

# Epidemiological Highlights

Week 10 (02 – 08 March 2020)



# **Highlights:**

- One AWD RDT positive case reported in camps in week 10
- Health sector COVID-19 preparedness and response reediness plan for Rohingya refugee and affected host populations has been reviewed and elaborated inline with 8 pillars detailing the activities and shared with health sector working group for further review.
- Capacity building of health facilities has been taken in terms of COVID-19 surveillance, contact tracing and infection prevention and control.
- Acute Respiratory Infection (23.6%), Diarrheal Diseases (6.2%) & Unexplained Fever (1%) are the diseases with highest proportional morbidity in week 10. Injury/wounds shows increasing trend (2.1%) over last couple of months.





# **EWARS Reporting Updates**

- Total 143/166 (86%) health facilities registered in EWARS and remining 19 under scrutiny to be registered in EWARS.
- Only 125/143 weekly reports received in week 10.
- Completeness and Timeliness for this week is 83%.
- In 2020 cumulative completeness and timeliness of reporting is 93% and 83% respectively
- Total 59 alerts were triggered in week 10. All alerts were reviewed and verified (1 under risk assessment, 53 monitoring and 8 discarded) by WHO EWARS team which is less than as of previous week (95).





# **Diphtheria**

06 suspected diphtheria case reported in go.data in week 10

A total of 9 051 case-patients were reported since 2017 to till date

- Confirmed = 327
- Probable = 2785
- Suspected = 5939

Total Case reported in 2020 = 87

- Confirmed = 5
- Probable = 7
- Suspected = 75

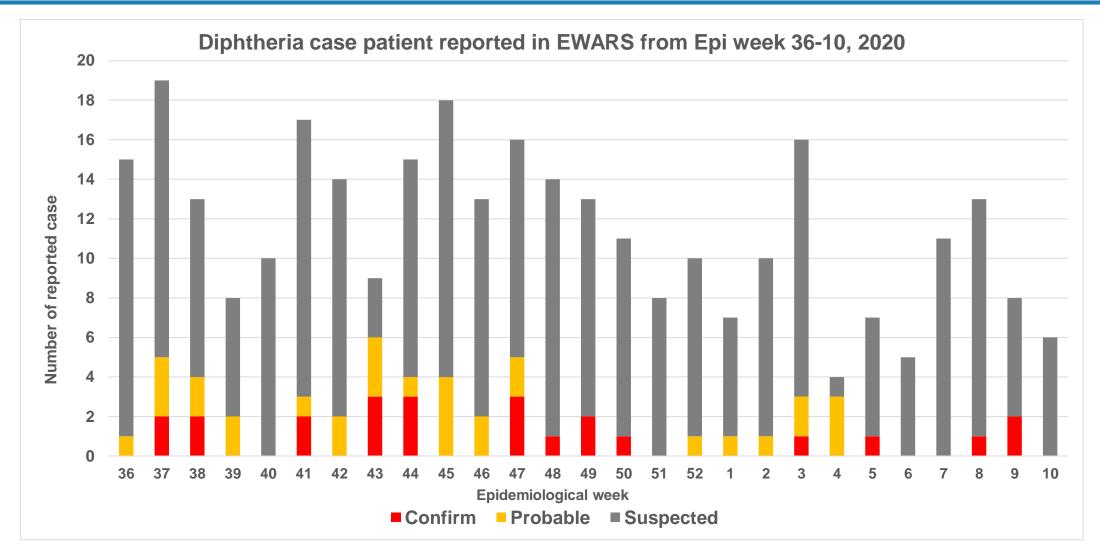
Last confirmed case was reported in Week 9 (01 March 2020)

Total deaths reported is 46. Last death was reported on 25 October 2019





# **Diphtheria**







## **Measles**

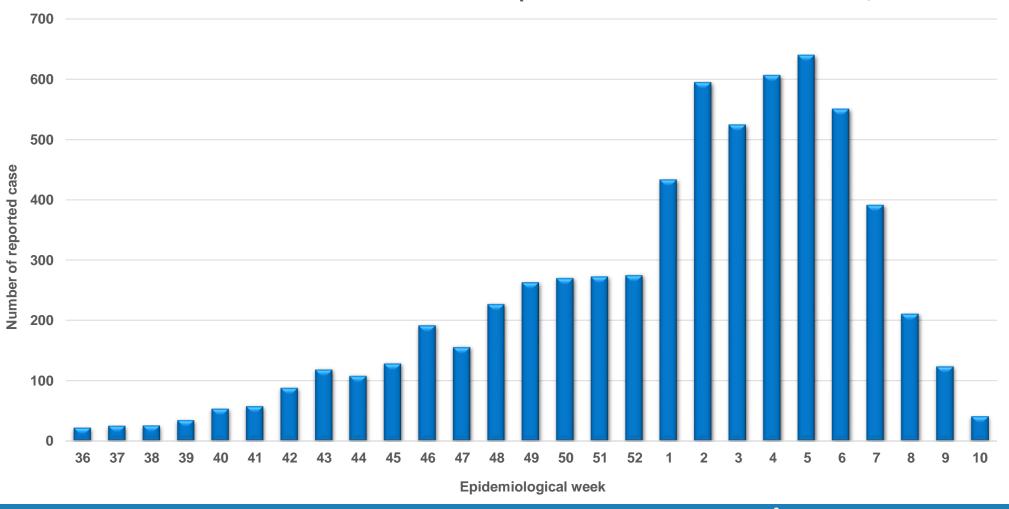
- Total 41 suspected measles cases were reported through aggregated weekly reporting in EWARS in week 10
- In last five weeks number of cases showed a decreasing trend
- 2,305 (56%) individual case report forms (CRF) were received out of total 4,122 cases reported through aggregated weekly report in EWARS in 2020





### **Measles**

#### Total number of Measles case reported in EWARS from week 36-10, 2020







## **Diarrhoeal Disease**

- A total 4 161 cases of diarrhoeal diseases reported in EWARS in week 10
- Among which 2,397 cases (3.6%) reported as acute watery diarrhoea (AWD), 1,398 (2.1%) and 366 (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).





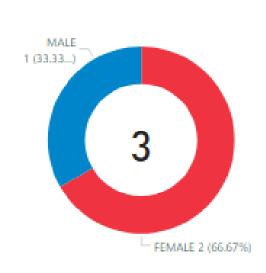
# **Community-based surveillance**

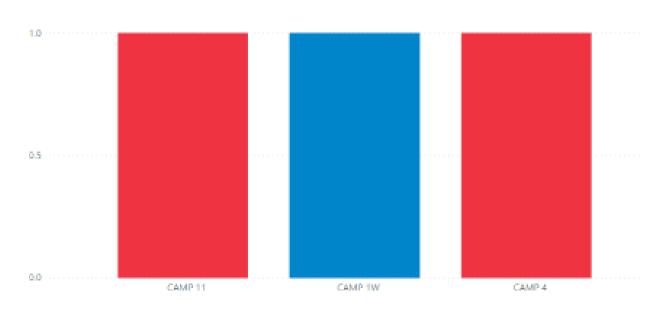
- In week 10 total of 3 deaths were recorded. 1 were due to causes classified as "Others" and 2 neonatal death
- There were a total of 1 mortality alert raised for women of reproductive age (12-49 years).
- 1 death was reported from health facility, 2 from home
- We would like to urge donor agencies to inform their partners to report all mortalities into EWARS using the "Community-based mortality surveillance" form.

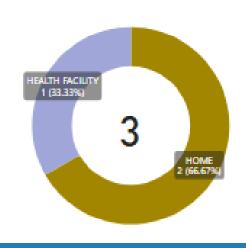


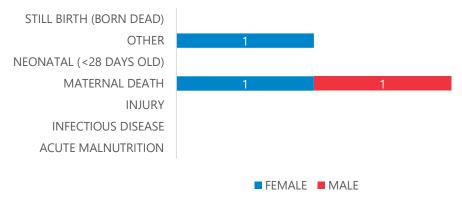


# **Community-based surveillance**













# Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Epidemiological Bulletin W10 2020







#### **Contents**

#### Highlights

Slide 1	Table 1 Coverage
	Table 2 Early warning performance
	Table 3 Alert performance

#### **Early Warning**

Slide 2	Map 1a Ukhia completeness by site/zone
	Map 1b Teknaf completeness by site/zone
Slide 3	Table 4 Ukhia (Northern group) performance by site/zone
	Map 2 Ukhia (Northern group) completeness by site/zone
Slide 4	Table 5 Ukhia (Southern group) performance by site/zone
	Map 3 Ukhia (Southern group) completeness by site/zone
Slide 5	Table 6 Teknaf performance by site/zone
Map 4 Teknaf completeness by site/zone	
Slide 6	Table 7 Performance by partner

#### **Alert**

Slide 7	Table 8 Ukhia (Northern group) alerts by site/zone
	Map 5 Ukhia (Northern group) alerts site/zone
Slide 8	Table 9 Ukhia (Southern group) alerts by site/zone
	Map 6 Ukhia (Southern group) alerts site/zone
Slide 9	Table 10 Teknaf alerts by site/zone
	Map 7 Teknaf alerts site/zone
Slide 10	Table 11 Performance by type of alert
	Table 12 Risk Assessment

#### Sources of data

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





#### Highlights W10 2020

#### Table 1 | Coverage

#	%	
854,704	-	Estimated total Rohingya population <sup>1</sup>
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

W10	Cumulative (2020)				
125	1379	Number of weekly reports received			
83%	93%	Completeness			
83%	83%	Timeliness			

Table 3 Alert performance indicators

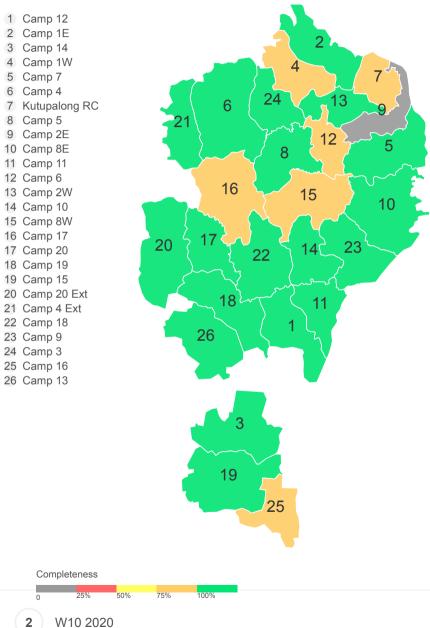
W10	Cumulative (2020)			
59	809 Total alerts raised			
100%	100%	% verified		
0%	0%	% auto-discarded		
0%	0%	% undergoing risk assessment		
0%	0%	% completed risk assessment		



<sup>&</sup>lt;sup>1</sup> Source: UNHCR. Bangladesh: Joint Government of Bangladesh- UNHCR Population Factsheet. 31 December 2019.

#### Early Warning | Ukhia and Teknaf

#### Map 1a | Ukhia completeness by camp



#### Map 1b | Teknaf completeness by camp

4

- 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 75%



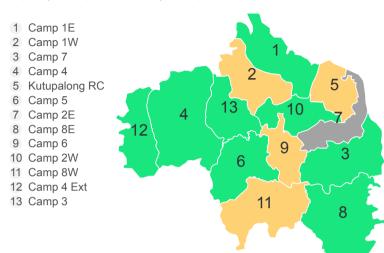




Table 4 | Performance by camp (W10 2020)

Northern group	Reporting		Reporting		е
	# health facilities	# reports received	Completeness	Timeliness	
Camp 1E	5	4	80%	80%	
Camp 1W	3	2	67%	67%	
Camp 2E	1	0	0%	0%	
Camp 2W	2	2	100%	100%	
Camp 3	6	5	83%	83%	
Camp 4	6	5	80%	80%	
Camp 4 Ext	1	1	100%	100%	
Camp 5	5	5	100%	100%	
Camp 6	3	2	67%	67%	
Camp 7	5	3	75%	75%	
Camp 8E	7	6	100%	100%	
Camp 8W	8	5	71%	71%	
Kutupalong RC	2	1	50%	50%	

#### Map 2 | Completeness by camp





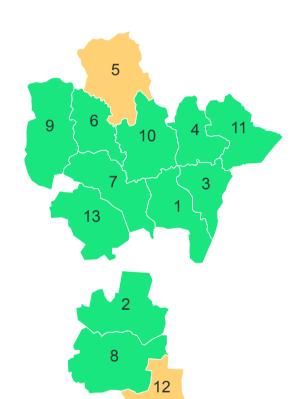


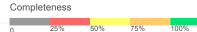
**Table 5** | Performance by camp (W10 2020)

Reporting		Performance	9
# health facilities	# reports received	Completeness	Timeliness
4	4	100%	100%
10	10	100%	100%
7	5	83%	83%
12	10	100%	100%
8	6	75%	75%
10	8	88%	88%
5	3	60%	60%
5	3	60%	60%
5	4	80%	80%
5	5	100%	100%
3	3	100%	100%
1	1	100%	100%
6	3	75%	75%
	# health facilities 4 10 7 12 8 10 5 5 5 5 1	# health facilities received  4	# health facilities # reports received Completeness  4

#### Map 3 | Completeness by camp

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







W10 2020

#### Early Warning | Teknaf

Table 6 | Performance by camp (W10 2020)

Teknaf	Reporting		Performance	<b>e</b>
	# health facilities	# reports received	Completeness	Timeliness
Camp 21 Chakmarkul	4	4	100%	100%
Camp 22 Unchiprang	5	2	67%	67%
Camp 23 Shamlapur	4	3	100%	100%
Camp 24 Leda	1	1	100%	100%
Camp 25 Ali Khali	3	2	67%	67%
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





#### Early Warning | Partner performance

**Table 7** | Performance by partner (W10 2020)

Partner	Performance	9	Reporting	
	# sites	# reports received	Completeness	Timeliness
BDRCS	4	6	150%	150%
BRAC	11	11	100%	100%
CARE	4	4	100%	100%
FHM	1	0	0%	0%
FRNDS	12	11	92%	92%
GK	9	9	100%	100%
HMBDF	1	1	100%	100%
IOM	16	14	88%	88%
IRC	2	1	50%	50%
MSF	9	4	44%	44%
МоН	0	1	0%	0%
Hope	2	2	100%	100%
Medair	1	1	100%	100%

Partner	Performance		Reporting	
	# sites	# reports received	Completeness	Timeliness
FH/MTI	4	4	100%	100%
PHD	9	7	78%	78%
PWJ	1	1	100%	100%
RHU	3	3	100%	100%
RI	3	3	100%	100%
RTMI	7	6	86%	86%
SCI	9	9	100%	100%
TdH	1	1	100%	100%





Table 8 | Performance by camp

Northern group	W10		Cumulat	ive (2020)
	# alerts	% verif.	# alerts	% verif.
Camp 1E	1	100%	24	100%
Camp 1W	1	100%	8	100%
Camp 2E	0	0%	18	100%
Camp 2W	2	100%	13	100%
Camp 3	2	100%	53	100%
Camp 4	4	100%	62	100%
Camp 4 Ext	0	0%	7	100%
Camp 5	2	100%	42	100%
Camp 6	0	0%	6	100%
Camp 7	0	0%	7	100%
Camp 8E	2	100%	14	100%
Camp 8W	1	100%	39	100%
Kutupalong RC	2	100%	4	100%

#### Map 5 | Number of alerts by camp

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

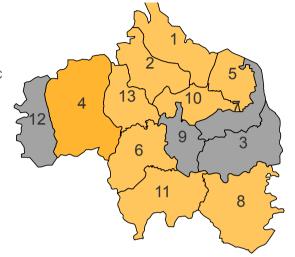




Table 9 | Performance by camp

Southern group	W10		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 10	1	100%	23	100%
Camp 11	3	100%	36	100%
Camp 12	5	100%	53	100%
Camp 13	3	100%	31	100%
Camp 14	2	100%	34	100%
Camp 15	2	100%	43	100%
Camp 16	4	100%	45	100%
Camp 17	1	100%	20	100%
Camp 18	2	100%	27	100%
Camp 19	2	100%	33	100%
Camp 20	4	100%	28	100%
Camp 20 Ext	0	0%	4	100%
Camp 9	1	100%	28	100%

#### Map 6 | Number of alerts by camp

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

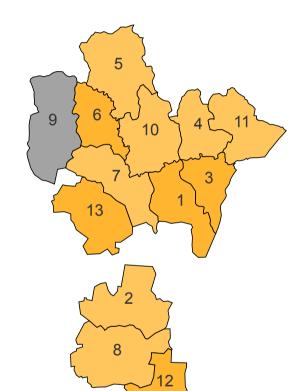








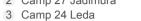


Table 10 | Performance by camp

Teknaf	W10		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Camp 21 Chakmarkul	1	100%	23	100%
Camp 22 Unchiprang	1	100%	3	100%
Camp 23 Shamlapur	1	100%	8	100%
Camp 24 Leda	1	100%	13	100%
Camp 25 Ali Khali	0	0%	3	100%
Camp 26 Nayapara	2	100%	34	100%
Camp 27 Jadimura	1	100%	9	100%
Nayapara RC	0	0%	4	100%

#### Map 7 | Number of alerts by camp

- 1 Nayapara RC
- 2 Camp 27 Jadimura



- 4 Camp 21 Chakmarkul
- 5 Camp 25 Ali Khali
- 6 Camp 23 Shamlapur
- 7 Camp 26 Nayapara
- 8 Camp 22 Unchiprang









Table 11 | Performance by type of alert

Event	W10		Cumulativ	Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.	
Indicator-based surveillance					
Malaria	0	0%	0	0%	
Measles	29	100%	523	100%	
Bloody Diarr.	0	0%	0	0%	
AFP	0	0%	5	100%	
Meningitis	0	0%	7	100%	
Haem. fever (susp.)	2	100%	5	100%	
NNT	0	0%	1	100%	
Unexp. fever	6	100%	47	100%	
AWD	6	100%	43	100%	
ARI	2	100%	42	100%	
AJS	0	0%	27	100%	
Varicella (Susp.)	1	100%	4	100%	
Event-based surveillance					
EBS total	1	100%	56	100%	

Table 12 | Risk assessment

W10	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:

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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 <a href="http://ewars-project.org">http://ewars-project.org</a>

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# Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W10 2020

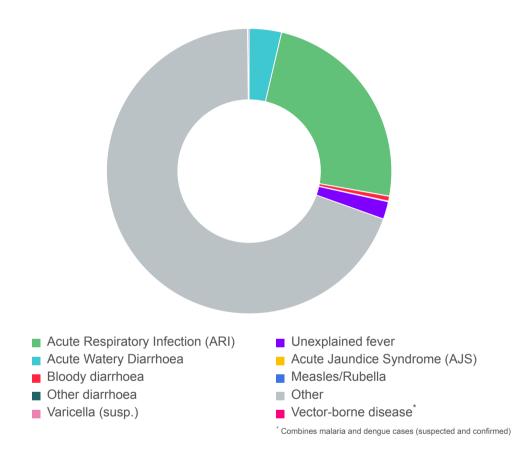






#### **Proportional morbidity**

Figure 1 | Proportional morbidity (W10 2020)



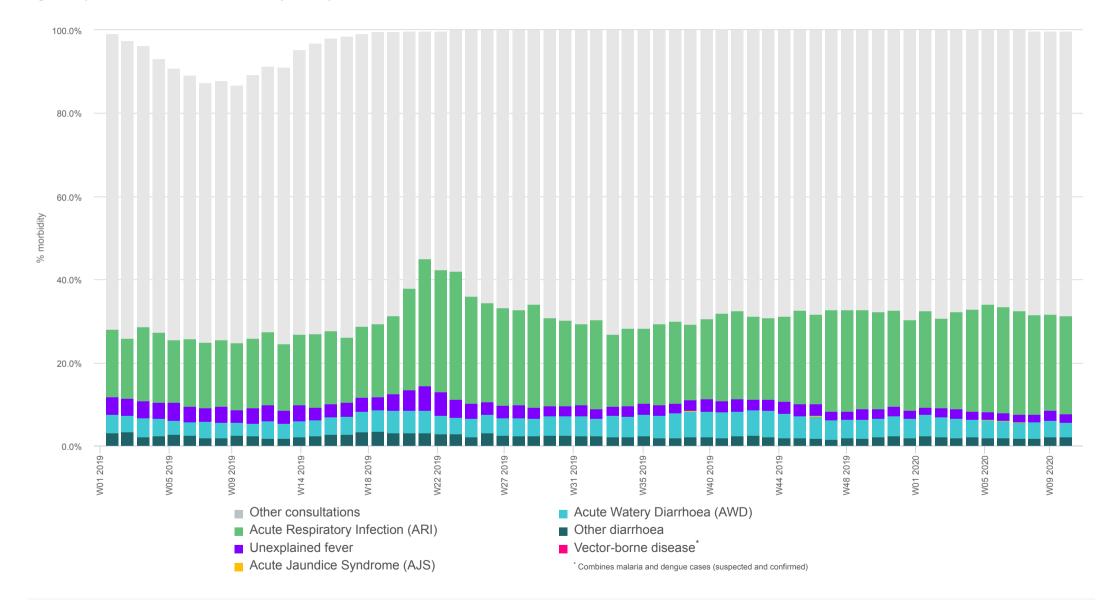
Disease	W10		2020	
	# cases	% morbidity	# cases	% morbidity
AWD	2,397	3.6%	30,935	4.3%
Bloody diarr.	366	0.5%	4,606	0.6%
Other diarr.	1,398	2.1%	14,470	2.0%
Susp. Varicella	109	0.2%	599	0.1%
ARI	15,768	23.6%	174,128	24.0%
Measles/Rub.	41	0.1%	4,122	0.6%
AFP	0	0.0%	5	0.0%
Susp. menin.	0	0.0%	19	0.0%
AJS	10	0.0%	238	0.0%
Susp. HF	3	0.0%	12	0.0%
Neo. tetanus	0	0.0%	1	0.0%
Adult tetanus	0	0.0%	0	0.0%
Malaria (conf.)	0	0.0%	5	0.0%
Malaria (susp.)	0	0.0%	131	0.0%
Dengue (conf.)	0	0.0%	2	0.0%
Dengue (susp.)	0	0.0%	2	0.0%
Unexpl. fever	1,306	2.0%	14,100	1.9%
Sev. Malnut.	36	0.1%	406	0.1%
Inj./Wounds	1,416	2.1%	17,512	2.4%
Other	43,851	65.7%	462,839	63.9%
Total	65,431	100%	724,398	100%





#### Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W10)

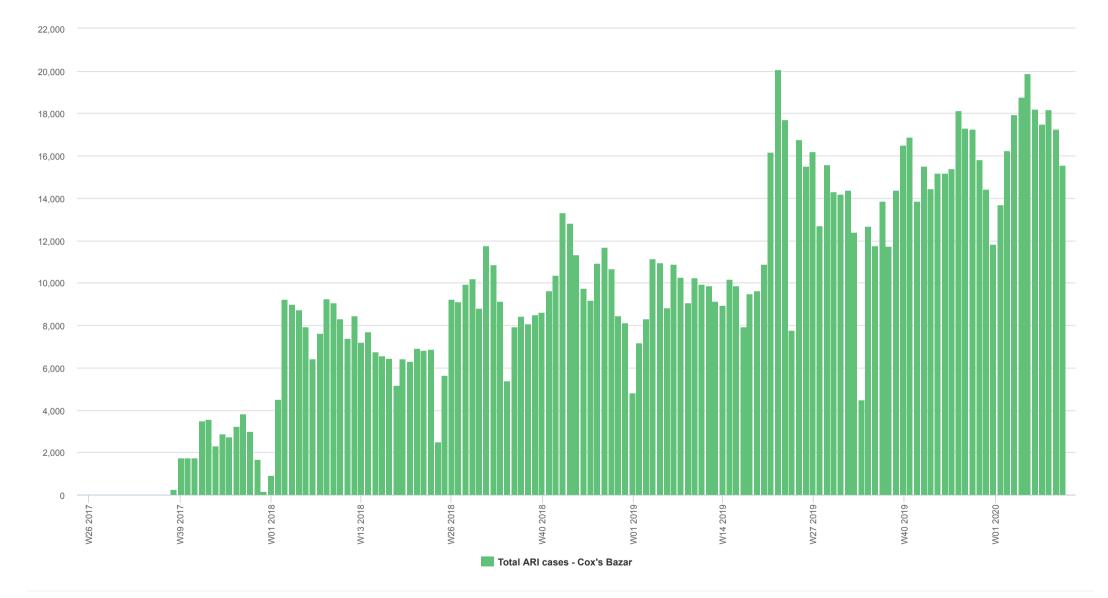






#### Acute Respiratory Infection | Trend

Figure 3 | Trend in number of cases over time (W38 2017 - W10 2020)

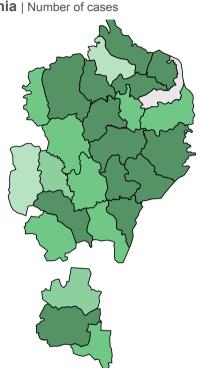






#### **Map 1** | Map of cases by camp (W10 2020)

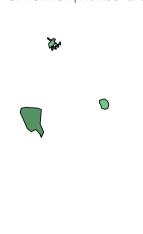




b. Ukhia | Number of alerts



c. Teknaf | Number of cases



d. Teknaf | Number of alerts







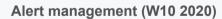


#### Map legend



#### Alert threshold

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















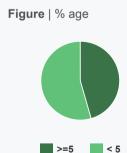
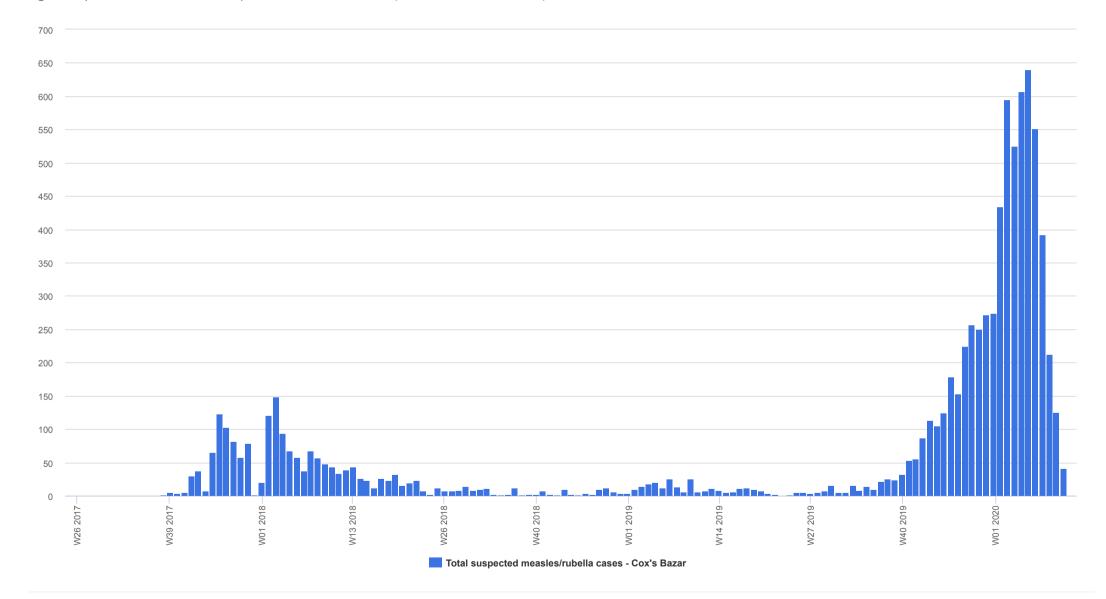






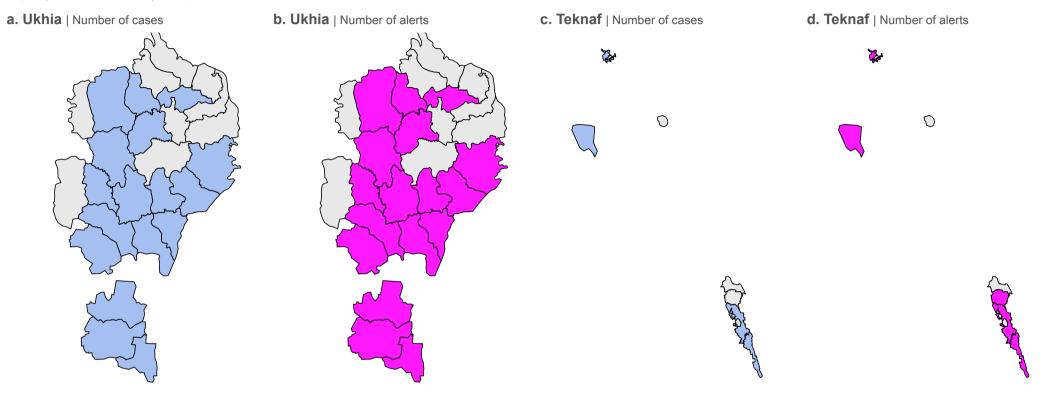
Figure 4 | Trend in number of suspected cases over time (W38 2017 - W10 2020)







#### **Map 2** | Map of cases by camp (W10 2020)



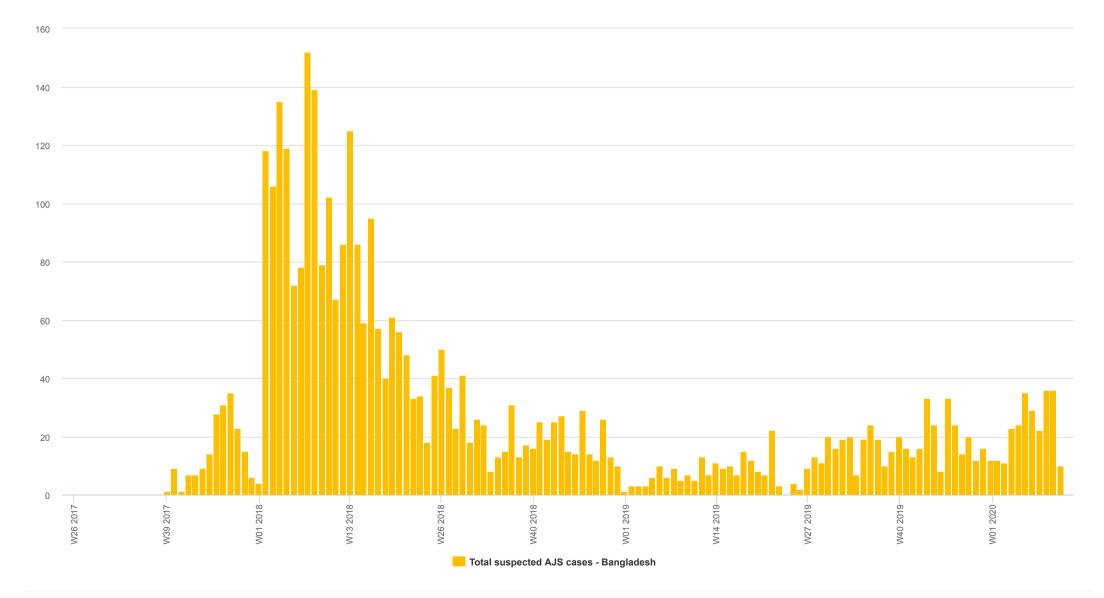






#### Acute Jaundice Syndrome | Trend

Figure 5 | Trend in number of cases over time (W38 2017 - W10 2020)







#### Map 3 | Map of cases by camp (W37 2017 - W10 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 1 10 20 50 Number of alerts 1 10 Alert threshold A cluster of 3 or more cases seen in a health facility. Source: IEDCR

#### Alert management (W10 2020)



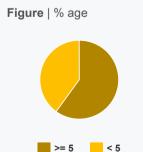
0%
Verified

**O** Low Risk

Moderate Risk **O** ligh Risk

Very High Risk







#### Acute Watery Diarrhoea | Trends

Figure 6 | Trend in number of cases over time (W38 2017 - W10 2020)

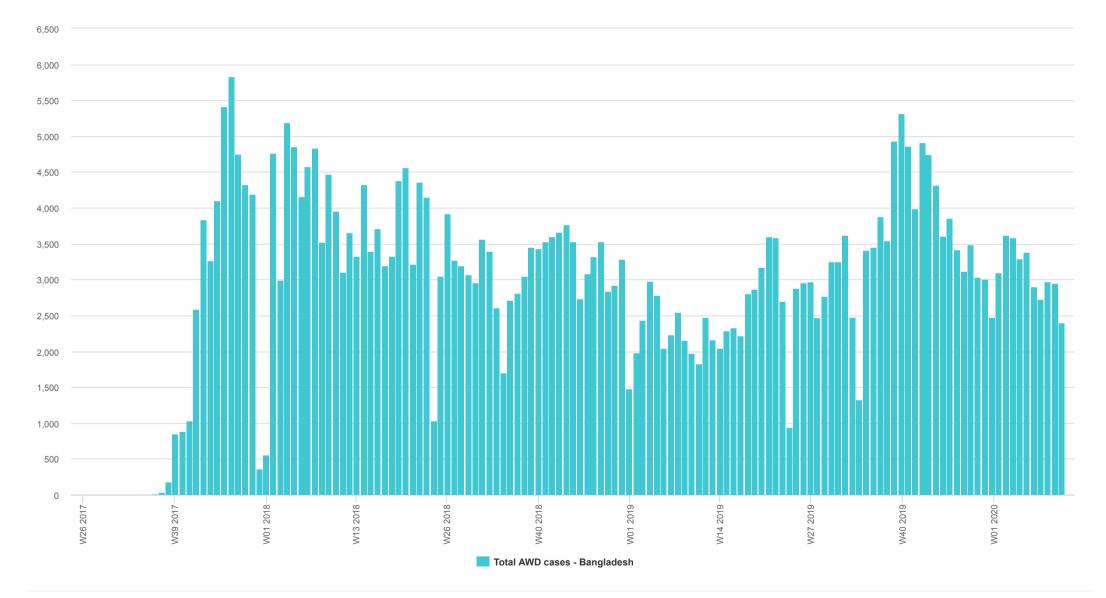
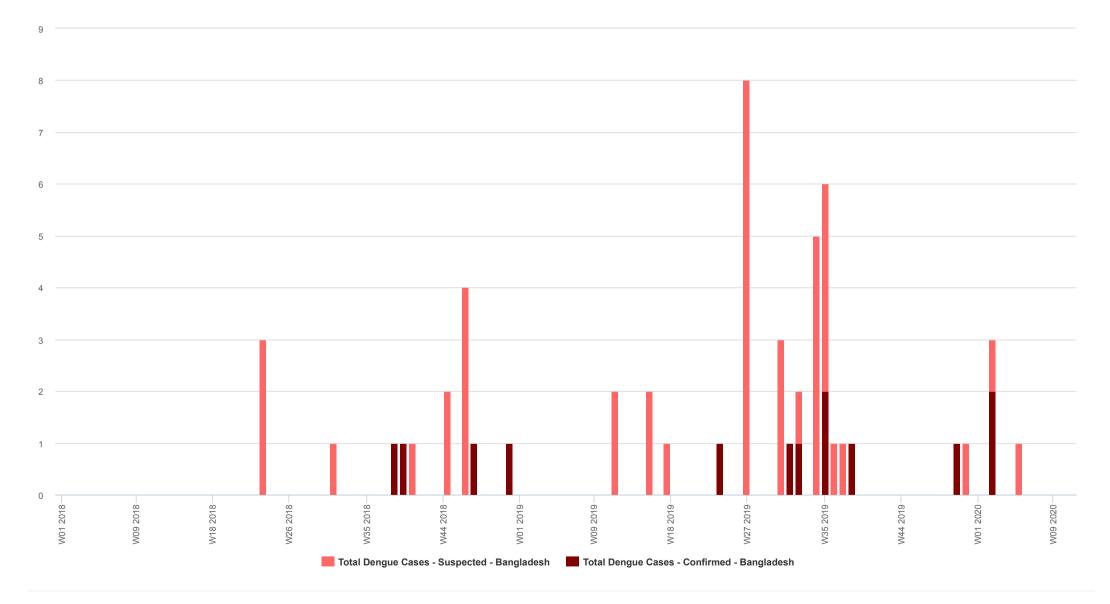






Figure 7 | Trend in number of cases over time (W38 2017 - W10 2020)

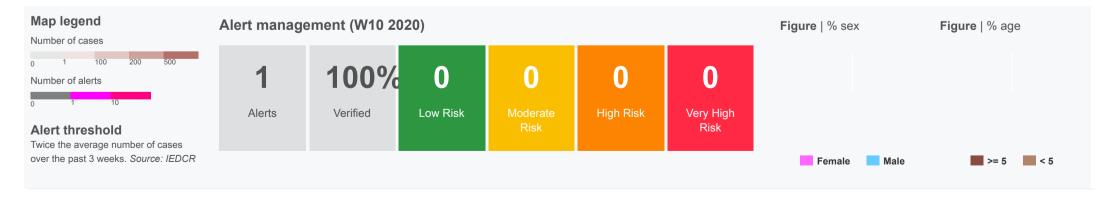






#### Map 4 | Map of cases by camp (W37 2017 - W10 2020)

a. Ukhia | Number of cases b. Ukhia | Number of alerts c. Teknaf | Number of cases d. Teknaf | Number of alerts

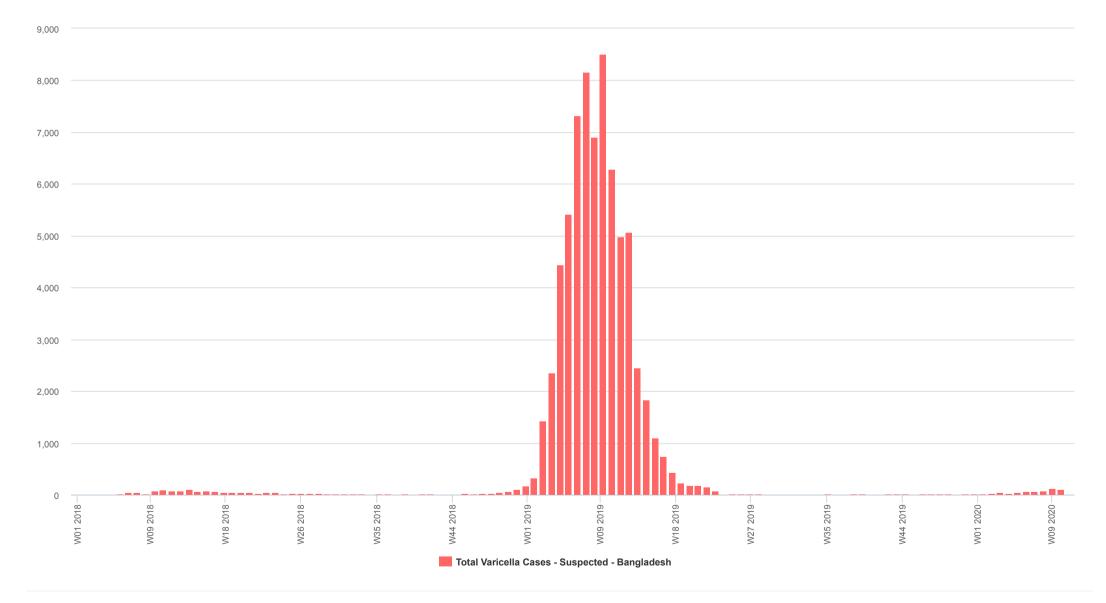






#### Varicella (Susp.) | Trends

Figure 7 | Trend in number of cases over time (W38 2017 - W10 2020)







#### Varicella (Susp.) | Maps

Map 4 | Map of cases by camp (W37 2017 - W10 2020)

a. Ukhia | Number of cases



c. Teknaf | Number of cases





O







Figure | % sex



Figure | % age





# For more help and support, please contact:

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