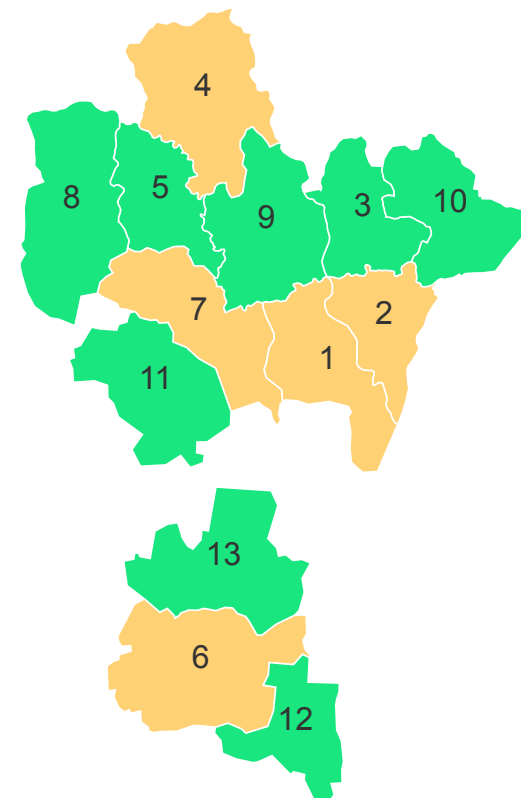
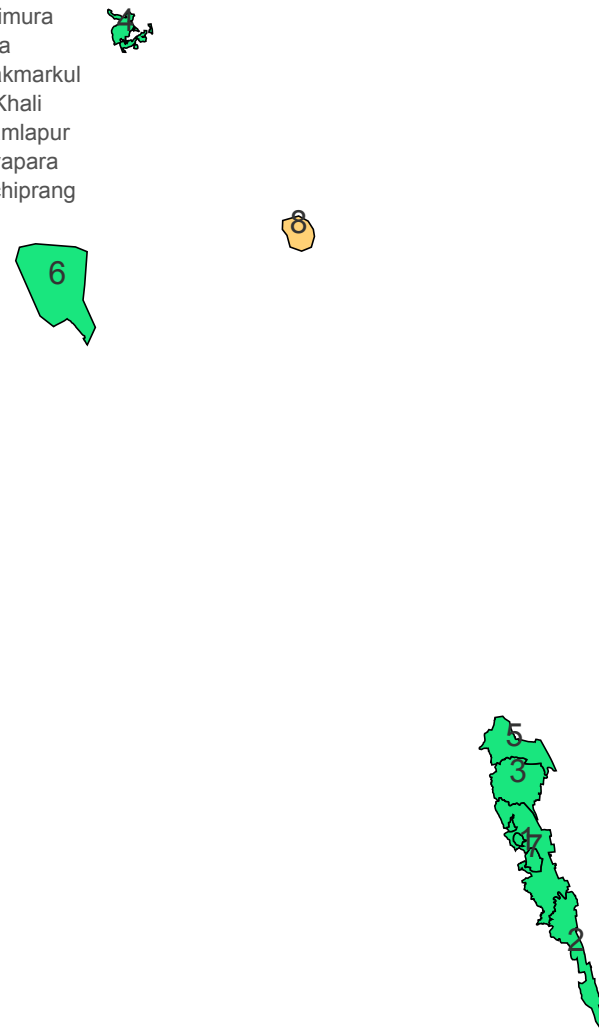


Table 6 | Performance by camp (W27 2020)

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

Map 4 | Completeness by camp

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



Completeness



Table 7 | Performance by partner (W27 2020)

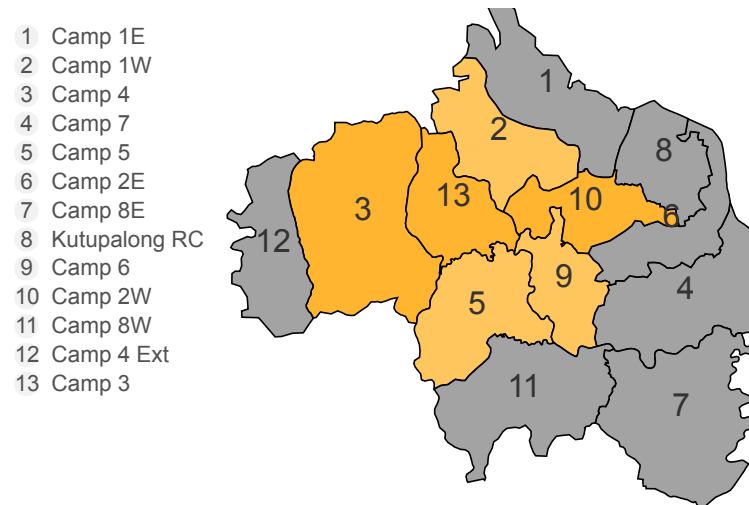
Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
BDRCS	8	2	25%	25%
BRAC	11	11	100%	100%
CARE	4	4	100%	100%
FHM	0	0		
FRNDS	12	11	92%	92%
GK	9	9	100%	100%
HMBDF	1	1	100%	100%
IOM	16	14	88%	88%
IRC	2	2	100%	100%
MSF	8	5	63%	63%
MoH	1	1	100%	100%
Hope	1	0	0%	0%
Medair	2	2	100%	100%

Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
FH/MTI	3	0	0%	0%
PHD	9	9	100%	100%
PWJ	1	1	100%	100%
RHU	3	3	100%	100%
RI	3	3	100%	100%
RTMI	9	7	78%	78%
SCI	9	8	89%	89%
TdH	1	1	100%	100%

Table 8 | Performance by camp

Northern group	W27		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 1E	0	0%	43	100%
Camp 1W	2	100%	27	100%
Camp 2E	0	0%	32	100%
Camp 2W	4	100%	41	100%
Camp 3	4	100%	139	100%
Camp 4	3	100%	115	100%
Camp 4 Ext	0	0%	11	100%
Camp 5	2	100%	94	100%
Camp 6	1	100%	20	100%
Camp 7	0	0%	37	100%
Camp 8E	0	0%	21	100%
Camp 8W	0	0%	68	100%
Kutupalong RC	0	0%	12	100%

Map 5 | Number of alerts by camp



of alerts



Table 9 | Performance by camp

Southern group	W27		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 10	2	100%	46	100%
Camp 11	3	100%	67	100%
Camp 12	1	100%	96	100%
Camp 13	11	100%	95	100%
Camp 14	1	100%	60	100%
Camp 15	5	100%	83	100%
Camp 16	2	100%	80	100%
Camp 17	1	100%	47	100%
Camp 18	3	100%	48	100%
Camp 19	0	0%	59	100%
Camp 20	1	100%	41	100%
Camp 20 Ext	0	0%	9	100%
Camp 9	5	100%	82	100%

Map 6 | Number of alerts by camp

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

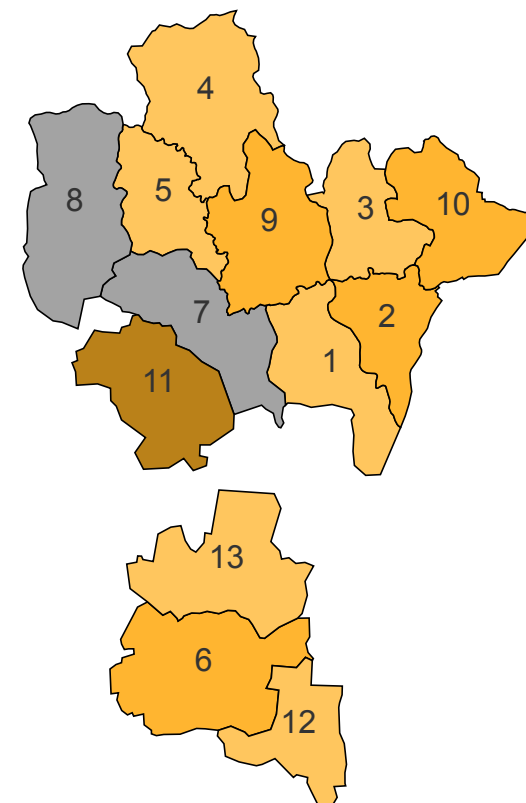


Table 10 | Performance by camp

Teknaf	W27		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 21 Chakmarkul	0	0%	37	100%
Camp 22 Unchiprang	1	100%	18	100%
Camp 23 Shamlapur	1	100%	24	100%
Camp 24 Leda	0	0%	16	100%
Camp 25 Ali Khali	0	0%	17	100%
Camp 26 Nayapara	0	0%	42	100%
Camp 27 Jadimura	0	0%	15	100%
Nayapara RC	1	100%	19	100%

Map 7 | Number of alerts by camp

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

of alerts



Table 11 | Performance by type of alert

Event	W27		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based surveillance				
Malaria	0	0%	0	0%
Measles	7	100%	680	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	5	100%
Meningitis	0	0%	10	100%
Haem. fever (susp.)	0	0%	8	100%
NNT	0	0%	1	100%
Unexp. fever	4	100%	122	100%
AWD	8	100%	167	100%
ARI	7	100%	148	100%
AJS	2	100%	63	100%
Varicella (Susp.)	0	0%	10	100%
Suspected COVID-19	0	0%	0	0%
Event-based surveillance				
EBS total	12	100%	123	100%

Table 12 | Risk assessment

W27	Cumulative (2020)	
0	0	Low risk
0	0	Moderate risk
0	0	High risk
0	0	Very high risk

For more help and support, please contact:

Dr. Shownam Barua
Medical Officer - Civil Surgeon Office (MO-CS)
Ministry of Health and Family Welfare
Cox's Bazar, Bangladesh

Telephone: +88 01723350483

Email: bshownam49@gmail.com

Dr. Md. Sabbir Hossain
Surveillance & Outbreak Officer
World Health Organization
Cox's Bazar, Bangladesh

Telephone: +88 017 1355 9987

Email: mds@who.int

Notes

WHO and the Ministry of Health and Family Welfare gratefully acknowledge all partners who have reported the data used in this bulletin.

The data been collected with support from the EWARS project. This is an initiative to strengthen early warning, alert and response in emergencies. It includes an online, desktop and mobile application that can be rapidly configured and deployed in the field. It is designed with frontline users in mind, and built to work in difficult and remote operating environments. This bulletin has been automatically published from the EWARS application.

More information can be found at <http://ewars-project.org>

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



Ministry of
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Welfare
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COX'S BAZAR



Global
EWARS

Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W27 2020



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Welfare Bangladesh



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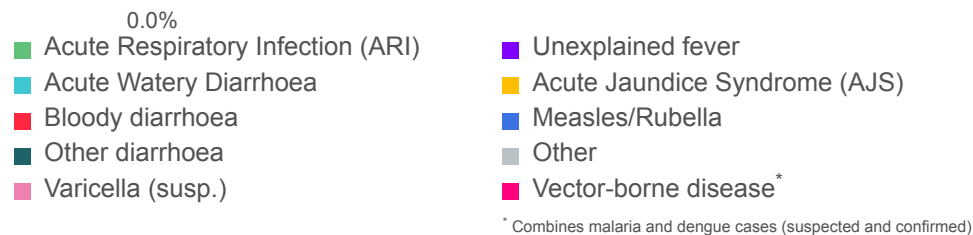
HEALTH SECTOR
COX'S BAZAR



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Proportional morbidity

Figure 1 | Proportional morbidity (W27 2020)



Disease	W27		2020	
	# cases	% morbidity	# cases	% morbidity
AWD	2,489	5.1%	67,341	4.5%
Bloody diarr.	267	0.5%	8,576	0.6%
Other diarr.	719	1.5%	25,483	1.7%
Susp. Varicella	29	0.1%	1,460	0.1%
ARI	6,980	14.3%	316,955	21.4%
Measles/Rub.	7	0.0%	4,424	0.3%
AFP	0	0.0%	5	0.0%
Susp. menin.	0	0.0%	33	0.0%
AJS	17	0.0%	542	0.0%
Susp. HF	0	0.0%	12	0.0%
Neo. tetanus	0	0.0%	1	0.0%
Adult tetanus	0	0.0%	1	0.0%
Malaria (conf.)	0	0.0%	6	0.0%
Malaria (susp.)	572	1.2%	2,555	0.2%
Dengue (conf.)	0	0.0%	1	0.0%
Dengue (susp.)	0	0.0%	4	0.0%
Unexpl. fever	1,041	2.1%	32,077	2.2%
Sev. Malnut.	10	0.0%	619	0.0%
Inj./Wounds	1,484	3.0%	40,046	2.7%
Other	35,085	72.0%	979,367	66.2%
Total	47,672	100%	1,480,042	100%

Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W27)

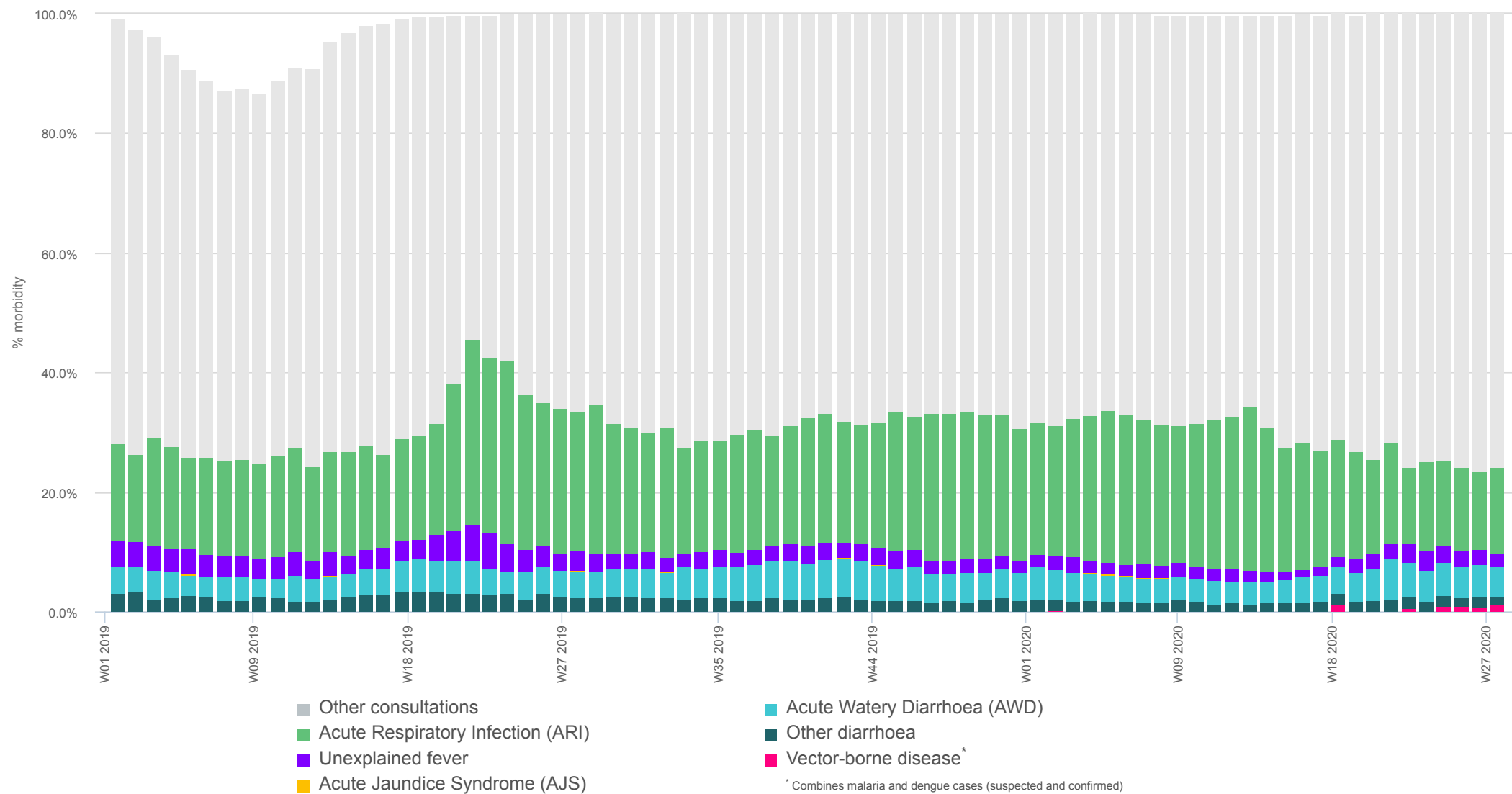
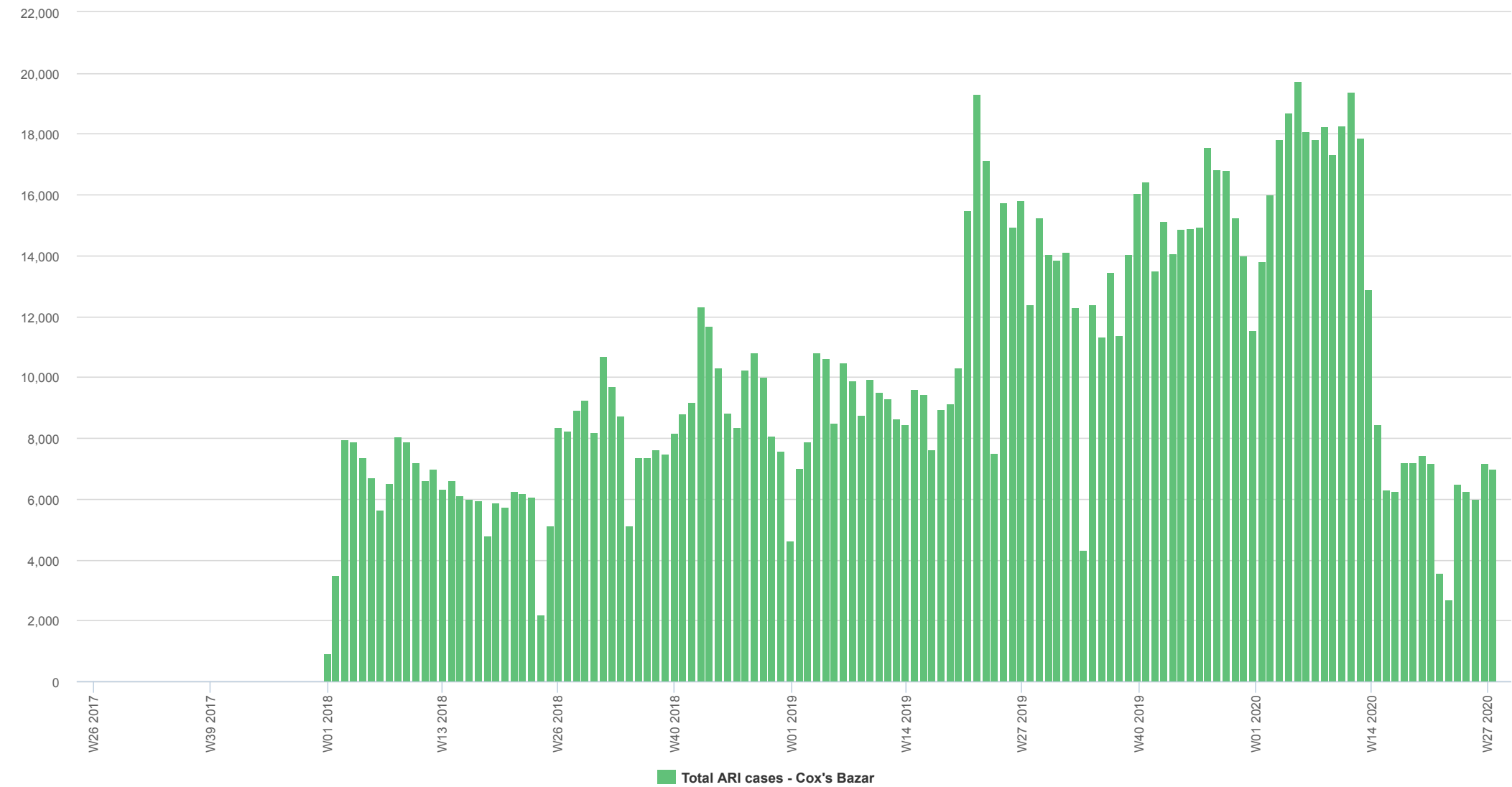
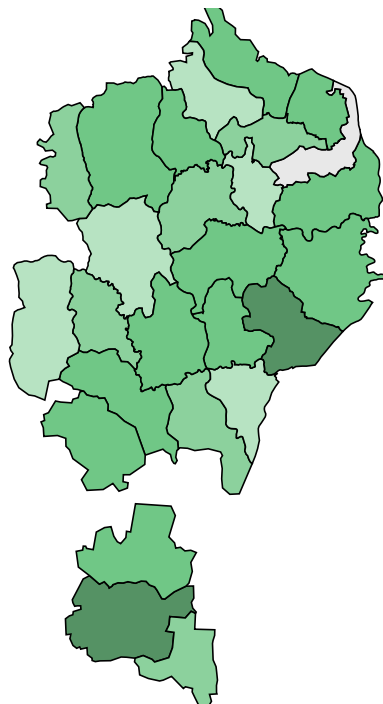


Figure 3 | Trend in number of cases over time (W38 2017 - W27 2020)

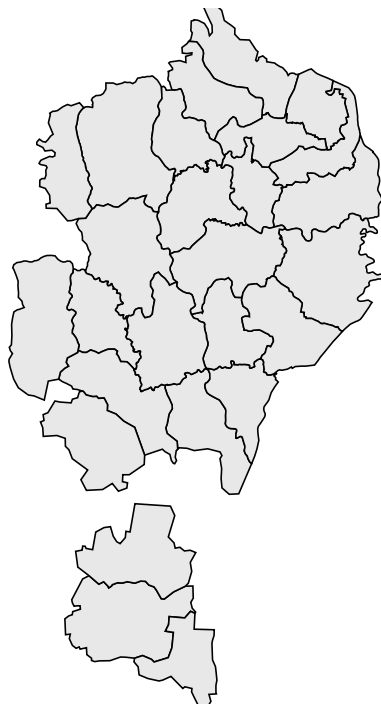


Map 1 | Map of cases by camp (W27 2020)

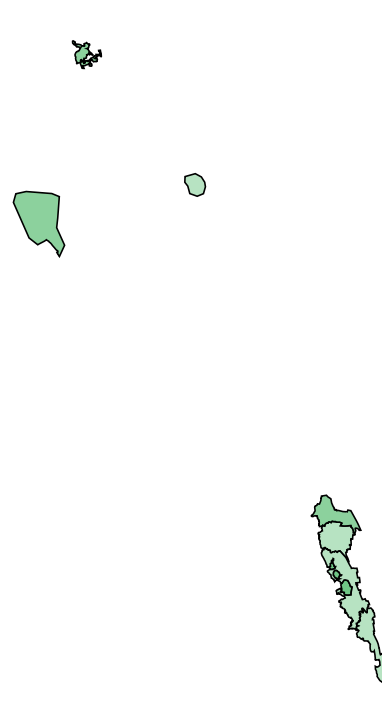
a. Ukhia | Number of cases



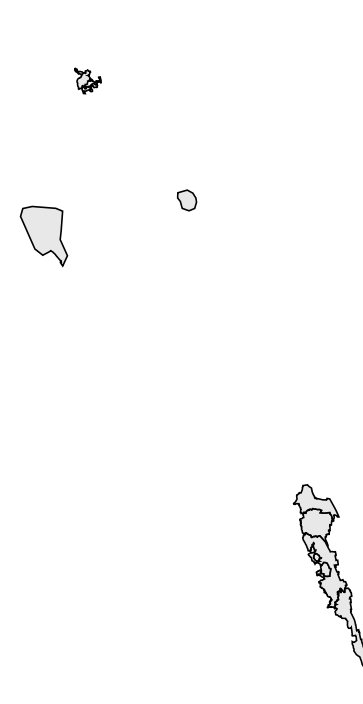
b. Ukhia | Number of alerts



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 (W27 2020)

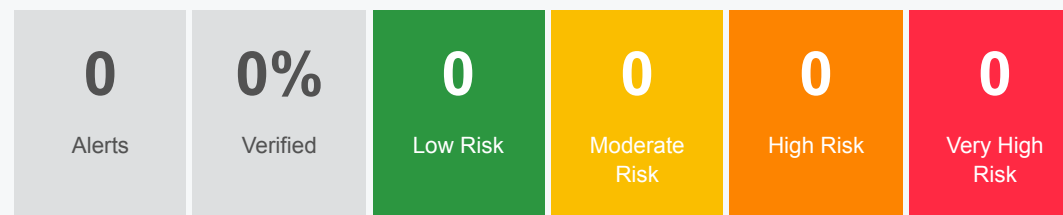


Figure | % sex

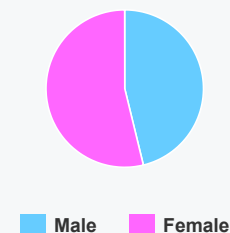


Figure | % age

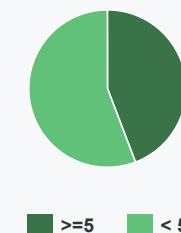
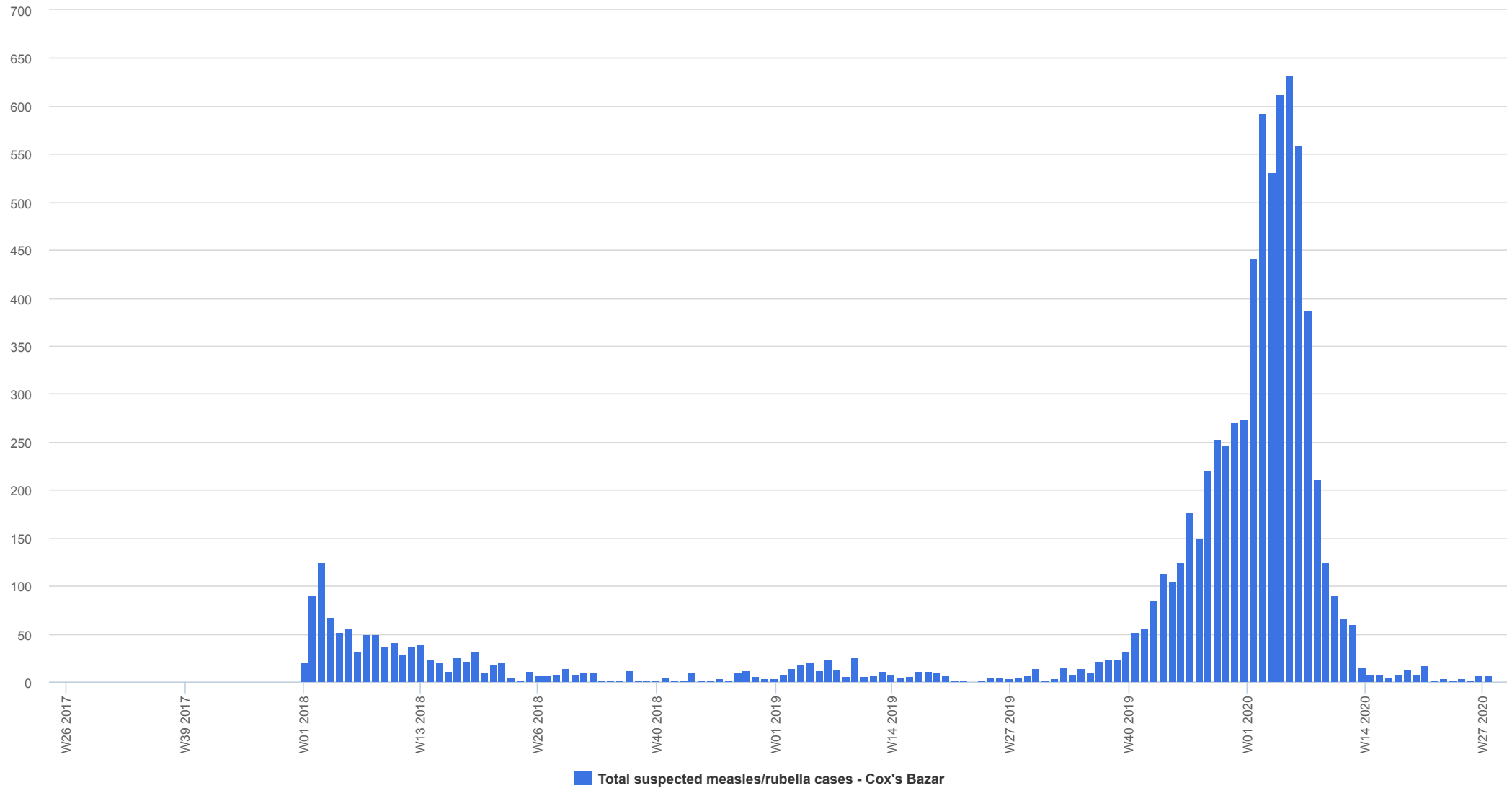
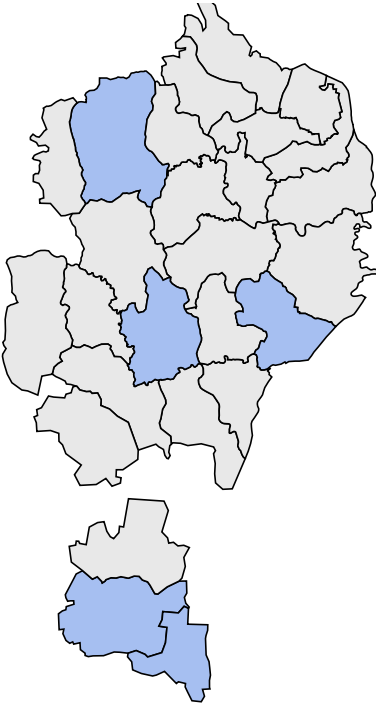


Figure 4 | Trend in number of suspected cases over time (W38 2017 - W27 2020)

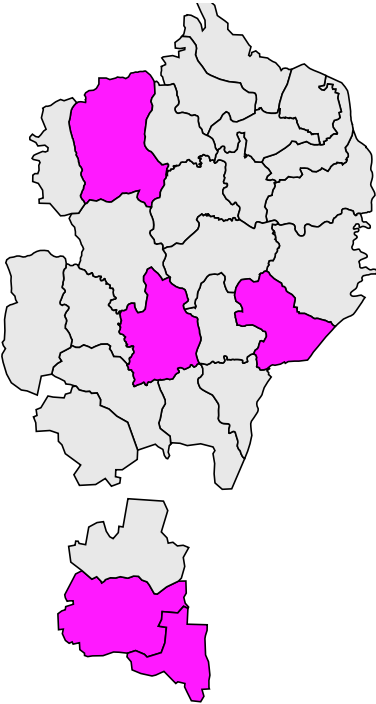


Map 2 | Map of cases by camp (W27 2020)

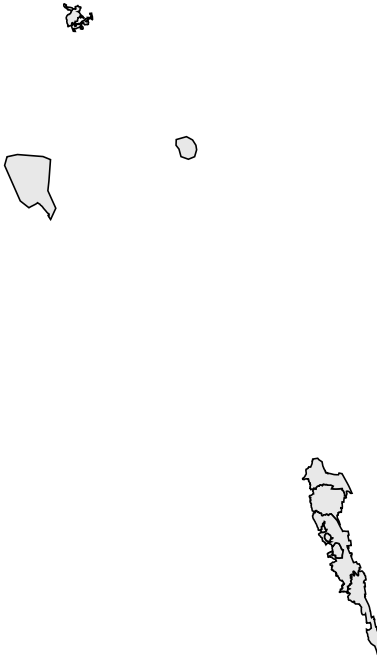
a. Ukhia | Number of cases



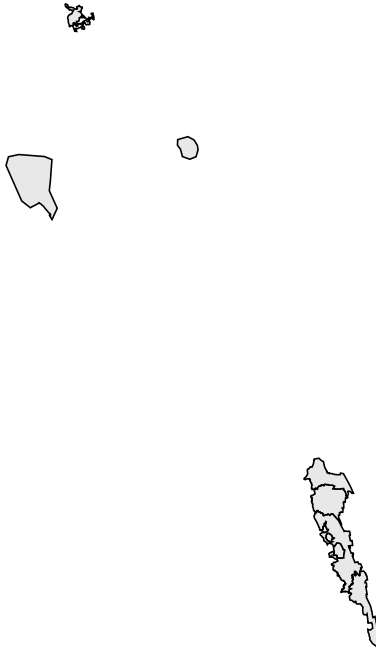
b. Ukhia | Number of alerts



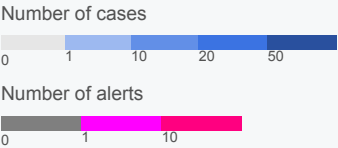
c. Teknaf | Number of cases



d. Teknaf | Number of alerts



Map legend



Alert threshold
1 case. Source: IEDCR

Alert management (W27 2020)

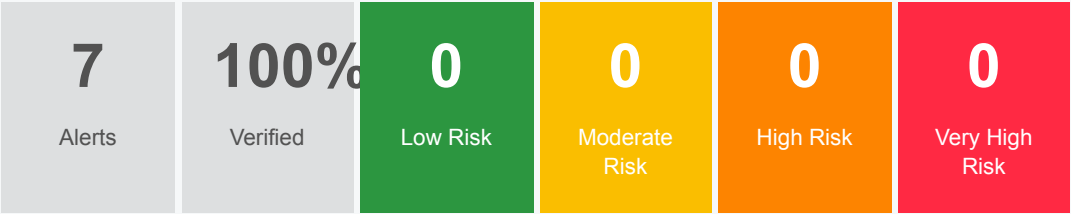


Figure | % sex

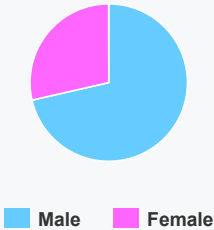


Figure | % age

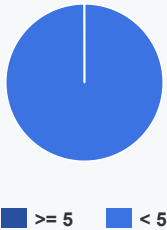
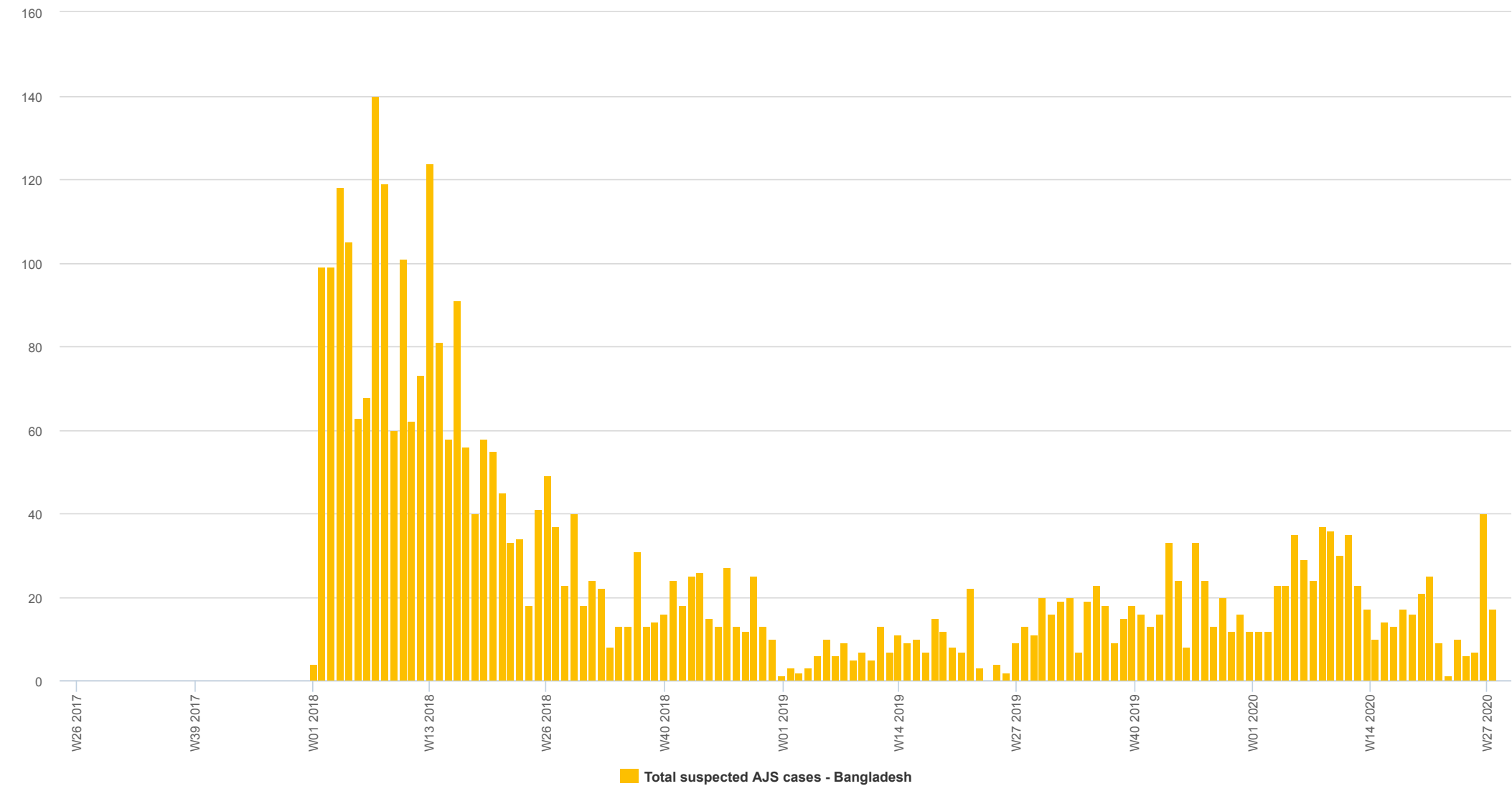
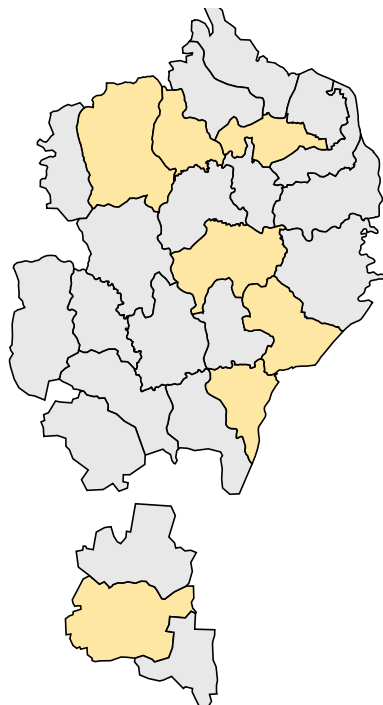


Figure 5 | Trend in number of cases over time (W38 2017 - W27 2020)

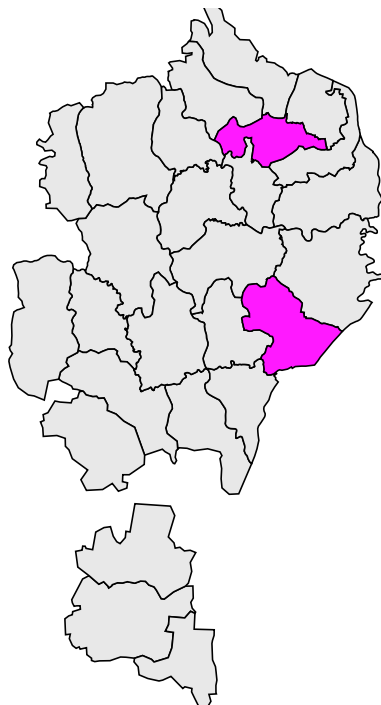


Map 3 | Map of cases by camp (W37 2017 - W27 2020)

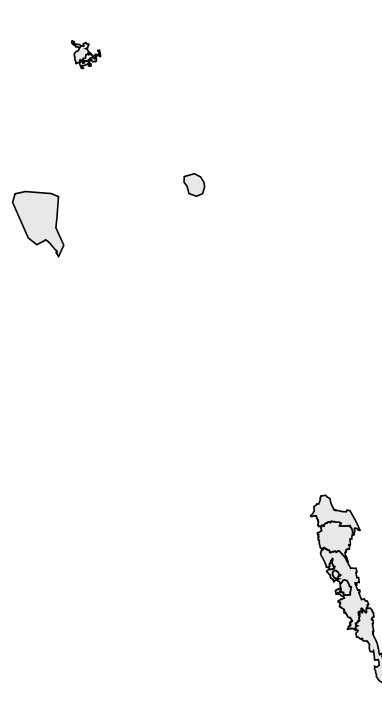
a. Ukhia | Number of cases



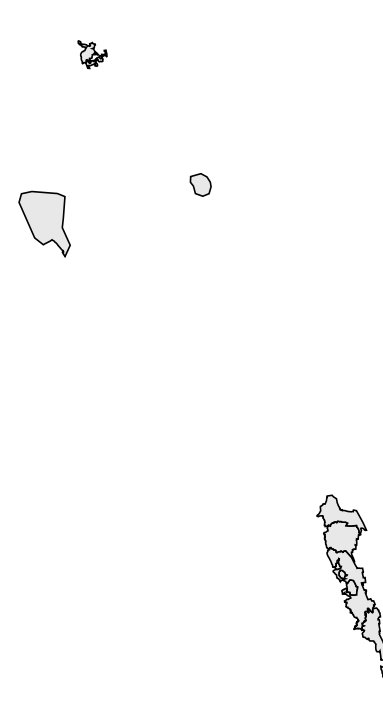
b. Ukhia | Number of alerts



c. Teknaf | Number of cases

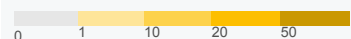


d. Teknaf | Number of alerts



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 (W27 2020)

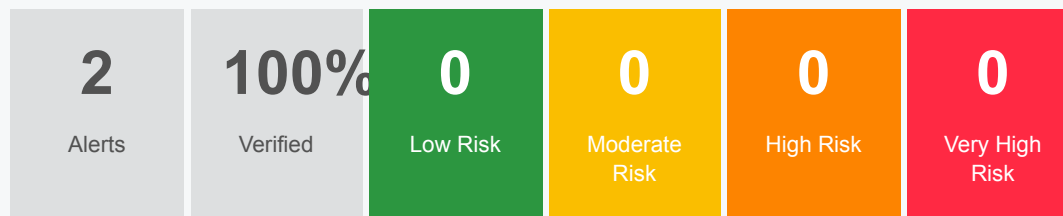
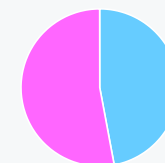
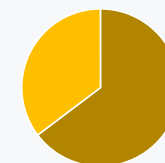


Figure | % sex



Male Female

Figure | % age



>= 5 < 5

Figure 6 | Trend in number of cases over time (W38 2017 - W27 2020)

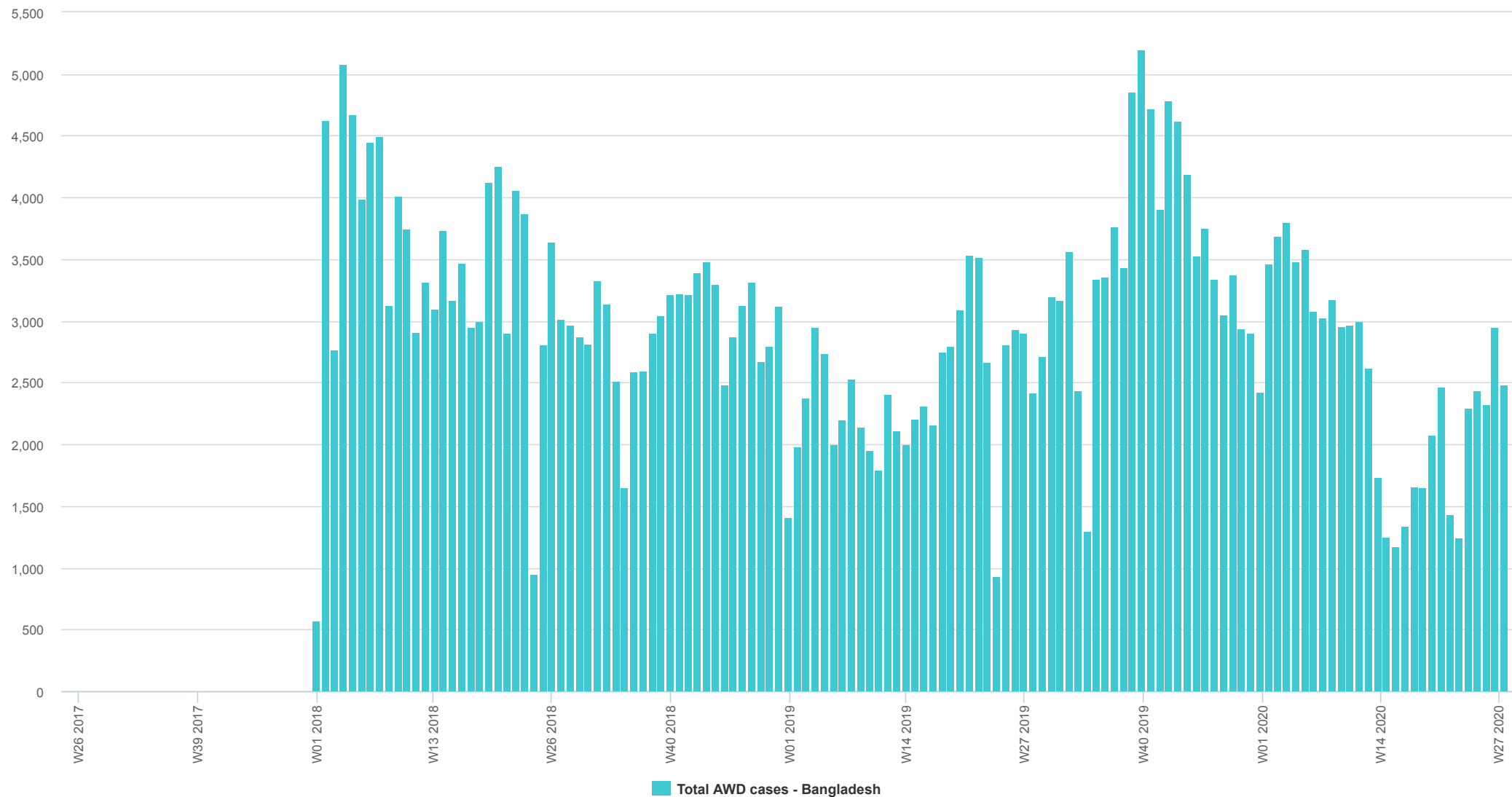
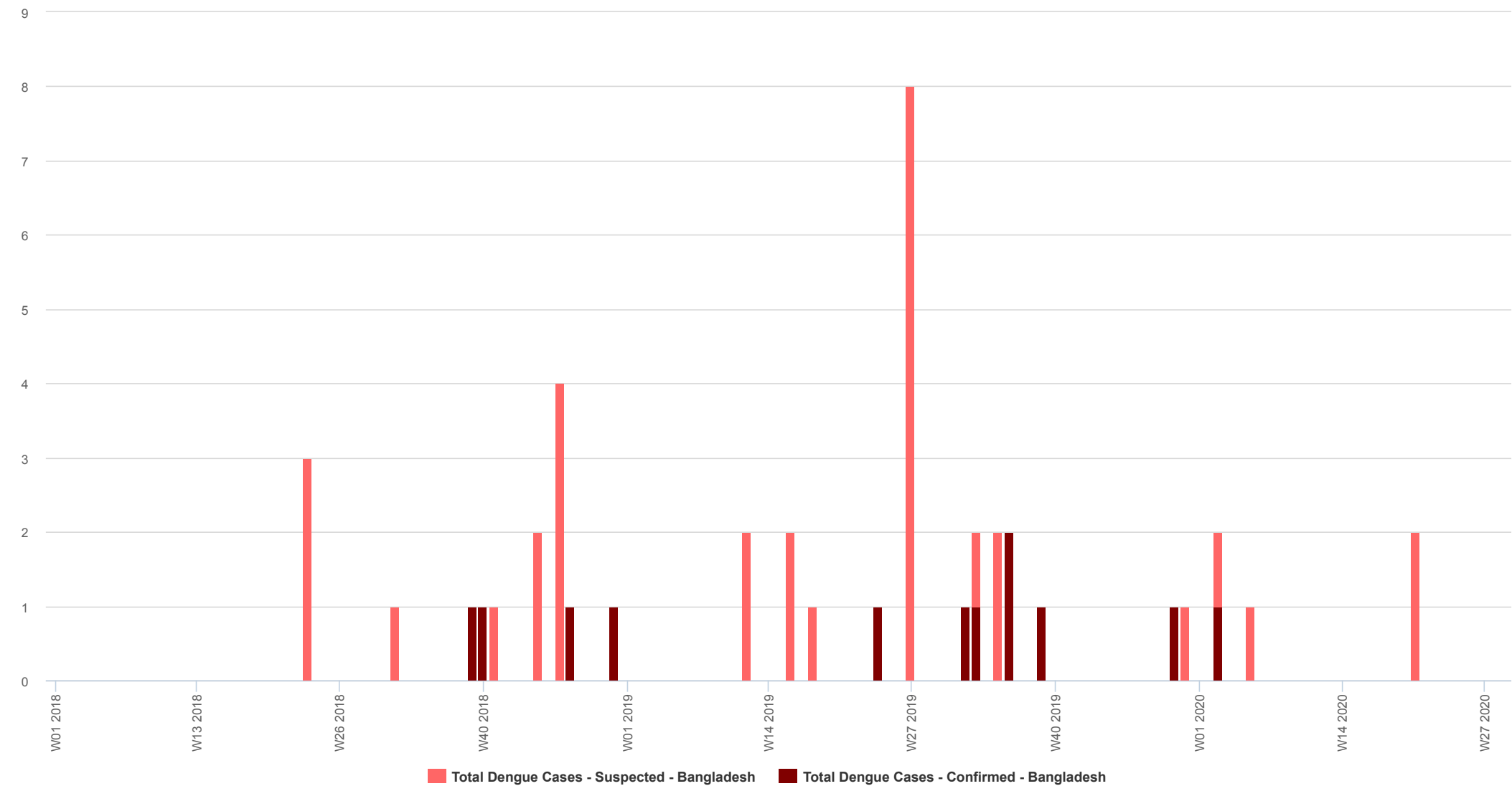
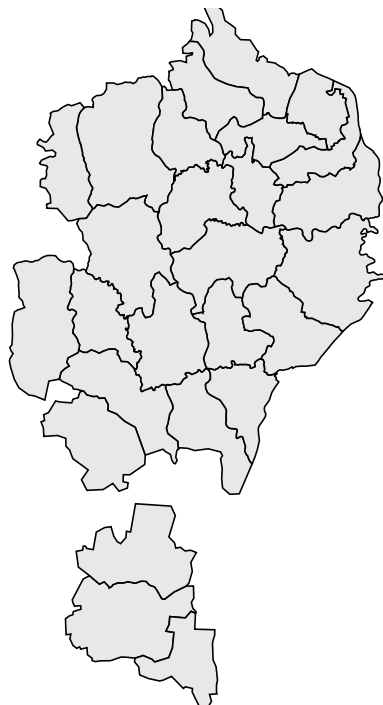


Figure 7 | Trend in number of cases over time (W38 2017 - W27 2020)

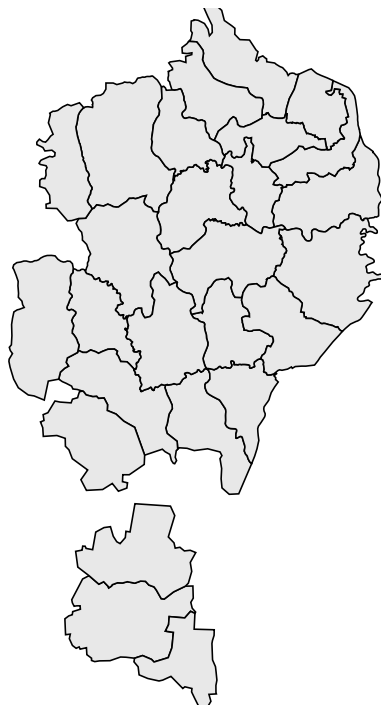


Map 4 | Map of cases by camp (W37 2017 - W27 2020)

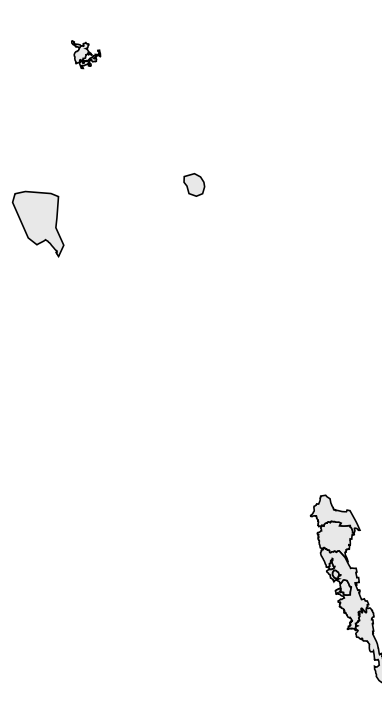
a. Ukhia | Number of cases



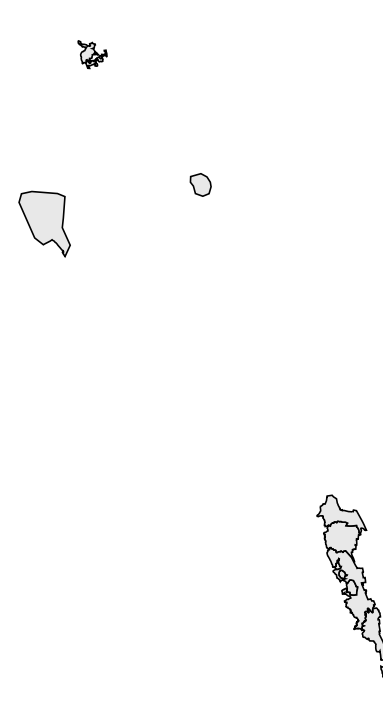
b. Ukhia | Number of alerts



c. Teknaf | Number of cases

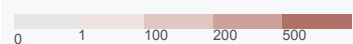


d. Teknaf | Number of alerts



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 (W27 2020)

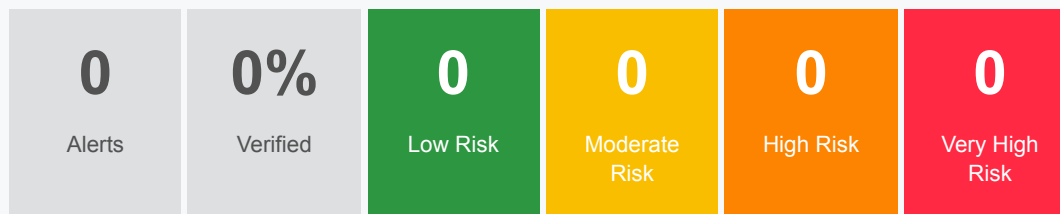


Figure | % sex



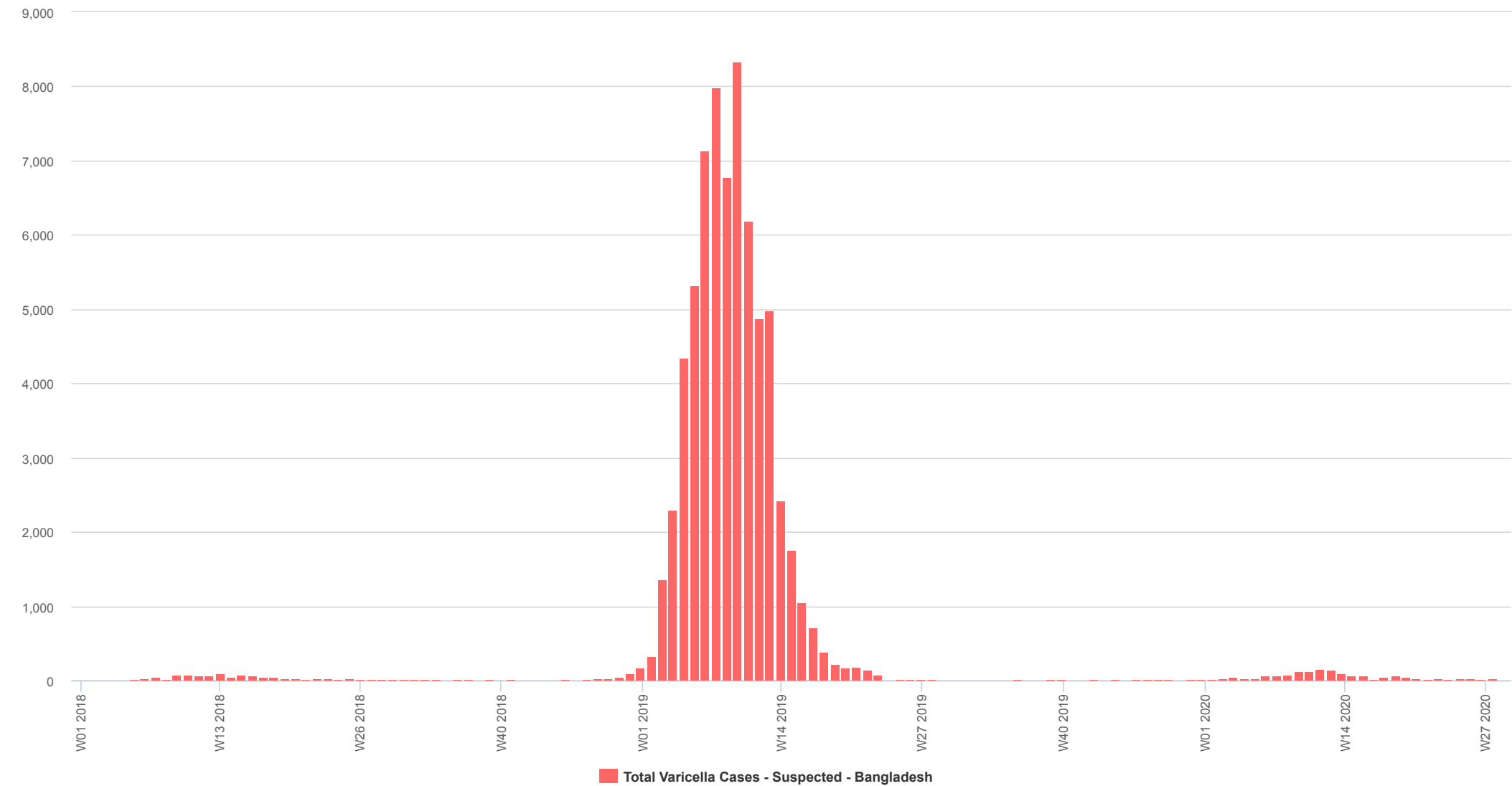
Male Female

Figure | % age



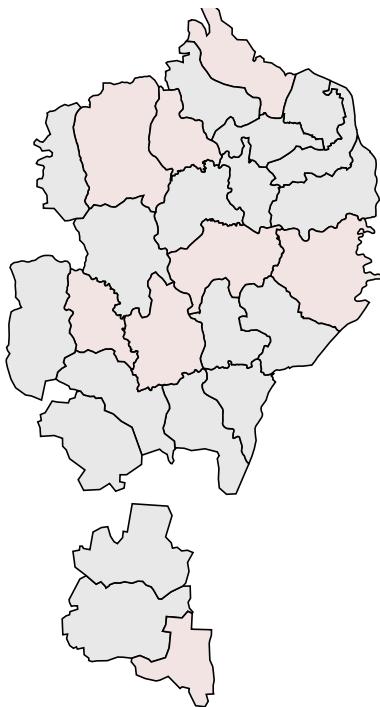
>= 5 < 5

Figure 7 | Trend in number of cases over time (W38 2017 - W27 2020)

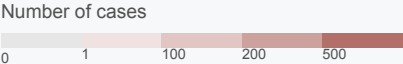


Map 4 | Map of cases by camp (W37 2017 - W27 2020)

a. Ukhia | Number of cases



Map legend



c. Teknaf | Number of cases

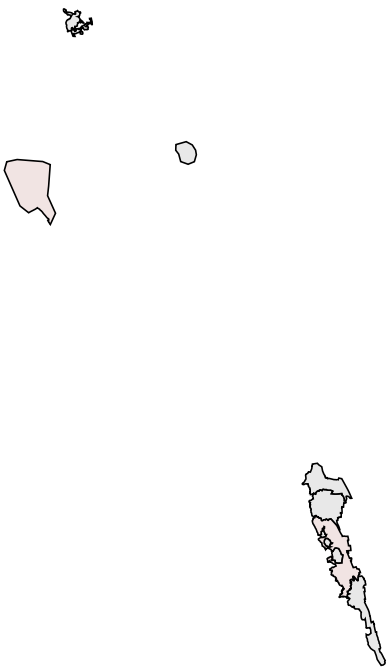


Figure | % sex

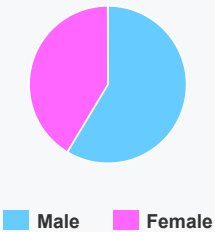
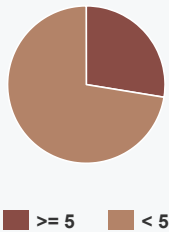


Figure | % age



For more help and support, please contact:

Dr. Shownam Barua
Medical Officer - Civil Surgeon Office (MO-CS)
Ministry of Health and Family Welfare
Cox's Bazar, Bangladesh

Telephone: +88 01723350483

Email: bshownam49@gmail.com

Dr. Md. Sabbir Hossain
Surveillance & Outbreak Officer
World Health Organization
Cox's Bazar, Bangladesh

Telephone: +88 017 1355 9987

Email: mds@who.int

Notes

WHO and the Ministry of Health and Family Welfare gratefully acknowledge all partners who have reported the data used in this bulletin.

The data been collected with support from the EWARS project. This is an initiative to strengthen early warning, alert and response in emergencies. It includes an online, desktop and mobile application that can be rapidly configured and deployed in the field. It is designed with frontline users in mind, and built to work in difficult and remote operating environments. This bulletin has been automatically published from the EWARS application.

More information can be found at <http://ewars-project.org>

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