

# Epidemiological Highlights

Week 49 (30 Nov- 6 Dec 2020)



As of week 49 (30 Nov – 06 Dec) there are 363 confirmed cases of COVID-19 (SARS-CoV-2), 19 651 samples were tested.

This week (week 49), 7 new confirmed cases detected, 1 230 samples were tested, test positivity was 0.6%.

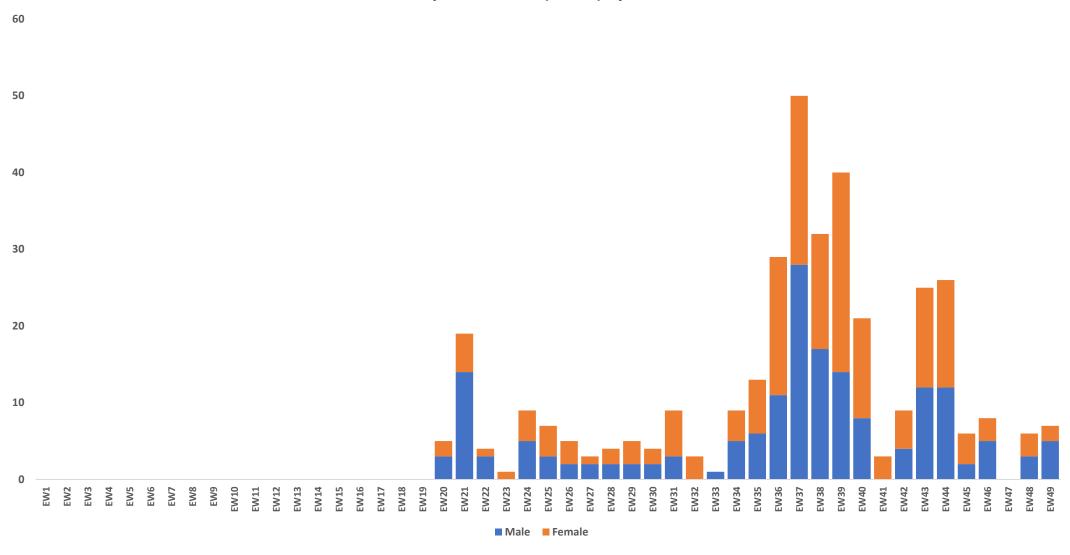
# As of this week (week 49)

- all 34/34 camps have confirmed cases
- a total of 10 deaths from COVID-19
- the case fatality rate is 2.8%
- the incidence is 42.2 per 100,000 people
- the overall positivity of all samples tested was 1.8%



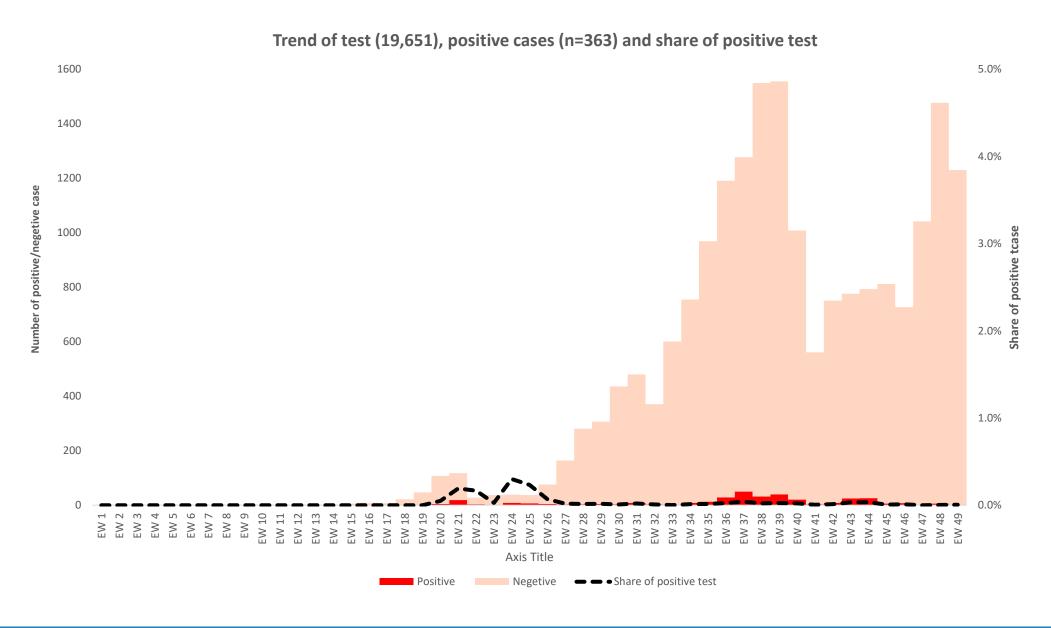


COVID-19 positive cases (n=363) by week of test



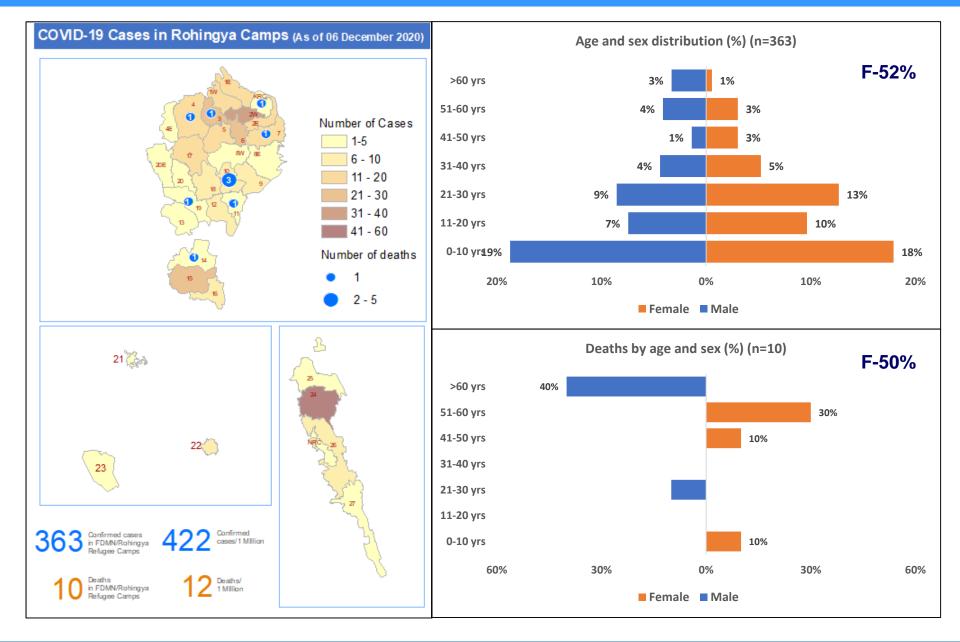








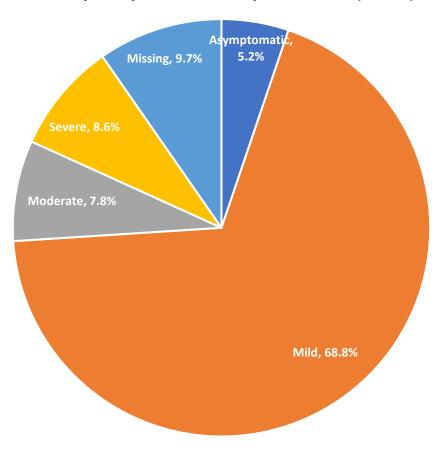




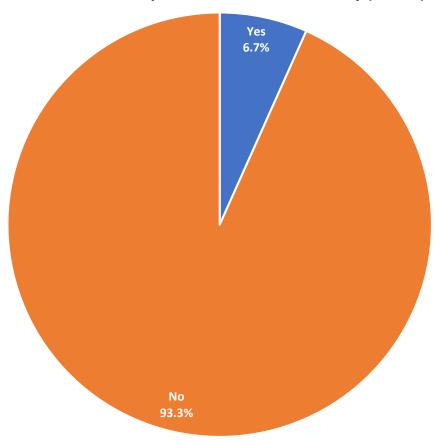




Severity of reported cases at presentation (n=269)



Did the case report at least 1 co-morbidity (n=269)



Source: Go.Data





# **EWARS Reporting Updates**

- Total 146/166 (88%) health facilities registered in EWARS
- Only 118/146 weekly reports received in week 49.
- Completeness and Timeliness for this week is 81%.
- Total 60 alerts were triggered in week 49.
- All alerts were reviewed and verified by WHO EWARS team which is less than as of previous week (70 in week 48).





# **Highlights:**

- Acute Respiratory Infection (18.4%), Diarrheal Diseases (5.4%) & Unexplained Fever (1.3%) are the diseases with highest proportional morbidity in week 49.
- Community-based mortality surveillance included SARI death in weekly reporting since week 28 and the reporting frequency changed since then from bi-weekly. Seventeen (17) SARI death has been reported so far.





# **Diphtheria**

2 suspected diphtheria case reported in go.data in week 49

A total of 9 186 case-patients were reported since 2017 to till date

- Confirmed = 341
- Probable = 2785
- Suspected = 6060

Total Case reported in 2020 = 219

- Confirmed = 16
- Probable = 7
- Suspected = 196

Last confirmed case was reported in Week 46 (9 November 2020)

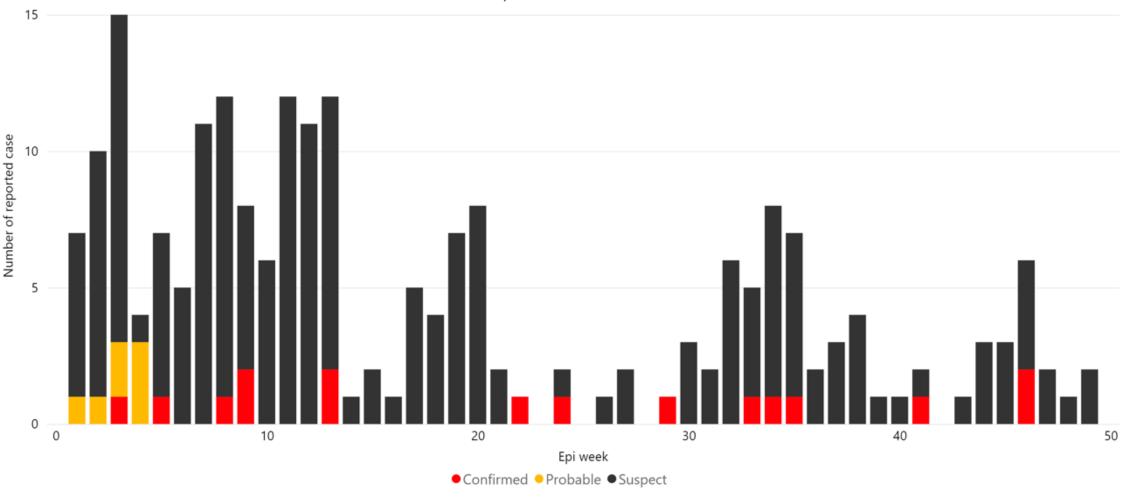
Total deaths reported is 47. Last death was reported on 25 October 2019





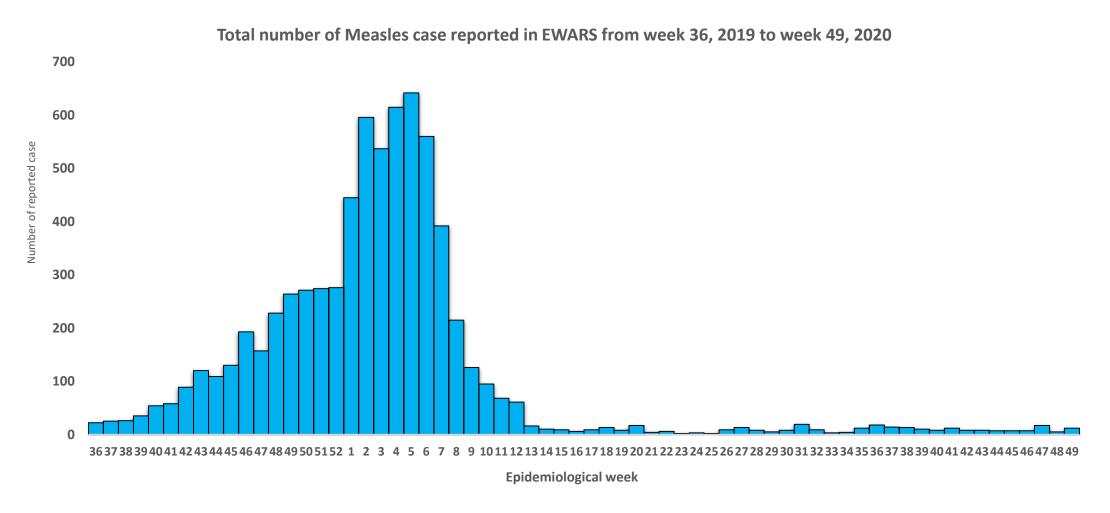
# **Diphtheria**







# **Measles**



Total 12 suspected measles cases were reported through aggregated weekly reporting in EWARS in week 49. Aggregated weekly report showed 4,661 and individual case report (CRF) found 2,599 (56%) in 2020.





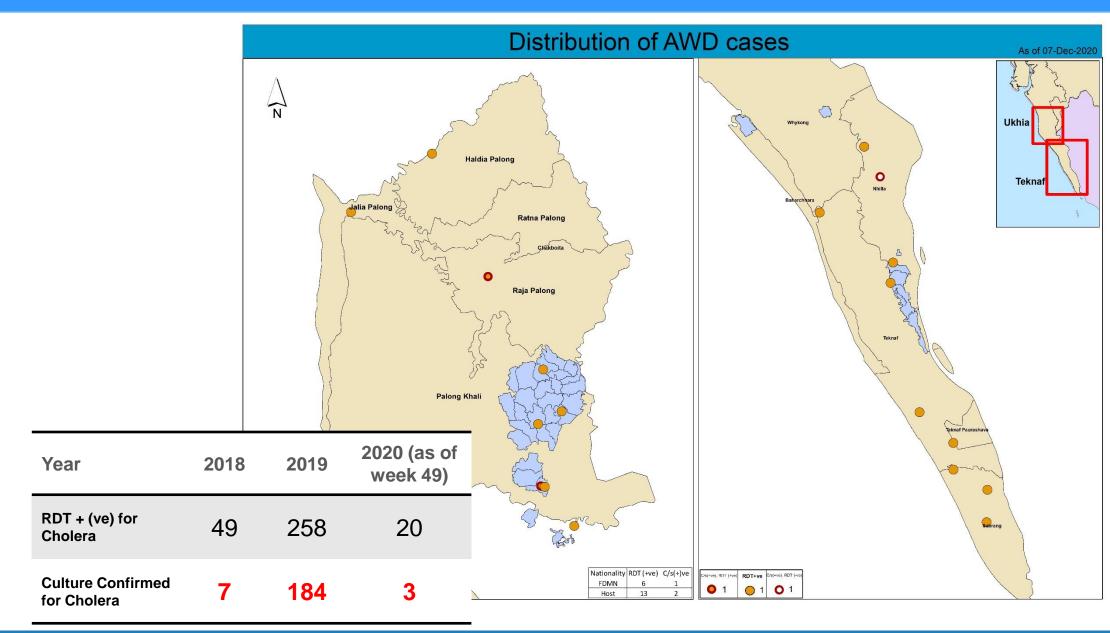
# **Diarrhoeal Disease**

- A total of 4,414 cases of diarrhoeal diseases reported in EWARS in week 49.
- Among which 2,903 cases (3.6%) reported as acute watery diarrhoea (AWD), 1,182 (1.5%) and 329 (0.4%) cases as other diarrhea and bloody diarrhea respectively.
- Diarrhoeal diseases are the second highest contributor of proportional morbidity after acute respiratory infection (ARI).





# Cholera Surveillance







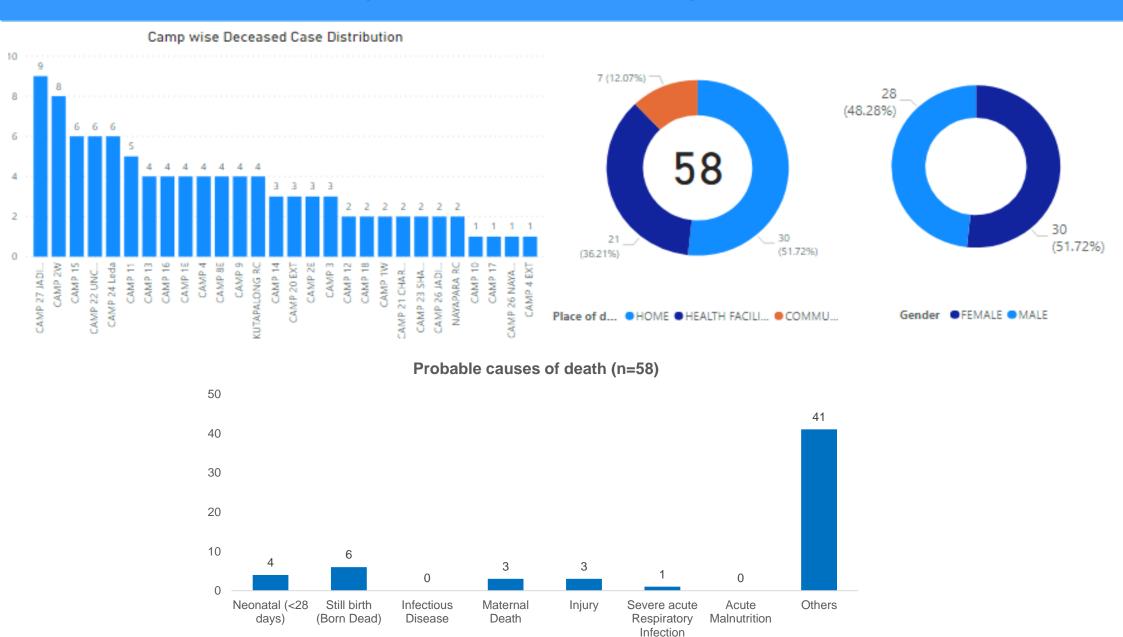
# **Community-based Mortality surveillance**

- In week 49 total of 58 deaths were recorded, 71% (n=41) were due to causes classified as "Others", 10% (n=6) as Still birth (Born Dead), 7% (n=4) as Neonatal (<28 days old), 5% (n=3) as Injury and 2% (n=1) as Severe acute respiratory infection (SARI)
- Three mortality alert raised for women of reproductive age (12-49 years).
- 36.2% of deaths reported in the health facility, 51.7% of deaths reported in homes and 12.07% deaths reported from Community/ Public place.
- Partners to report all mortalities into EWARS using the "Communitybased mortality surveillance" form.





# **Community-based Mortality Surveillance**







# Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Epidemiological Bulletin W49 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 W49 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
146	88%	Number of EWARS reporting sites

Table 2 | Early warning performance indicators

W49	Cumulative (2020)				
118	6850	Number of weekly reports received			
79%	89%	Completeness			
79%	81%	Timeliness			

Table 3 Alert performance indicators

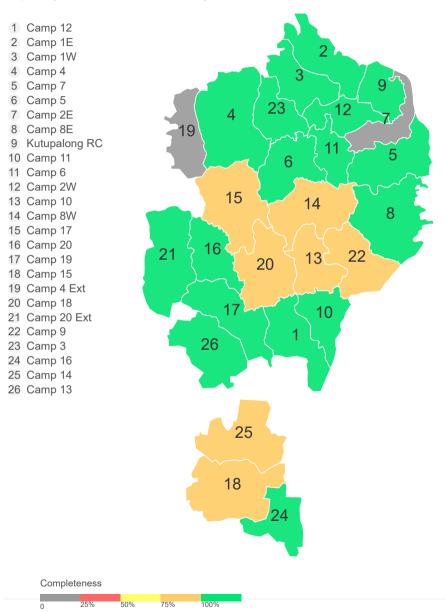
W49	Cumulative (2	020)	
60	3,109 Total alerts raised		
100%	100%	% verified	
0%	0%	% auto-discarded	
0%	0%	% undergoing risk assessment	
0%	0%	% completed risk assessment	



<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

- 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



6



Completeness
0 25% 50% 75%

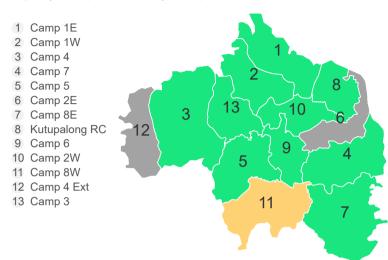




Table 4 | Performance by camp (W49 2020)

Northern group	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
	Uk	thia Northern Gro	oup	
Camp 1E	4	4	100%	100%
Camp 1W	4	4	100%	100%
Camp 2E	1	0	0%	0%
Camp 2W	2	2	100%	100%
Camp 3	6	6	100%	100%
Camp 4	6	5	100%	100%
Camp 4 Ext	1	0	0%	0%
Camp 5	5	4	80%	80%
Camp 6	2	2	100%	100%
Camp 7	6	5	83%	83%
Camp 8E	7	6	86%	86%
Camp 8W	6	4	67%	67%
Kutupalong RC	1	1	100%	100%

### Map 2 | Completeness by camp



Completeness





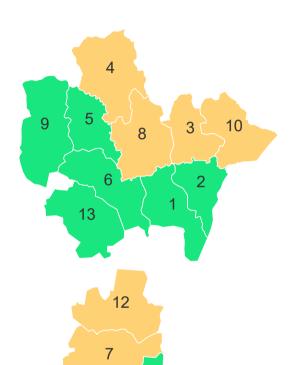


**Table 5** | Performance by camp (W49 2020)

Southern group	Reporting		Reporting Performance		е
	# health facilities Uk	# reports received hia Southern Gr	Completeness	Timeliness	
Camp 10	4	2	50%	50%	
Camp 11	9	9	100%	100%	
Camp 12	6	6	100%	100%	
Camp 13	9	7	78%	78%	
Camp 14	6	4	67%	67%	
Camp 15	10	5	56%	56%	
Camp 16	5	5	100%	100%	
Camp 17	5	3	60%	60%	
Camp 18	5	3	60%	60%	
Camp 19	5	4	80%	80%	
Camp 20	3	3	100%	100%	
Camp 20 Ext	2	2	100%	100%	
Camp 9	7	4	67%	67%	

### Map 3 | Completeness by camp

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



Completeness







## Early Warning | Teknaf

**Table 6** | Performance by camp (W49 2020)

Teknaf	Reporting		Performance	
	# health facilities	# reports received	Completeness	Timeliness
		Ukhia Teknaf		
Camp 21 Chakmarkul	4	2	50%	50%
Camp 22 Unchiprang	5	3	75%	75%
Camp 23 Shamlapur	4	1	33%	33%
Camp 24 Leda	1	1	100%	100%
Camp 25 Ali Khali	3	3	100%	100%
Camp 26 Nayapara	3	2	67%	67%
Camp 27 Jadimura	1	1	100%	100%
Nayapara RC	0	2	0%	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
0 25% 50% 75%





# Early Warning | Partner performance

**Table 7** | Performance by partner (W49 2020)

Partner	Performance		rtner Performance Reporting		
	# sites	# reports received	Completeness	Timeliness	
BDRCS	9	7	78%	78%	
BRAC	11	11	100%	100%	
CARE	4	4	100%	100%	
FHM	0	0			
FRNDS	12	10	83%	83%	
GK	9	8	89%	89%	
HMBDF	1	1	100%	100%	
IOM	21	11	52%	52%	
IRC	2	2	100%	100%	
MSF	9	4	44%	44%	
МоН	1	1	100%	100%	
Hope	1	1	100%	100%	
Medair	2	2	100%	100%	

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





Table 8 | Performance by camp

Northern group	W49		Cumulati	Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.	
		Alerts Northern	group		
Camp 1E	1	100%	72	100%	
Camp 1W	3	100%	62	100%	
Camp 2E	3	100%	66	100%	
Camp 2W	3	100%	69	100%	
Camp 3	1	100%	230	100%	
Camp 4	3	100%	176	100%	
Camp 4 Ext	0	0%	27	100%	
Camp 5	1	100%	155	100%	
Camp 6	1	100%	36	100%	
Camp 7	2	100%	63	100%	
Camp 8E	1	100%	40	100%	
Camp 8W	2	100%	154	99%	
Kutupalong RC	2	100%	27	100%	

### Map 5 | Number of alerts 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

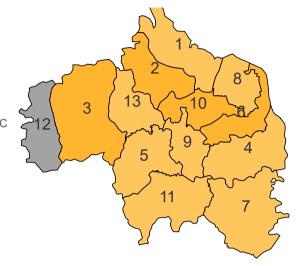


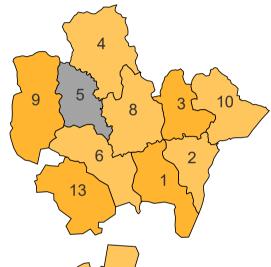


Table 9 | Performance by camp

Southern group	W49		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
		Alerts Northern	group	
Camp 10	3	100%	101	99%
Camp 11	2	100%	118	100%
Camp 12	3	100%	143	100%
Camp 13	4	100%	191	99%
Camp 14	2	100%	83	100%
Camp 15	2	100%	141	100%
Camp 16	3	100%	133	100%
Camp 17	1	100%	103	100%
Camp 18	2	100%	117	100%
Camp 19	1	100%	108	100%
Camp 20	0	0%	67	99%
Camp 20 Ext	3	100%	28	100%
Camp 9	1	100%	137	99%

### Map 6 | Number of alerts by camp

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











## Table 10 | Performance by camp

Teknaf	W49		Cumulative (2020)			
	# alerts	% verif.	# alerts	% verif.		
	Alerts Northern group					
Camp 21 Chakmarkul	1	100%	63	100%		
Camp 22 Unchiprang	5	100%	52	100%		
Camp 23 Shamlapur	0	0%	60	100%		
Camp 24 Leda	1	100%	30	100%		
Camp 25 Ali Khali	1	100%	32	100%		
Camp 26 Nayapara	0	0%	48	100%		
Camp 27 Jadimura	0	0%	22	100%		
Nayapara RC	1	100%	34	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	W49		Cumulative (2020)	
	# alerts	% verif.	# alerts	% verif.
Indicator-based so	urveillance			
Malaria	0	0%	0	0%
Measles	9	100%	850	100%
Bloody Diarr.	0	0%	0	0%
AFP	0	0%	17	100%
Meningitis	0	0%	22	100%
Haem. fever (susp.)	0	0%	9	100%
NNT	0	0%	2	100%
Unexp. fever	0	0%	230	100%
AWD	3	100%	318	100%
ARI	6	100%	331	100%
AJS	0	0%	115	100%
Varicella (Susp.)	0	0%	12	100%
Suspected COVID-19	0	0%	0	0%
Event-based surv	eillance			
EBS total	0	0%	181	100%

Table 12 | Risk assessment

W49	Cumulative (2020)		
0	4	Low risk	
0	2	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. Feroz Hayat Khan NPO (Disease Surveillance & Epidemiology) World Health Organization Cox's Bazar, Bangladesh

Telephone: +88 017 0120 2994

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

Sign-up for an account with EWARS Bangladesh at http://bd.ewars.w









# Bangladesh

Rohingya Emergency Response

Early Warning, Alert and Response System (EWARS)

Annex W49 2020







# **Proportional morbidity**

Figure 1 | Proportional morbidity (W49 2020)

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)

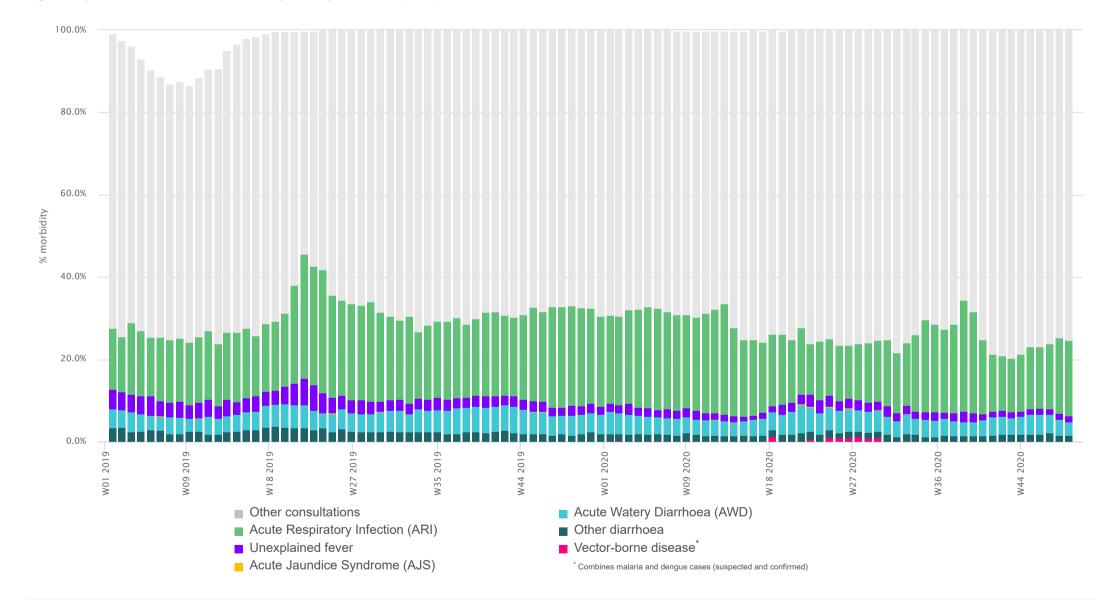
Disease	W49		2020	
	# cases	% morbidity	# cases	% morbidity
AWD	2,585	3.5%	131,954	4.4%
Bloody diarr.	291	0.4%	15,272	0.5%
Other diarr.	1,123	1.5%	49,448	1.6%
Susp. Varicella	14	0.0%	1,874	0.1%
ARI	13,699	18.4%	577,355	19.1%
Measles/Rub.	10	0.0%	4,626	0.2%
AFP	0	0.0%	15	0.0%
Susp. menin.	0	0.0%	78	0.0%
AJS	6	0.0%	919	0.0%
Susp. HF	0	0.0%	21	0.0%
Neo. tetanus	0	0.0%	1	0.0%
Adult tetanus	0	0.0%	10	0.0%
Malaria (conf.)	0	0.0%	8	0.0%
Malaria (susp.)	0	0.0%	3,505	0.1%
Dengue (conf.)	0	0.0%	3	0.0%
Dengue (susp.)	0	0.0%	15	0.0%
Unexpl. fever	986	1.3%	56,393	1.9%
Sev. Malnut.	33	0.0%	1,272	0.0%
Inj./Wounds	1,450	1.9%	75,406	2.5%
Other	54,374	72.9%	2,099,605	69.6%
Total	73,604	100%	3,018,748	100%





## Trend in consultations and key diseases

Figure 2 | Trend in proportional morbidity for key diseases (W49)

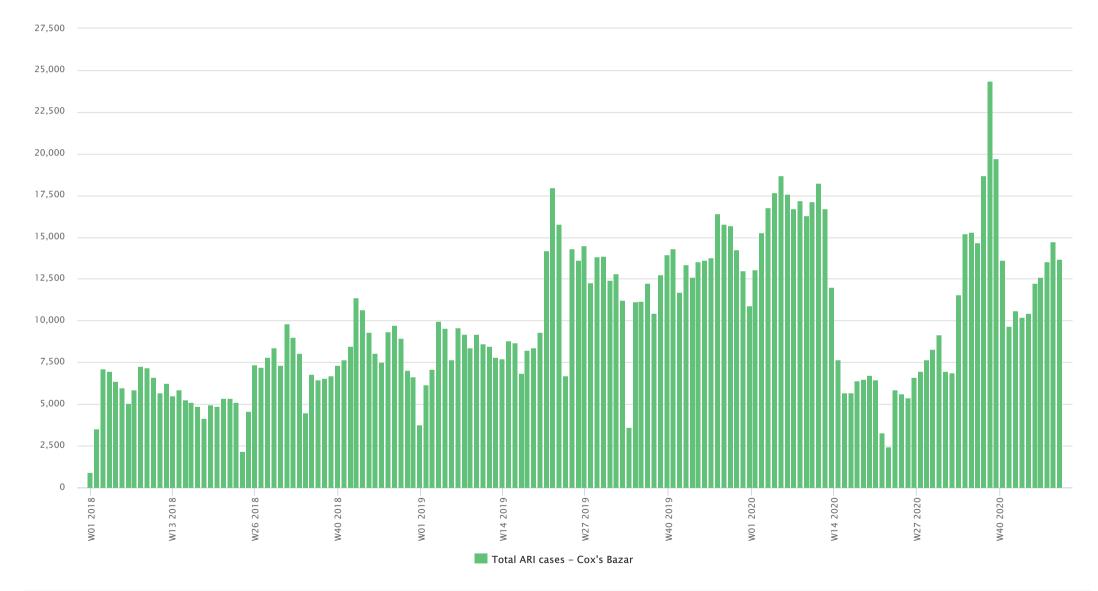






# Acute Respiratory Infection | Trend

Figure 3 | Trend in number of cases over time (W38 2017 - W49 2020)







### **Map 1** | Map of cases by camp (W49 2020)

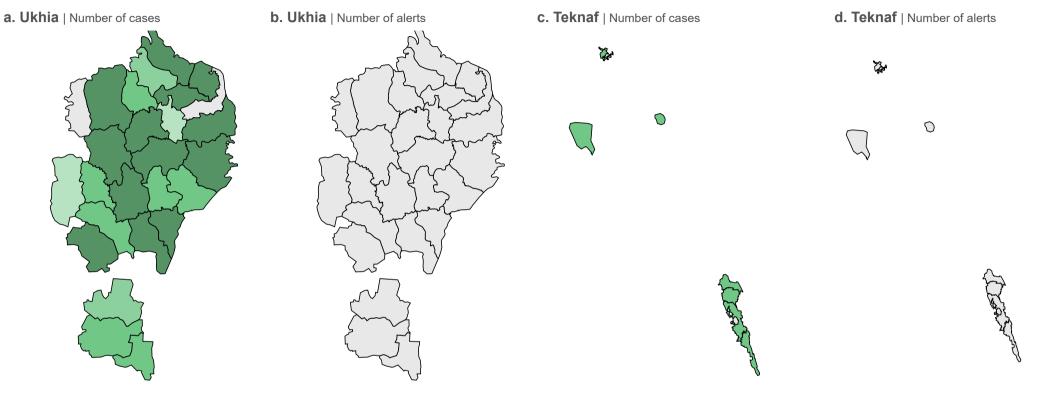


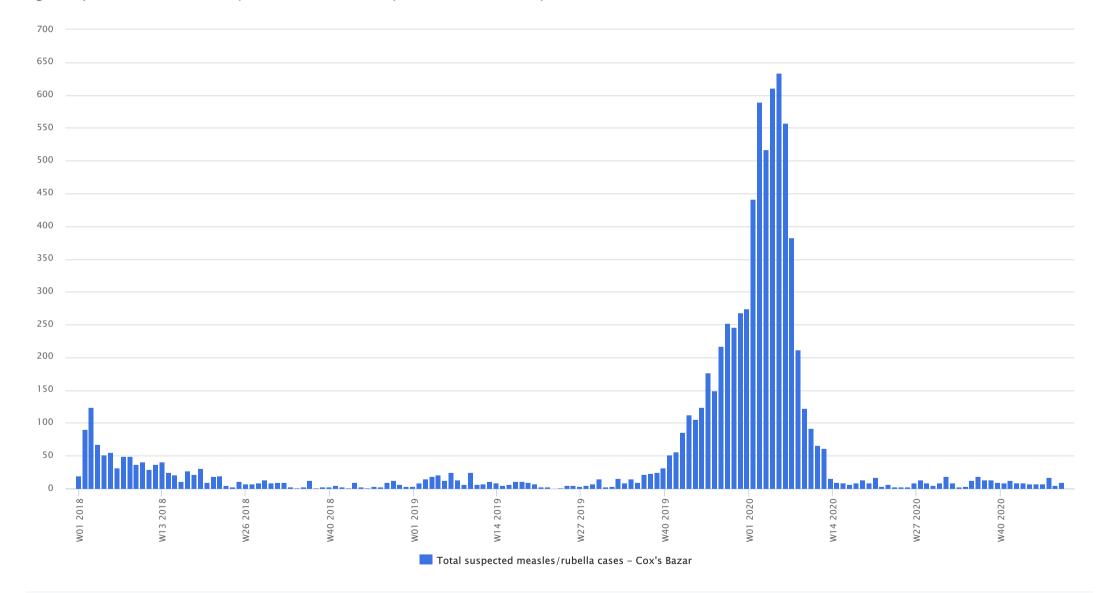








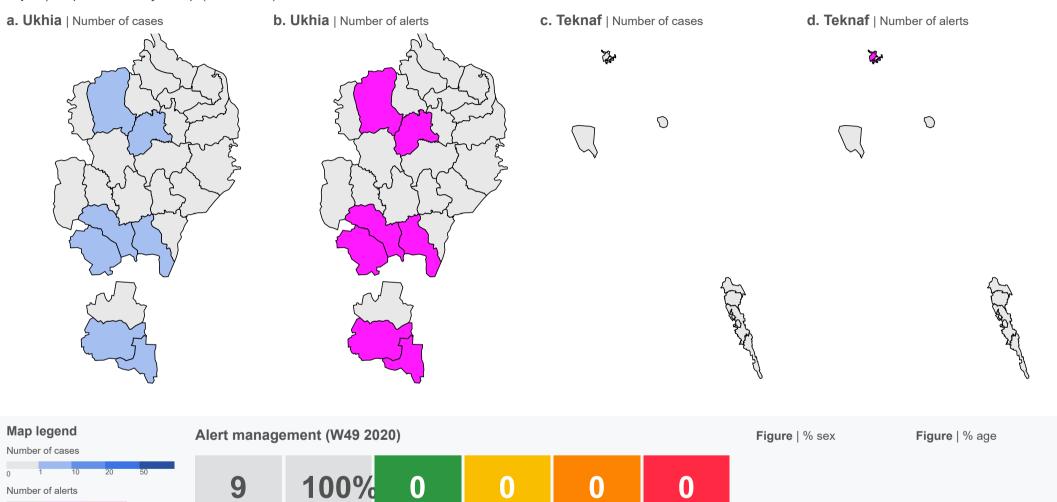
Figure 4 | Trend in number of suspected cases over time (W38 2017 - W49 2020)







### **Map 2** | Map of cases by camp (W49 2020)



Very High

Risk

Low Risk

Verified

Alerts

2017-06-04

2017-06-04





2017-06-04

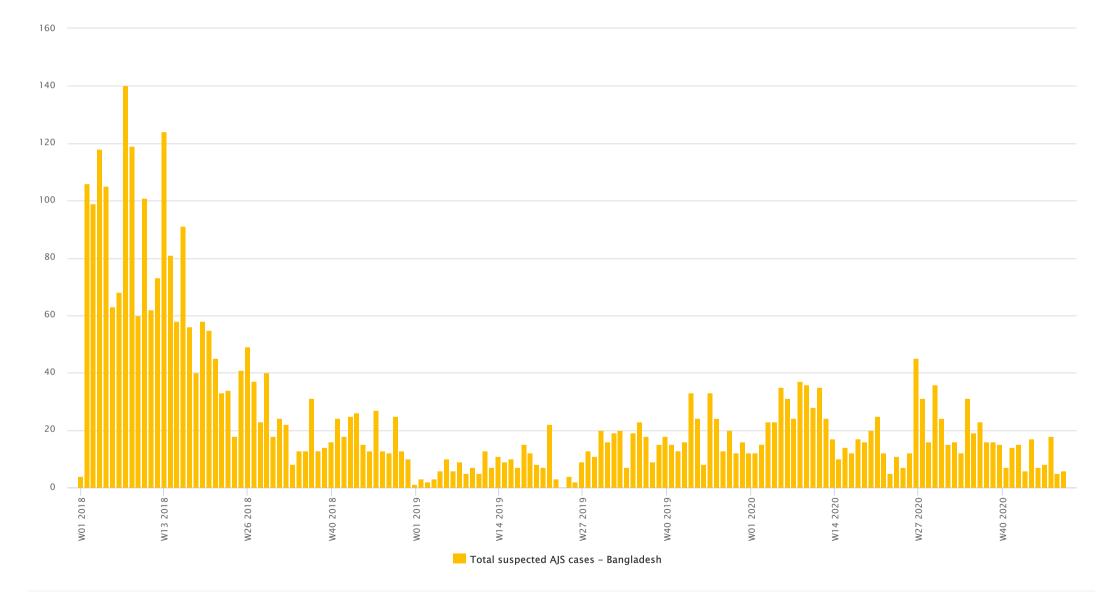
2017-06-04

Alert threshold

1 case. Source: IEDCR

# Acute Jaundice Syndrome | Trend

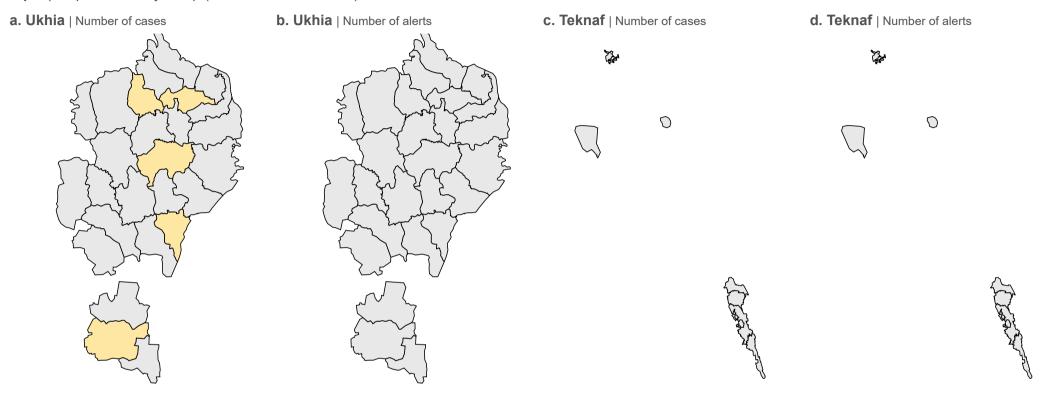
Figure 5 | Trend in number of cases over time (W38 2017 - W49 2020)







#### Map 3 | Map of cases by camp (W37 2017 - W49 2020)









# Acute Watery Diarrhoea | Trends

Figure 6 | Trend in number of cases over time (W38 2017 - W49 2020)

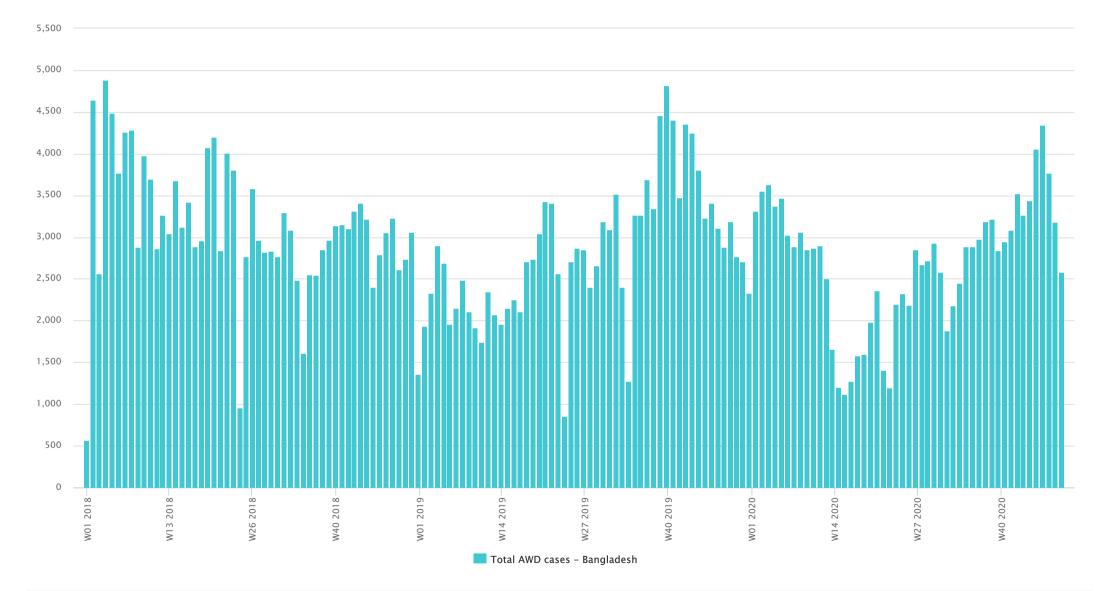
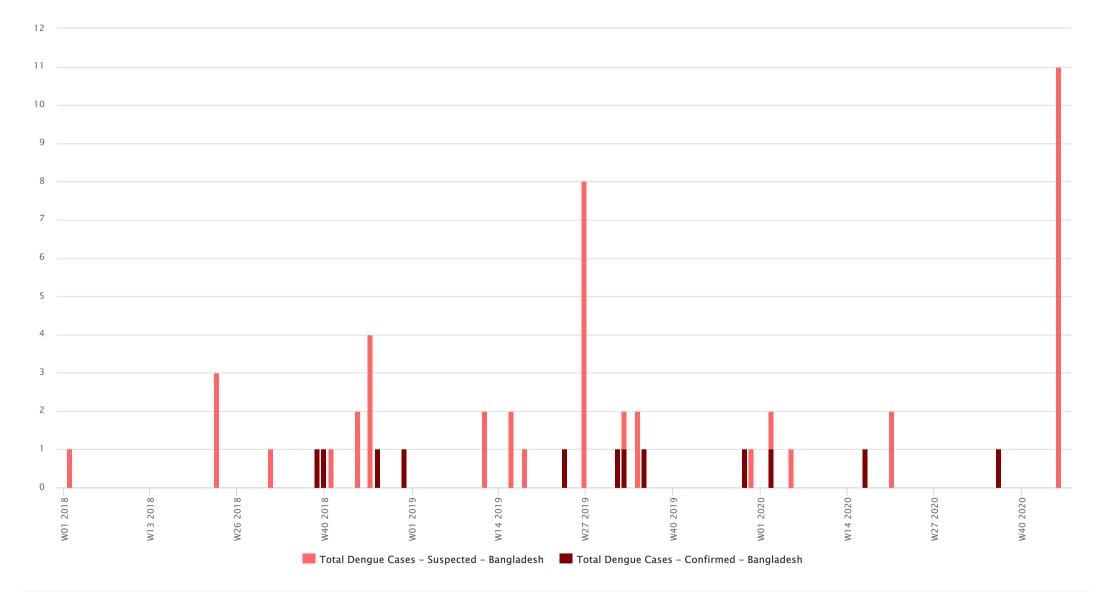






Figure 7 | Trend in number of cases over time (W38 2017 - W49 2020)







Map 4 | Map of cases by camp (W37 2017 - W49 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

### Alert management (W49 2020)

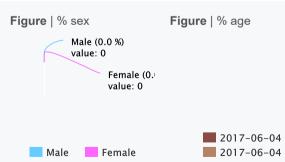










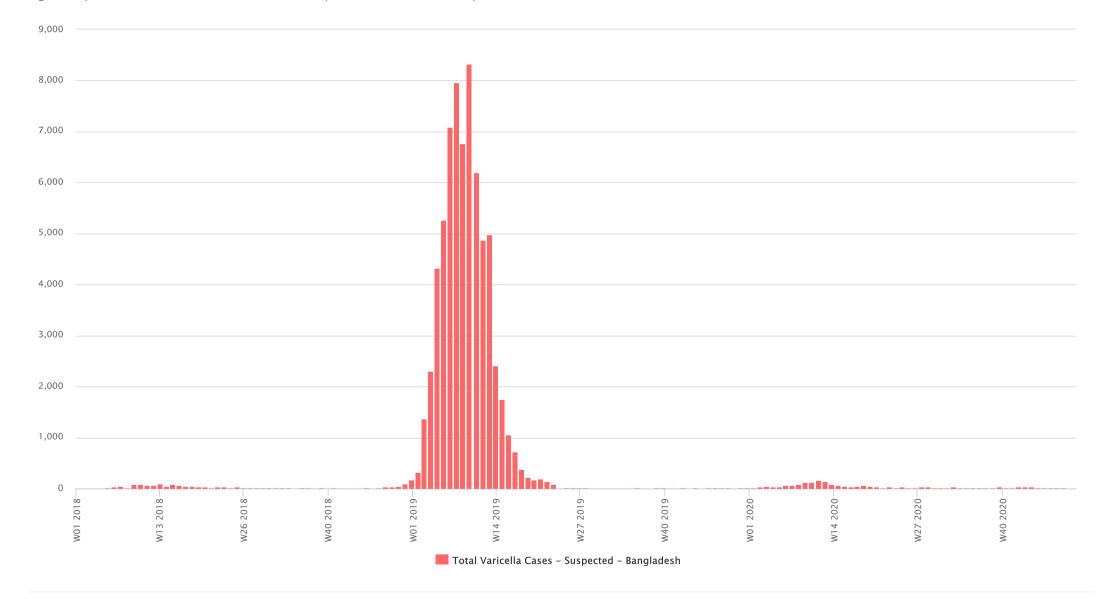






# Varicella (Susp.) | Trends

Figure 7 | Trend in number of cases over time (W38 2017 - W49 2020)







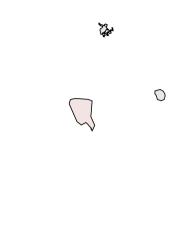
# Varicella (Susp.) | Maps

Map 4 | Map of cases by camp (W37 2017 - W49 2020)

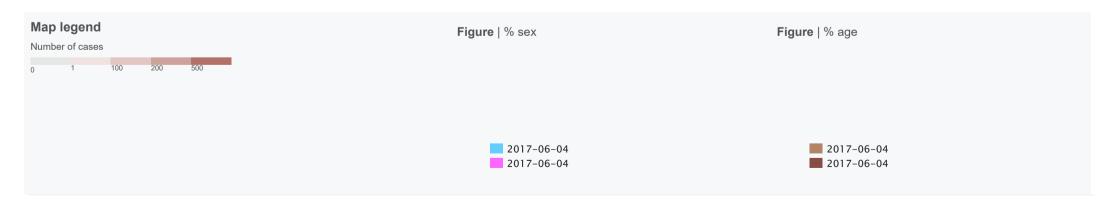
a. Ukhia | Number of cases



c. Teknaf | Number of cases









# 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. Feroz Hayat Khan NPO(Disease Surveillance & Epidemiology) World Health Organization Cox's Bazar, Bangladesh

Telephone: +88 017 0120 2994

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

Sign up for an account with ENADS Bangladach at http://bd.augra.w







