

# South Sudan

## Integrated Disease Surveillance and Response (IDSR)

Epidemiological Bulletin Week 07, 2020 (February 10 – February 16)



## Major Epidemiological Highlights in week 07 of 2020

- In week 07, 2020 IDSR reporting completeness was 85% and timeliness was 71% at health facility level. EWARN reporting both completeness and timeliness were 86%.
- Of the 91 alerts in week 07, 2020; 79% were verified 0% were risk assessed and 0% required a response. Malaria (20), AWD (15), measles (19) and bloody diarrhea (13) were the top common alerts generated through the EWARS in week 07, 2020.
- New confirmed outbreak of measles in Tonj South county after all 04 samples tested measles IgM positive
- New confirmed outbreak of rubella in Leer county after 03 out of 06 samples tested rubella IgM positive and Yirol West county after all 03 samples tested rubella IgM positive
- No confirmed cases of Yellow Fever in Kajo-Keji (all 42 samples tested PCR negative for YF and have been shipped to UVRI for serological testing)
- Since week 7 of 2019, a total of 284 ILI/SARI samples have been collected and tested in UVRI 228 being negative; 6 (3%) positive for Influenza B (Victoria); 13(7%) positive for Influenza A (H3); and 12(6%) positive for Influenza A (H1)pdm09 and (16) samples are pending test results .

# SURVEILLANCE PERFORMANCE

For the Integrated Disease Surveillance (IDSR)  
network and Early warning alert and response  
network (EWARN)

## IDSR Timeliness and Completeness Performance at Facility Level for week 07, 2020

Completeness States Ranking	States	Supporting Partners	Total No. of Functional Health Facilities in the State	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported regardless of Time	Completeness Percentage
1st	Lakes	Doctors with Africa (CUAMM), LIVEWELL	116	99	85%	116	100%
2nd	WES	AMREF, World Vision, CUAMM, CDTY, OPEN	213	139	65%	208	98%
3rd	Warrap	GOAL, CCM, WVI, Malaria Consortium, UNKEA, Save the Children, MSF	126	92	73%	121	96%
4th	Unity	Cordaid, UNIDOR, IRC, CHADO, CARE International, CRADA, CASS	91	82	90%	86	95%
5th	CES	HLSS, SSUHA, Healthnet TPO, IHO, GOAL, TRI-SS	121	100	83%	100	83%
6th	Jonglei	Nile Hope, MDM, JDF, Livewell, CMD, HFO, EDA, CRADA, Malaria Consortium, CMA	155	124	80%	129	83%
7th	WBG	Cordaid, Healthnet TPO, CARE International	77	47	61%	63	82%
8th	EES	Cordaid, HLSS, CCM	145	77	53%	110	76%
9th	NBG	Malaria Consortium, Healthnet TPO, IRC, CEDS, IHO	146	92	63%	106	73%
10th	Upper Nile	Cordaid, WVI, RI, IMC, NIDO, UNKEA, MC, SSAID	115	70	61%	72	63%
	South Sudan		1305	922	71%	1111	85%

### Key

	<60%	Poor
	61%-79%	Fair
	80%-99%	Good
	100%	Excellent

The timeliness of IDSR reporting (supported by EWARS mobile) at health facility level was 71% and completeness was 85%. Total of 7 states are above the target of 80% with highest reporting performance in Lakes with completeness of 100%, while only 3 states are below the target of 80%.

## IDSR Timeliness and Completeness Performance at County Level for week 07, 2020 (1)

Counties	Supporting Partners	Total No. of Functional Health Facilities in the County	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported regardless of time	Completeness Percentage
Rumbek Centre	Doctors with Africa (CUAMM)	23	23	100%	23	100%
Rumbek East	Doctors with Africa (CUAMM)	24	24	100%	24	100%
Rumbek North	Doctors with Africa (CUAMM)	7	7	100%	7	100%
Wulu	Doctors with Africa (CUAMM)	14	14	100%	14	100%
Cueibet	Doctors with Africa (CUAMM)	15	15	100%	15	100%
Yirol East	Doctors with Africa (CUAMM),LIVEWELL	14	14	100%	14	100%
Yirol West	Doctors with Africa (CUAMM)	12	12	100%	12	100%
Awerial	Doctors with Africa (CUAMM)	7	7	100%	7	100%
Yambio	World Vision International	42	38	90%	38	90%
Ibba	AMREF	11	11	100%	11	100%
Maridi	AMREF	26	26	100%	26	100%
Mundri West	CUAMM	21	20	95%	20	95%
Mundri East	CUAMM	19	19	100%	19	100%
Tambura	World Vision International	26	26	100%	26	100%
Mvolo	CUAMM	11	11	100%	11	100%
Nzara	World Vision International	20	20	100%	20	100%
Nagero	World Vision International	10	10	100%	10	100%
Ezo	World Vision International	27	26	96%	26	96%
Abiemnhom	Cordaid	4	4	100%	4	100%
Koch	CRADA,IRC.	6	6	100%	6	100%

Counties	Supporting Partners	Total No. of Functional Health Facilities in the County	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported regardless of time	Completeness Percentage
Gogrial West	GOAL	32	32	100%	32	100%
Gogrial East	GOAL	15	14	93%	14	93%
Abyei	AAA,Save the Children,MSF	15	10	67%	10	67%
Tonj East	CCM	12	12	100%	12	100%
Tonj South	CCM	12	12	100%	12	100%
Tonj North	CCM	14	14	100%	14	100%
Twic Mayardit	GOAL	26	26	100%	26	100%
Bor	MDM + JDF	35	30	86%	30	86%
Duk	MDM + JDF	15	15	100%	15	100%
Pibor	LIVEWELL,CRADA	14	5	36%	5	36%
Akobo	NILE HOPE	8	8	100%	8	100%
Fangak	CMD,HFO	16	16	100%	16	100%
Uror	Nile Hope,Malaria Consortium	8	7	88%	7	88%
Nyirol	CMA,Malaria Consortium	11	10	91%	10	91%
Twic East	MDM + JDF	11	11	100%	11	100%
Ayod	CMD,EDA	15	15	100%	15	100%
Pochalla	LIVEWELL	9	9	100%	9	100%
Pigi Canal	IMC	6	3	50%	3	50%
Mayendit	CASS	13	13	100%	13	100%
Guit	CHADO	7	6	86%	6	86%

## IDSR Timeliness and Completeness Performance at County Level for week 07, 2020 (2)

Counties	Supporting Partners	Total No. of Functional Health Facilities in the County	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported regardless of time	Completeness Percentage
Malakal	IMC	4	4	100%	4	100%
Akoka	IMC	5	0	0%	0	0%
Baliet	IMC	5	2	40%	2	40%
Renk	WVI + RI	13	10	77%	10	77%
Melut	WVI + RI	8	6	75%	6	75%
Manyo	CORDAID	6	5	83%	5	83%
Maiwut	RI	4	4	100%	4	100%
Fashoda	CORDAID	13	8	62%	8	62%
Ulang	UNKEA,RI	11	1	9%	1	9%
Maban	WVI + RI	17	15	88%	15	88%
Luakping Nasir	UNKEA,RI	19	9	47%	9	47%
Longechuk	RI	9	8	89%	8	89%
Panyikang	IMC	4	0	0%	0	0%
Aweil West	HealthNetTPO	39	16	41%	16	41%
Aweil East	IRC,TADO	44	44	100%	44	100%
Aweil Center	Malaria Consortium(MC)	17	12	71%	12	71%
Aweil South	Malaria Consortium(MC),IHO	11	9	82%	9	82%
Aweil North	HealthNetTPO,IHO	33	25	76%	25	76%
Pariang	CARE International	11	11	100%	11	100%
Panyijjar	IRC	15	15	100%	15	100%

Counties	Supporting Partners	Total No. of Functional Health Facilities in the County	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported regardless of time	Completeness Percentage
Juba	HLSS	44	41	93%	41	93%
Kajo-Keji	SSUHA,GOAL,TRI-SS	11	10	91%	10	91%
Yei	SSUHA	19	15	79%	15	79%
Lainya	SSUHA	16	9	56%	9	56%
Morobo	SSUHA	4	1	25%	1	25%
Terekeka	HealthNetTPO	25	24	96%	24	96%
Torit	Cordaid	20	20	100%	20	100%
Lopa Lafon	HLSS	18	15	83%	15	83%
Ikotos	HLSS	27	21	78%	21	78%
Magwi	HLSS	22	18	82%	18	82%
Budi	Cordaid	21	8	38%	8	38%
Kapoeta South	CCM	10	10	100%	10	100%
Kapoeta East	CCM	12	9	75%	9	75%
Kapoeta North	CCM	15	9	60%	9	60%
Wau	Cordaid	28	25	89%	25	89%
Raja	HealthNetTPO	14	10	71%	10	71%
Jur River	Cordaid	35	28	80%	28	80%
Rubkona	Cordaid,IRC,IOM,MSF	15	15	100%	15	100%
Mayom	CASS	9	9	100%	9	100%
Leer	UNIDOR	10	7	70%	7	70%



## Surveillance | EWARS surveillance performance indicators by partner week 07, 2020

Partner	Performance		Reporting	
	# of sites	# of reports received	Completeness	Timeliness
CMD	1	1	100%	100%
GOAL	2	2	100%	100%
HAA	5	5	100%	100%
<b>HLSS</b>	<b>1</b>	<b>0</b>	<b>0%</b>	<b>0%</b>
HFO	3	3	100%	100%
IHO	2	2	100%	100%
IMA	8	7	88%	88%
IMC	8	4	50%	50%
MDM	10	5	50%	50%
SMC	5	5	100%	100%
IOM	13	13	100%	100%
<b>IRC</b>	<b>1</b>	<b>0</b>	<b>0%</b>	<b>0%</b>
LIVEWELL	4	4	100%	100%
<b>MEDAIR</b>	<b>2</b>	<b>0</b>	<b>0%</b>	<b>0%</b>
MEDICAIR	9	9	100%	100%
<b>MSF-E</b>	<b>2</b>	<b>0</b>	<b>0%</b>	<b>0%</b>
<b>MSF-H</b>	<b>2</b>	<b>0</b>	<b>0%</b>	<b>0%</b>
RHS	3	3	100%	100%
TADO	4	3	75%	75%
TRI-SS	2	1	50%	50%
UNH	2	2	100%	100%
UNIDOR	1	1	100%	100%
WORLD RELIEF	1	1	100%	100%
<b>TOTAL</b>	<b>91</b>	<b>71</b>	<b>78%</b>	<b>78%</b>

- Both completeness and timeliness were 78% for weekly reporting in week 07, 2020 for partner-supported clinics serving IDP sites. The cumulative completeness and timeliness were 46% and 45% respectively for 2020.



# EVENT-BASED SURVEILLANCE

Alert management including detection;  
reporting; verification; risk assessment; & risk  
characterization

## Alert by disease and Hubs in Week 07, 2020 [A total of 91 event specific alerts generated by Hubs]

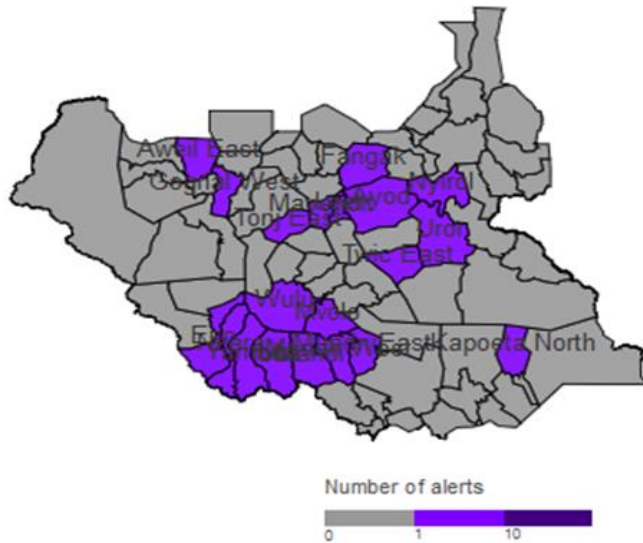
States	AJS	ARI	Acute Watery Diarrhoea	Bloody Diarrhoea	AFP	Cholera	Malaria	Measles	Total Alerts
Jonglei									0
Warrap			4	6			2	2	14
EES		1	3	3			2	5	14
Unity	1	4			1		2	6	14
WES		9	3				13		25
CES		2	2			1		2	7
NBG		2	1		1	1	1	2	8
Lakes									0
WBG			1	4				1	6
UNS		1	1					1	3
<b>Total Grand</b>	<b>1</b>	<b>19</b>	<b>15</b>	<b>13</b>	<b>2</b>	<b>2</b>	<b>20</b>	<b>19</b>	<b>91</b>

### During this week:

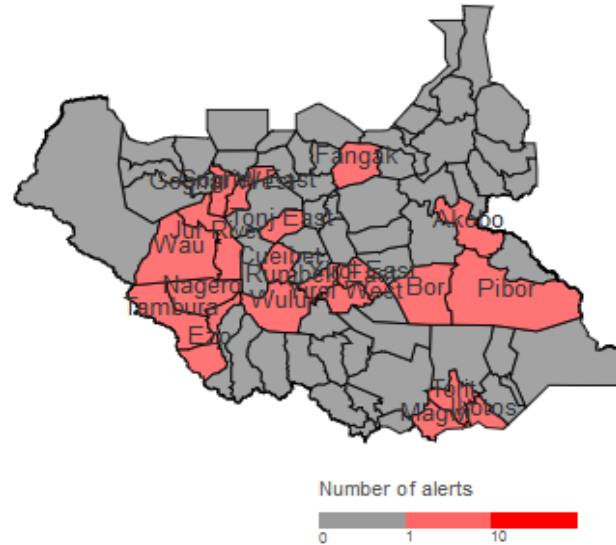
- 1 AJS alert: In response
- 19 ARI: 8 with ongoing verification, 11 been monitored
- 15 AWD alert: 9 with ongoing verification, 6 been monitored.
- 13 ABD: 5 with ongoing verification, 8 been monitored
- 20 Malaria alerts: 5 with ongoing verification, 14 under monitoring and 1 in response stage.
- 19 Measles alert: 11 with ongoing verification, 4 under monitoring and 4 in response
- 2 AFP alert: 1 with Ongoing verification and 1 in response
- 2 Cholera alert: with ongoing verification

# Alert | Map of key disease alerts by county week 07, 2020

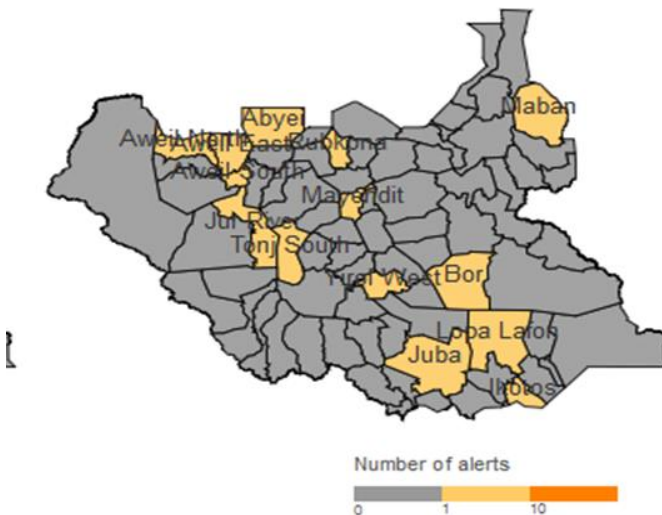
Map 2a | Malaria (W7 2020)



Map 2b | Bloody diarrhoea (W7 2020)



Map 2c | Measles (W7 2020)



Map 2d | Cholera (W7 2020)

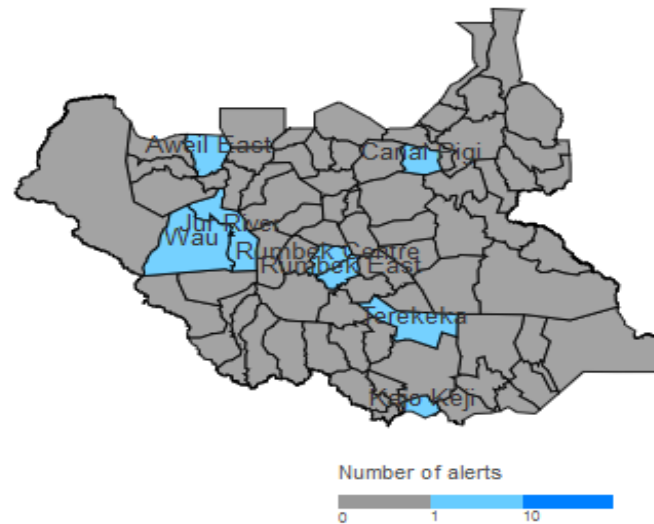


Table 8 Summary of key alert indicators

W7	Cumulative (2020)	
198	1421	Total alerts raised
79%	66%	% verified
0%	0%	% auto-discarded
4%	1%	% risk assessed
4%	1%	% requiring a response

Table 10 | Event risk assessment

W7	Cumulative (2020)	
0	0	Low risk
0	0	Medium risk
2	4	High risk
5	7	Very high risk

# SUSPECTED OUTBREAKS IN 2019

Major suspected outbreaks in South Sudan in  
2019

# Yellow Fever Investigation Kajo-Keji 12-18 Feb, 2020

- On 22<sup>nd</sup> Feb 2020, UVRI notified Moyo district (Kajo-Keji/South Sudan border) of two confirmed cases of YF (South Sudanese Refugees).
- South Sudan deployed a national rapid response team to Kajo-Keji (where the confirmed cases in Uganda visited) to confirm the existence of YF outbreak.
- Total of 42 samples were collected and all tested PCR negative for YF and have been shipped to UVRI for serological testing
- Recommendation is to consider preventive YF campaign in Greater Equatoria

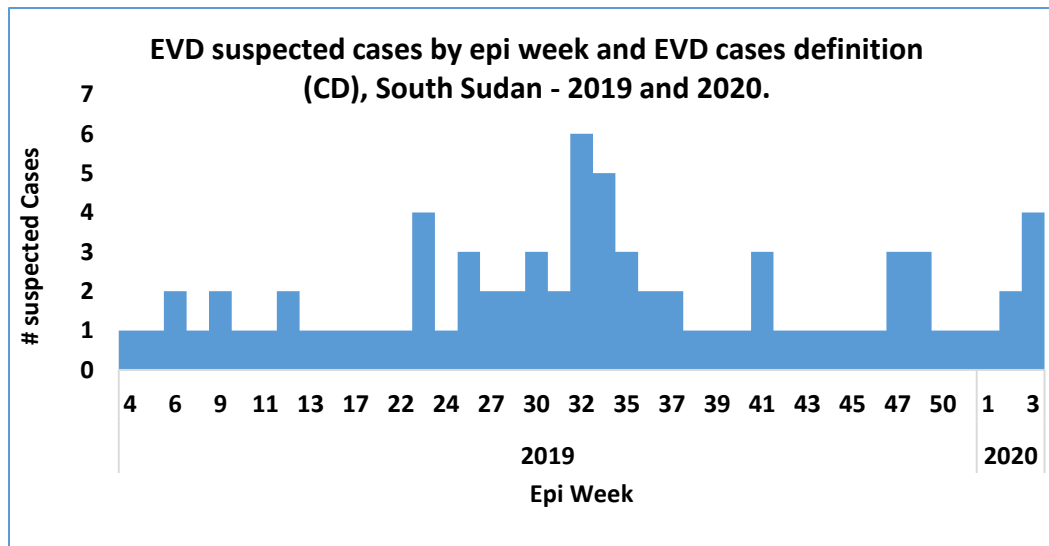
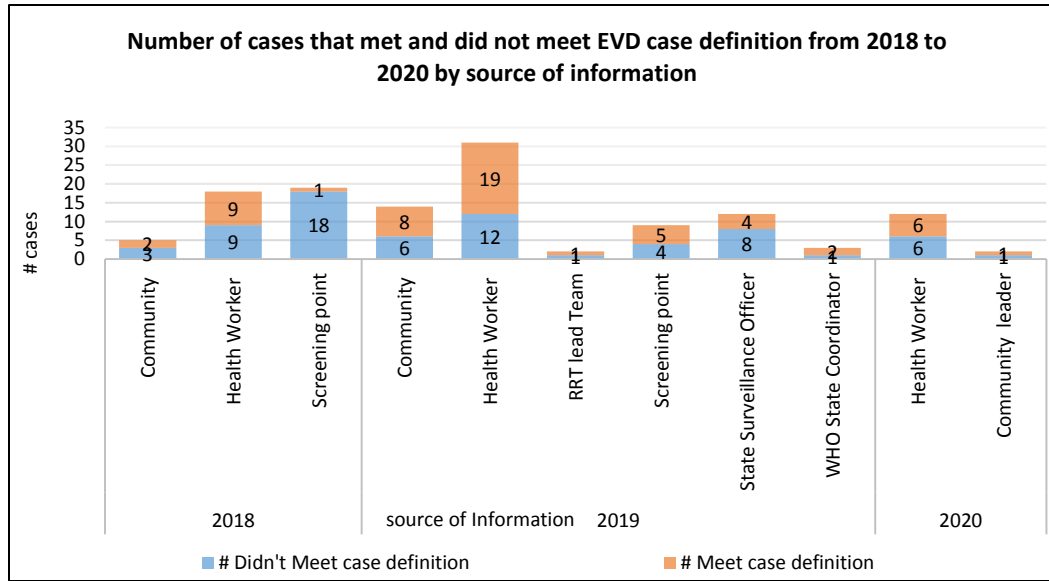


## EVD Suspect cases in South Sudan 2018 and 2019 as of week 03, 2020

Met EVD cases definition			
<b>2018</b>	<b>30</b>	<b>12</b>	<b>42</b>
Community	3	2	5
Health Worker	9	9	18
Screening point	18	1	19
<b>2019</b>	<b>32</b>	<b>39</b>	<b>70</b>
Community	6	8	14
Health Worker	12	19	30
RRT lead Team	1	1	2
Screening point	4	5	9
State Surveillance Officer	8	4	12
WHO State Coordinator	1	2	3
<b>2020</b>	<b>7</b>	<b>7</b>	<b>7</b>
Health Worker	6	6	6
Community leader	1	1	1
<b>Grand Total</b>	<b>69</b>	<b>58</b>	<b>119</b>

- Since August 2018, at least 119 suspect EVD cases have been reported, of which:
- Most 70 (58.8%) have been reported in 2019
- Most of the suspect EVD cases have been reported by health workers at health facility level
- **No new alerts were reported since week 03, 2019**

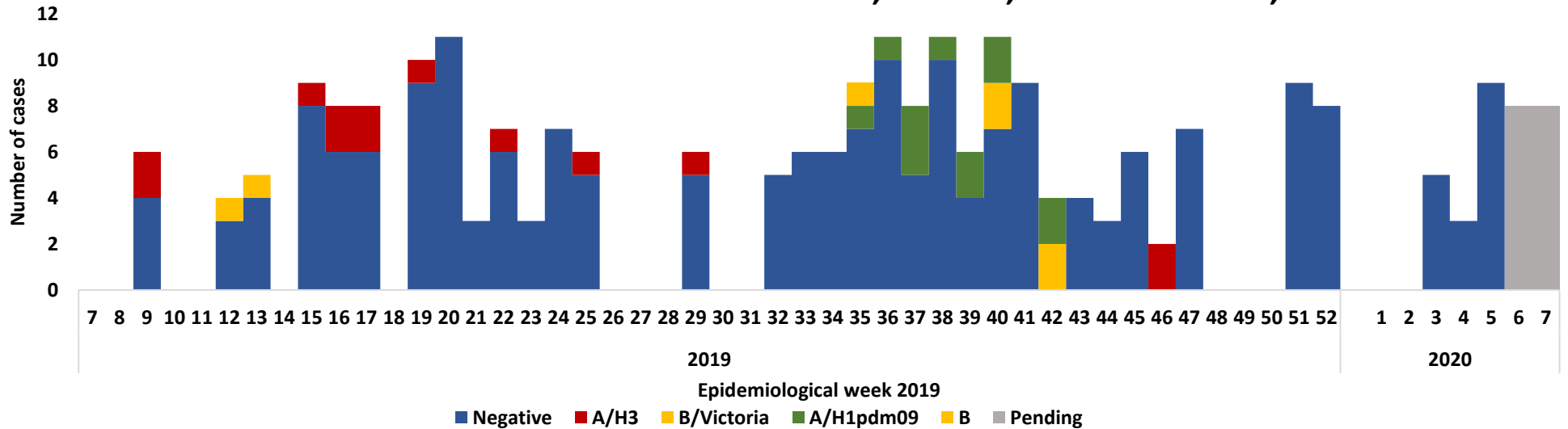
# EVD Suspect cases in South Sudan 2018 and 2019 as of week 03, 2020



- Most of the suspect EVD cases have been reported in adults 18 years and above (72%)
- Similarly, most suspect EVD cases have been reported in males (56%)
- The distribution suspect EVD cases in both children <18years and adults ≥18yrs is skewed towards the males
- The number of suspect EVD cases reported per in week 03, 2020 were 4 cases
- **No new alerts were reported since week 03, 2019**

## Routine Sentinel Surveillance | Human Influenza

Influenza isolates from sentinel sites in Juba, week 7, 2019 to week 7, 2020.



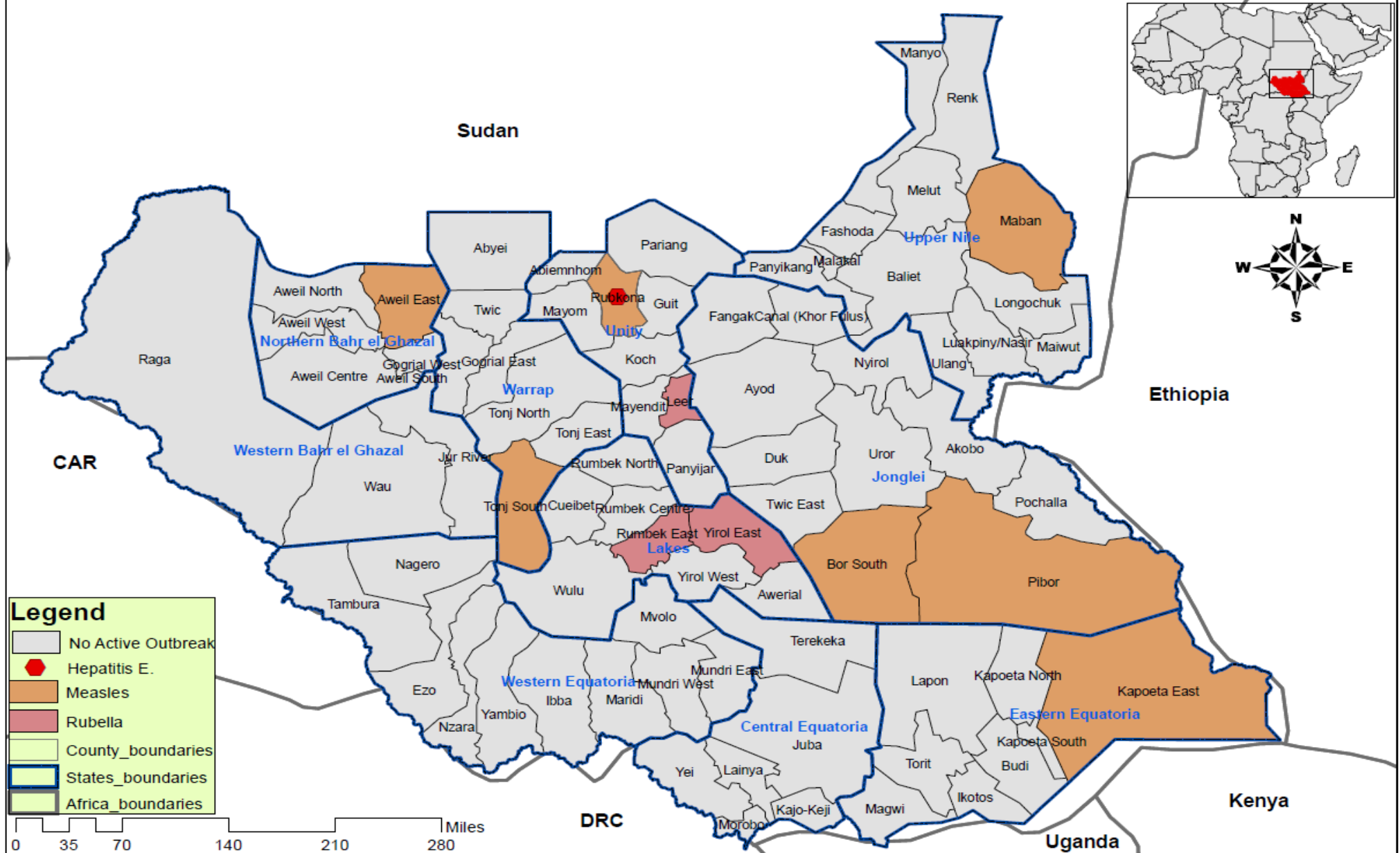
- In week 7, 2019, South Sudan started case-based surveillance for Influenza Like Illness (ILI) and Severe Acute Respiratory Infection (SARI) cases through systematic collection of epidemiological and virological information
- There are currently two designated Influenza sentinel surveillance sites in Juba (Juba Teaching Hospital and Al Sabah Children’s Hospital) that are collecting epidemiological data and samples from ILI/SARI cases
- Since week 7 of 2019, a total of 284 ILI/SARI samples have been collected and tested in UVRI 228 being negative; 6 (3%) positive for Influenza B (Victoria); 13(7%) positive for Influenza A (H3); and 12(6%) positive for Influenza A (H1)pdm09 and (16) samples are pending test results .
- Since the beginning of 2019; Influenza A (H3) has been the predominant isolate. However, Influenza A (H1)pdm09 emerged from week 35 as a new circulating strain.



# ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS

Brief epidemiological description and public health response for active outbreaks and public health events

# Map of South Sudan showing counties with active outbreaks of Measles, Rubella and Hepatitis E in 2020.



Disclaimer: The boundaries and names shown and the designations used on this map do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries.

# Response | Summary of major ongoing outbreaks in 2019 and 2020

Aetiological agent	Location (county)	Date first reported	New cases since last bulletin	Cumulative cases to date (attack rate %)	Interventions			
					Case management	Vaccination	Health promotion	WASH
<b>Ongoing epidemics</b>								
Hepatitis E	Bentiu PoC	03/01/2018	2	173 (0.011)	Yes	No	Yes	Yes
Measles	Bentiu PoC	24/04/2019	8	373(0.021)	Yes	Yes	Yes	N/A
Measles	Juba	21/11/2019	NR	6( 0.1667)	Yes	No	Yes	N/A
Measles	Maban	1/11/2019	1	137(0.007)	yes	No	Yes	N/A
Rubella	Rumbek East	17/9/2019	NR	23(0.35)	yes	No	Yes	N/A
Measles	Tonj East	12/12/2019	6	61(0.98)	yes	Yes	Yes	N/A
Measles	Jebel Boma	10/12/2019	6	96(0.063)	yes	No	Yes	N/A
Measles	Bor	17/01/2020	3	14(0.214)	yes	No	yes	N/A
Measles	Aweil East	02/01/2020	9	190(0.047)	yes	No	yes	N/A
Measles	Kapoeta East	18/01/2020	10	16(0.625)	yes	No	Yes	N/A

# Measles Lab Updates as of week 6 and 7, 2020

County	No. of samples tested	New Measles IgM +ve	New Rubella IgM +ve	Turnaround Time in days*
Kapoeta East	16	6	0	3
Leer	6	0	3	3
Tonj South	4	4	0	9
Yirol West	3	0	3	3
Nzara	3	1	0	12
Juba/Gumbo	2	0	0	3
Abyei	1	0	0	9
Torit	1	0	0	3

- A total of 36 samples from 8 different counties tested for measles in week 6 and 7
- Eleven(11) samples were positive for measles IgM and 6 positive for Rubella IgM
- New confirmed measles outbreaks in Kapoeta East and Tonj South
- And new Rubella outbreaks in Leer and Yirol west counties
- The average turnaround time is 5 days for all samples

\*the Turnaround time here is the days between sample reception in the lab and feedback to the states

## ● Measles outbreaks confirmed in 2020

- 5 counties – Tonj East, Magwi, Bor
- New confirmed: Kapoeta East and Tonj South

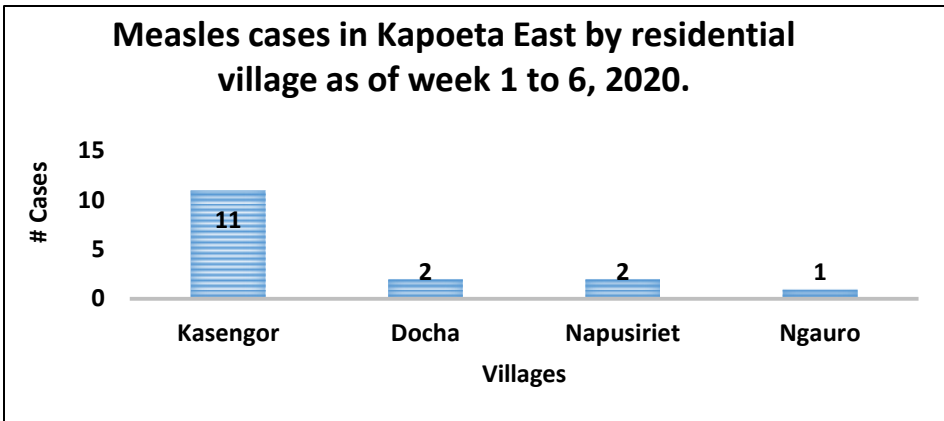
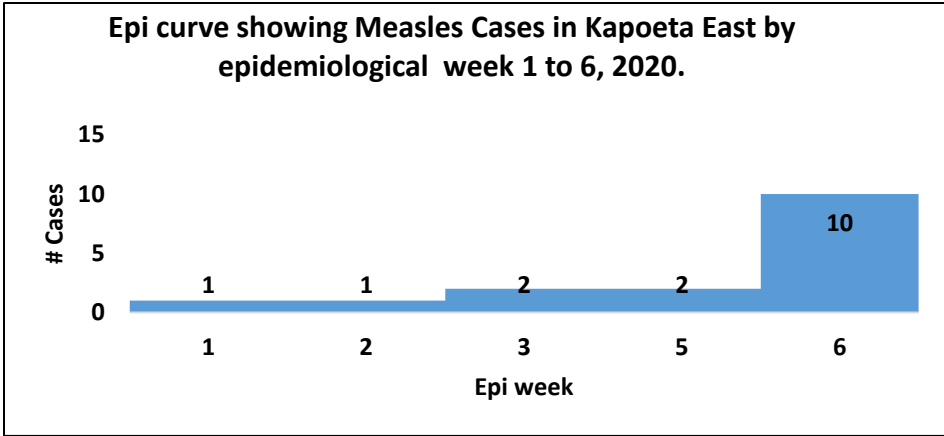
## New confirmed measles outbreaks and response dates:

- Bor: **Mass campaign completed**
- Magwi: **Mass campaign completed**
- Tonj East: **Mass campaign completed**
- **Kapoeta East: Mass campaign completed (Kassengor is part of Jebel Boma reactive campaign starting on 26<sup>th</sup> Feb 2020)**
- Tonj South: **Mass Campaign completed**

# Measles Outbreak situation & response by county as of week 07, 2020

S/N	County	Population	Confirmed cases	Probable cases	Total cases	Cases per 100,000	Total deaths	CFR %	Date first reported	Emergency Campaign	Admin Coverage	Implementing Partner	Status	Comments
1	Tonj East	180,809	13	48	61	33.73725865	0	0	12-Dec-19	Mass Campaign	Pending result	Mass Campaign	active	Mass Campaign Completed
2	Magwi	4699302	5	5	10	0.21279756	0	0	19-Sep-19	Mass Campaign	Pending result	Mass Campaign	active	Mass Campaign Completed
3	Bor	320,956	7	4	11	3.427261058	0	0	17-Jan-19	Mass Campaign	115.60%	Mass Campaign	active	Mass Campaign Completed
4	Kapoeat East	601,726	6	10	16	2.659017559	0	0	18-Jan-20	Reactive Campaign (Jebel Boma)	Reactive Campaign to start on 26 Feb 2020	IRC	active	Reactive Campaign to start on 26 Feb 2020
5	Awiel East				190		0	0	2-Jan-20				active	
<b>Total</b>		<b>5,201,067</b>	<b>31</b>	<b>67</b>	<b>288</b>	<b>40.03633483</b>	<b>0</b>	<b>0</b>						

# Confirmed Measles Outbreak in Kapoeta East County



Age Group	Cases	Percentage	CUM. %
0 - 4 Years	13	81%	81%
5 - 9 Years	3	19%	100%
<b>Grand Total</b>	<b>16</b>	<b>100%</b>	

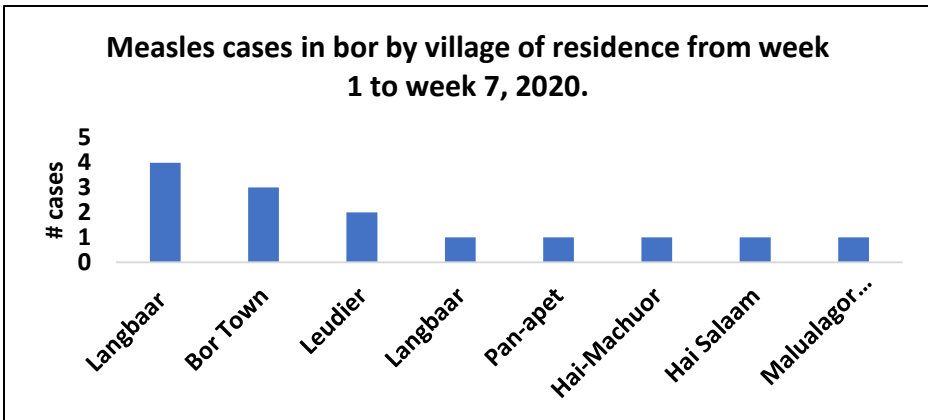
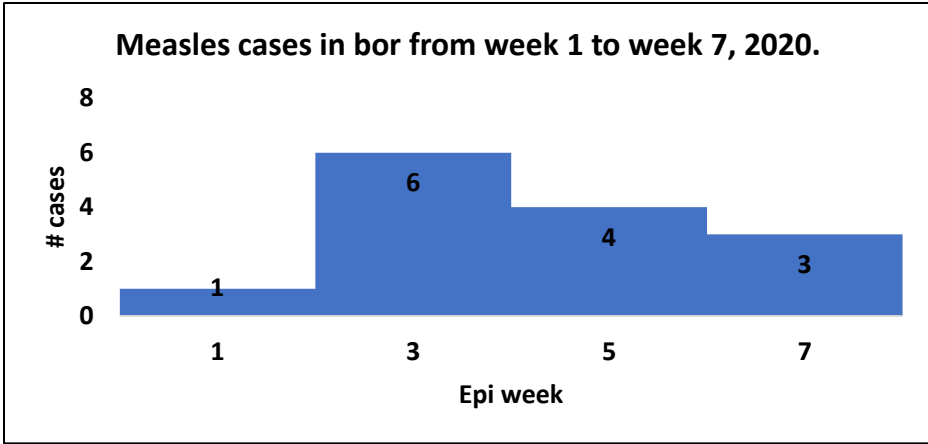
## Descriptive Epidemiology:

- Initial cases were reported on 18<sup>th</sup> January 2020
- A total of 16 Suspected Measles case have been line listed in Kapoeta East county
- 10 new cases were reported in week 06, 2020
- 16 samples were collected of which 06 samples tested IgM positive for measles.
- The most affected payams are: Kasengor and Docha
- (13) 81% of the cases are less than 5 years of age
- Female were 25% and male were 75%

## Response and Recommendations

- Reactive campaign micro plan was developed, targeting 6 payams in Jebel Boma County and part of Kapoeta East (Kasengor). SMOH, Care International and partners are to conduct a reactive campaign on 26th February, 2019
- Enhancing surveillance and active case search ongoing
- Case management is ongoing in Bor State Hospital

# Confirmed Measles Outbreak in Bor County



Age-Group	Cases	Percentage	Cum. %
0 - 4 Years	10	71%	71%
10 - 14 Years	3	21%	93%
5 - 9 Years	1	7%	100%
<b>Grand Total</b>	<b>14</b>	<b>100%</b>	

## Descriptive Epidemiology:

- Initial cases were reported on 17<sup>th</sup> January 2020
- A total of 14 Suspected Measles case have been line listed in Bor county
- 3 new cases were reported in week 07, 2020
- 8 samples were collected of which 07 samples tested IgM positive for measles.
- The most affected payams are: Langbaar and Bor Town
- (10) 71% of the cases are less than 5 years of age
- Female were 64% and male were 36%

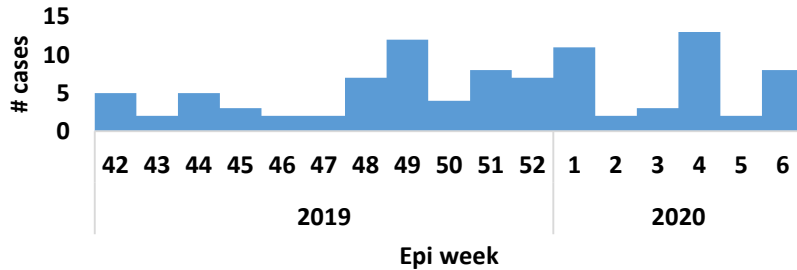
## Response and Recommendations

- Mass campaign started on 6<sup>th</sup> February 2020 , coverage was 115.6%
- Enhancing surveillance and active case search ongoing
- Case management is ongoing in Bor State Hospital

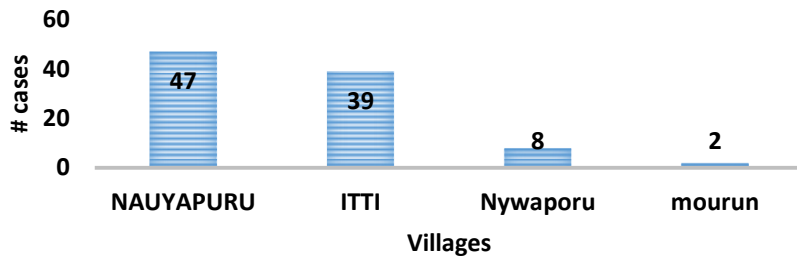


# Confirmed Measles Outbreak in Jebel Boma County

Measles cases in Boma from week 42, 2019 to week 6, 2020.



Measles cases by Location in Boma 2019 and 2020



Age-group	Cases	Percentage	% Cum.
0 - 4 Years	82	85%	85%
5 - 9 Years	11	11%	97%
10 - 14 Years	2	2%	99%
15+ Years	1	1%	100%
<b>Grand Total</b>	<b>96</b>	<b>100%</b>	

## Descriptive Epidemiology:

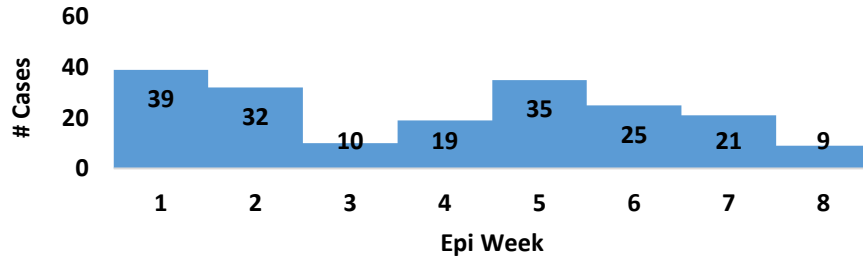
- Initial cases were reported on 14th October 2019
- A total of 96 Suspected Measles case have been line listed in Jebel Boma county
- 6 new cases were reported in week 04, 2020
- 11 samples were collected of which, 08 samples tested IgM positive for measles.
- The most affected payams are: Nauyapuru and Ititi (85) 82% of the cases are less than 5 years of age
- Female were 51% and male were 49%
- 11 community deaths were reported in Jebel Boma county

## Response and Recommendations

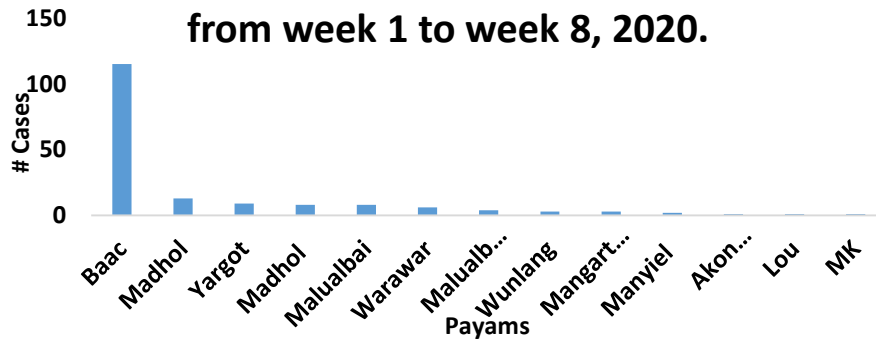
- Reactive campaign micro plan was developed, targeting 6 payams in Boma County and part of Kapoeta East. SMOH, Care International and partners are to conduct a reactive campaign on 26<sup>th</sup> February, 2019
- Surveillance and line-listing are ongoing
- Case management is ongoing in Jebel Boma Hospital

# Confirmed Measles Outbreak in Aweil East County

**Measles cases in Aweil East from week 1 to week 8, 2020.**



**Measles cases in Aweil East by Payam from week 1 to week 8, 2020.**



## Descriptive Epidemiology:

- Initial cases were reported on 2<sup>nd</sup> Jan, 2020
- A total of 190 suspected measles cases have been line listed in Aweil East county
- Majority of the cases were from Baac and Madhol payams
- 09 new cases were reported in week 08, 2020
- (101) 53% of the cases are less than 5 years of age
- Male were 55% of cases and female were 45%

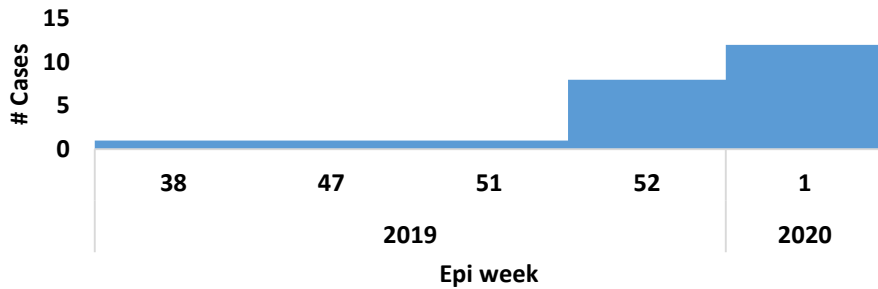
## Response and Recommendations

- Reactive campaign was finalized in Aweil East on 24th January, 2020 by SMOH and IOM, coverage was 119% and PCE coverage was 91.5%.
- Majority of the cases reported this week were from Baac payam with administrative coverage of 73% which is not sufficient to interrupt transmission.
- Samples were collected waiting shipment to Juba
- Surveillance and line-listing are ongoing
- Case management is ongoing

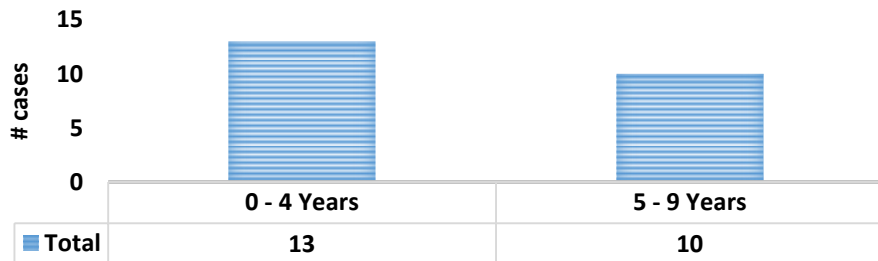
Age Group	Cases	Percentage	Cum.%
0 - 4 Years	101	53%	53%
15 + Years	46	24%	77%
10 - 14 Years	24	13%	90%
5 - 9 Years	19	10%	100%
<b>Grand Total</b>	<b>190</b>	<b>100%</b>	

# Confirmed Rubella Outbreak in Rumbek East County

Measles cases in Rumbek East from week 38, 2019 to week 1, 2020.



Measles cases in Rumbek East by Age group.



## Descriptive Epidemiology:

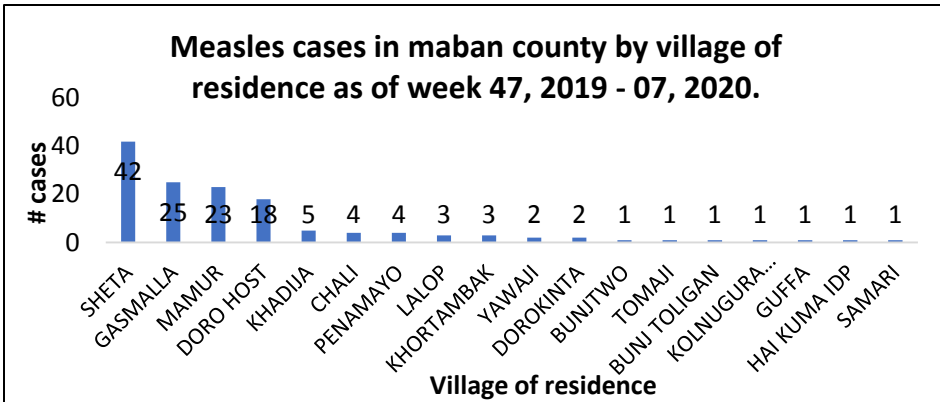
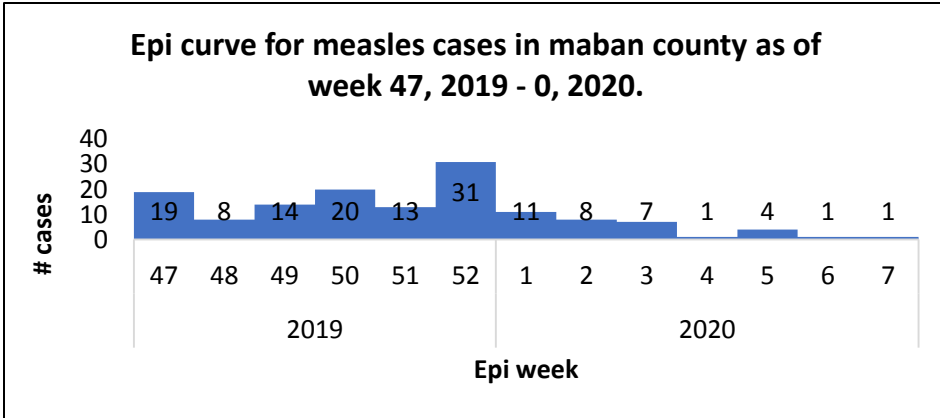
- Initial cases were reported in week 38, 2019
- A total of 23 suspected measles cases have been line listed in Rumbek East county
- Total of 08 samples were sent to NPHL, 05 turned out Rubella IgM positive and 03 were both Measles and Rubella IgM negative
- 10 new cases were reported in week 01, 2020
- (13) 57% of the cases are less than 5 years of age
- Male were 65% of cases and female were 35%

## Response and Recommendations

- Mass campaign was finalized in Greater Rumbek on 16<sup>th</sup> February 2020
- Surveillance and line-listing are ongoing
- Case management underway

Age_Group	Cases	Percentage	% Cum.
0 - 4 Years	13	57%	57%
5 - 9 Years	10	43%	100%
<b>Grand Total</b>	<b>23</b>	<b>100%</b>	

# Confirmed Measles Outbreak in Maban County



Age group	Cases	Percentage	Cum. %
0 - 4 Years	106	77%	77%
5 - 9 Years	15	11%	88%
10 - 14 Years	9	7%	94%
15+ Year	8	6%	100%
<b>Grand Total</b>	<b>138</b>	<b>100%</b>	

## Descriptive Epidemiology:

- Initial cases were reported on 1<sup>th</sup> November 2019
- A total of 138 Suspected Measles case have been line listed in Maban county
- 01 new case were reported in week 07, 2020
- 12 samples were collected of which, 11 samples tested positive for measles and (1) positive for Rubella IgM
- The most affected payams are: Sheeta and Gasmalla
- 77% of the cases are less than 5 years of age
- 46% of cases are females while 54% are male
- No deaths reported

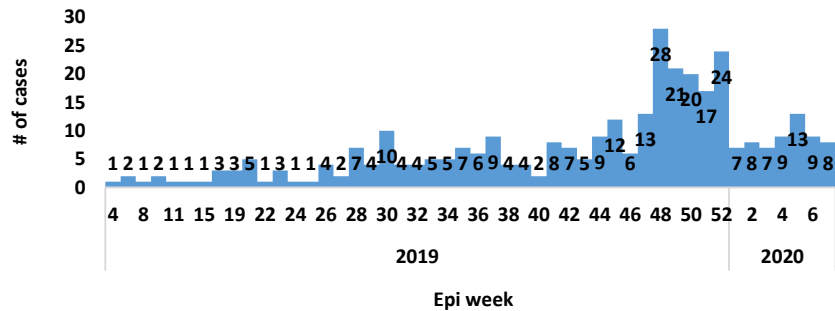
## Response and Recommendations:

- Rapid response team deployed to support the response
- Reactive campaign micro plan has been developed for the whole county pending phase 2 mass campaign on 10<sup>th</sup> March, 2020
- Surveillance and line-listing are ongoing
- Case management is ongoing
- SMOH, MSF-B conducted a reactive campaign on 4<sup>th</sup> Dec, 2019 targeted 7394 children age 6 months to 15 years in the affected areas in Maban with an average of 73.94%.

# Response | Confirmed epidemics

## Confirmed Measles and Rubella outbreak in Bentiu PoC

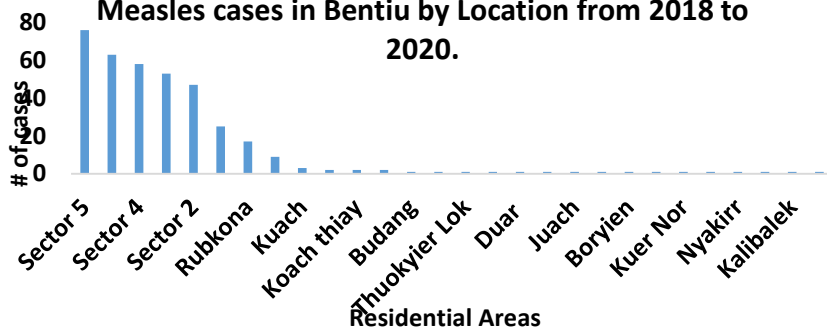
Measles cases in Bentiu from week 4, 2019 to week 7, 2020



### Epidemiological description

- Bentiu PoC has been reporting suspected measles/rubella cases since week 4 of 2019.
- 08 new cases reported in week 07, 2020
- At least 373 measles cases including 1 death (CFR 0.3%) reported since then.
- Cumulatively, 36 tested cases have tested measles IgM positive while 15 tested rubella IgM positive.
- 46% of cases are female and 54% are male
- 95% are under 5 yrs old, 5% are 5 yrs old and above
- Cases have been reported from inside and outside the PoC with most of the cases originating from the PoC (most cases from sector 5 but generally all the sectors are affected).

Measles cases in Bentiu by Location from 2018 to 2020.

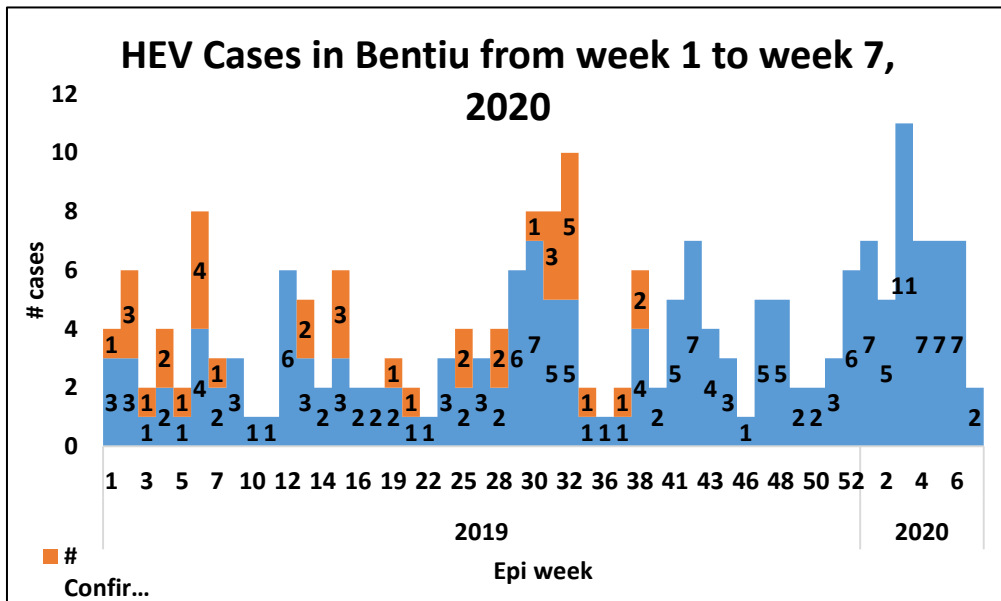


### Response actions

- Several rounds of reactive campaigns were conducted in Bentiu IOM:
  - IOM completed a reactive campaign in Bentiu POC on 31 May 2019, with 21,285 children 6-59 months and coverage of 126% receiving measles vaccination. PCE was done by MoH & WHO, coverage was 74.6%.
  - Another campaign was conducted by SMOH, IOM and partners which was completed during the week of 20th January 2020 with coverage of 126%.

Age Group	Cases	Percentage	Cum. %
0 - 4 Years	355	95%	95%
5 - 9 Years	11	3%	98%
10 - 14 Years	5	1%	99%
15+ Years	2	1%	100%
<b>Grand Total</b>	<b>373</b>	<b>100%</b>	

## Hepatitis E, Bentiu PoC



### Descriptive epidemiology

- The persistent transmission of HEV in Bentiu PoC continues with 176 cases since beginning of 2019
- There were (02) new cases reported in week 07, 2020
- All the cases were managed as outpatient cases except for seven cases who were admitted
- Two deaths one on 12th, April 2019 and the second on 11th July 2019
- 51% are female and 49% are male.
- Age group less than 15 years had the most cases with (72%) cases.
- At risk of adverse outcomes when infected in the 3rd trimester of pregnancy
- Use of unsafe drinking water likely to be source of infection
- Up to week 7, 2020; there were 46 cases of HEV in Bentiu PoC including 2 deaths (CFR 0.27%)

### Recommended actions

- Supportive case management guided by the HEV protocol is ongoing
- Social mobilization to raise awareness on modes of transmission, symptoms and where to seek for care
- Case identification and follow up in the communities is ongoing
- The other WASH interventions entail provision of safe water and water quality surveillance along the water chain

Age-Group	Alive	Dead	Grand Total	Percentage	CFR	Cum. %2
1 - 4 Years	57	0	57	32%	0%	32%
10 - 14 Years	28	0	28	16%	0%	48%
15+ Years	47	2	49	28%	4%	76%
5 - 9 Years	41	1	42	24%	2%	100%
<b>Grand Total</b>	<b>173</b>	<b>3</b>	<b>176</b>	<b>100%</b>	<b>0.02</b>	

# EBOLA VIRUS DISEASE[EVD] PREPAREDNESS IN SOUTH SUDAN

Brief on the Ebola situation in DR Congo and updates on EVD preparedness in South Sudan

# Ebola update DRC 18 February 2020

## Current situation

- Currently as of **16 February 2020**
- **3432** Cases [ 3309 confirmed & 123 probable]
- **2253** Deaths [2159 confirmed & 94 probable]

## Response update

- 1 August 2019 marked one year since the Government of the Democratic Republic of the Congo declared the Ebola outbreak

## Affected health zones

- In the past 21 days (27 January to 16 February), 10 new confirmed cases, including three community deaths, were reported from four of the 30 health areas in two active health zones in North Kivu Province: Beni (90%; n=9) and Mabalako (10%; n=1)



# Novel Coronavirus

# Novel Corona Virus Situation Summary

- **Situation update** as of 27<sup>th</sup> Feb,2020

## SITUATION IN NUMBERS total and new cases in last 24 hours

### Globally

82 294 confirmed (1185 new)

### China

78 630 confirmed (439 new)  
2747 deaths (29 new)

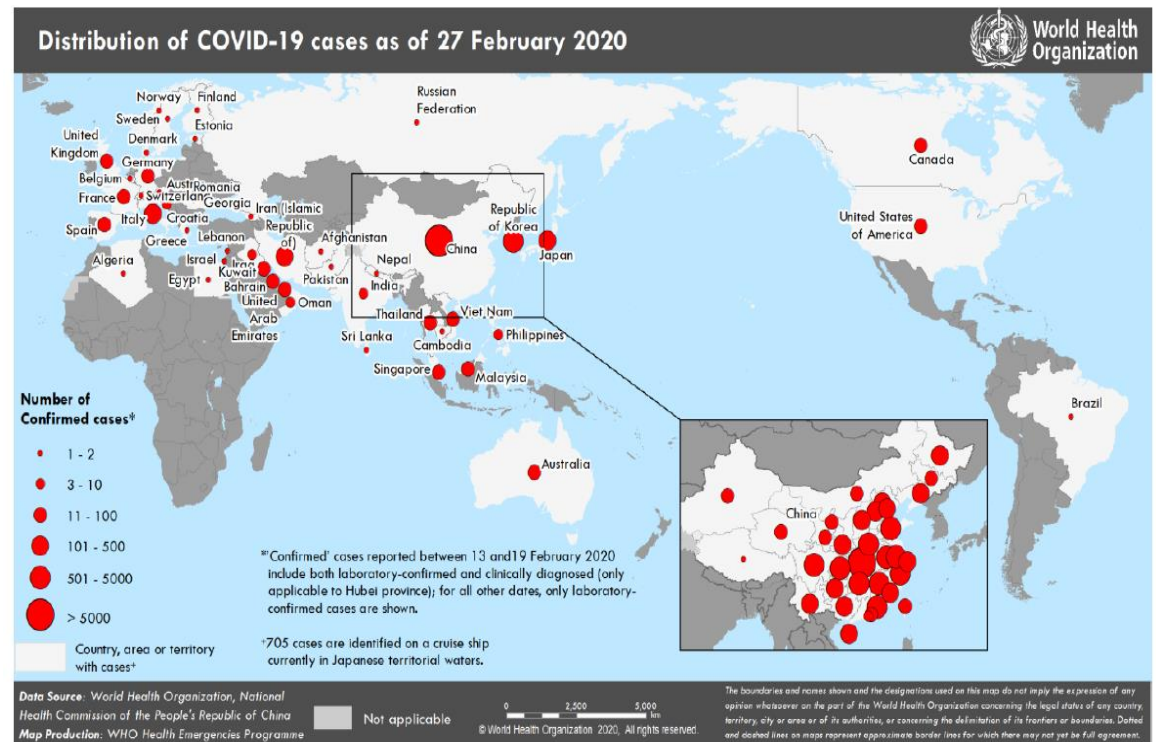
### Outside of China

3664 confirmed (746 new)  
46 countries (9 new)  
57 deaths (13 new)

## WHO RISK ASSESSMENT

China	Very High
Regional Level	High
Global Level	High

Figure 1. Countries, territories or areas with reported confirmed cases of COVID-19, 27 February 2020



WHO: <https://www.who.int/health-topics/coronavirus>

# COVID-19 Preparedness in South Sudan (1)

- The SSD Government is closely monitoring the COVID-19 situation working with WHO, CDC, and partners
- Two media briefings held to alert the general public about the COVID-19 and the measures instituted by Government and partners to mitigate the risk
- Health alert notice issued to inform state Ministries of Health, County Health Departments, and health facility workers about the COVID-19 outbreak
- Travel health notice issued to provide information to people traveling from China
- Entry screening initiated to identify passengers who that travelled from China in the last 14 days for follow up by contact tracing teams
- Established a COVID-19 Incident Management Structure in the PHEOC develop preparedness plan and guide the implementation of activities

# COVID-19 Preparedness in South Sudan (2)

- Rapid response team have been activated and has investigated two suspected cases – both tested negative for COVID-19
- The case management and ambulance teams have been activated; sensitized and deployed to respond to at least one suspect case
- The laboratory is activated and ready to commence testing in South Sudan
- Contact tracing teams established to identify and follow up international travelers arriving into South Sudan and who have been in China in the last 14 days
- Tools for screening at the airport have been updated but printing is pending
- Thermal scanner installed to enhance screening at the airport
- Radio programs on COVID-19 held and messages have been printed on leaflets and posters and are being disseminated

# Conclusion

- In week 07, 2020 IDSR reporting completeness was 85% at health facility level and EWARN reporting completeness was 86%.
- Measles outbreaks confirmed in 2020 in 5 counties; Tonj East, Magwi, Bor, Kapoeta East and Tonj South. Rubella Outbreaks confirmed in 2020 in 3 counties; Rumbek East, Leer and Yirol South
- Ongoing Outbreaks of Measles in Kapoeta East, Jebel Boma, Bor, Aweil East, Maban, Tonj South counties and Bentiu PoC
- Ongoing outbreaks of Rubella in Rumbek East, Leer and Yirol South
- No confirmed cases of Yellow Fever in Kajo-Keji (all 42 samples tested PCR negative for YF and have been shipped to UVRI for serological testing)

# Recommendations

- Implementing partners to support SMOH and CHD with submission of IDSR reports.
- Measles samples test result from Aweil East are required to inform response to the current cases
- Enhanced surveillance, case management and active case search in the counties with active measles and rubella transmission
- Vigilance surveillance for COVID-19 suspected cases at PoE and health facilities
- Following the YF investigation in Kajo-Keji a preventive YF vaccination should be considered in the Greater Equatoria

- **Thanks to State Surveillance Officer, County Surveillance Officer and Health Facilities officers for data sharing**

**Thanks to all partners for supporting IDSR weekly reporting and line list sharing**

**To access the IDSR bulletins for 2020 use the below link:**

**<https://www.afro.who.int/publications/south-sudan-weekly-disease-surveillance-bulletin-2020>**

## This bulletin is produced by the Ministry of Health with Technical support from WHO

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### Notes

WHO and the Ministry of Health gratefully acknowledge the surveillance officers [at state, county, and health facility levels], health cluster and health pooled fund (HPF) partners who have reported the data used in this bulletin. We would also like to thank ECHO and USAID for providing financial support.

The data has 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>

