South Sudan

Integrated Disease Surveillance and Response (IDSR)

Epidemiological Bulletin Week 41, 2019 (October 07 – October 13)





Major Epidemiological Highlights in week 41 of 2019

- In week 41, 2019 both IDSR reporting completeness and timeliness were 55% at health facility level. EWARN reporting completeness and timeliness were both 75%.
- Of the 124 alerts in week 41; 73% were verified 3% were risk assessed and 2% required a response. Malaria (17), AWD (25), measles (13) and bloody diarrhea (32) were the top common alerts generated through the EWARS in week 41, 2019.
- A measles outbreak confirmed in Li-bodo, Yambio after four (4) suspect measles cases tested IgM positive. At least 16 cases including one death have been line listed. MSF-E and partners have started a reactive campaign on 21th October targeting 30,000 children aged 6 – 59 months. SMoH, MSF and partners conducted a reactive campaign with a coverage of 63% (preliminary report)
- Measles outbreaks confirmed in 2019 in 16 counties and 04 PoC sites. New confirmed measles outbreaks with response in; Jur River and completed response in Tonj South, Pibor – Labarab and Maruwa and Yambio
- Since week 7 of 2019, a total of 188 ILI/SARI samples have been collected and tested in UVRI 144 being negative; 4 (2%) positive for Influenza B (Victoria); 11 (6%) positive for Influenza A (H3); and 2(1%) positive for Influenza A (H1)pdm09 and 9 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 41,2019

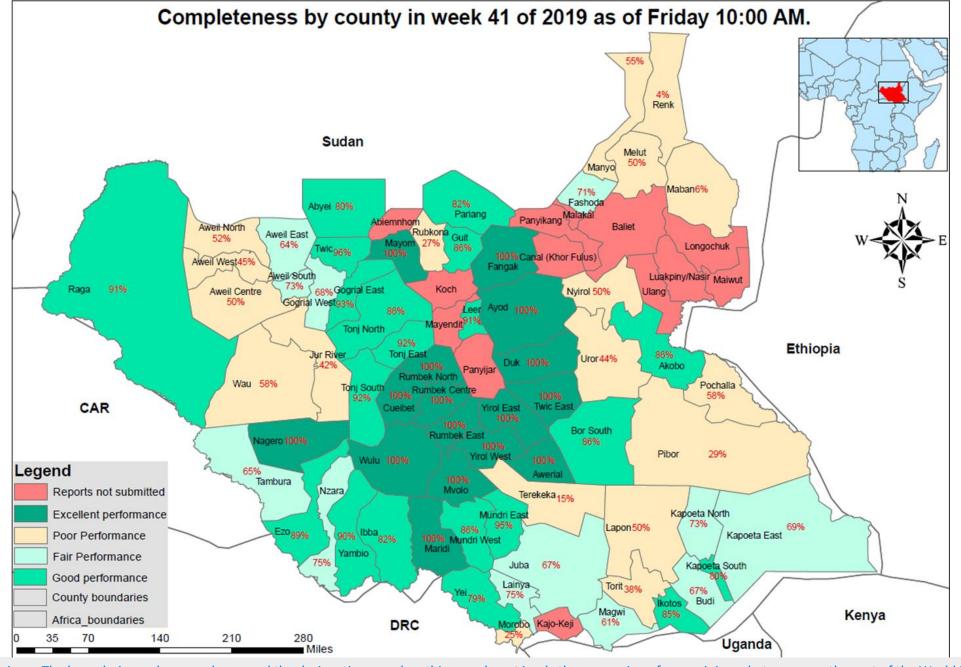
Timeliness and Completeness of EWARS performance at Facility Level for week 41,2019.							
Completeness Hub/Former States Ranking	Hub/Former States	Supporting Partners	Total No. of Health Facility	No. of HFs Reported on Time	Timeliness Percentage	No. of HFs Reported not on Time	Completeness Percentage
1 st	Rumbek	Doctors with Africa (CUAMM)	116	111	96%	116	100%
2 nd	Kwajok	GOAL, CCM, WVI, Malaria Consortium, UNKEA	127	86	68%	114	90%
3 th	Yambio	AMREF, World Vision, CUAMM, CDTY, OPEN,	214	186	87%	187	87%
4 th	Bor	Nile Hope, MDM, JDF, Livewell, CMD, HFO, EDU.	131	86	66%	89	68%
5 th	Torit	Cordaid, HLSS, CMD	178	85	48%	118	66%
6 th	Aweil	Malaria Consortium, HealthnetTPO, IRC, CEDS, IHO	144	57	40%	87	60%
7 th	Wau	Cordaid, HealthnetTPO, CARE International, IHO	79	41	52%	43	54%
8 th	Juba	HLSS, SSUHA, HealthnetTPO, IHO	156	68	44%	74	47%
9 th	Bentiu	Cordaid, UNIDOR, IRC, CHADO, CARE International	93	30	32%	44	47%
10 th	Malakal	Cordaid, WVI, RI, IMC, NIDO, UNKEA, MC, SSAID	153	16	10%	22	14%
	South Sudan		1391	766	55%	894	64%

Key

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

The timeliness of IDSR reporting (supported by EWARS mobile) at health facility level is 55% and completeness is 64%. Reporting performance is highest in Rumbek Hub with completeness of 100% followed by Kwajok Hub with completeness at 90% and Yambio 87% while the rest of the state hubs are below the target of 80%.





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 41, 2019

Surveillance | EWARS surveillance indicators

Table 4 | EWARS surveillance performance indicators by partner (W41 2019)

Partner	rtner Performance		Reporting		
	# sites	#reports received	Completeness	Timeliness	
CMD	2	2	100%	100%	
GOAL	2	2	100%	100%	
HAA	2	2	100%	100%	
HFO	2	2	100%	100%	
HLSS	1	1	100%	0%	
IMA	7	7	100%	100%	
IMC	4	4	100%	100%	
IOM	7	7	100%	100%	
IRC	1	1	100%	100%	
LIVEWELL	3	3	100%	100%	
Medair	2	2	100%	100%	
Medicair	2	2	100%	100%	
MSF-E	2	2	100%	100%	
MSF-H	3	1	33%	33%	
RHS	2	2	100%	100%	
SMC	7	0	0%	0%	
TADO	3	0	0%	0%	
TRI-SS	2	2	100%	100%	
UNIDO	1	1	100%	100%	
UNKEA	2	2	100%	100%	
World Relief	1	1	100%	100%	
Total	64	48	75%	73%	

Table 5 | Summary of key EWARS surveillance indicators

W41	Cumul	Cumulative (2019)		
64	-	Number of EWARS reporting sites		
75%	70%	Completeness		
73%	64%	Timeliness		

Table 6 | EWARS report submissions

Cumulative (2040)

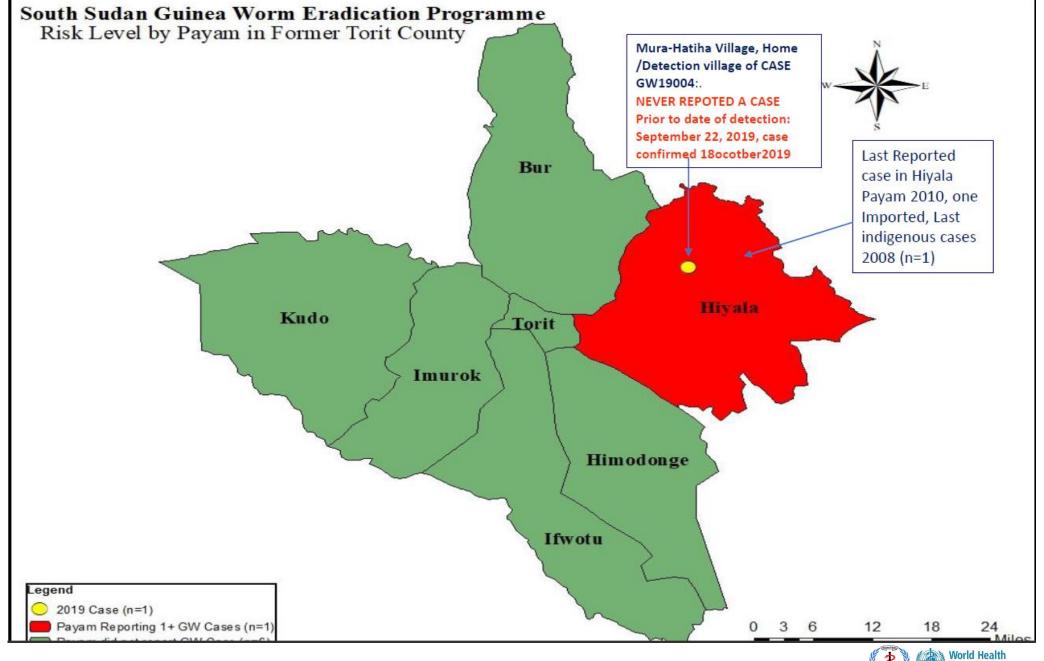
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VV41	Cumulative (2019)		
48	1,898	total submissions	
0	29	submissions by mobile	
48	1868	submissions by web	

Both completeness and timeliness for weekly reporting were 75% in week 41 for partner-supported clinics serving IDP sites. The cumulative completeness and timeliness were 70% and 64% respectively for 2019.







Total Number of Rumors/ Alerts Reported by Reporting Structures for the 41st Week of 2019, N=2049

IDSR/EWARS: 2 Rumors

Tonj East: 1 Yambio: 1

7 hotline rumors

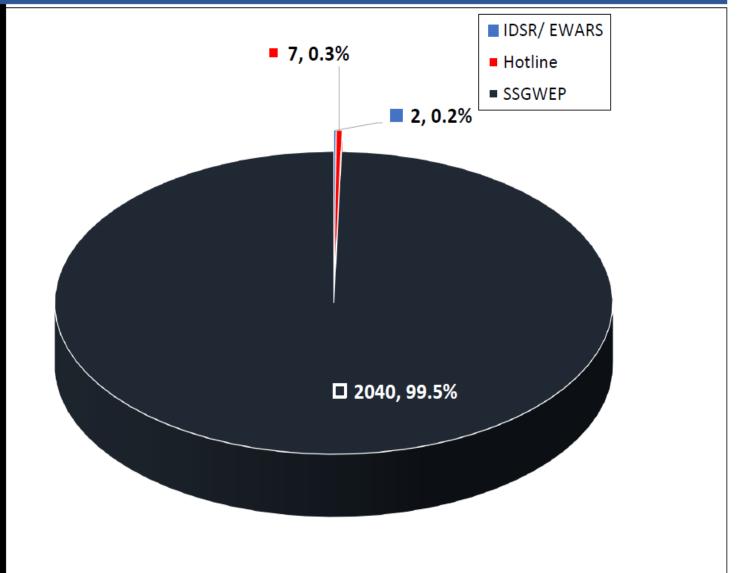
Reports by Former Counties

Juba: 5 Rumors . Juba Payam: 2

> Munuki: 2 Rajef:1

Wau: 1 Rumor

Rumbek Center: 1 Rumor





EVENT-BASED SURVEILLANCE

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



Alert | Alert performance indicators

Alert | Alert performance indicators

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Hub	W41		Cumulative (2019)	
	# alerts	% verif.	# alerts	% verif.
Aweil	2	100%	270	99%
Bentiu	12	8%	280	57%
Bor	59	100%	352	85%
Juba	5	0%	318	39%
Kuajok	6	33%	238	37%
Malakal	1	100%	148	75%
Rumbek	3	100%	595	85%
Torit	7	0%	390	59%
Wau	4	100%	190	70%
Yambio	25	76%	759	85%
South Sudan	124	73%	3540	72%

Table 8 Summary of key alert indicators

W41	Cumulative (2019)			
124	3540 Total alerts raised			
73%	72 %	% verified		
0%	0%	% auto-discarded		
1%	3%	% risk assessed		
1%	2%	% requiring a response		

• A total of 124 alerts were received in week 41, 2019 out of which 73% were verified 3% were risk assessed and 2% required a response.



Alert | Alert Performance Indicator by Event

Alert | Event risk assessment

EBS total

Table 9 Alert performance indicators by event					
Event	W41		Cumulative (2019)	
	# alorts	% vorif	# alorts	% verif	

Indicator-based surve	eillance			
Malaria	17	88%	663	76%
AWD	25	80%	855	68%
Bloody Diarr.	32	69%	605	66%
Measles	13	62%	560	74%
Meningitis	0	0%	0	0%
Cholera	2	50%	100	84%
Yellow Fever	0	0%	22	86%
Guinea Worm	2	100%	81	75%
AFP	3	33%	140	67%
VHF	0	0%	25	76%
Neo. tetanus	0	0%	41	80%
Event-based surveillance				

0%

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W41	Cumulative (2019)		
0	24	Low risk	
30	30	Medium risk	
0	32	High risk	
1	30	Very high risk	

 Malaria (17), AWD (25), measles (13) and bloody diarrhea (32) were the top common alerts generated through the EWARS in week 41, 2019.

81%

Alert | Map of key disease alerts by county week 41, 2019

Alert | Maps of key disease alerts by county Map 2a | Malaria (W41 2019) Map 2b | Bloody diarrhoea (W41 2019) Map 2c | Measles (W41 2019) Map 2d | Cholera (W41 2019) Map 2f | Event-based surveillance (W41 2019) Map 2e | Guinea Worm (W41 2019)



SUSPECTED OUTBREAKS IN 2019

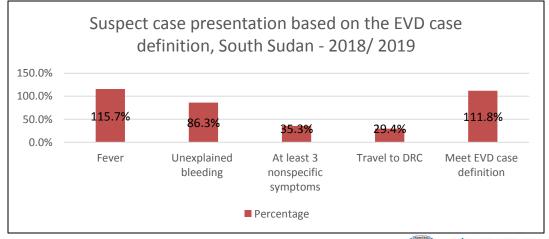
Major suspected outbreaks in South Sudan in 2019



EVD Suspect cases in South Sudan 2018 and 2019

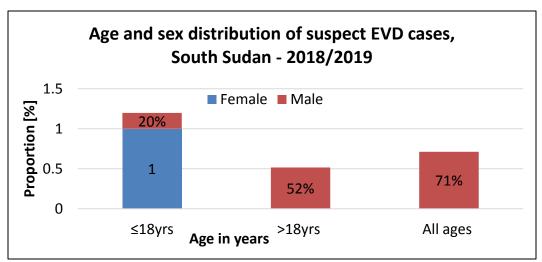
- Since August 2018, at least 67 suspect EVD cases have been reported, of which:
- Most, 51 (75.3%) have been reported in 2019
- 67 (82.3%) met the EVD case definition – with fever (115,7) and unexplained bleeding (86,3%) being the most frequent symptoms
- Most of the suspect EVD cases have been reported by health workers at health facility level
- Three suspect EVD cases were reported from screening points

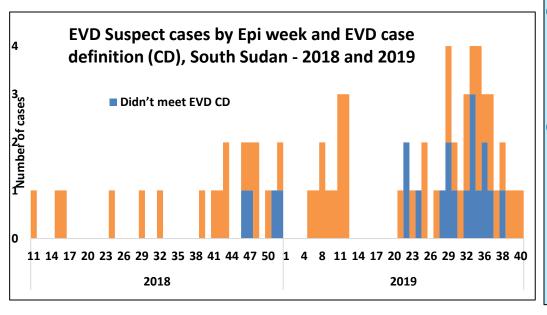
	Met the EVD		
Source of information	No	Yes	Total cases
2018	3	17	20
Community		5	5
Health Worker	3	11	14
Screening point			
2019	11	50	61
Community		6	6
Health Worker	8	29	37
MSF Swiss		1	1
РНО	1		1
Red Cross		1	1
Screening point		3	3
Surveillance officer	2	5	7
UNHCR Focal Person		1	1
6666		3	3
Yirol Hospital		1	1
Total cases	14	67	81





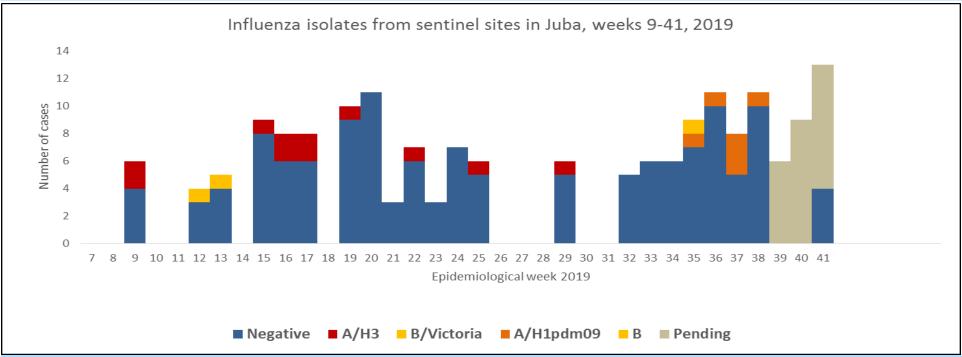
EVD Suspect cases in South Sudan 2018 and 2019





- Most of the suspect EVD cases have been reported in adults 18 years and above (52%)
- Similarly, most suspect EVD cases have been reported in males (71%)
- 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 week range from 0-4 cases

Routine Sentinel Surveillance | Human Influenza



- 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 188 ILI/SARI samples have been collected and tested in UVRI 144 being negative; 4 (2%) positive for Influenza B (Victoria); 11 (6%) positive for Influenza A (H3); and 2(1%) positive for Influenza A (H1)pdm09 and 9 samples are pending test results.
- Since the beginning of 2019; Influenza A (3) 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



Response | Summary of major ongoing outbreaks in 2019

						Intervent	tions	
Aetiological agent	Location (county)	Date first reported	New cases since last bulletin	Cumulative cases to date (attack rate %)	Case manageme nt	Vaccination	Health promotion	WAS H
Ongoing epidemics								
Measles	Wau County and PoC-AA	28/1/2019	1	536 (0.0018)	yes	Yes	yes	N/A
Rubella	Wau PoC-AA	25/3/2019	0	11(0)	yes	No	yes	N/A
Hepatitis E	Bentiu PoC	03/01/2018	5	94 (0.053)	Yes	No	Yes	Yes
Measles	Pibor	17/01/2019	NR	2054 (0.008)	yes	No	yes	N/A
Measles	Bentiu PoC	24/04/2019	11	155 (0.070)	Yes	Yes	Yes	N/A
Rubella	Yirol West	06/08/2018	4	19(0.21)	Yes	No	Yes	N/A
Measles	Tonj South	30/07/2019	0	47(0.021)	Yes	No	Yes	N/A
Measles	Jur River	06/02/2019	1	338(0.003)	Yes	No	Yes	N/A
Measles	Yambio	06/09/2019	3	16(0.186)	Yes	No	Yes	N/A
				71.52				

70

Measles Highlights in 2019

Measles outbreaks confirmed in 2019

- <u>16 counties</u> Pibor; Abyei; Mayom; Gogrial West; Aweil South; Melut;
 Gogrial East; Juba; Tonj North; Aweil West; Aweil East; Renk; Wau; Tonj
 North; Jur River; and Yambio
- 4 PoC sites
 Wau PoC AA; Bentiu PoC; Malakal PoC; & Juba PoC

New confirmed measles outbreaks and response dates:

- Tonj South; completed
- Jur River; 4th week October, 2019
- Pibor Labarab and Maruwa; completed
- Yambio; completed

Measles Outbreak situation & response by county as of week 41, 2019

No	County	Population	Confirmed cases	Probable cases	Total cases	Cases per 100,000	Total deaths	CFR %	Date first reported	Emergency Campaign	Admin Coverage	Status	Comments
1	Abyei	79,854	9	297	306	383.2	0	0.0%	02-Jan-19	Done	13,335 (88%)	controlled	
2	Mayom	197,510	3	16	19	9.6	0	0.0%	17-Jan-19	Done	56,647 (152%)	controlled	
3	Juba	597,171	12	51	63	10.5	3	4.8%	15-Jan-19	Done	96,180 (99%)	controlled	
4	Gogrial West	388,469	4	152	156	40.2	0	0.0%	02-Jan-19	Done	193,958 (97.2%)	controlled	6m-15yrs targeted
5	Gogrial East	157,422	4	26	30	19.1	1	3.3%	10-Mar-19	Done	56,423 (94.93%)	controlled	
6	Tonj North	249,895	6	14	20	8.0	2	10.0%	02-Apr-19	Done	44,400 (91%)	controlled	
7	Tonj South	131,857	6	41	47	35.6	0	0.0%	30-Jul-19	pending		active	
8	Jur River	192,937	7	54	61	31.6	1	1.6%	03-Feb-19	pending		active	
9	Wau	256,363	13	507	536	202.8	5	1.0%	26-Jan-19	Done	23,018 (85%)	active	
10	Aweil East	489,714	7	15	22	4.5	0	0.0%	23-Feb-19	Done	71,460 (93%)	controlled	
11	Aweil West	258,616	16	32	48	18.6	0	0.0%	04-Apr-19	Done	26477 (97%)	controlled	
12	Aweil South	112,162	4	42	46	41.0	0	0.0%	15-Mar-19	Done	24,261 (116%)	controlled	
13	Melut	323,920	3	6	9	2.8	0	0.0%	15-Mar-19	Done	12,035 (78%)	controlled	
14	Pibor	224,613	8	2054	2054	914.5	9	0.43%	12-Jan-19	Done	13,965 (30%)	controlled	mop up underway
15	Renk	218,083	3	4	7	3.2	0	0.0%	09-Jan-19	Done	7,712 (79.8%)	controlled	
16	Juba PoC	38,500	2	3	5	13.0	0	0.0%	05-Apr-19	Done	74%	controlled	
17	Bentiu PoC	103,424	45	53	155	149.9	1	0.6%	01-Jan-19	Done	19084 (112%)	active	
18	Malakal PoC	24,402	2	0	2	8.2	0	0.0%	11-Apr-19	Done	112%	controlled	
19	Wau PoC	12,959	5	98	103	794.8	0	0.0%	23-Feb-19	Done	85.00%	active	
20	Yambio	231,489	4	12	16	6.9	1	6.3%	05-Sep-19	pending		active w	orld Health
	Total	4,289,360	163	3,477	3,632	84.7	23	0.6%					

Measles and Rubella Laboratory Test Results, week 40 of 2019

S/N	Location/Health Facility	Date sent to Juba	Date Received at PHL	Suspected Disease	Lab results
					Measles&Rubella IgM
1	Wau North/POC AA	NA	5/10/2019	Measles	negative
2	Wau North/POC AA	NA	5/10/2019	Measles	Measles IgM positive
3	Wau North/POC AA	NA	5/10/2019	Measles	Measles &Rubella IgM negative
4	Wau South/WTH	NA	5/10/2019	Measles	Measles IgM positive
5	Wau North/sika hadid PHCC	NA	5/10/2019	Measles	Rubella IgM positive
6	Wau North	N/A	NA	Measles	Rubella IgM positive
7	Wau North	N/A	NA	Measles	Rubella IgM positive
8	Wau South/WTH	N/A	NA	Measles	Measles IgM positive
9	Wau North	N/A	5/10/2019	Measles	Measles&Rubella IgM negative

During the week;

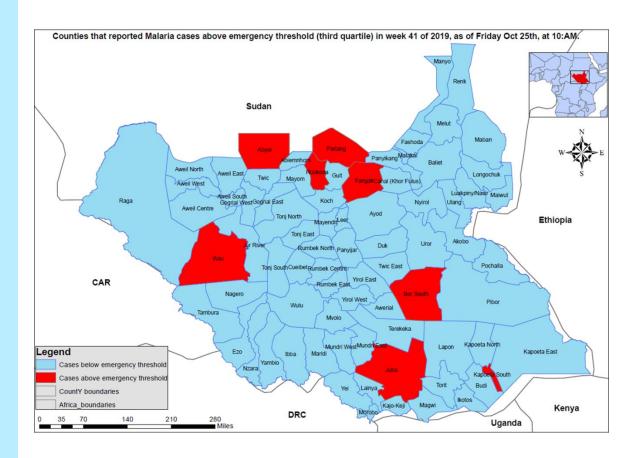
- Nine (9) samples from Wau:
 - Three (3) from Wau PoC AA: two (2) tested measles IgM +ve and one tested negative for measles and rubella
 - Two (2) from Wau teaching hospital; both tested measles IgM +ve
 - One (1) samples from Sika Haded PHCCC; tested rubella IgM positive
 - Three (3) sample from Wau North; two (2) samples tested rubella IgM positive and one (1) tested negative for measles and rubella.

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Response | Suspect epidemics; Curent Malaria trends 41, 2019

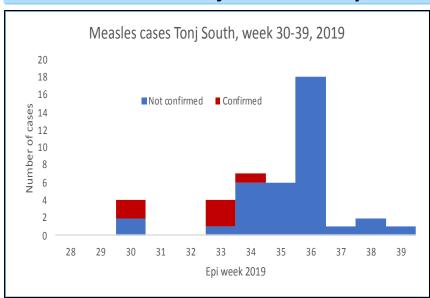
Malaria was the leading cause of morbidity and mortality, accounting for 68.6% of all morbidities and 28.9% of all mortalities in week 41, 2019
There were 11 Counties with malaria trends that exceeded the threshold (third quartile of trends for the period 2013-2017) and these include the following:

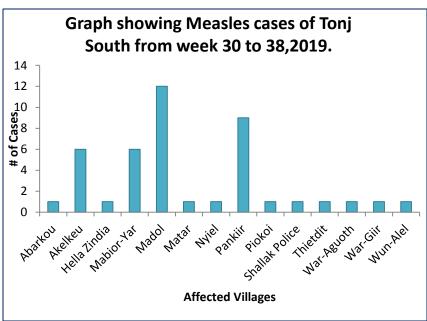
- Juba hub (Juba)
- 2. Kwajok hub (Abyei)
- Bentiu hub (Rubkona, Pariang)
- 4. Bor hub (Bor, Fangak)
- 5. Wau Hub (Wau, Jur River)
- 6. Torit Hub (Kapoeta South)
- Malakal Hub (Maban, Melut)





Measles cases in Tonj South County





Descriptive Epidemiology:

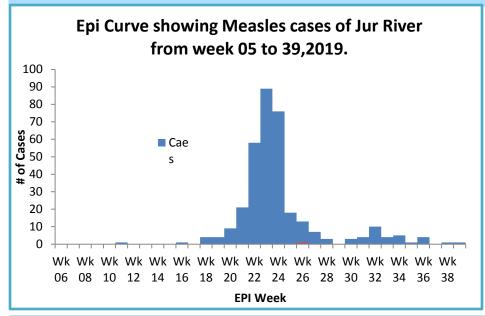
- Suspected measles case was initially detected at Tonj hospital in a 10-month-old female on 30th July 2019
- A total of eight (8) samples collected (6 measles IgM positive & 1 rubella IgM positive) thus confirming a measles outbreak
- 47 measles cases (0 death) reported since week 30
- Four (4) out of five (5) Payams are affected; with Tonj & Wanhalel Payams being the most affected. Most cases originate from Tonj and Wanhalel payam
- 56% of the cases are less than 5 years of age and 31 % of the cases reported have not received measles vaccine

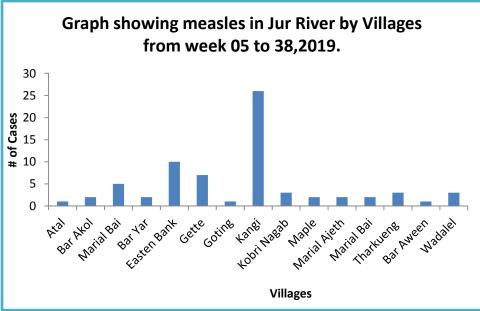
Response and Recommendations:

- Following the confirmation of a measles outbreak in the county, a reactive vaccination microplan targeting 26,244 children 6-59 months in five payams of Jak; Thiet; Manyang Ngok; Tonj; and Wanh Alel has been developed.
- The other interventions include:
- Intensified surveillance and line-listing of new measles cases
- Treating suspect cases with oral rehydration, vitamin A, and antibiotics for suprainfections
- Social mobilization and health education on measles case symptoms; prompt health care seeking; and routine immunization.
- SMoH, CCM and partners are planning a reactive campaign in the 3rd week of October
- WHO is planning for the PCE
- No new cases reported since week 38, 2019

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Measles cases in Jur River





Descriptive Epidemiology:

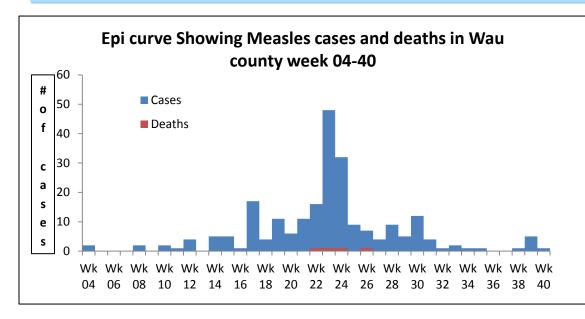
- Initial cases were reported on 6 Feb from Marialbai PHCC from Bar Aween village
- 7 measles IgM positive cases recorded since outbreak onset
- Most of the cases have been reported from Kingi; Eastern Bank and Gette
- 69 % of the cases reported are not vaccinated against measles

Response and Recommendations:

- Following the confirmation of a measles outbreak in the county, a reactive vaccination microplan targeting 60,435 children 6-59 months in five payams of Rocroc; Kuajina; Udici; Kangi; and Marial Bai/ Wau Bai has been developed.
- The other interventions include:
- Intensified surveillance and line-listing of new measles cases
- Treating suspect cases with oral rehydration, vitamin A, and antibiotics for suprainfections
- Social mobilization and health education on measles case symptoms; prompt health care seeking; and routine immunization.
- SMoH, Cordaid and partners are planning a reactive campaign on the 3rd week of October
- WHO is planning for the PCE



Confirmed Measles Outbreak in Wau County and Wau POCAA



Age(yrs)	Alive	Died	Total Cases	Percentage	Cum.%
- 6-()/					
<1yr	121	4	125	23%	26%
1-4yrs	273	3	276	51%	75%
5-9yrs	71		71	13%	89%
10-14yrs	33		33	6%	95%
15+yrs	31		31	6%	100%
Total	529	7	536		

Introduction

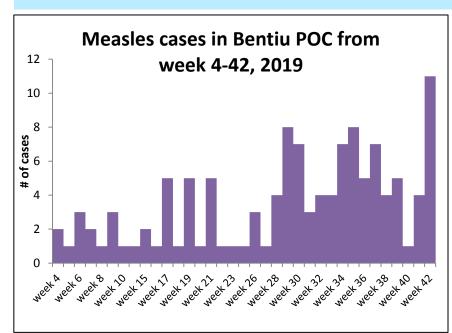
- In week 19, 2019 a measles outbreak was confirmed in Wau county & Wau POC AA.
- Of the 46 samples tested in 2019; a total of 13 tested measles IgM positive while 15 tested rubella IgM positive
- The outbreak of measles was confirmed in May 2019.

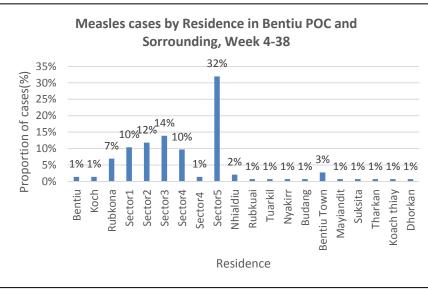
Descriptive Epidemiology:

- Since week 4 of 2019; a total of 536 cases including 6 deaths (CFR 1.2%) have been reported from Wau County. The outbreak peaked in week 22, 23 and 24 and later came down to 1 cases in week 40, 2019
- 75% of the cases are under the age of 5years with 85 % of the cases not vaccinated against measles.
- Response and recommendations
- IOM, UNICEF and partners conducted a campaign covered Wau municipality and extended to some IDPs collective sites in Jur River from $3^{rd} 10^{th}$ June
- Target populations (27,166) child from 6-59 months, the coverage was 85% as (23,028) child vaccinated including (1,628) child from IDPs collective site in Jur River County. PCE by MoH and WHO showed a coverage of 89.15%.
- Vaccination post for measles has been fixed at the entrance of the POC-AA is continuing with vaccination for the new arrivals and children who missed vaccination during the reactive campaign.

Response | Confirmed epidemics

Confirmed Measles and Rubella outbreak in Bentiu PoC





Epidemiological description

- Bentiu PoC has been reporting suspected measles/rubella cases since week 4 of 2019. 11 new cases reported in week 42, 2019
- At least 155 measles cases including 1 death (CFR 1.03%) reported since then.
- Cumulatively, 36 tested cases have tested measles IgM positive while 15 tested rubella IgM positive. During the week; nine (9) measles IgM positive and one (1) rubella IgM positive cases were reported
- Majority 111 (97%) of the cases are children <5 years.
- 97% are under 5 yrs old, 3% 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

- IOM completed a reactive campaign in Bentiu POC on 31 May 2019.
 with 21,285 children 6-59 months (126%) receiving measles vaccination
- PCE was done by MoH & WHO, coverage was 74.6%.
- Bentiu has continued to experience an upsurge of returnee refugees many of whom have ended up in Bentiu PoC. Hence the increased movements and congestion have precipitated and facilitated the current transmission of measles in Bentiu PoC.
- Consequently, measles vaccination posts have been mounted at bus stops and at the entrance to the PoC to ensure that all children under 15 years that are arriving in Bentiu receive measles vaccine.

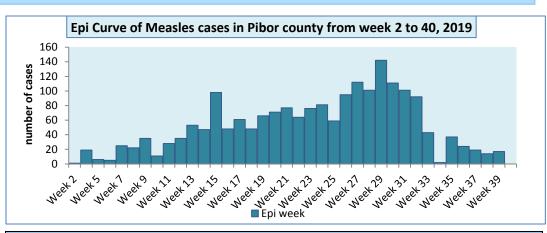
Measles in Pibor County

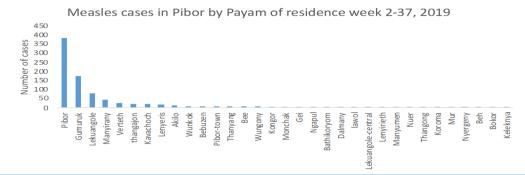
Background and descriptive epidemiology

- Measles transmission has persisted in Pibor County despite of the vaccination campaign conducted in February and March 2019.
- A total of 2056 measles cases (9 deaths [CFR 0.44%])
 reported since week 2 of 2019
- A total of eight (8) measles IgM positive cases recorded since outbreak onset
- 70.5% of the cases are less than 5 years of age
- 32.3 % of the cases reported are not vaccinated against measles
- Most of the cases shave been reported from Pibor;
 Gumruk; Lekuangole; Verteth. In addition, cases were recently confirmed in Labarab & Marua.

Response actions:

- Due to persistent transmission; MedAir and LiveWell implemented a measles campaign in Pibor; Lekuangole; Verteth; Gumuruk to interrupt transmission.
- The campaign started on 1st September 2019, targeting 27,122 (6-59 months and 5-15 years combined).
- LiveWell and WHO eMMT started on 7th October a vaccination campaign targeting at least 3,200 children aged 6 – 59 months in Marua and Labarab

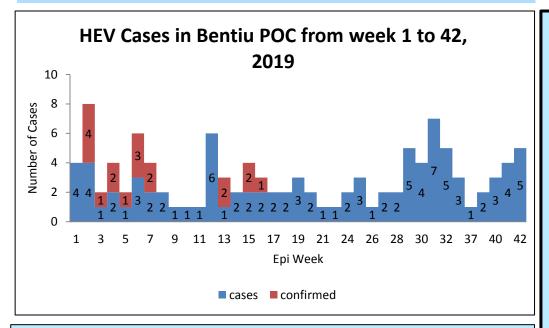




- Labarab: Target population: 1,574; children age 6 months to 15 years (45%). The total number vaccinated is 592 with coverage of 38%
- Marua: Target Population: 1712, children age 6 months to 15 years (45%). Total number Vaccinated is 1,783 with coverage of 104%
- No reported AEFIs in both areas

Response | Confirmed epidemics

Hepatitis E, Bentiu PoC



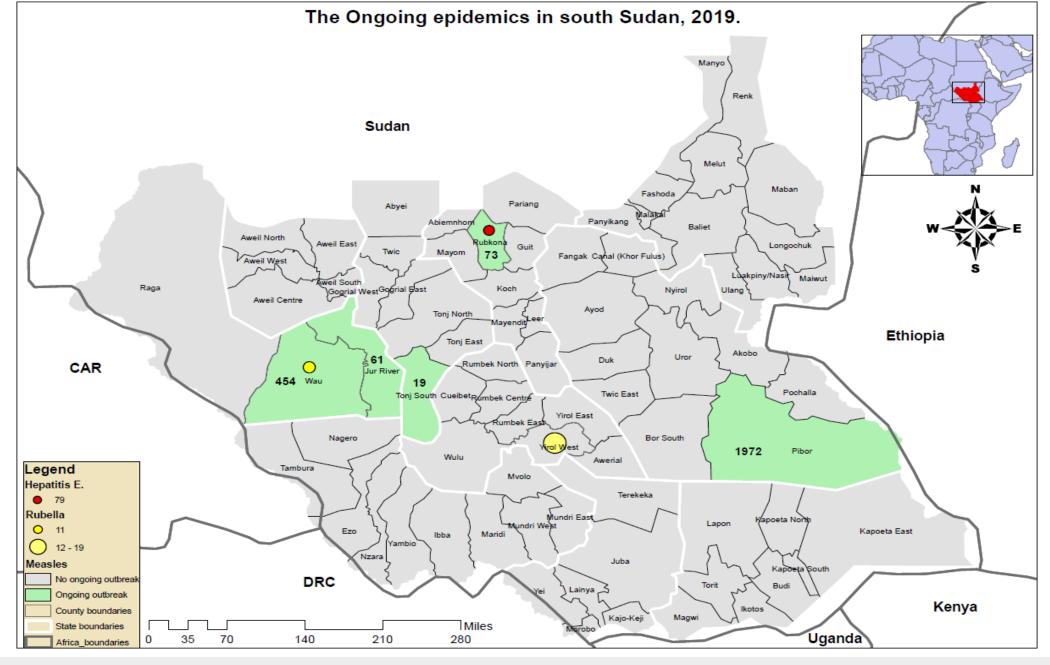
Recommended actions

- 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

Descriptive epidemiology

- The persistent transmission of HEV in Bentiu PoC continues with 80 cases since beginning of 2019
- Total of ninety four (94) cases line listed
- There were (4) cases reported in week 41; & five (5) case in week 42, 2019.
- 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
- Over half (51%) out of 94 cases are female.
- Age group less than 15 years had the most cases with 62 (65.9%) 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 42, 2019; there were 94 cases of HEV in Bentiu PoC including 2 deaths (CFR 2.13%)





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 Controlled outbreaks in 2019 (1)

		Date first	New cases	Cumulative cases	Interventions				
Aetiological agent	Location (county)	reported	since last bulletin	to date (attack rate %)	Case management	Vaccination	Health promotion	WASH	
Rubella	Malakal PoC	25/10/2018	0	178 (0.08)	Yes	No	Yes	N/A	
Yellow Fever	Nzara	23/11/2018	0	3 (0.001)	Yes	Yes	Yes	N/A	
Measles	Abyei	12/02/2018	0	306 (0.40)	Yes	Yes	Yes	N/A	
Measles	Mayom	17/01/2019	0	19 (0.010)	Yes	Yes	Yes	N/A	
Measles	Gogrial West	04/02/2019	0	156 (0.025)	Yes	Yes	Yes	N/A	
Rubella	Aweil		0	35 (0.028)	Yes	No	Yes	N/A	
	Center/NBG								
Measles	Aweil South	15/03/2019	0	46 (0.012)	Yes	Yes	Yes	N/A	
Measles	Melut	15/03/2019	0	9(0.008)	Yes	Yes	Yes	N/A	
Rubella	Bor South		0	4 (0.001)	Yes	No	Yes	N/A	
Rubella	Gogrial West		0	5 (0.001)	Yes	No	Yes	N/A	
Rubella	Yirol East		0	3 (0.003)	Yes	No	Yes	N/A	
Measles	Gogrial East	4/04/2019	0	30 (0.003)	Yes	Yes	Yes	N/A	
Measles	Malakal PoC	24/04/2019	0	2 (0.01)	Yes	Yes	Yes	N/A	

Response | Summary of major Controlled outbreaks in 2019 (2)

Aetiological agent	Location (county)	Date first reported	New cases	Cumulative	Interventions				
			since last bulletin	cases to date (attack rate %)	Case management	Vaccination	Health promotion	WASH	
Hepatitis E	Lankein	28/2/2019	0	10 (0.1)	yes	No	yes	N/A	
Measles	Juba & PoC	15/01/2019	0	68 (0)	Yes	Yes	Yes	N/A	
Rubella	Bentiu Poc	-	0	51 (0)	yes	No	yes	N/A	
Measles	Tonj North	2/04/2019	0	20 (0)	Yes	Yes	Yes	N/A	
Measles	Aweil West	4/04/2019	0	48 (0)	Yes	Yes	Yes	N/A	
Measles	Aweil East	13/05/2019	2	19 (0.14)	Yes	Yes	Yes	N/A	
Measles	Renk County	28/2/2019	0	7(0)	yes	Yes	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 22th October 2019

Current situation

- Currently as of 20th October, 2019
- 3243 Cases [3127 confirmed &116 probable]
- 2171 Deaths [2077 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 21 days from 30 September to 20
 October, the number of affected health
 areas has decreased, with 20 health areas
 and nine health zones reporting new cases.
 During this period, a total of 50 confirmed
 cases were reported, with the majority
 coming from the health zones of Mandima
 (54%; n=27 cases) and Mambasa (10%;
 n=5 cases).



Ebola preparedness in South Sudan

EVD preparedness activities undertaken in South Sudan

- South Sudan, as a priority one (1) country for Ebola virus disease outbreak (EVD) preparedness continues to make progress to enhance capacities for EVD case detection, investigation, response, and prevention.
- The national Ebola taskforce continues to meet twice weekly and is coordinating the implementation of the EVD contingency plan. The Ebola taskforce working groups have finalized the EVD contingency plan for the next six months of EVD preparedness and readiness in the country.
- Detailed preparedness update can be accessed <u>https://www.afro.who.int/publications/weekly-update-ebola-virus-disease-evd-preparedness-south-sudan</u>

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

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Notes

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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







