South Sudan

Integrated Disease Surveillance and Response (IDSR)

Epidemiological Update W01 2019 (Dec 31, 2018- Jan 06, 2019)





- Completeness for IDSR reporting at the county level was 43% in the first week of 2019. Completeness for EWARS reporting from IDPs was 62%.
- Three suspected cases of meningitis have been reported from Cuei-Bet Hospital in Gok State. Two (2) of the cases have died.
- A Measles outbreak has been confirmed in Abyei following laboratory confirmation of five (5) cases between week 51-52, 2018. In total, there are 45 suspected cases to date. Of all the cases, 35 (76%) were reported between week 51, 2018-02, 2019. No deaths ahs been reported. Measles has been present in the area throughout the year, with about one suspected seen per week
- Twenty (20) new suspected Rubella cases have been reported from Malakal PoC in week 01, 2019. Overall, there are 113 cases with 41 cases tested positive for Rubella IgM antibodies.
- An unusual increase in numbers of acute watery diarrhea cases continues to be reported in Malakal PoC and Malakal Town. In Malakal PoC, a total of 333 cases have been reported while about 134 cases were reported from Malakal Town. No deaths have been reported. Most the cases are children <5 years of age. Samples have been collected to identify the etiology.
- There was no new suspect Rift Valley Fever (RVF) case reported from Yirol East in week 01. 2019. A total of 58 suspect human cases including 6 confirmed; 3 probable; 48 non-cases; and 01 pending classification (with no definitive lab. test results) have been reported. Nine confirmed animal cases (cattle).
- No new HEV cases reported from Bentiu PoC in week 01, 2019. A total of 155 HEV cases (18 confirmed by PCR) have been reported in Bentiu PoC in 2018. The new cases tested positive on RDT testing. Current response entails surveillance, case follow up in the communities and access to WASH services
- In light of the confirmed EVD outbreak in North Kivu, the South Sudan EVD contingency plan has been updated and implemented to mitigate the risk of EVD importation and enhance readiness capacities.

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SURVEILLANCE PERFORMANCE

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

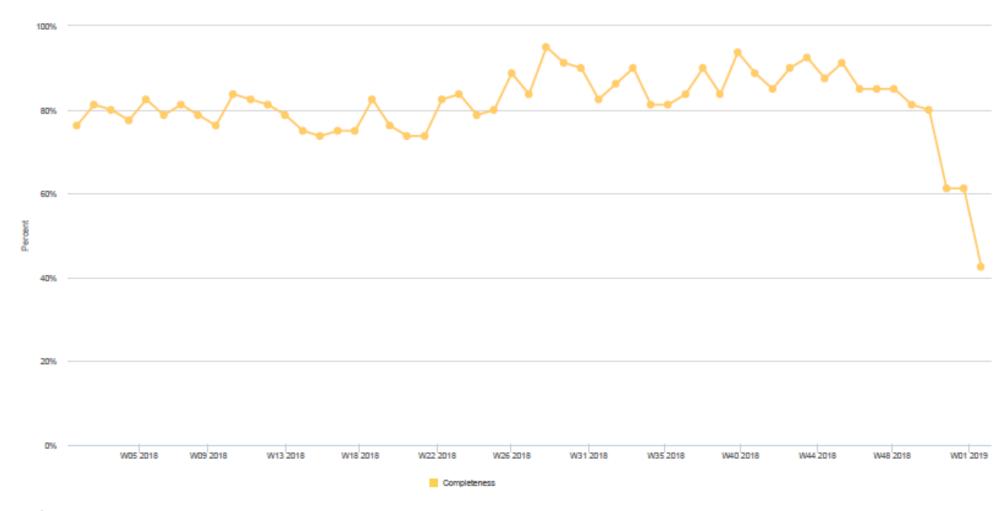


Table 1 | IDSR surveillance performance indicators by county (W1 2019)

Hub	Reporting		Performance (\	Performance (W1 2019)		Cumulative 2019)
	# counties	#reports received	Completeness	Timeliness	Completeness	Timeliness
Aweil	5	5	100%	100%	50%	50%
Bentiu	9	1	11%	11%	6%	6%
Bor	11	2	18%	18%	9%	9%
Juba	6	2	33%	33%	17%	17%
Kwajok	7	2	29%	29%	14%	14%
Malakal	13	1	8%	8%	4%	4%
Rumbek	8	4	50%	50%	25%	25%
Torit	8	5	63%	63%	31%	31%
Wau	3	2	67%	67%	33%	33%
Yambio	10	10	100%	100%	50%	50%
South Sudan	80	34	43%	43%	21%	43%

- Completeness for IDSR reporting at the county level was 43% in week 1, 2019 and cumulatively at 21% for .
- Timeliness for IDSR reporting at the county level was 43% in week 01 and cumulatively at 43% for 2019.

Figure 1 | Trend in IDSR completeness over time1

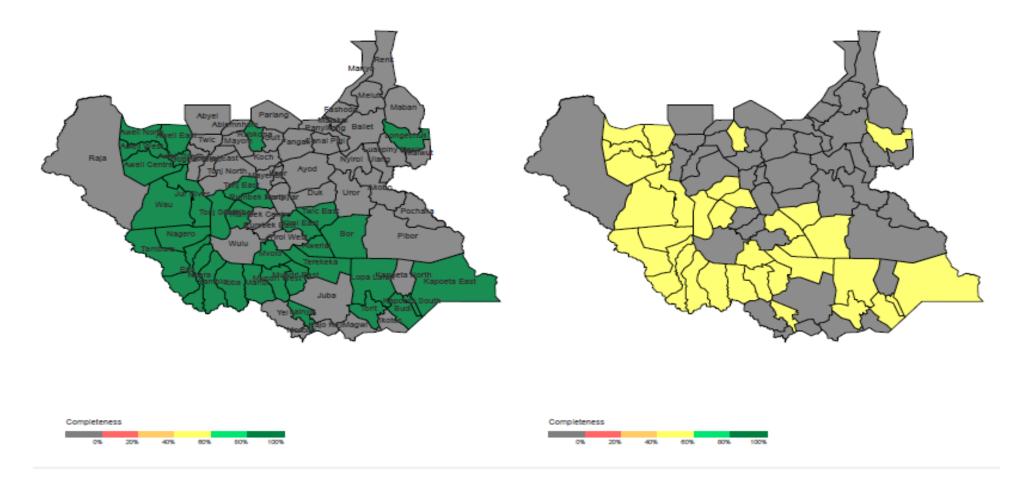


¹ Completeness footnote (to be drafted)

The graph shows completeness for the weekly IDSR reporting at the county level. A downward trend is noted in the last weeks of 2018 and the first week of 2019.

Map 1a | Map of IDSR completeness by county (W1 2019)

Map 1b | Map of IDSR completeness by county (2019)



- Counties that submitted their IDSR reports in week 01, 2019 are shown in green in map 1a.
- Counties that did not submit their IDSR reports in week 01, 2019 are shown in grey in map 1a. Notably, the number of counties in grey zone has been increasing over the last few weeks.

Table 4 | EWARS surveillance performance indicators by partner (W1 2019)

Partner	Performance		Reporting (W1	Reporting (W1 2019)		Reporting (Cumulative 2019)	
	# sites	#reports received	Completeness	Timeliness	Completeness	Timeliness	
CMD	3	2	67%	67%	4%	4%	
GOAL	2	2	100%	100%	50%	50%	
HLSS	2	1	50%	50%	25%	25%	
IMA	7	6	86%	86%	43%	43%	
IMC	6	5	83%	83%	42%	42%	
IOM	9	9	100%	100%	50%	50%	
IRC	1	1	100%	100%	50%	50%	
Medair	2	2	100%	100%	50%	50%	
MSF-E	2	0	0%	0%	0%	0%	
MSF-H	3	1	33%	33%	17%	17%	
SMC	6	4	67%	67%	33%	33%	
UNIDO	3	1	33%	33%	17%	17%	
UNKEA	2	0	0%	0%	0%	0%	
World Relief	1	1	100%	100%	50%	50%	
TRI-SS	7	0	0%	0%	0%	0%	
LIVEWELL	4	4	100%	100%	50%	50%	
Total	63	39	62%	62%	22%	22%	

Timeliness and completeness for EWARS/IDP reporting stands at 62% for week 01, while both the cumulative completeness and timeliness are 22% for 2019.

EVENT-BASED SURVEILLANCE

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



Table 7 | Alert performance indicators by Hub

HUB	W1		Eumulative (2019)		
	# alerts	% V€rif.	# allerts	% Vērif:	
Aweil	1	100%	1	100%	
Bentiu	1	0%	1	0%	
Bor	0	0%	0	0%	
Juba	1	100%	1	100%	
Kwajok	0	0%	0	0%	
Malakal	0	0%	0	0%	
Rumbek	2	100%	2	100%	
Torit	0	0%	1	100%	
Wau	1	100%	1	100%	
Yambio	4	100%	4	100%	
South Sudan	10	90%	11	91%	

Table 8 Summary of key alert indicators

W1	Eumulative (2019)				
10	11	Total alerts raised			
90%	91%	% verified			
0%	0%	% auto-discarded			
0%	0%	% risk assessed			
0%	0%	% requiring a response			

Out of 10 alerts that were received in week 01, 90% were verified and 0% were risk assessed. None of the alerts required a response.

Table 9 | Alert performance indicators by event

Event	W1		Cumulative (2019)						
	# alerts	% verif.	# alerts	% verif.					
Indicator-based surveillance									
Malaria	1	100%	1	100%					
AWD	3	100%	231	100%					
Bloody Diarr.	3	100%	3	62%					
Measles	3	67%	3	67%					
Meningitis	0	0%	0	0%					
Cholera	0	0%	0	0%					
Yellow Fever	0	0%	0	0%					
Guinea Worm	0	0%	0	0%					
AFP	0	0%	54	0%					
VHF	0	0%	0	0%					
Neo. tetanus	0	0%	0	0%					
Event-based su	urveillance								
EBS total	0	0%	1	100%					

Table 10 | Event risk assessment

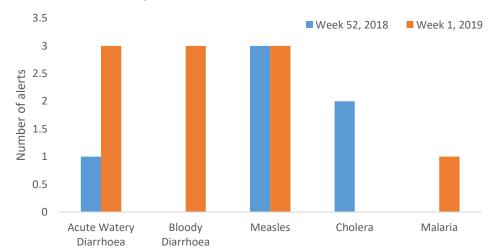
W1	Cumul	Cumulative (2019)				
0	0	Low risk				
0	0	Medium risk				
0	0	High risk				
0	0	Very high risk				

In the first week of 2019, measles (3), bloody diarrhea (3) and acute watery diarrhea (3) were the most frequently reported infectious diseases. No alert was reported through event-based surveillance.

Alert by disease and county in W01 2019

County	Acute Watery Diarrhoea	Bloody Diarrhoea	Measl es	Malaria	Total Alerts
Aweil North		1			1
Cueibet			1		1
Maridi	1				1
Mundri West	1				1
Nagero				1	1
Terekeka		1			1
Yambio	1				1
Yirol East			1		1
IOM Cathedral IDP Camp Clinic		1			1
MSF-H Bentiu PoC Hospital			1		1
Total Alerts	3	3	3	1	10

Alerts by hazard in week 51 and week 52, 2018

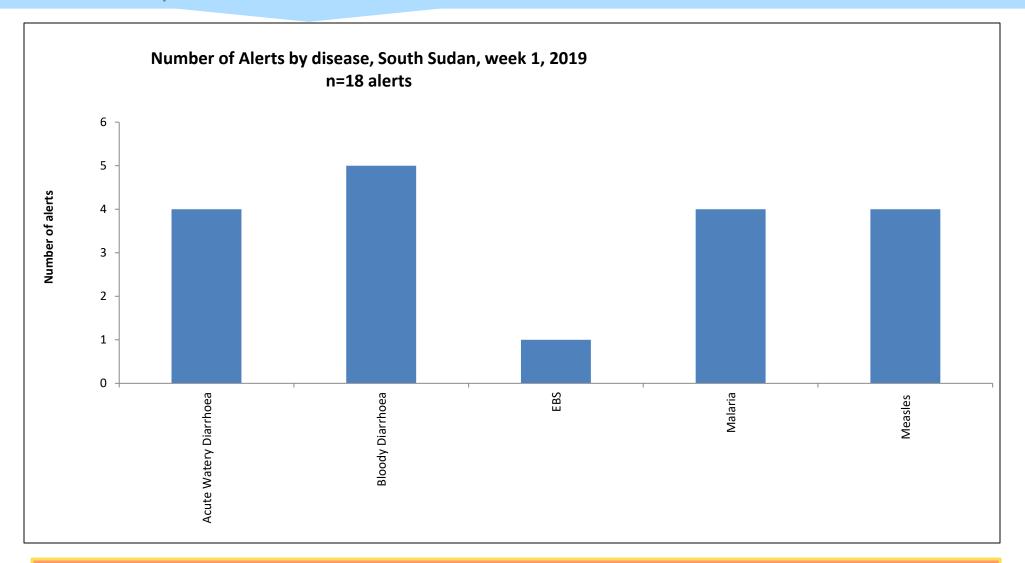


- In week 01, 2019, 10 alerts were reported through EWARS
 - Measles, bloody diarrhea and acute watery diarrhea were the commonest cause of alert

Suspected Meningitis cases in Cuei-Bet

- Three suspected cases of meningitis were reported from Cuei-Bet Hospital in Gok State.
- The cases were three children aged 11-17 years coming from three (3) different villages (Lua Kou, Aluangic, Tiitcok)
- The first cases was admitted on 28th Dec 2018 while the latest case was admitted on 09th Jan 2019
- Two cases died on 09 Jan 2019
- Recommended responses entails active case search, sample collection for confirmation and on job training for health workers on sample collection, case definition and case managment
- Three (3) suspected measles cases in Bentiu between week 50-52, 2018. Samples have not been received.

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The Figure shows the cumulative number of alerts triggered in 2019 by hazard.



Cumulative alerts by risk assessment stage in 2019

County	RISK ASSESSED	VERIFICATION	Total Alerts
A suite Materia Dispute a ca			
Acute Watery Diarrhoea			4 4
Bloody Diarrhoea			5 5
EBS		1	1
Measles			4 4
Malaria			4 4
Total Alerts		1	17 18

- The Figures show the cumulative alerts by risk assessment state in 2019
- Of the 18 alerts reported in 2019; one (1) alert was verified and none underwent risk assessment..

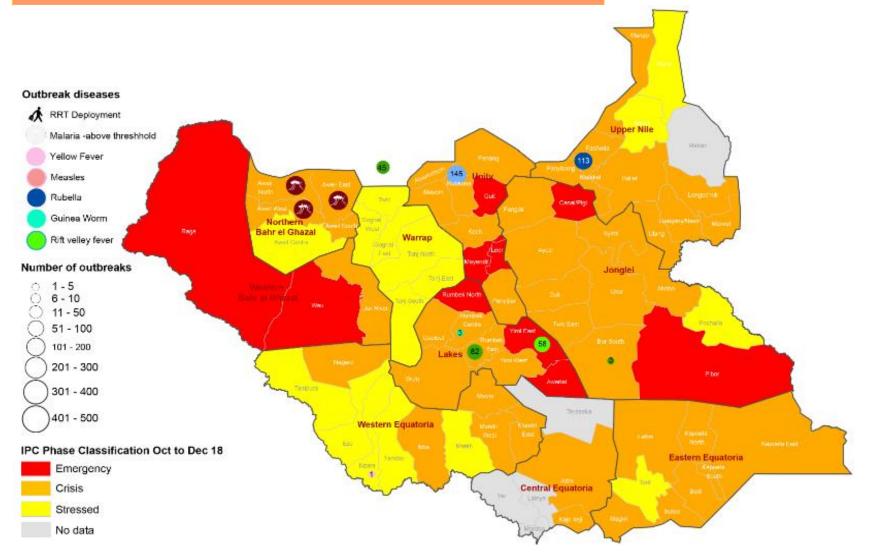
OUTBREAKS IN 2019

Major suspect and confirmed outbreaks in South Sudan in 2019



Confirmed Outbreaks South Sudan – January 2019

- The map show outbreaks confirmed in 2018
- The active outbreaks include: Guinea worm (Rumbek Center and Rumbek North); Rift Valley Fever (Yirol East); HEV (Bentiu PoC); possible malaria upsurge in 3 counties (Aweil East, Aweil West and Aweil North); measles in Bor PoC; Measles in Rumbek East; Yellow Fever in Nzara; Measles in Abyei and Rubella in Malakal PoC.

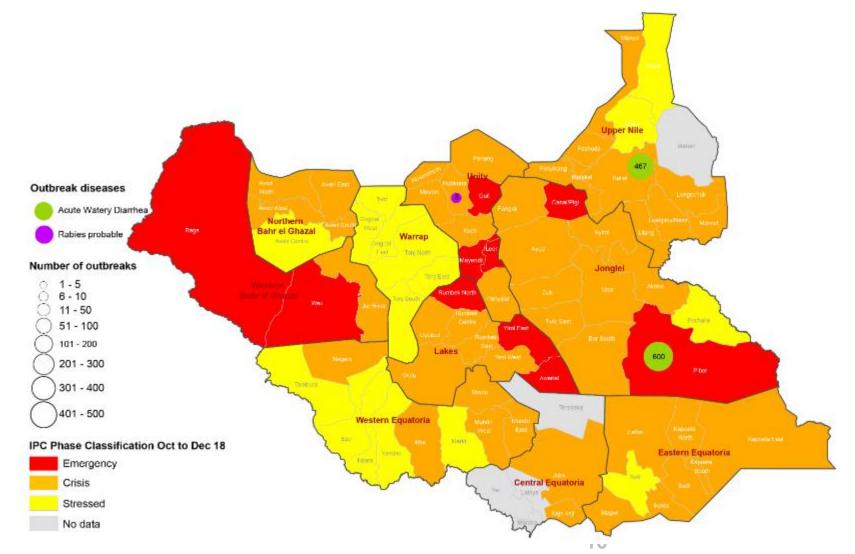






Suspect Outbreaks South Sudan – 06th January 2019

- Map shows suspect outbreaks reported in 2018
- New alerts in the week
 - Acute watery Diarrhea in Malakal
 - Suspected rabies outbreak in Bentiu PoC





Response | Summary of major ongoing outbreaks

	Location	Date first	New cases	Cumulative	Interventions			
Aetiological agent	(county)	reported	since last bulletin	cases to date (attack rate %)	Case management	Vaccination	Health promotion	WASH
Ongoing epidemics								
Rubella	Malakal PoC	25/10/2018	20	113 (0.09)	Yes	No	Yes	N/A
Yellow Fever	Nzara	23/11/2018	0	1 (0.001)	Yes	No	Yes	N/A
Measles	Rumbek East	09/10/2018	0	82 (0.002)	Yes	No	Yes	N/A
Measles	Bor PoC	20/10/2018	0	3 (0.15)	Yes	No	Yes	N/A
Guinea worm	Rumbek Center & Rumbek North	27/05/2018 1	0	3 (0.001)	Yes	N/A	Yes	Yes
RVF	Yirol East	28/12/2017	0	58 (0.054)	Yes	N/A	Yes	N/A
Hepatitis E	Bentiu PoC	03/01/2018	4	145 (0.123)	Yes	No	Yes	Yes
Possible malaria upsurge	2 counties	01/07/2018			Yes	N/A	Yes	N/A
Measles	Abyei	12/02/2018	24	45 (0.06)	Yes	No	Yes	N/A
Ongoing outbr 1. Rubella Mal		k <u>01, 2019</u>						

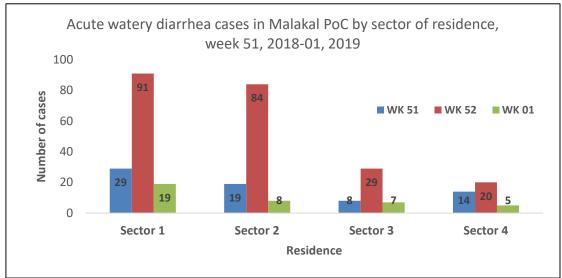
- 2. Yellow Fever in Nzara county
- 3. Measles in Rumbek East county
- 4. Measles in Bor PoC
- 4. Wedstes III Dol Pou
- 5. Guinea worm (Rumbek Center and Rumbek North);
- 6. Rift Valley Fever (Yirol East);7. Hepatitis E Virus (Bentiu PoC);
- 8. Possible malaria upsurge in 3 counties
- 9. Measles in Abyei

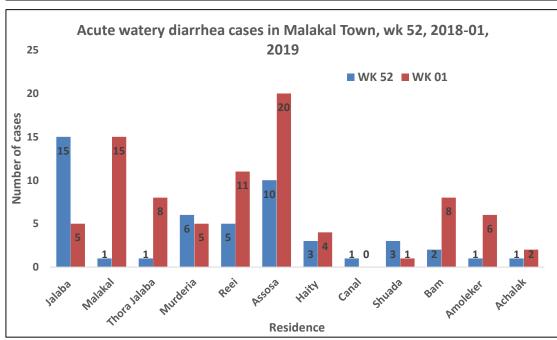
ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS

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



Suspected AWD Outbreak- Malakal





Descriptive Epidemiology

- An increase in AWD cases in Malakal PoC and Malakal Town reported from week 51, 2018
- Overall, 467 AWD cases to date
- In Malakal PoC, a total of 333 cases (70 in week 51, 224 in week 52 and 39 in week 01)
- In Malakal Town, 134 cases (49 in week 52 and 85 in week 01)
- Assossa, Jalaba and Malakal Payams had the most number of cases
- Majority of the cases are <5 children
- No mortalities reported

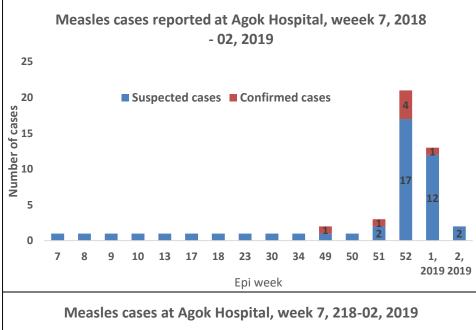
Recommended Responses

- Samples have been collected for testing for cholera and other differentials
- Results are pending
- Continue case management and line listing
- Engaging WASH partners to fill in the gaps in WASH services and increase awareness about the underlying cause of the outbreak



Response | Confirmed epidemics

Confirmed measles outbreak – Abyei



	Measle	es cases a	t Agok	Hospita	al, week	7, 218-	02, 2019)
40								
35								
ري 30							34	
9 25 25								
Number of cases								
ق ق 15								
≥ ₁₀								
5								_
0	1	1	1	1	4	1		1
	abyei	ajak kuac	alel	mayen kor	rumamer	agok	(blank)	(blank)
			Abyei			Ruma	mmer	Turalei
Payam and county of residence								

Age groups	Female, n(%)	Male, n(%)	Total	Percentage, %	Cumulative %
<1	6	2	8	17.8	17.8
1-4	4	12	16	35.6	53.3
5-9		1	1	2.2	55.6
10-14	2	3	5	11.1	66.7
15+	5	10	15	33.3	100.0
Total cases	17	28	45	100.0	

Background

 Measles has been present in the area throughout the year, with about one suspected seen per week

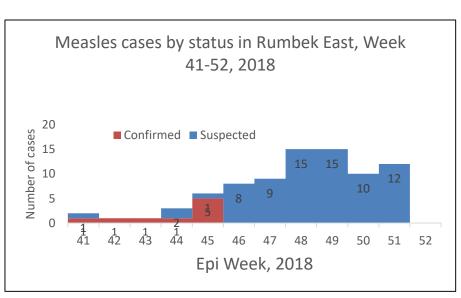
Descriptive Epidemiology

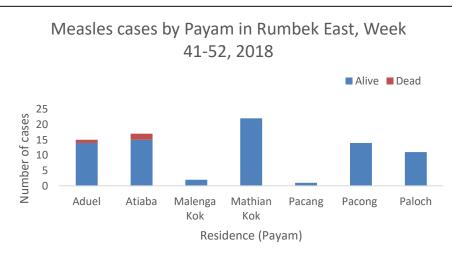
- A total of 45 suspected cases reported between week 7, 2018 and week
 02,2019
 - Number of cases increased from week 50, 2018
 - Of all the cases, 35 (76%) were reported between week 51, 2018-02, 2019
 - Five (5) confirmed cases between week 51-52, 2018
- No deaths reported
- About half of the cases are children <5 years, 24 (53%); males more than female, 28 (62%)
- Rumammer county had most cases, 35 (78%) from 20 villages affected

Recommended response

- 1. Reactive campaign
 - Surveillance through active case search and line listing and community sensitisation on routine immunization
- 3. Case management-supportive management, vitamin A

Confirmed measles outbreak - Rumbek East





No new cases reported since week 51

Age groups	Male	Female	Total	Percentage, %	Cumulative %
<1		5	5	6.1	6.1
1-4	25	25	50	61.0	67.1
5-9	8	7	15	18.3	85.4
10-14	2	3	5	6.1	91.5
15+	4	3	7	8.5	100.0
Total cases	39	43	82	100.0	

Background

- Suspect measles cases reported from Mabor Duang village, Aduel payam in Rumbek East where the initial suspect case was a 38 year female whose illness started on 12 October 2018 in week 41.
- The affected village is served by Mabor Duang PHCC

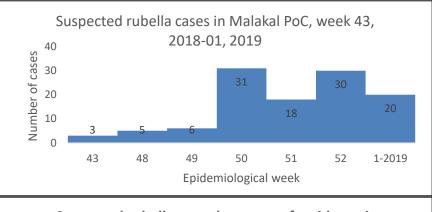
Descriptive Epidemiology

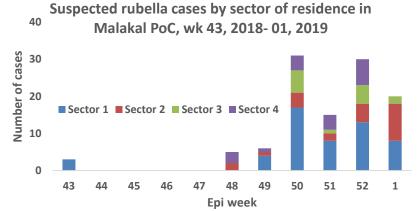
- 82 cases including 9 confirmed cases and 3 death (CFR 3.6%) reported
- Cases reported from six payams with most originating from Aduel; Atiaba, and Mathian kok.
- Majority of the cases, 55 (67%), were children < 5 years of age
- A total of 9 samples tested positive for measles IgM on 22 November 2018

Recommended response

- 1. Reactive campaign to be conducted early January 2019. The campaign targets to vaccinate 51,653 children 6-59 months from 8 payams in Rumbek East; one payam in Wulu; and three payams in Yirol West.
- . Surveillance through active case search and line listing and community sensitisation on routine immunization

Confirmed Rubella outbreak – Malakal PoC





Age Groups	Female, n(%)	Male, n(%)	Total, n(%)
<5	32 (28.6)	46 (41.1)	78 (69.6)
5-9	19 (17.0)	10 (8.9)	29 (25.9)
10-14	2 (1.8)	3 (2.7)	5 (4.5)
15+	0 (0.0)	0 (0.0)	0 (0.0)
Total	53 (47.3)	59 (52.7)	112 (100.0)

Background

 Suspect measles cases reported from Sector 1; Block 1 of Malakal PoC starting 27 Oct 2018. The initial three samples were IgM negative for measles and rubella.

Descriptive Epidemiology

- A total of 113 suspected rubella cases have been reported since week 43
- No deaths reported
- More males, 59 (52.7%) than females affected.
- There no cases reported among females within reproductive age groups (15-49 years)
 - Rubella infection in pregnancy associated with congenital rubella syndrome,
 - The outbreak started in sector 1 which remains the most affected sector
- 41 cases are laboratory confirmed

Recommended response

- 1. Continue line listing and analyzing the epidemiology to describe the high-risk groups
 - 1. Women of reproductive age group, 15-49 years
- 2. Provide supportive symptomatic care to new cases
- 3. Sensitize the communities to enhance routine immunization.

Yellow Fever Update: Sakure Payam, Nzara county, Gbudue state

Epidemiological update

- As of 19 Dec 2018, only one (1) PCR confirmed Yellow Fever case in the country
- Out of 35 samples collected by investigation team during active case search and contact tracing, two (2) samples tested presumptively yellow fever IgM positive

Entomological update

Overall, the entomological assessments in Sakure, Nzara, and Yambio towns showed no evidence
of Aedes species mosquitoes and the stegomyia entomological outbreak indices for the three towns
were all below the WHO epidemic thresholds. This is attributed to the current dry season and hence the
greatly reduced breeding and mosquito populations at this time of the year.

Laboratory update

- Out of the 36 samples tested;
 - One (1) sample was PCR confirmed for yellow fever virus.
 - Two (2) samples were presumptively yellow fever IgM positive (PRNT underway)
 - Conclusive testing underway for the remaining 33 samples (presumptively negative or inconclusive on preliminary serological testing).
- The yellow fever PCR positive case and the two presumptive yellow fever IgM positive cases all originate from Sakure payam in Nzara Payam, Gbudue state

Recommendations and Ongoing Activities

- Surveillance and laboratory investigation of new suspect cases
- Conclusive testing of presumptive yellow fever IgM positive cases awaited-expected on 18th January 2018
- The decision on conducting a rapid risk assessment will be based on additional information indicating active transmission
- Development of a draft yellow fever vaccination microplanator Sakure Payam-ongoing

Ebola alerts investigated from May 2018 to date

Date	Cases	Deaths	Payam	County	eRDT	eGeneXpert	ePCR	Comments
28May	1	0	Makpandu	Yambio	ND	ND	-ve	Reported in refugee camp
8Sep	1	1	Bakiwiri	Yambio	ND	ND	-ve	Did not meet case definition
26Sep	1	1	N/Bari	Juba	ND	ND	-ve	Community death
3Oct	1	1	Yei town	Yei	ND	ND	ND	Never traced (?false alert)
120ct	1	0	Rumbek	Rumbek Center	ND	-ve	-ve	Recent travel from DR Congo
140ct	1	0	Gumbo	Juba	ND	-ve	-ve	Did not meet case definition
18Oct	1	1	Mundri East	Mundri East		ND	-ve	Reported by Lui hospital
210ct	1	1	Yambio	Yambio	ND	ND	-ve	Recovered & discharged
29Oct	2	0	Nimule	Pageri	ND	ND	ND	Alerts discarded
11Nov	1	1	Loka	Lainya	ND	-ve	-ve	Investigated 11 Nov
23 Nov	1	0	Sakure	Nzara	ND	-ve	-ve	Confirmed for Yellow Fever
29 Nov	1	1	Yambio	Yambio	ND	-ve	-ve	Investigated on 29 Nov
03 Dec	1	0	Renk South	Renk	ND	-ve	-ve	Investigated 4 Dec
15 Dec	1	0	Rejaf	Rejaf	ND	-ve	-ve	Investigated 15 Dec
25 Dec	1	0	Yambio Town		ND	-ve	-ve	Investigated 25 Dec

- The latest EVD suspect case that was reported from Yambio Town on 25th Dec has been confirmed negative for Ebola Zaire and other viral hemorrhagic fevers on PCR testing in UVRI, Entebbe, Uganda.
- A total of 19 Ebola alerts have been investigated since May 2018
- Samples obtained from 13 Ebolavirus alerts; 13 samples tested negative for Ebolavirus and 1 sample tested positive for Yellow Fever on PCR.

Malaria trends

Current malaria trends

Malaria was the leading cause of morbidity accounting for 42.8% of all cases in week 01, 2019. The trend analyses showed 3 counties in one (1) state hub currently having malaria trends that are significantly higher than expected. Counties with malaria trends that exceed the threshold (third quartile of trends for the period 2013-2017) include:

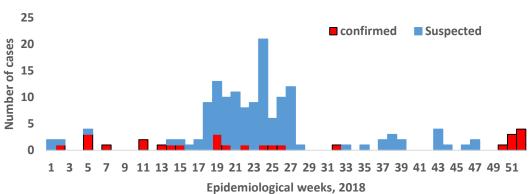
1. Aweil Hub (Aweil West, Aweil East and Aweil North))

Proposed public health actions

- 1. Convene malaria taskforce or 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 in the affected counties.
- 4. Stocking up on malaria prevention (LLINs), diagnostics (RDTs), medicines (ACTs), and enhancing behavioral change communication for malaria prevention, prompt investigation and initiation of treatment

Hepatitis E, Bentiu PoC



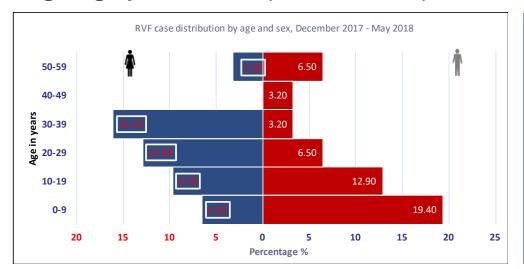


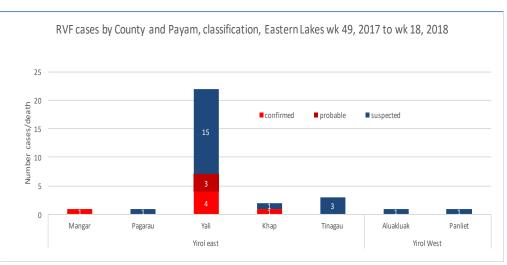
Age groups	Female, n(%)	Male, n(%)	Total cases, n(%)
<1 year	1 (0.6)	3 (1.9)	4 (2.5)
1-4 years	16 (10.3)	23 (14.8)	39 (25.2)
5-9 years	8 (5.2)	19 (12.3)	27 (17.4)
10-14 years	9 (5.8)	11 (7.1)	20 (12.9)
15-44 years	27 (17.5)	28 (18.1)	55 (35.5)
45+years	4 (2.6)	6 (3.9)	10 (6.5)
Total cases	65 (41.9)	90 (58.0)	155 (100)

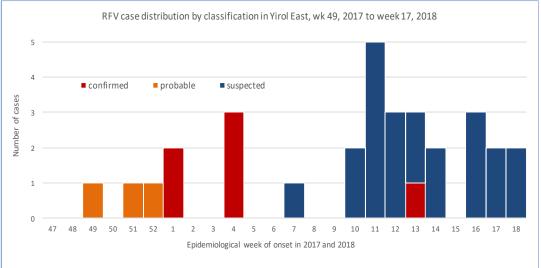
Bentiu PoC

- At least 155 suspect cases of Hepatitis E (HEV)
 have been reported in Bentiu PoC in 2018. Of all
 the cases, 18 suspect cases were confirmed
 using PCR. The eight (8) cases that were
 reported between week 50-52 tested positive on
 RDT testing.
- One (1) mortality (CFR 0.65%) in 2018.
- Only 11 HEV cases have been admitted.
- The new cases in week 50-52 were treated as outpatient
- Males were more affected accounting for 58% (90) of all the cases
- Age group 15-44 years had the most cases, 55 (35.5%)
- Out of the 65 females cases that were reported in 2018, 27 (42%) were aged 15-44 years
 - At risk of adverse outcomes if infected in the 3rd trimester of pregnancy
- Use of stagnant water likely to be source of infection
- UNICEF has disseminated key HEV messages on radio [Kondial FM & Bentiu FM] and through community sensitizations.
- Case identification and follow up in the communities and WASH interventions are ongoing.

Ongoing epidemics - Epidemic description - RVF Eastern Lakes state







Sno.	Description	Number
1	Suspect cases	58
2	Total deaths	4
3	Confirmed cases	6
4	Probable cases	3
5	Cases pending testing	01
6	Non-cases	48
7	Cases on admission	01
8	Total human samples collected	39
9	Total animal samples collected	28
10	Positive animal cases	9

Organization

- No new suspect RVF case reported from Yirol East in week 01, 2019.
- In the period 7 December 2017 to 16 Dec 2018, a total of 58 suspect RVF cases were reported in Eastern Lakes.
- These were reclassified based on investigations and laboratory results, such that as of 16^h Dec 2018, there were a total of six (6) RVF confirmed cases, three (3) probable, and 01 suspect RVF cases (either no samples collected or samples collected and test results are pending).
- Forty eight (48) cases were discarded as non-cases following negative laboratory results for RVF and other common causes of viral haemorrhage fever
- A total of nine animal samples have been confirmed serologically (3IgM and 6IgG).
 - Current response entails surveillance, laboratory testing, supportive care for suspect cases, and community sensitization on hygienic animal handling

OTHER PUBLIC HEALTH THREATS

Brief epidemiological description and public health preparedness and response to select public health threats



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 08 Jan 2019

Current

- Currently in 23rd week of the outbreak
- 630 Cases [582 confirmed & 48 probable]
- 385 Deaths [337 confirmed & 48 probable]
- 55 Health workers [54 confirmed; 18 dead]

Response update

- 4350 contacts under surveillance [81-92% followed up]; 56509 vaccinated
- 222 cases discharged from ETCs

Affected health zones

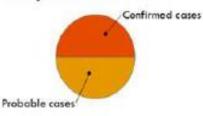
- 2 provinces [North Kivu & Ituri]
- 16 health zones [11North Kivu & 3 in Ituri]
- Previous 3 weeks: Katwa (18), Beni (13), Komanda (3), Butembo (16), Mabalako (5), Oicha (13), Kalungata (6), Musinene (2), Kyondo (1), Nyankunde (1)







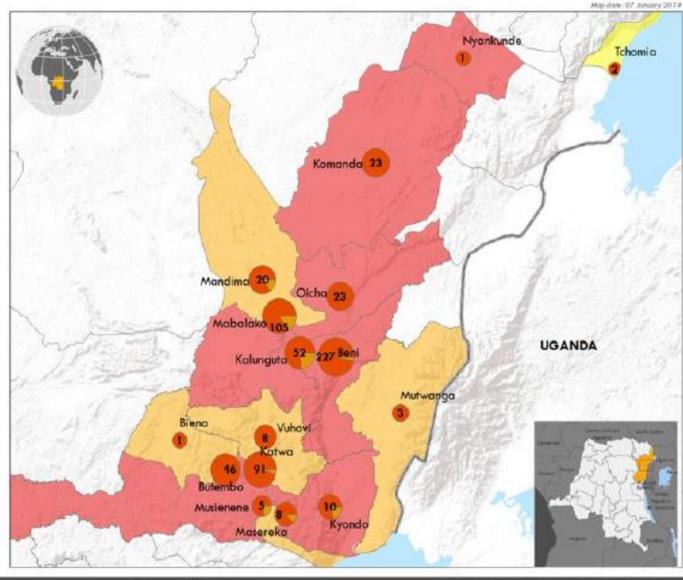
Boundaries and Locations Subject to Confirmation



No. days since last confirmed case reported



Province	25	Date of last reported confirmed uses	No. of days since fast care
NORD KIVU	Katura	6/01/2019	
NORD KIYU	Mabalako	6/01/2019	
NORD KIVU	Butembo	5/01/2019	
NORD KIYU	Kalunguta	5/01/2019	- 6
NORD KIVU	Kyondo	5/01/2019	- 1
NORD KIVU	Dicha	5/01/2019	1
ITURE	Komanda	2/01/2019	- 4
NORD KIVU	Beni	1/01/2019	
NORD KIVU	Musienene	22/12/2018	15
ITURE	Nyankunde	22/12/2018	15
NORD KIVU	Biena	12/12/2018	25
ITURE	Mandieva	11/12/2018	26
NORD KIVU	Vuhovi	9/12/2018	28
NORD KIYU	Masereka	1/12/2018	36
NORD KIVU	Mutwanga	30/11/2018	37
itus	Tchomia	23,/09/2018	105



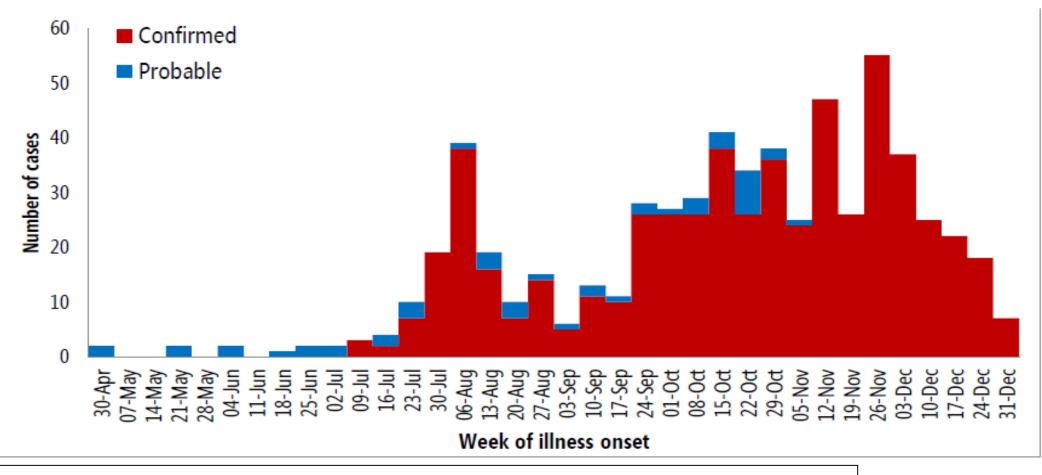
One Source: Wall health Organization
The Wistory of Health Denocrotic Republic of the Congo, OpenOnventor
Rep Production, WHO Health Energencies Programme
Report 10, 5800, LMC 001



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EVD trends & case distribution in DR Congo



- Trends in case incidence reflects continuation of the outbreak
- Multiple peaks have been recorded since the outbreak was declared



EVD risk assessment

- Very high-risk of regional spread to priority 1 countries like South Sudan
- On 17 Oct 2018; Emergency committee determined that EVD outbreak in DRC does not constitute a Public Health Emergency of International Concern (PHEIC)
- Priority 1 counties like South Sudan urged to:
 - Accelerate preparedness & surveillance
 - Strengthen risk communications
 - Vaccinating frontline HCWs in areas bordering DRC



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 are currently updating and implementing the EVD contingency plan to enhance readiness capacities for EVD response.
- Detailed preparedness update can be accessed <u>https://www.afro.who.int/publications/weekly-update-ebola-virus-disease-evd-preparedness-south-sudan</u>

South Sudan Ebola Response | Monitoring of EVD screening activities at Points of Entry in countries prioritized for Ebola preparedness activities

Year: 2019

Week number: W1 From: 2018-12-31 To: 2019-01-08

Name of PoE		Passengers Screening Information	n		EVD Alerts			
	#screened	# Isolated	# under Voluntary Home Quarantine	#reported	# validated	# suspects		
Bazi Border	0	0	0	0	0	0		
Gangura Border	226	0	0	0	0	0		
Juba International Airport	2,975	0	0	0	0	0		
Kaya	2,222	0	0	0	0	0		
Kaya Border	0	0	0	0	0	0		
Khorljo	1,782	0	0	0	0	0		
Maridi Airstrip	0	0	0	0	0	0		
Nimule Border	0	0	0	0	0	0		
Okaba	474	0	0	0	0	0		
Panjala Docking River	0	0	0	0	0	0		
Pure	2,232	0	0	0	0	0		
Sakure Border	118	0	0	0	0	0		
Tikori	168	0	0	0	0	0		
Wau Airport	37	0	0	0	0	0		
Yambio Airport	0	0	0	0	0	0		
Yel Airport	48	0	0	0	0	0		
Yel RRC	1	0	0	0	0	0		
South Sudan	10,283	0	0	0	0	0		

The electronic EWARS platform captures points of entry screening data and enables summarizing number of travelers screened on weekly basis. In week 01 of 2019, 10,283 individuals were screened at various screening points in the country.

MAJOR SUSPECT OUTBREAKS & EVENTS REPORTED IN 2019

Listing of the major suspect outbreaks and public health events reported in 2018-2019



Response | Suspect outbreaks in 2019

Date of report	Disease suspected	Number cases (deaths)	County	Payam	Status of investigations
20/10/2018	Measles	3	Bor South	Bor PoC	At least three suspect measles cases reported from Bor PoC since 20/10/2018. All tested measles IgM positive following tests done in Juba. Reactive measles campaign planned.
24/11/2018	Yellow Fever	1	Nzara	Sakure	A suspect Ebola case was reported from Sakure on 23/11/2018 and investigated by the rapid response team on 24/11/2018. Preliminary testing in Juba on 24/11/2018 were negative for Ebola Zaire following GeneXpert testing. Further testing of the sample was PCR negative for all Ebola species; Marburg; Rift Valley Fever, Crimean Congo Hemorrhagic Fever, and Sosuga viruses. The sample eventually tested PCR positive for Yellow Fever.
29/11/2018	Suspect Ebola	1 (01)	Yambio	Yambio	The case involved a 45 year old male who was brought dead to Yambio State Hospital mortuary where evidence of bleeding from the ears, nose, and mouth was identified. The deceased is a DR Congo (DRC) national that has been residing in Yambio with no history of travel to DRC in seven years. Preliminary GeneXpert testing was negative for Ebola Zaire and the sample has been shipped for confirmatory testing UVRI, Entebbe, Uganda.
03/12/2018	Suspect Ebola	1	Renk	Renk South	On 3 Dec 2018 as suspect Ebola case was reported in Abayok PHCC. The case was a 29 year old pregnant female that presented with fever, severe headache, generalized body weakness and vomiting of blood. There was no positive epidemiological link with hemorrhagic cases. Preliminary GeneXpert sample testing was negative for Ebola Zaire. Conclusive VHF test results showed the sample was PCR negative for Ebola; Marburg; RVF; YF; and CCHF.
04/12/2-18	Suspect measles	1	Renk	Renk South	A suspect measles case involving a 24 month old child reported in Abayok PHCC. The date of rash onset was Dec 1, 2018. The mother indicated the child received measles vaccination. The sample was delivered in the NPHL for testing on 4/12/2018 and test results are awaited.
04/12/2018	Rubella	113	Malakal	Malakal PoC	Suspect measles cases reported in Malakal PoC during the week ending 9 Dec 2018. This is the second cluster of alerts after the samples from the initial cluster of three cases tested measles IgM negative. Final test results confirmed Rubella as the cause of the this outbreak.



Date of report	Disease suspected	Number cases (deaths)	County	Payam	Status of investigations
03/12/2018	measles	6 (0)	Renk	Renk	At least six suspect measles cases have been reported from Renk with one sample testing measles IgM positive. Five samples are pending testing.
12/12/2018	Acute watery Diarrhea	11 (0)	Pibor	Pibor	On 12 December 2018, Pibor PHCC reported 11 acute watery diarrhoea cases. The cases originated from eight villages with Manyirany and Kondako being the most affected. The age range was 6 months to 11 years with a median age of 1.5 years. They were all admitted with severe dehydration and treated with no deaths. River water was reported as the main water source. Three samples were collected. The mobile medical team deployed to Pibor on 16 Dec 2018 identified no additional cases.
12/10/2018	measles	82 (3)	Rumbek East		Suspect measles cases reported from Mabor Duang village, Aduel payam in Rumbek East where the initial suspect case was a 38 year female whose illness started on 12 October 2018 in week 41. The affected village is served by Mabor Duang PHCC . 82 cases including 9 confirmed cases and 3 death (CFR 3.6%) reported . Cases reported from six payams with most originating from Aduel; Atiaba, and Mathian kok. Majority of the cases, 55 (67%), were children < 5 years of age A total of 9 samples tested positive for measles IgM on 22 November 2018
24/12/2018	Dog bites	8	Bentiu	Bentiu PoC	A cluster of cases of dog bites has been reported in Bentiu PoC. Eight (8) cases have been seen at health facilities between 24 th Dec 2018 and 28 th Dec 2018. Majority (75%) of the cases are children aged 5-12 years. None of the cases are symptomatic and no deaths were reported. Most of the dogs implicated are stray dogs who attacked unproved. Four (4) of the dogs were reported as being acting suspiciously and died within 15 days of the attacks. Of all the 8 cases reported, 5 (63%) received passive immunization with immunoglobulins, 2 (25%) received rabies vaccine and 6 (75%) received tetanus toxoid



Response | Suspect outbreaks in 2019

Date of report	Disease suspected	Number cases (deaths)	County	Payam	Status of investigations
06/01/2019	Malaria alerts	counties with trends significantly higher than expected	3		Counties with malaria trends that exceed the threshold (third quartile of trends for the period 2013-2017) include: Aweil hub (Aweil East, Aweil West and Aweil North
27/10/2018	Rubella	113	Malakall PoC		A total of 113 suspected rubella cases have been reported since week 43. No deaths reported. 41 cases are laboratory confirmed
31/12/2019	HEV	155	Bentiu PoC		At least 155 suspect cases of Hepatitis E (HEV) have been reported in Bentiu PoC in 2018. Of all the cases, 18 suspect cases were confirmed using PCR. The eight (8) cases were reported between week 50-52 tested positive on RDT testing. One (1) mortality (CFR 0.65%) in 2018. Resulst are pending.
06/01/2019	Acute Watery Diarrhea	467	Malakal PoC & Malakal Town		An increase in AWD cases in Malakal PoC and Malakal Town reported from week 51, 2018. Overall, 467 AWD cases to date. In Malakal PoC, a total of 333 cases (70 in week 51, 224 in week 52 and 39 in week 01). In Malakal Town, 134 cases (49 in week 52 and 85 in week 01). Assossa, Jalaba and Malakal Payams had the most number of cases. No mortalities reported.
06/01/2019	Measles	45	Abyei		Measles has been present in the area throughout the year, with about one suspected seen per week. A total of 45 suspected cases reported between week 7, 2018 and week 02,2019. The number of cases increased from week 50, 2018. Of all the cases, 35 (76%) were reported between week 51, 2018-02, 2019. Five (5) confirmed cases between week 51-52, 2018. No deaths reported



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

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Notes

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More information can be found at http://ewars-project.org







