

# South Sudan

## Integrated Disease Surveillance and Response (IDSR)

Epidemiological Bulletin Week 16, 2020 (April 13 – April 19)



## Major Epidemiological Highlights in week 16 of 2020

- In week 16, 2020 IDSR reporting completeness was 88% and timeliness was 70% at health facility level. EWARN reporting completeness was 77% and timeliness was 61%
- Of the 116 alerts in week 16, 2020; 66% were verified 0% were risk assessed and 0% required a response. Malaria (28), AWD (24), measles (15) and bloody diarrhea (27) were the most frequent alerts in week 16, 2020
- Total of 90 COVID-19 alerts were reported and investigated to date.
- A cumulative of six (6) confirmed COVID-19 cases and isolated in Juba (5) & Torit (1). A total of 144 contacts listed, quarantined and under follow up.
- Since week 7 of 2019, a total of 302 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 (20) 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 16, 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	WES	AMREF, World Vision, CUAMM, CDTY, OPEN	213	212	100%	212	100%
2nd	NBGZ	Malaria Consortium, Healthnet TPO, IRC, CEDS, IHO	130	91	70%	126	97%
3rd	CES	HLSS, SSUHA, Healthnet TPO, IHO, GOAL, TRI-SS, THESO	117	103	88%	111	95%
4th	WBGZ	Cordaid, Healthnet TPO, CARE International	76	27	36%	70	92%
5th	Warrap	GOAL, CCM, WVI, Malaria Consortium, UNKEA, Save the Children, MSF	120	86	72%	110	92%
6th	Jonglei	Nile Hope, MDM, JDF, Livewell, CMD, HFO, EDA, CRADA, Malaria Consortium, CMA	150	126	84%	130	87%
7th	Upper Nile	Cordaid, WVI, RI, IMC, NIDO, UNKEA, MC, SSAID	115	27	23%	100	87%
8th	EES	Cordaid, HLSS, CCM	146	87	60%	114	78%
9th	Lakes	Doctors with Africa (CUAMM), LIVEWELL	113	65	58%	84	74%
10th	Unity	Cordaid, UNIDOR, IRC, CHADO, CARE International, CRADA, CASS	91	61	67%	67	74%
	South Sudan		1271	885	70%	1124	88%

The timeliness of IDSR reporting (supported by EWARS mobile) at health facility level was 70% and completeness was 88%. 7 states were above the target of 80% with highest reporting rate in WES with completeness of 100%.

## IDSR Timeliness and Completeness Performance at County Level for week 16, 2020 (1)

Counties	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
Lakes	Cueibet	Doctors with Africa (CUAMM)	15	14	93%	15	100%
Lakes	Rumbek North	Doctors with Africa (CUAMM)	7	2	29%	5	71%
Lakes	Wulu	Doctors with Africa (CUAMM)	14	13	93%	14	100%
Lakes	Rumbek East	Doctors with Africa (CUAMM)	24	1	4%	1	4%
Lakes	Awerial	Doctors with Africa (CUAMM)	7	6	86%	6	86%
Lakes	Rumbek Centre	Doctors with Africa (CUAMM)	23	19	83%	22	96%
Lakes	Yirol West	Doctors with Africa (CUAMM)	12	1	8%	12	100%
Lakes	Yirol East	Doctors with Africa (CUAMM),LIVEWELL	11	9	82%	9	82%
NBGZ	Aweil South	Malaria Consortium(MC),IHO	9	5	56%	9	100%
NBGZ	Aweil North	HealthNetTPO,IHO	33	30	91%	31	94%
NBGZ	Aweil West	HealthNetTPO	37	11	30%	37	100%
NBGZ	Aweil East	IRC,TADO	36	31	86%	34	94%
NBGZ	Aweil Centre	Malaria Consortium(MC)	15	14	93%	15	100%
WBGZ	Raja	HealthNetTPO	14	13	93%	13	93%
WBGZ	Wau	Cordaid	27	14	52%	22	81%
WBGZ	Jur River	Cordaid	35	0	0%	35	100%
CES	Kajo Keji	SSUHA,GOAL,TRI-SS	16	14	88%	16	100%
CES	Lainya	SSUHA	16	12	75%	12	75%
CES	Morobo	SSUHA,THESO	5	5	100%	5	100%
CES	Juba	HLSS	42	36	86%	42	100%
CES	Yei	SSUHA	18	16	89%	16	89%
CES	Terekeka	HealthNetTPO	25	20	80%	20	80%

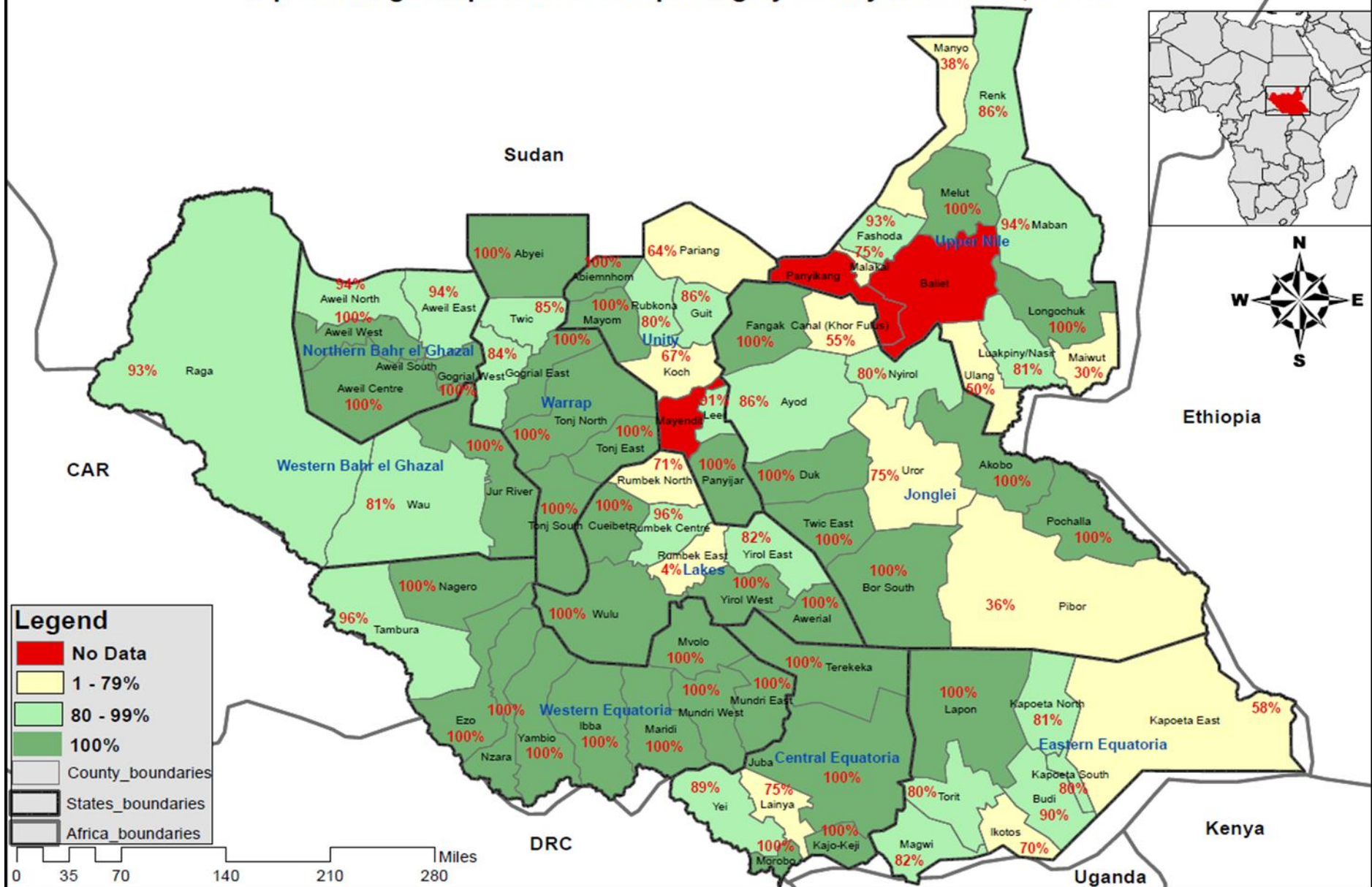
Counties	Counties	Supporting Partners	Total No. of Functional Health Facilities in the County	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported regardless of time	Completeness Percentage
Unity	Abiemnhom	Cordaid	4	4	100%	4	100%
Unity	Koch	CRADA,IRC.	4	4	100%	4	100%
Unity	Panyijjar	IRC	15	15	100%	15	100%
Unity	Rubkona	Cordaid,IRC,IOM,MSF	15	11	73%	12	80%
Unity	Mayom	CASS	9	9	100%	9	100%
Unity	Pariang	CARE International	11	2	18%	7	64%
Unity	Guit	CHADO	7	6	86%	6	86%
Unity	Mayendit	CASS	13	0	0%	0	0%
Unity	Leer	UNIDOR	11	10	91%	10	91%
WES	Nzara	World Vision International	20	20	100%	20	100%
WES	Nagero	World Vision International	10	10	100%	10	100%
WES	Mundri West	CUAMM	21	21	100%	21	100%
WES	Maridi	AMREF	26	26	100%	26	100%
WES	Ibba	AMREF	11	11	100%	11	100%
WES	Mundri East	CUAMM	19	19	100%	19	100%
WES	Yambio	World Vision International	42	42	100%	42	100%
WES	Ezo	World Vision International	27	27	100%	27	100%
WES	Mvolo	CUAMM	11	11	100%	11	100%
WES	Tambura	World Vision International	26	25	96%	25	96%

## IDSR Timeliness and Completeness Performance at County Level for week 16, 2020 (2)

Counties	Counties	Supporting Partners	Total No. of Functional Health Facilities in the County	No. of HF's Reported on Time	Timeliness Percentage	No. of HF's Reported regardless of time	Completeness Percentage
Jonglei	Pibor	LIVEWELL,CRADA	5	3	60%	3	60%
Jonglei	Nyirrol	CMA, Malaria Consortium	10	6	60%	8	80%
Jonglei	Ayod	CMD,EDA	15	15	100%	15	100%
Jonglei	Bor	MDM + JDF	35	35	100%	35	100%
Jonglei	Fangak	CMD,HFO	16	16	100%	16	100%
Jonglei	Pochalla	LIVEWELL	7	7	100%	7	100%
Jonglei	Akobo	NILE HOPE	8	8	100%	8	100%
Jonglei	Twic East	MDM + JDF	11	11	100%	11	100%
Jonglei	Canal Pigi	IMC	11	5	45%	6	55%
Jonglei	Duk	MDM + JDF	15	15	100%	15	100%
Jonglei	Uror	Nile Hope,Malaria Consortium	8	5	63%	6	75%
EES	Magwi	HLSS	22	16	73%	18	82%
EES	Ikotos	HLSS	27	18	67%	23	85%
EES	Budi	Cordaid	21	9	43%	12	57%
EES	Lopa Lafon	HLSS	18	14	78%	18	100%
EES	Torit	Cordaid	20	13	65%	16	80%
EES	Kapoeta South	CCM	10	5	50%	8	80%
EES	Kapoeta East	CCM	12	3	25%	6	50%
EES	Kapoeta North	CCM	16	9	56%	13	81%

Counties	Counties	Supporting Partners	Total No. of Functional Health Facilities in the County	No. of HF's Reported on Time	Timeliness Percentage	No. of HF's Reported regardless of time	Completeness Percentage
Warrap	Gogrial East	GOAL	15	14	93%	15	100%
Warrap	Abyei	AAA, Save the Children, MSF	10	9	90%	9	90%
Warrap	Gogrial West	GOAL	31	24	77%	26	84%
Warrap	Tonj East	CCM	12	12	100%	12	100%
Warrap	Twic	GOAL	26	1	4%	22	85%
Warrap	Tonj North	CCM	14	14	100%	14	100%
Warrap	Tonj South	CCM	12	12	100%	12	100%
Upper Nile	Baliet	IMC	5	0	0%	0	0%
Upper Nile	Maban	WVI + RI	16	7	44%	15	94%
Upper Nile	Manyo	CORDAID	8	2	25%	3	38%
Upper Nile	Maiwut	RI	10	2	20%	3	30%
Upper Nile	Luakpiny Nasir	UNKEA,RI	26	21	81%	21	81%
Upper Nile	Ulang	UNKEA,RI	18	9	50%	9	50%
Upper Nile	Fashoda	CORDAID	14	11	79%	13	93%
Upper Nile	Renk	WVI + RI	14	12	86%	12	86%
Upper Nile	Makal	IMC	8	2	25%	5	63%
Upper Nile	Melut	WVI + RI	8	8	100%	8	100%
Upper Nile	Panyikang	IMC	4	0	0%	0	0%
Upper Nile	Longechuk	RI	9	8	89%	9	100%
Upper Nile	Akoka	IMC	5	1	20%	2	40%

Map showing completeness of reporting by county in week 16, 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.

# Surveillance | EWARS surveillance performance indicators by partner week 16, 2020

Partner	HFs	Reporting		Performance	
		# of sites	# of reports received on Time	No. of HFs Reported regardless of time	Timeliness
CMD	1	1	1	100%	100%
GOAL	2	2	2	100%	100%
HAA	4	4	4	100%	100%
HLSS	1	1	1	100%	100%
HFO	3	0	2	0%	67%
IMA	9	4	7	44%	78%
IMC	5	0	4	0%	80%
MDM	10	10	10	100%	100%
SMC	6	6	6	100%	100%
IOM	12	8	10	67%	83%
IRC	1	1	1	100%	100%
MEDAIR	2	2	2	100%	100%
MSF-E	6	4	5	67%	83%
MSF-H	5	1	2	20%	40%
RHS	3	0	0	0%	0%
TADO	5	1	0	20%	0%
TRI-SS	2	2	2	100%	100%
UNH	3	0	2	0%	67%
UNIDOR	2	2	2	100%	100%
WORLD RELIEF	2	2	2	100%	100%
<b>TOTAL</b>	<b>84</b>	<b>51</b>	<b>65</b>	<b>61%</b>	<b>77%</b>

- Completeness was 77% and timeliness was 61% for weekly reporting in week 16, 2020 for partner-supported clinics serving IDP sites.



# EVENT-BASED SURVEILLANCE

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

## Alert by disease and Hubs in Week 16, 2020 [A total of 116 event specific alerts generated by state]

State	Acute jaundice syndrome	Acute Respiratory Infections (ARI)	Acute Watery Diarrhoea	AFP	Bloody Diarrhoea	Malaria (Confirmed)	Measles	Total alerts
CES		2	4		4			10
EES		4			1	2	4	11
Lakes		1	2		6			9
NBGZ		1	5		1	4	1	12
Unity	2	4	5		6	4	2	23
Upper Nile		4	2			6		12
Warrap			2		4	4		10
WBGZ		2	4		1	8	4	19
WES				2	4		4	10
<b>Total alerts</b>	<b>2</b>	<b>18</b>	<b>24</b>	<b>2</b>	<b>27</b>	<b>28</b>	<b>15</b>	<b>116</b>

### During this week:

- 2 AJS alert: all are under response
- 18 ARI: 6 are undergoing verification, 12 been monitored
- 24 AWD alert: 10 undergoing verification, 14 been monitored
- 27 ABD: 13 undergoing verification, 14 been monitored.
- 28 Malaria alerts: 8 undergoing verification, 18 under monitoring, 2 under response
- 15 Measles alert: 8 undergoing verification and 5 under monitoring, 2 under response
- 2 AFP alert: all been monitored

## ARI Alerts verification (1)

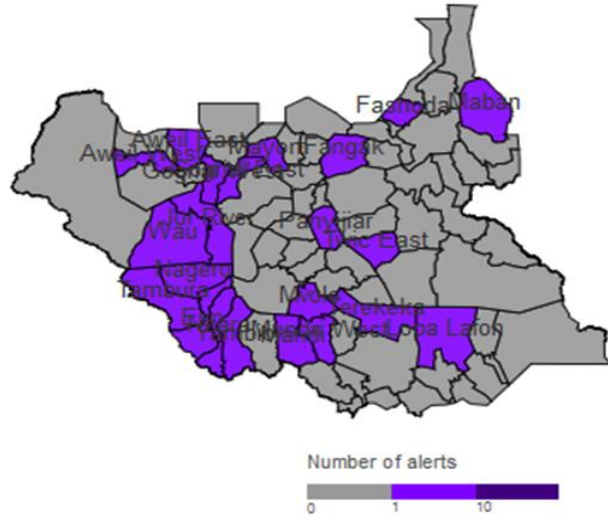
#	County	Number of Health Facilities with ARI alerts	Verification findings
1	Nzara	10	It is purely incorrect reporting from the side of the health workers. Moving forward, World Vision will work with the CHD surveillance officers to verify reports and double check any suspicions before they are keyed into the DHIS.
2	Tambura	9	We made a follow up visit to the facilities in Lot 7 Nagero County that reported these cases and discovered that the reported cases were all false reporting. None of the reported cases fit the standard case definition for COVID-19. We continue to refresh the facility staff on the case definition.
3	Maridi	8	We made follow up to the listed health facilities in Lot 9 Maridi County and found out that these are ordinary cases of respiratory infection.
4	Yambio	8	All the reported cases do not meet Case definition for COVID-19.
5	Mundri East	7	This was confirmed by the surveillance Officer as error in reporting
6	Aweil West	5	Normal ordinary cough
7	Mvolo	4	This was confirmed by the surveillance Officer as error in reporting
10	Nagero	4	We made a follow up visit to the facilities in Lot 7 Nagero County that reported these cases and discovered that the reported cases were all false reporting. None of the reported cases fit the standard case definition for COVID-19. We continue to refresh the facility staff on the case definition.

## ARI Alerts verification (2)

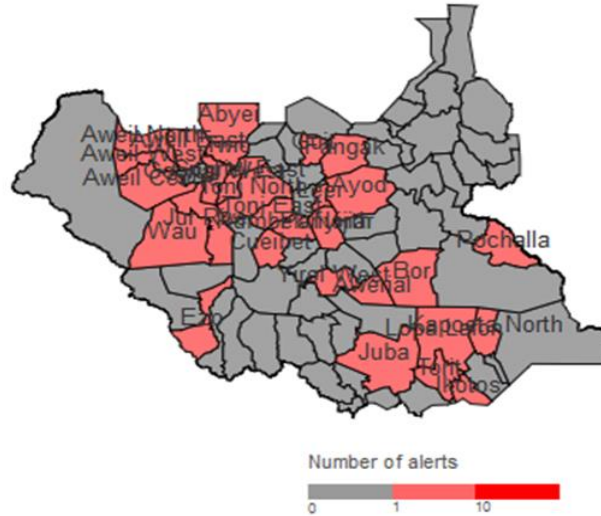
#	County	Number of Health Facilities with ARI alerts	Verification findings
11	Mundri West	3	This was confirmed by the surveillance Officer as error in reporting
12	Ezo	2	We made a follow up visit to the facilities in Lot 7 Ezo Counties that reported these cases and discovered that the reported cases were all false reporting. None of the reported cases fit the standard case definition for COVID-19. We continue to refresh the facility staff on the case definition.
13	Ibba	2	We made follow up to the listed health facilities in Lot 9 Ibba County and found out that these are ordinary cases of respiratory infection. All the cases did not meet the case definition
14	Aweil Center	1	Ordinary cough
15	Juba	1	Case was reported from Mangala, upon verification, it was normal cough as it did not meet the case definition
16	Kapoeta East	1	It was verified and found to be ordinary cough
17	Kapoeta North	1	It was verified and found to be ordinary cough
18	Mayom	1	It was verified and found out be typing error

# Alert | Map of key disease alerts by county week 16, 2020

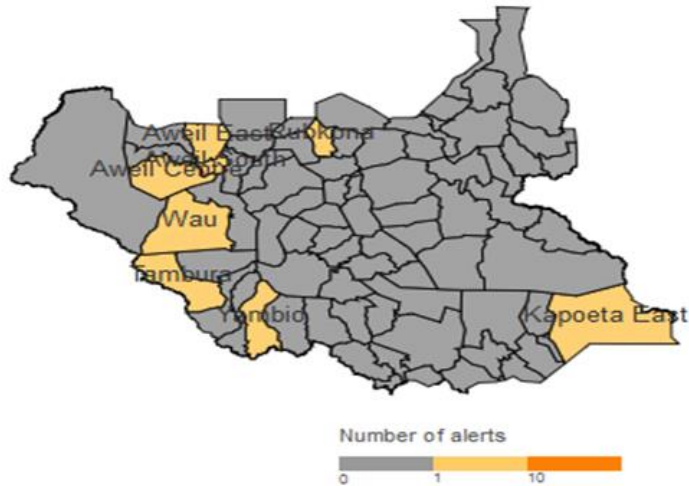
Map 2a | Malaria (W16 2020)



Map 2b | Bloody diarrhoea (W16 2020)



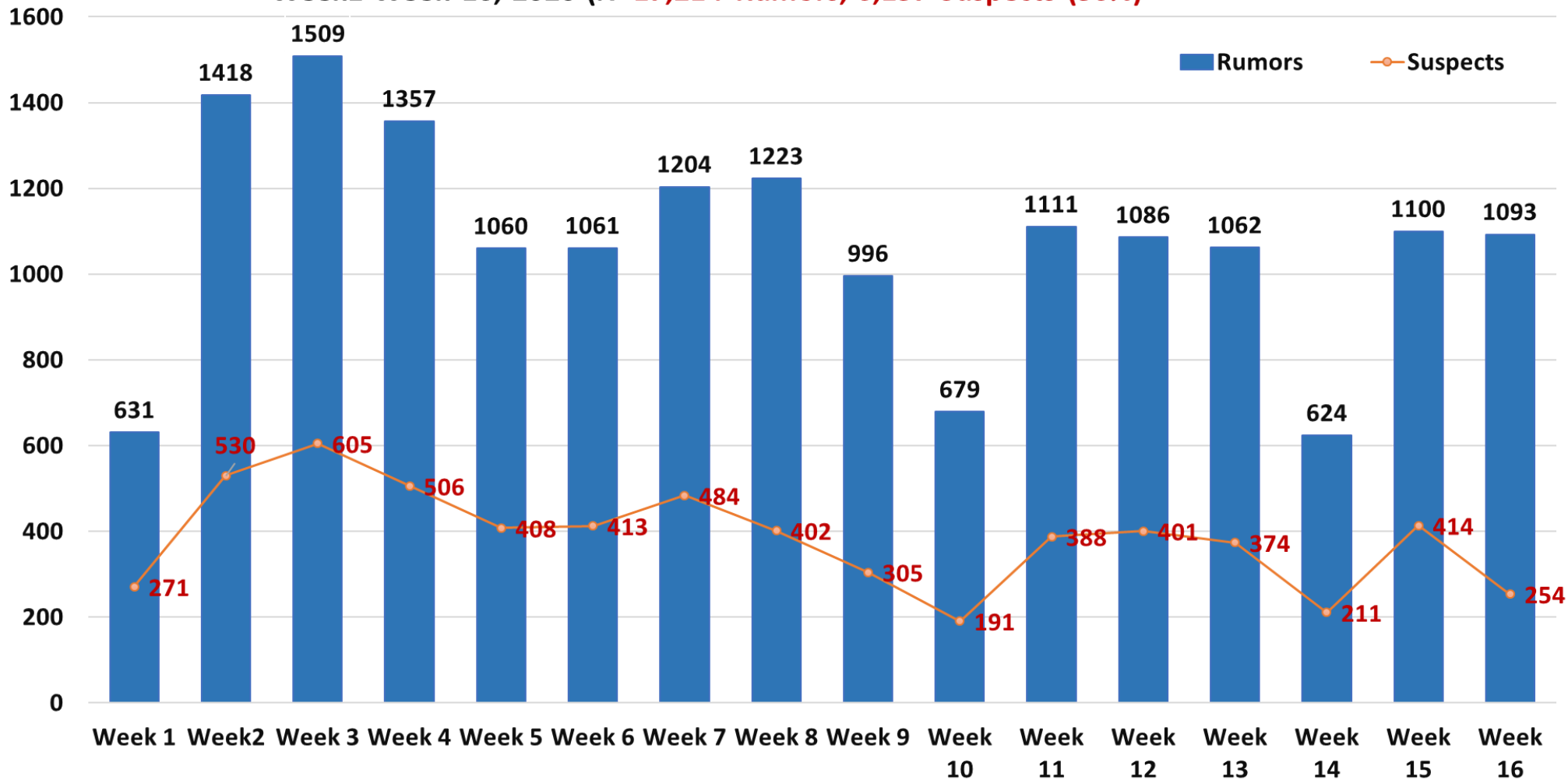
Map 2c | Measles (W16 2020)



W16	Cumulative (2020)	
1	3	Low risk
1	1	Medium risk
0	22	High risk
3	41	Very high risk

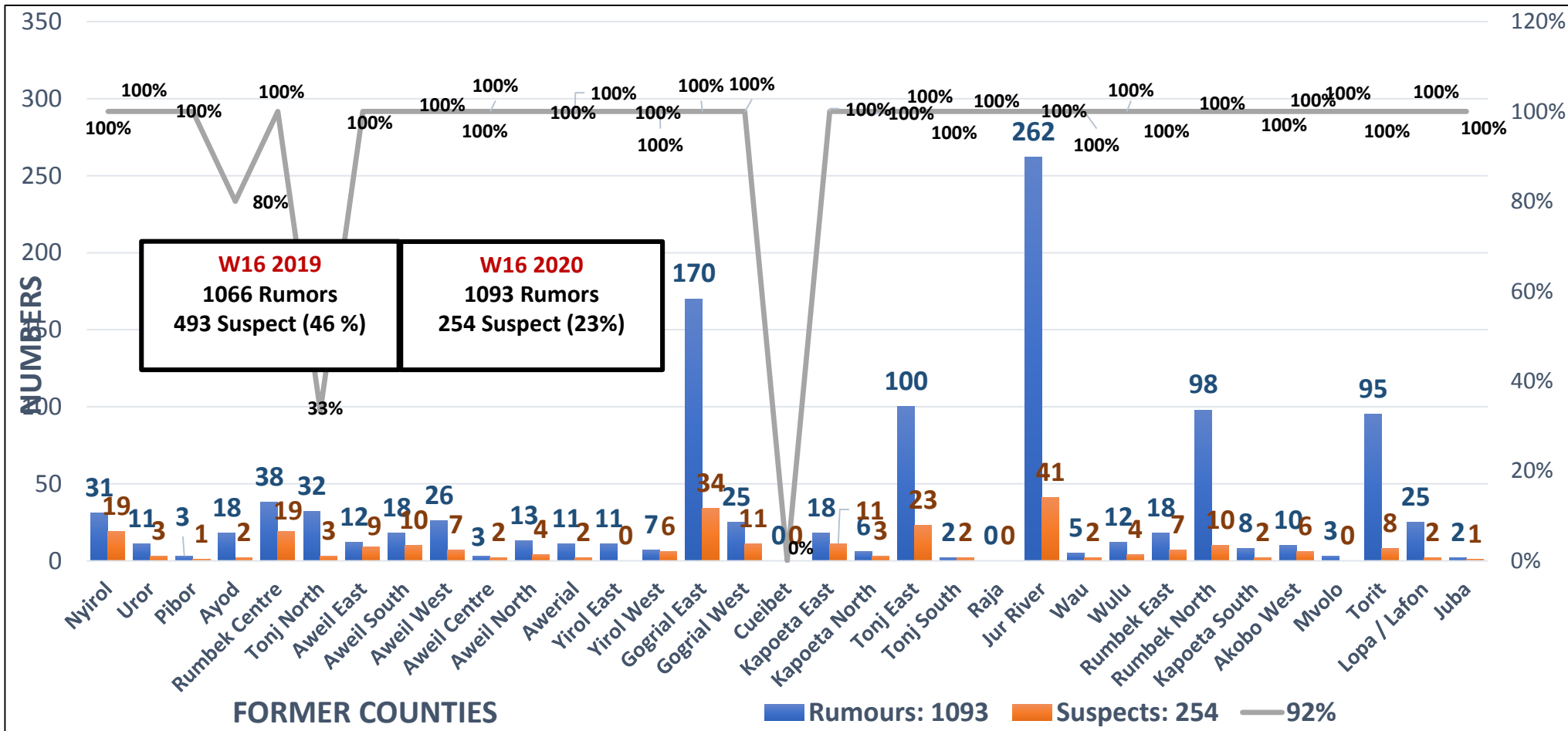
66%	72%	% verified
0%	0%	% auto-discarded
2%	2%	% risk assessed
1%	2%	% requiring a response

**CUMULATIVE: Guinea Worm Rumors and Suspects**  
**Week1-Week 16, 2020 (N=17,214 Rumors, 6,157 Suspects (36%))**



There is a slight Decrease in the Number of Rumors and Suspects reported in Week 16 Compared to Week 15.

# Former Counties that reported Rumors, and Suspects during 12th – 18th April 2020 (16th Week) (n=32)



The Reporting Rate for Week 16 Stands at 92%

It's important to Note that the number of Rumors reported in w16 of 2019 is almost the same in 2020. However there is a slight decreased in number of Suspects reported in the same week of 2020 compared to 2019.

In week 16 Jur river reported the highest number of Rumors and suspects ,followed by Gogrial East County.

# SUSPECTED OUTBREAKS IN 2019

Major suspected outbreaks in South Sudan in  
2020



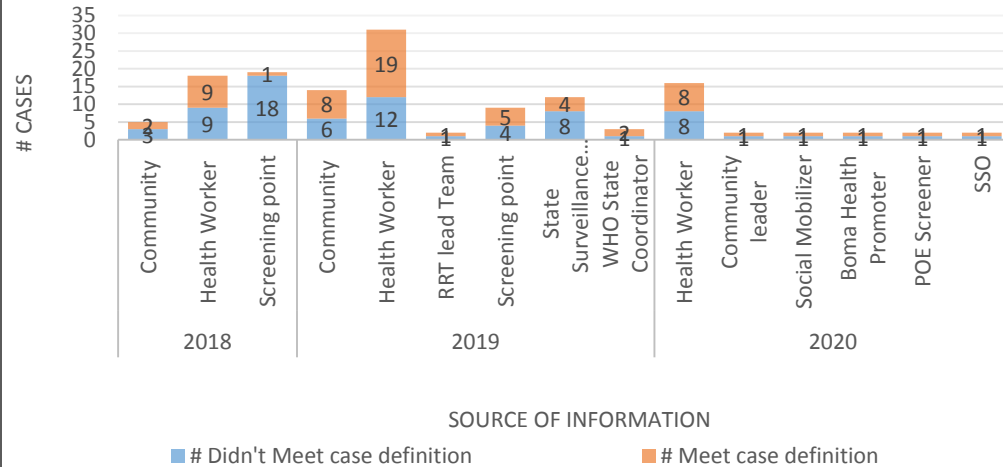
## EVD Suspect cases in South Sudan 2018 and 2019 as of week 11, 2020

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>71</b>
Community	6	8	14
Health Worker	12	19	31
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>13</b>	<b>13</b>	<b>26</b>
Health Worker	8	8	16
Community leader	1	1	2
Social Mobilizer	1	1	2
Boma Health Promoter	1	1	2
POE Screener	1	1	2
SSO	1	1	2
<b>Grand Total</b>	<b>75</b>	<b>64</b>	<b>139</b>

- Since August 2018, at least 139 suspect EVD cases have been reported, of which:
- 26 (18.7%) have been reported in 2020
- Most of the suspect EVD cases have been reported by health workers at health facility level
- One alert was reported in week 11, 2020

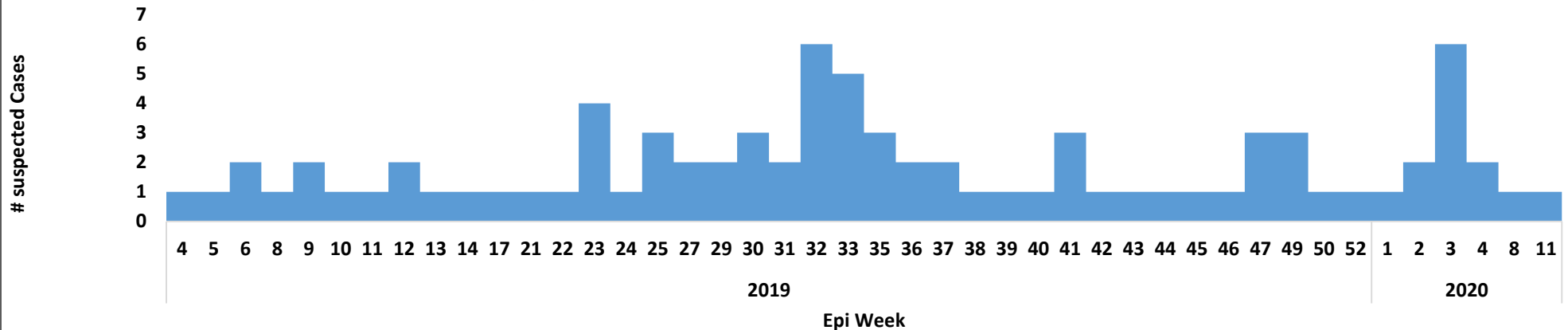
# EVD Suspect cases in South Sudan 2018, 2019 and 2020 as of week 11, 2020

NUMBER OF CASES THAT MET AND DID NOT MEET EVD CASE DEFINITION FROM 2018 TO 2020 BY SOURCE OF INFORMATION



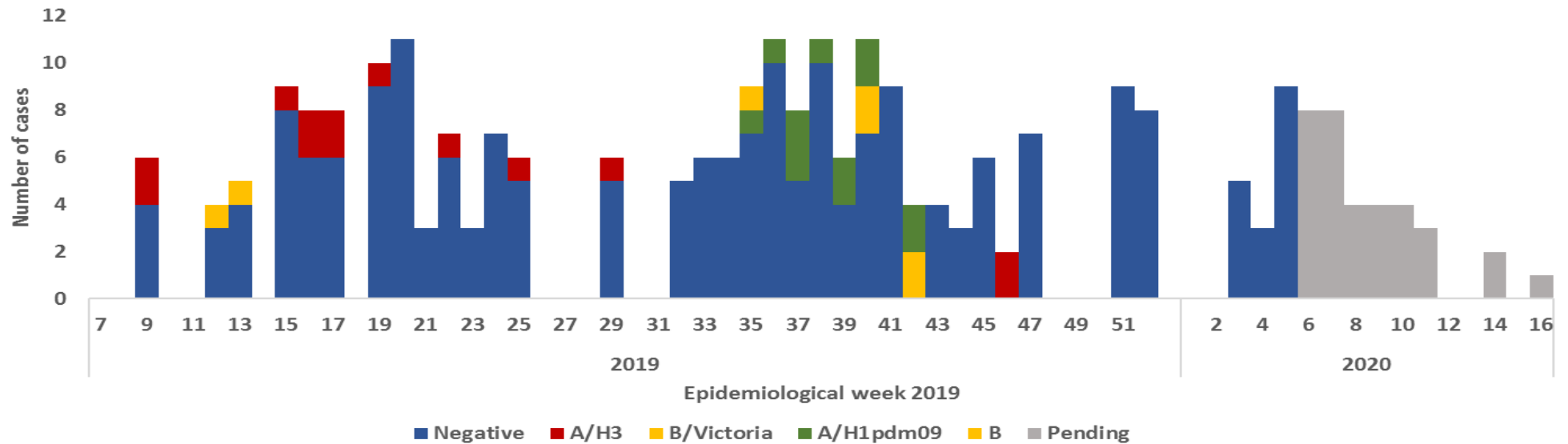
- Most of the suspect EVD cases have been reported in adults 18 years and above (72%)
- Similarly, most suspect EVD cases have been reported in males (56%)
- The distribution suspect EVD cases in both children <18years and adults ≥18yrs is skewed towards the males

EVD suspected cases by epi week and EVD cases definition (CD), South Sudan - 2019 and 2020.



## Routine Sentinel Surveillance | Human Influenza

Influenza isolates from sentinel sites in Juba, wk 7, 2019 to wk 16, 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 302 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 (20) 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.

# Response | Suspect epidemics; Current Malaria trends 16, 2020

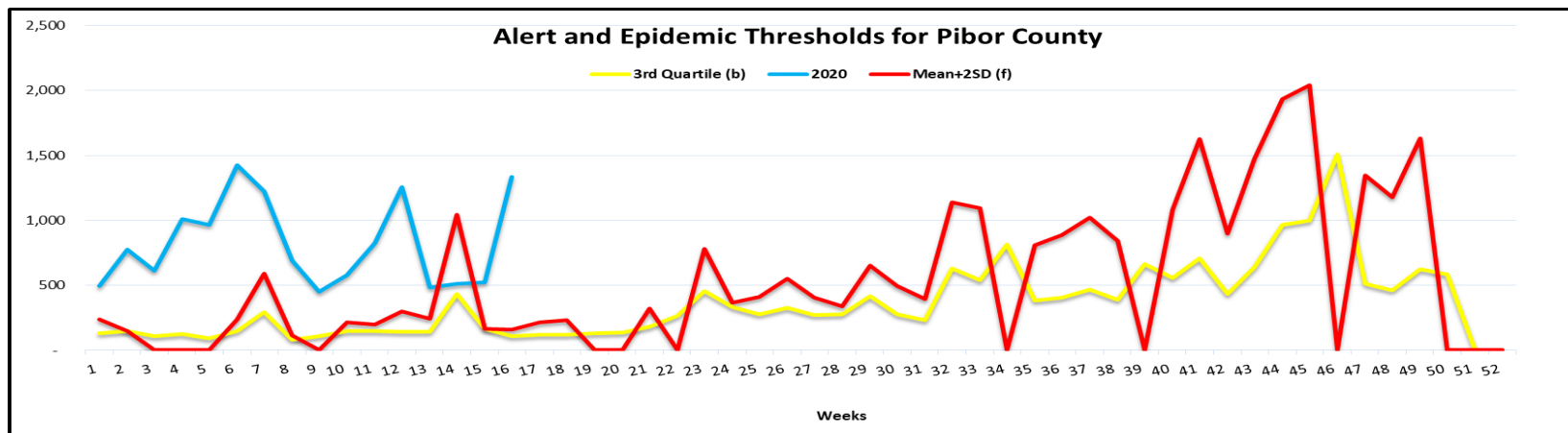
Malaria was the leading cause of morbidity and mortality, accounting for **45.1%** of all morbidities and **9.9%** of all mortalities in week 16, 2020

There is 1 County with malaria trends that exceeded the threshold (third quartile of trends for the period 2013-2017) and these include the following:

## 1. Bor hub (Pibor)

### Proposed public health actions:

1. Malaria taskforce of malaria technical working group meeting to ensure that operational readiness for malaria prevention, diagnosis, and treatment are optimized.
2. Field missions to conduct technical verification of the trends in the affected counties
3. Assessment of current stock levels of malaria diagnostics (RDTs), medicines (ACTs), and LLINs.
4. Stocking up on malaria prevention (LLINs), diagnostics (RDTs), medicines (ACTs), and enhancing behavioral change communication for malaria prevention, prompt investigation and treatment



# ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS

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

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	6	135 (0.12)	Yes	No	Yes	Yes
Measles	Bentiu PoC	24/04/2019	5	116 (0.10)	Yes	Yes	Yes	N/A
Measles	Aweil East	29/12/2019	5	301 (0.058)	Yes	No	Yes	N/A

## ● Measles outbreaks confirmed in 2020

- ❑ 5 counties – Tonj East, Magwi, Bor, Kapoeta East and Tonj South
- ❑ Locations with ongoing measles transmission
  - Aweil East
  - Bentiu PoC
- ❑ No new confirmed outbreak



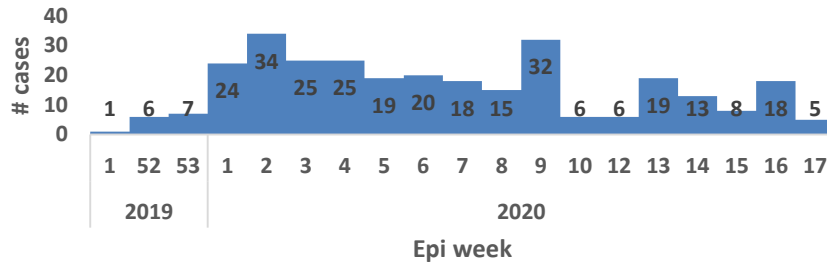
# Measles Outbreak situation & response by county as of week 16, 2020

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	183,233	13	48	61	33.3	0	0	12-Dec-19	Mass Campaign	Pending result	Mass Campaign	controlled	Mass Campaign Completed
2	Magwi	272,880	5	5	10	3.7	0	0	19-Sep-19	Mass Campaign	Pending result	Mass Campaign	controlled	Mass Campaign Completed
3	Bor	320,956	7	7	14	4.36	0	0	17-Jan-19	Mass Campaign	115.60%	Mass Campaign	controlled	Mass Campaign Completed
4	Kapoeta East	262,720	6	10	16	6.1	0	0	18-Jan-20	Reactive Campaign (Jebel Boma)	Reactive Campaign to start on 26 Feb 2020	IRC	active	Reactive Campaign completed in March 2020
5	Aweil East	519,537	16	195	301	57.9	0	0	2-Jan-20				active	
6	Bentiu Poch	115,479			116	100	2	2	1-Jan-19	Reactive campaign	126%	IOM	Active	Reactive campaign 20 Jan 2020
<b>Total</b>		<b>777,069</b>	<b>47</b>	<b>265</b>	<b>518</b>	<b>66.7</b>	<b>0</b>	<b>0</b>						

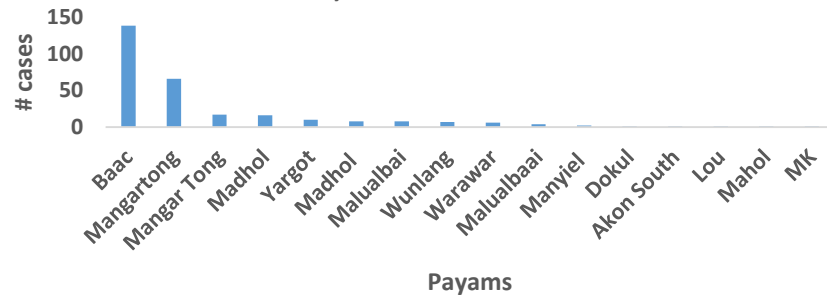


# Confirmed Measles Outbreak in Aweil East County

Measles cases in Aweil east from week 52, 2019 to week 17 2020.



Measles cases in Aweil East by Location from week 52, 2019 to week 17 2020.



## Descriptive Epidemiology:

- Initial cases were reported on 2<sup>nd</sup> Jan 2020
- A total of 301 suspected measles cases have been line listed in Aweil East county
- Majority of the cases were from Baac and Mangartong payams
- 5 new cases were reported in week 17, 2020
- (153) 51% of the cases are less than 5 years of age
- Male were 55% of cases and female were 45%

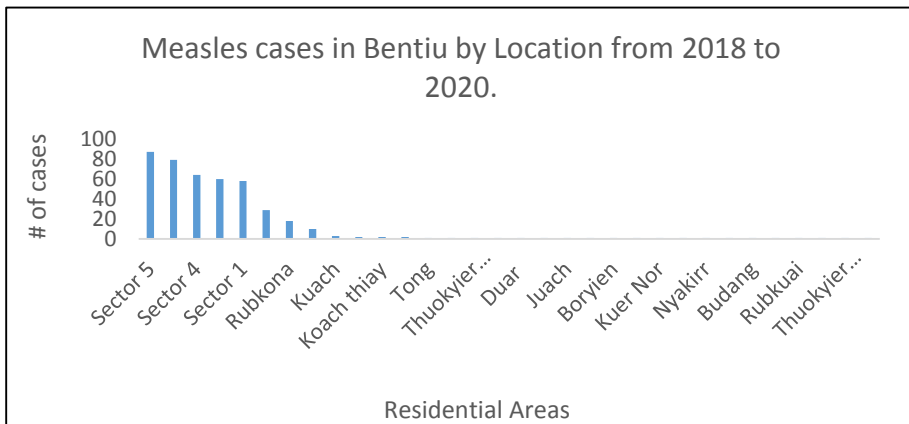
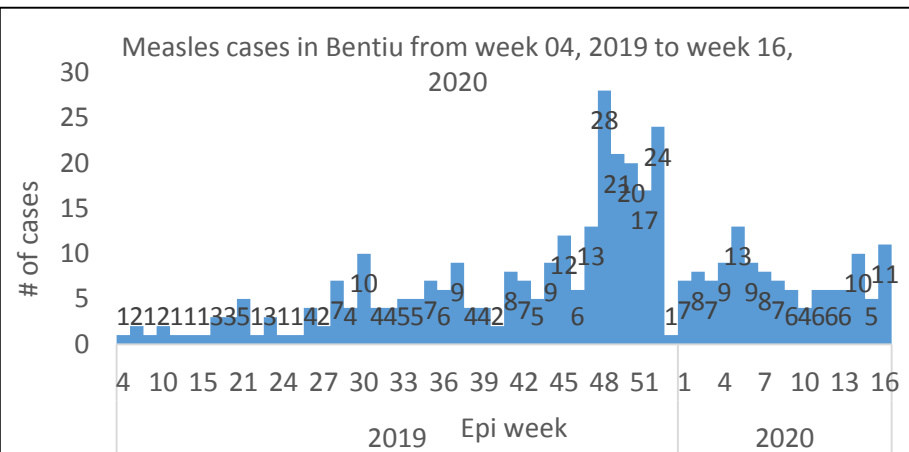
## Response and Recommendations

- Reactive campaign was finalized in Aweil East on 24th January 2020 by SMOH and IOM, coverage was 119% and PCE coverage was 91.5%. Plans is ongoing for second reactive campaign.
- Majority of the cases reported this week were from Baac payam with administrative coverage of 73% which is not sufficient to interrupt transmission.
- Total of 21 samples were; 10 tested measles IgM +ve and 2 rubella IgM positive.
- Surveillance and line-listing are ongoing
- Case management is ongoing

Age group	Cases	% Cases	Cum. %
0 - 4 Years	153	51%	51%
15+ Years	62	21%	71%
5 - 9 Years	47	16%	87%
10 - 14 Years	39	13%	100%
<b>Grand Total</b>	<b>301</b>	<b>100%</b>	

# Response | Confirmed epidemics

## Confirmed Measles and Rubella outbreak in Bentiu PoC



Age Group	Cases	Percentage	Cum. %
0 - 4 Years	413	95%	95%
5 - 9 Years	12	3%	98%
10 - 14 Years	6	1%	99%
15+ Years	3	1%	100%
<b>Grand Total</b>	<b>434</b>	<b>100%</b>	

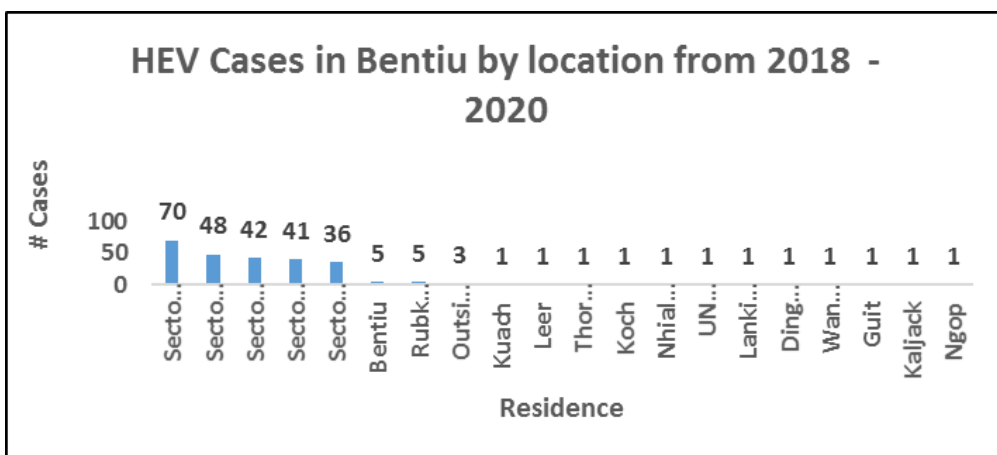
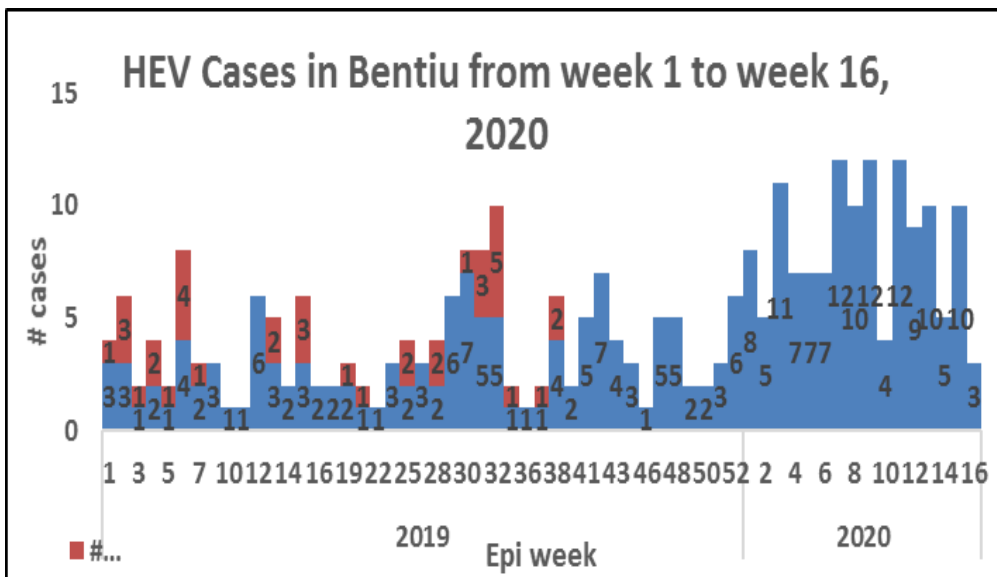
### Epidemiological description

- Bentiu PoC has been reporting suspected measles/rubella cases since week 4 of 2019.
- 11 new cases reported in week 16, 2020
- At least 434 measles cases including 1 death (CFR 0.23%) reported since then.
- Cumulatively, 36 tested cases have tested measles IgM positive while 15 tested rubella IgM positive.
- 47% of cases are female and 53% 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).

### 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%.
  - Partners advised to collect samples from suspect cases.

## Hepatitis E, Bentiu PoC (1)



### Descriptive epidemiology

- The persistent transmission of HEV in Bentiu PoC continues with 262 cases since beginning of 2019
- There was (03) new cases reported in week 16, 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
- 50% are female and 50% are male.
- Age group less than 15 years had the most cases with (76%) 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 14, 2020; there were 46 cases of HEV in Bentiu PoC including 2 deaths (CFR 0.27%)

Age-Group	Alive	Dead	Grand Total	Percentage	CFR	Cum. %2
1 - 4 Years	88		88	34%	0%	34%
10 - 14 Years	43		43	16%	0%	50%
15+ Years	61	2	63	24%	3%	74%
5 - 9 Years	67	1	68	26%	1%	100%
<b>Grand Total</b>	<b>259</b>	<b>3</b>	<b>262</b>	<b>100%</b>	<b>0.01</b>	

### Recommendations

- Supportive case management guided by the HEV protocol is ongoing
- KEV messages on HEV prevention should continue within the community through HPs, CHWs and Kondial Radio
- With current COVID -19 Pandemic Outbreak, WASH partners to increase the coverage of hand washing facilities within the PoCs community.
- Other Wash intervention like increasing the access for clean water and improving the water storage in the affected individuals should be made urgently by distributing the water storage containers that will be the only way to mitigate this problem and stop the HEV outbreak.
- The WASH Cluster/HEV task force should engage in group discussion with Community leaders and woman group at water distribution points to understand their opinions on issue of Collapsing Jerrycans distribution.
- Monitoring the FRC levels at the taps stands in the different sectors, and the concentration of chlorination should maintain at 0.5-1mg/L as the point of collection

# Response | Summary of major controlled 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>Controlled epidemics</b>								
Measles	Juba	21/11/2019	NR	6( 0.1667)	Yes	No	Yes	N/A
Measles	Tonj East	12/12/2019	NR	61(0.98)	yes	Yes	Yes	N/A
Measles	Bor	17/01/2020	NR	14(0.214)	yes	No	yes	N/A
Measles	Jebel Boma	10/12/2019	NR	96(0.063)	yes	No	Yes	N/A
Measles	Kapoeta East	18/01/2020	NR	16(0.625)	yes	No	Yes	N/A

# 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 21 April 2020

## Current situation

- Currently as of 19 April 2020
- 3461 Cases [ 3318 confirmed & 143 probable]
- 2279 Deaths [2185 confirmed & 94 probable]

## Response update

- From 13 to 19 April 2020, four new confirmed cases of Ebola virus disease (EVD) were reported in the Democratic Republic of the Congo, all from Beni Health Zone in North Kivu Province

## Affected health zones

- As of 19 April 2020, a total of 3461 EVD cases, including 3316 confirmed and 145 probable cases have been reported., of which 2279 cases died (overall case fatality ratio 66%).

# Novel Coronavirus



# Novel Corona Virus Situation Summary

- Situation update as of 30<sup>th</sup> April, 2020

## SITUATION IN NUMBERS total (new cases in last 24 hours)

### Globally

3 018 952 confirmed (66 276)  
207 973 deaths (5376)

### European Region

1 406 899 confirmed (21 750)  
129 311 deaths (2882)

### Region of the Americas

1 213 088 confirmed (33 481)  
62 404 deaths (2193)

### Eastern Mediterranean Region

176 928 confirmed (5690)  
7304 deaths (156)

### Western Pacific Region

146 720 confirmed (1335)  
6037 deaths (39)

### South-East Asia Region

51 351 confirmed (3003)  
2001 deaths (84)

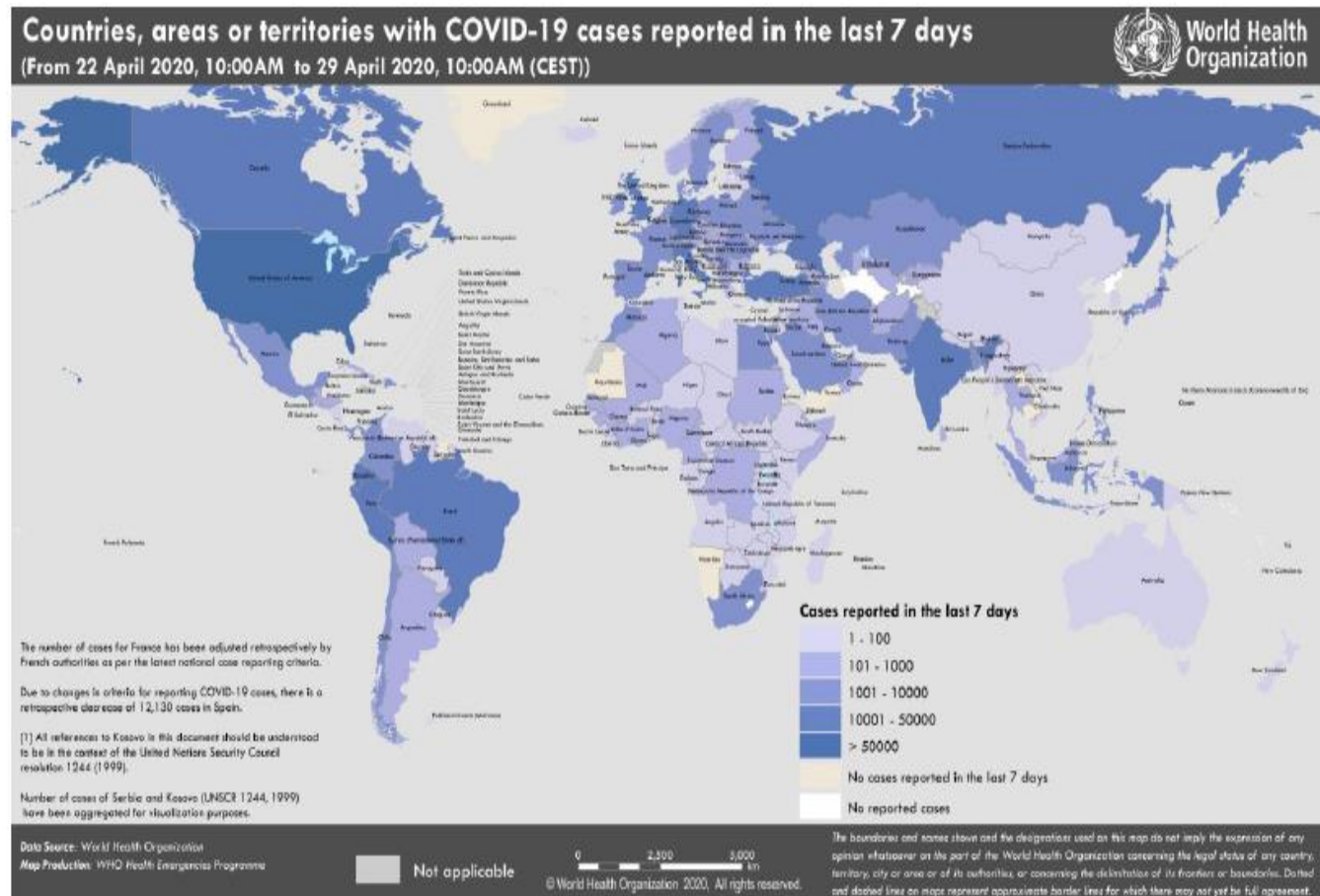
### African Region

23 254 confirmed (1017)  
903 deaths (22)

## WHO RISK ASSESSMENT

Global Level      Very High

Figure 1. Countries, territories or areas with reported confirmed cases of COVID-19, 29 April 2020



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

# COVID-19 Preparedness in South Sudan

- Six confirmed COVID-19 cases in South Sudan; 5 in Juba and 01 in Torit; with 144 contacts identified, quarantined, & undergoing follow up
- Active surveillance is ongoing to determine if there is active transmission in Juba and surrounding areas.
- The ILI/SARI sentinel sites have been expanded from 10 to 45 in Juba
- Implementation of priorities; risk communication; active case search and testing; quarantine for contacts; infection prevention and control; and management of cases are currently underway
- The overall response currently led by the COVID-19 high level taskforce and the COVID-19 steering committee

# Overall Conclusions and Recommendations

# Conclusion

- The overall IDSR and EWARN reporting performance in week 16, surpasses the target of 80%. Seven (07) states were above 80%
- Six COVID-19 cases confirmed and isolated in Juba (5) and Torit (1). A total of 144 contacts identified, quarantined and under follow up.
- With five outbreaks confirmed in 2020; measles remains the most frequent vaccine preventable disease
- There are ongoing measles outbreaks in Bentiu PoC and Aweil East.
- Given the COVID-19 pandemic, it is critical that measures are stepped up to contain its spread.

# Recommendations

- All partners should support CHDs & HF in Upper Nile and other states to improve IDSR/EWARN reporting
- Measles surveillance and case management advised in response to the outbreak in Aweil; which sample collection should be prioritized in response to the cases in Bentiu PoC.
- Strengthen capacities for COVID-19 containment through identifying and testing suspect cases, isolating confirmed cases, and quarantining contacts

**Thanks to the State Surveillance Officers, County Surveillance Officers and Health Facility in-charges for sharing the weekly IDSR data**

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

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

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

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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>

