# South Sudan

# Integrated Disease Surveillance and Response (IDSR)

Epidemiological Update W21 2018 (Apr 21- May 27)





- Completeness for IDSR reporting at county level was 63%. Completeness for EWARS reporting from IDP sites was 87%.
- A total of 15 alerts were reported, of which 53% have been verified. 4 alerts were risk assessed & 4 required a
  response.
- A new measles outbreak has been confirmed in Rumbek Center after three measles IgM positive cases were confirmed.
- Rift Valley Fever outbreak response is underway in Yirol East with 57 suspect human cases including 6 confirmed; 3 probable; 26 non-cases; and 22 pending classification (with no definitive lab. test results). Nine confirmed animal cases (cattle) have been reported.
- Suspect rabies cases on the rise in Bentiu PoC [219 cases; 4deaths] and Agok (Abyei) [437 cases]. There is urgent need to optimize the response in Agok through community sensitizations and curling of stray dogs.
- Hepatitis E continues in Bentiu PoC where a total of 62 suspect cases (10 confirmed by PCR) have been reported. Current response entails surveillance, case follow up, WASH and discouraging communities from using stagnant water for domestic and recreational purposes.
- An Ebola alert involving a 31-year-old female Congolese refugee reported from Makpandu refugee camp on 28 May 2018. Clinical and epidemiological findings consistent with an Ebola alert. The sample tested negative by PCR for Ebola, Marburg, CCHF, RVF and Sosuga viruses.



**Table 1** | IDSR surveillance performance indicators by county (W21 2018)

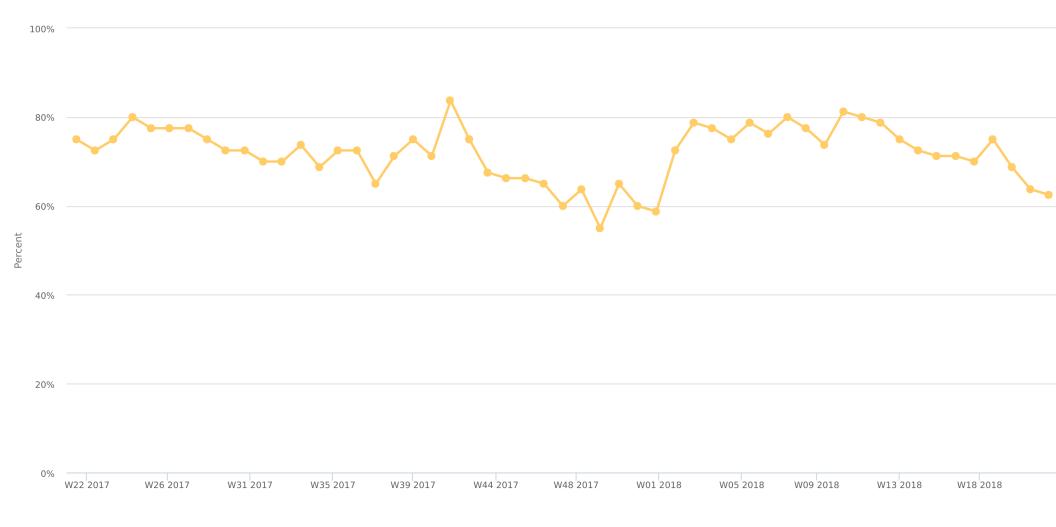
Hub	Reporting		Performance	(W21 2018)	Performance 2018)	(Cumulative
	# counties	# reports received	Completeness	Timeliness	Completeness	Timeliness
Aweil	5	5	100%	100%	79%	79%
Bentiu	9	1	11%	11%	70%	51%
Bor	11	3	27%	27%	43%	38%
Juba	6	5	83%	83%	77%	59%
Kwajok	7	7	100%	100%	95%	86%
Malakal	13	2	15%	15%	25%	11%
Rumbek	8	8	100%	100%	96%	87%
Torit	8	7	88%	88%	93%	69%
Wau	3	2	67%	67%	89%	70%
Yambio	10	10	100%	100%	95%	95%
South Sudan	80	50	63%	63%	71%	63%

- Completeness for IDSR reporting at county level was 63% in week 21 and cumulatively at 71% for 2018
- Timeliness for IDSR reporting at county level was 63% in week 20 and cumulatively at 63% for 2018



#### **Surveillance | Trend in IDSR completeness**

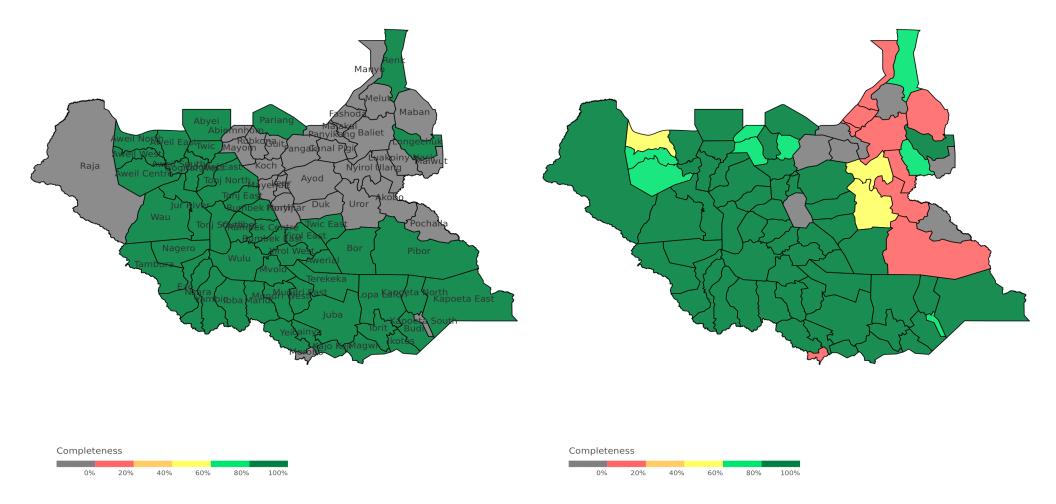
Figure 1 | Trend in IDSR completeness over time<sup>1</sup>



The graph shows completeness for weekly reporting at county level. The national average currently stands at **71%**.

Map 1a | Map of IDSR completeness by county (W21 2018)

Map 1b | Map of IDSR completeness by county (2018)



- Counties that submitted IDSR reports in W21 are shown in green in map 1a
- Counties that did not submit IDSR reports in W21 are shown in grey in map 1a

**Table 4** | EWARS surveillance performance indicators by partner (W21 2018)

Partner	Performance		Reporting (W2	Reporting (W21 2018)		Reporting (Cumulative 2018)	
	# sites	# reports received	Completeness	Timeliness	Completeness	Timeliness	
CMD	1	1	100%	100%	95%	95%	
GOAL	2	2	100%	100%	95%	82%	
HLSS	1	1	100%	100%	95%	95%	
IMA	5	5	100%	100%	69%	65%	
IMC	6	6	100%	100%	89%	88%	
IOM	10	9	90%	90%	75%	75%	
IRC	1	1	100%	100%	95%	95%	
Medair	2	2	100%	100%	95%	91%	
MSF-E	2	2	100%	100%	91%	68%	
MSF-H	2	0	0%	0%	57%	43%	
SMC	5	5	100%	100%	59%	59%	
UNIDO	1	1	100%	100%	95%	95%	
UNKEA	2	2	100%	100%	82%	77%	
World Relief	1	1	100%	100%	95%	77%	
Total	46	40	87%	87%	71%	68%	

Timeliness and completeness for EWARN/IDP reporting stands at 87% for week 21 while cumulatively, completeness and timeliness are 71% and 68% respectively for 2018



**Table 7** | Alert performance indicators by Hub

Hub	W21		Eumulative (2018)	
	# alerts	% ∀erif:	# alerts	% ∀erif:
Aweil	0	0%	22	100%
Bentiu	0	0%	40	70%
Bor	2	0%	30	53%
Juba	4	25%	48	75%
Kwajok	0	0%	28	100%
Malakal	1	100%	29	66%
Rumbek	1	100%	29	62%
Torit	4	100%	34	74%
Wau	1	0%	17	53%
Yambio	2	50%	53	66%
South Sudan	15	53%	330	72%

**Table 8** Summary of key alert indicators

W21	Eumulative (2018)			
15	330	Total alerts raised		
53%	<b>72</b> %	% verified		
0%	0%	% auto-discarded		
27%	4%	% risk assessed		
27%	2%	% requiring a response		

A total of 15 alerts were reported in week 21 with 53% of the alerts in week 21 being verified; 27% were risk assessed and 27% required a response.

EBS total

**Table 9** | Alert performance indicators by event

Event	W21		Cumulativ	e (2018)		
	# alerts	% verif.	# alerts	% verif.		
Indicator-based surveillance						
Malaria	4	25%	51	67%		
AWD	1	100%	151	71%		
Bloody Diarr.	7	43%	89	50%		
Measles	1	100%	63	79%		
Meningitis	0	0%	0	0%		
Cholera	1	100%	6	100%		
Yellow Fever	0	0%	4	75%		
Guinea Worm	0	0%	11	82%		
AFP	0	0%	45	92%		
VHF	0	0%	1	100%		
Neo. tetanus	0	0%	3	67%		
<b>Event-based</b>	surveillance					

100%

20

**Table 10** | Event risk assessment

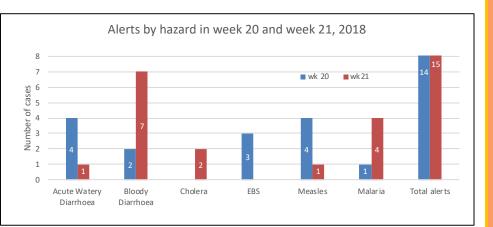
W21	Cumulative (2018)				
2	7 Low risk				
2	2	Medium risk			
0	2	High risk			
1	1	Very high risk			

During the week, bloody diarrhoea and malaria were the most frequent infectious hazards reported

80%

#### Alert by disease and county in W21 2018

County	Acute Watery Diarrhoea	Bloody Diarrhoea	Cholera	Measles	Malaria	Total Alerts
Duk		1			1	2
Ibba					1	1
Juba				1		1
Kajo Keji		2			1	3
Kapoeta North		1				1
Lopa Lafon			2			2
Magwi		1				1
Malakal					1	1
Mundri West	1					1
Rumbek North		1		·		1
Wau		1				1
Total Alerts	1	7	2	1	4	15



- During week 21, a total of 15 alerts reported
- Teams dispatched for dysentery investigation in 10 hubs

### **Acute watery diarrhoea and fever**

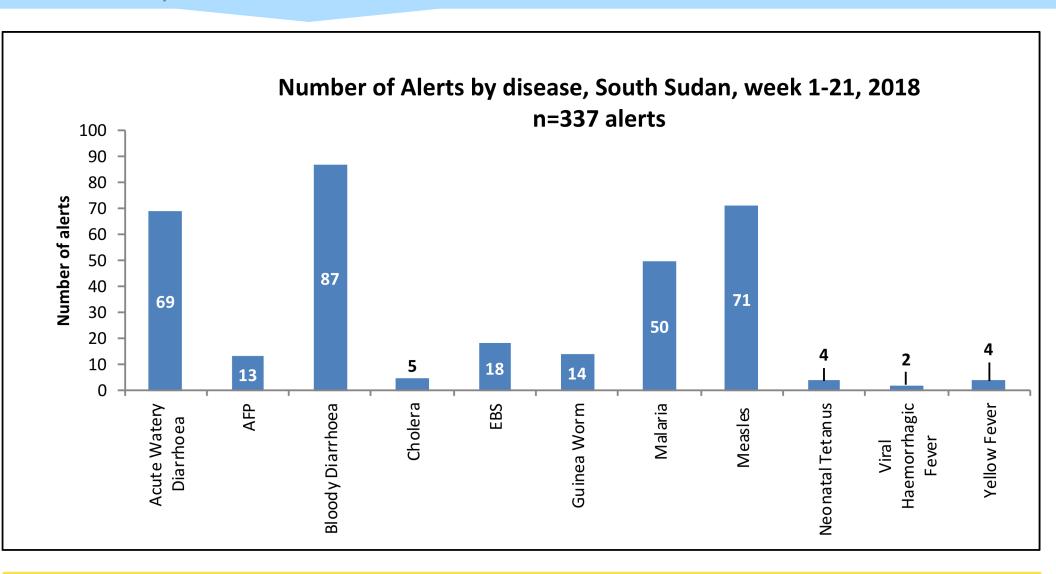
 7 AWD deaths reported in Jebel Boma, Boma state verification report awaited from IMA

### **Suspect measles**

- Eight suspect measles cases reported from Rumbek
   Centre MMT to be dispatched for the investigation.
   Measles outbreak confirmed after three samples tested measles IgM.
- Three suspect measles cases reported from Mayom (Tam & Wangbur payams) samples sent to Juba by MSF-CH. One sample tested negative for measles IgM.
- One suspect measles case reported from Nyong payam in Torit. Specimen collected.

# Suspect cholera cases - Lopa county

 Three suspect cholera cases reported from Imehejek, Lopa from 22May18; the index ate cold food at a local market; direct RDT positive for cholera; all three samples tested negative for cholera after culturing in NPHL.



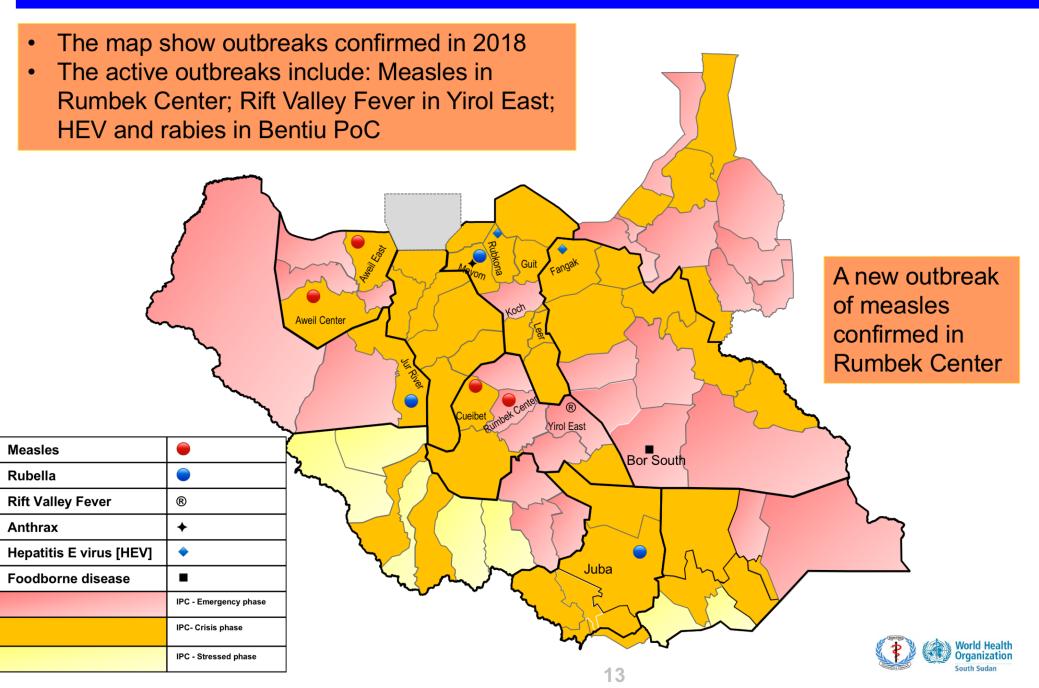
The Figure shows the cumulative number of alerts triggered in 2018 by hazard and location.



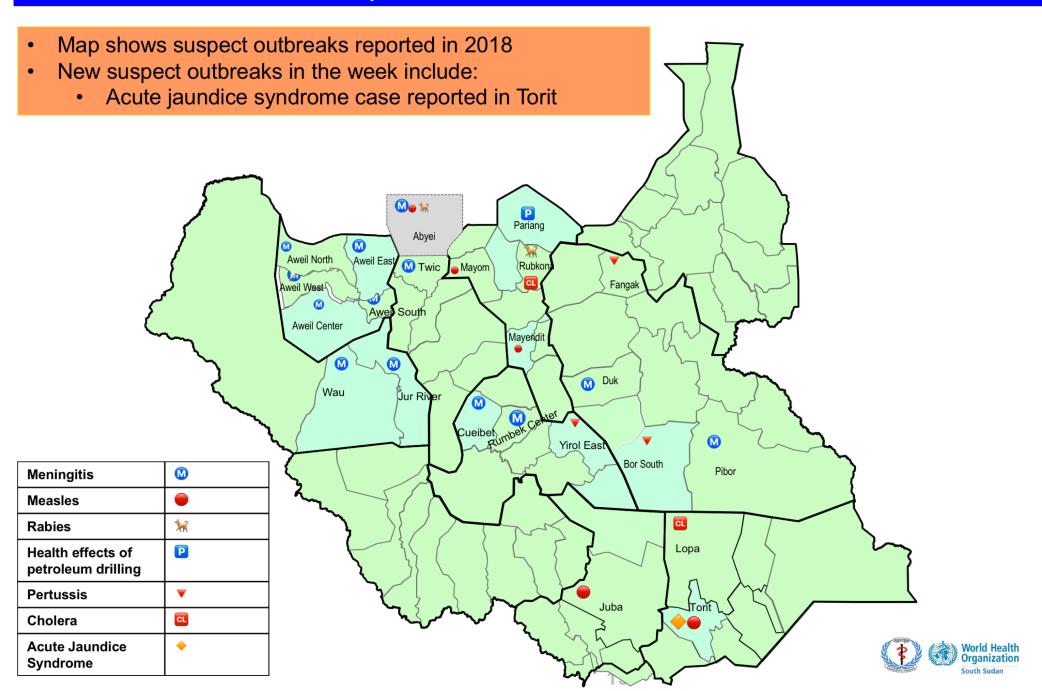
				Total
County	ОUTCOME	RISK_ASSESS	VERIFICATION	Alerts
Acute Watery Diarrhoea	1		68	69
AFP		1	12	13
Bloody Diarrhoea	1		86	87
Cholera	1		1	2
EBS		2	16	18
Guinea Worm	2		12	14
Neonatal Tetanus	2		2	4
Viral Haemorrhagic Fever			2	2
Yellow Fever			4	4
Measles	5	6	60	71
Cholera			3	3
Malaria	1		49	50
Total Alerts	13	9	315	337

- The Figures show the cumulative alerts by risk assessment state in 2018
- Of the 321 alerts reported in 2018; a total of 304 alerts are at verification stage; and the rest are at risk assessment stage (9 alerts); 8 at outcome stage.

### Confirmed Outbreaks South Sudan – 3 June 2018



### **Suspect Outbreaks South Sudan – 3 June 2018**

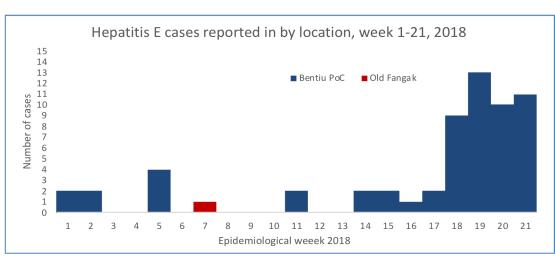


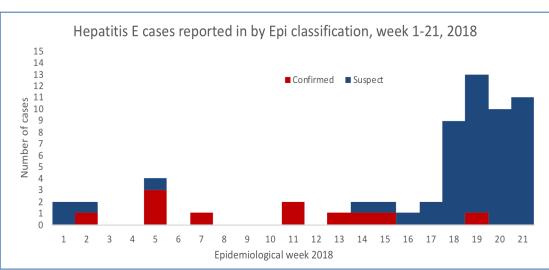
		Date first	New cases since	Cumulative		Interventions		
Aetiologic agent	Location (county)	reported	last bulletin	cases to date (attack rate %)	Case management	Vaccination	Health promotion	WASH
New epidemics								
Measles	Rumbek Center	13/05/2018	2	6 (0.0026)	Yes	No	Yes	N/A
Ongoing epidemics								
RVF	Yirol East	28/12/2017	0	57 (0.053)	Yes	N/A	Yes	N/A
Hepatitis E	Bentiu PoC	03/01/2018	11	62 (0.053)	Yes	No	Yes	Yes
Rabies probable	Bentiu PoC	06/12/2017	8	219 (0.19)	Yes	Yes	Yes	N/A
Controlled epidemic	S							
Hepatitis E	Old Fangak	15/02/2018	0	01 (0.001)	Yes	No	Yes	Yes
Rubella	Jur River	14/02/2018	0	76 (0.039)	Yes	No	Yes	N/A
Rubella	Juba	26/02/2018	0	22 (0.0037)	Yes	No	Yes	N/A
Rubella	Mayom	22/02/2018	0	08 (0.004)	Yes	No	Yes	N/A
Measles	Aweil Center	6/Jan/2018	0	22 (0.021)	Yes	Yes	Yes	N/A
Measles	Cueibet	14/10/2017	0	20 (0.012)	Yes	Yes	Yes	N/A
Measles	Aweil East	05/02/2018	0	31 (0.006)	Yes	Yes	Yes	N/A
Foodborne	Bor South	18/02/2018	0	434 (29)	Yes	Yes	Yes	Yes
Cut. Anthrax	Mayom	27/01/2018	0	2 (0.001)	Yes	No	Yes	N/A
Meningitis	Torit	17/01/2018	0	173 (0.107)	Yes	No	Yes	N/A

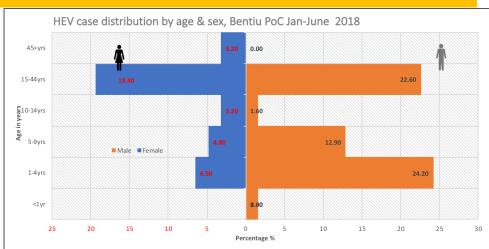
- There is one new confirmed outbreak of measles in Rumbek Center
- The other ongoing and controlled outbreaks in 2018 are shown in the table

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# **Hepatitis E, Bentiu PoC and Old Fangak**

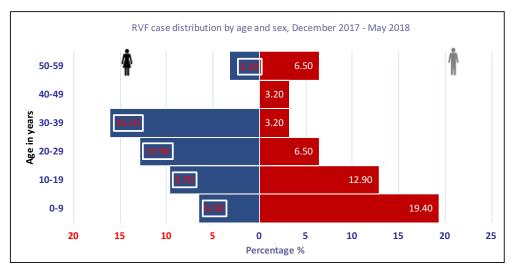


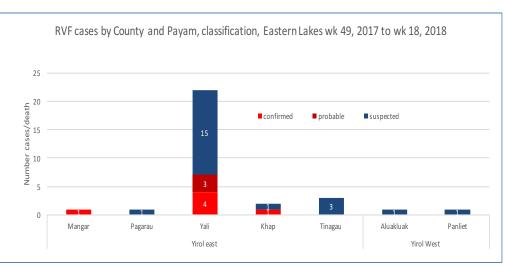


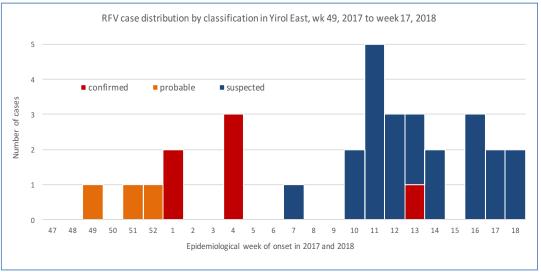


- At least 62 suspect case of Hepatitis E (HEV) have been reported in 2018. Of the 62 suspect cases, a total of 11 cases have been PCR confirmed as HEV (10 in Bentiu PoC & 1 in Old Fangak). No new cases identified after active follow up in Fangak.
- At least 50% of the cases are 1-9 years of age; and 63% being male. Among the females, most cases have been reported in those aged 15-44 yrs (who are at risk of adverse outcomes if infected in the 3<sup>rd</sup> trimester of pregnancy).
- Use of stagnant water for domestic or recreation purposes likely to be source of infection - communities are being educated on the risk and draining the water is being discussed
- Unicef has shared key HEV messages for radio programs on [Kondial FM & Bentiu FM] and community sensitizations.
- Case identification and follow up is ongoing and WASH risk assessment has been planned.

# Ongoing epidemics - Epidemic description - RVF Eastern Lakes state







Sno.	Description	Number
1	Suspect cases	57
2	Total deaths	4
3	Confirmed cases	6
4	Probable cases	3
5	Cases pending testing	22
6	Non-cases	26
7	Cases on admission	0
8	Total human samples collected	39
9	Total animal samples collected	28
10	Positive animal cases	9

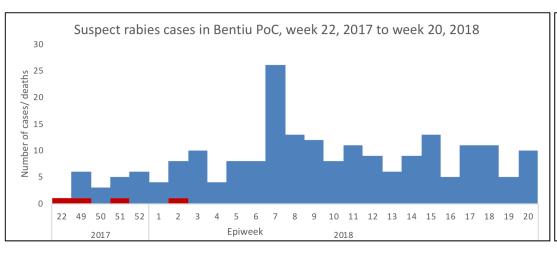
Organization

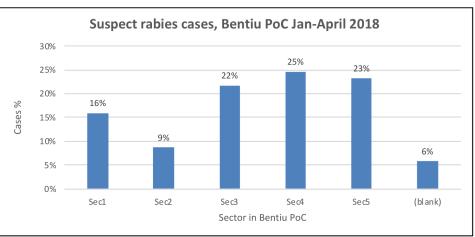
South Sudan

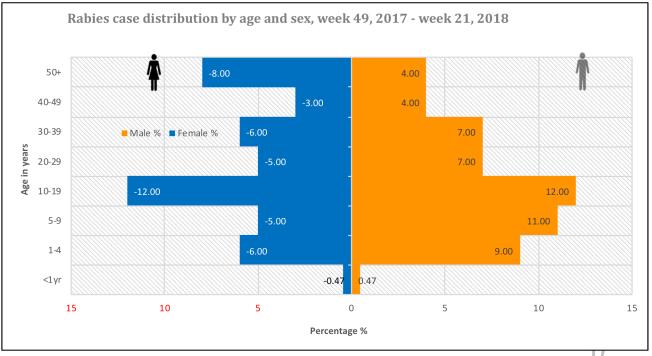
- In the period 7 December 2017 to 3 June 2018, a total of 57 suspect RVF cases were reported in Eastern Lakes.
- These were reclassified based on investigations and laboratory results, such that as of 3<sup>rd</sup> June 2018, there were a total of six (6) RVF confirmed cases, three (3) probable, and 22 suspect RVF cases (no laboratory results).

  World Health
- Twenty six (26) cases were discarded as non-cases following negative laboratory results for RVF and other common causes of viral haemorrhadic fever
- A total of nine animal samples have been confirmed serologically (3lgM and 6lgG).
- Current response entails surveillance, laboratory testing, supportive care for suspect cases, and community sensitization on hygienic animal handling

# Animal bites - suspect rabies, Bentiu PoC

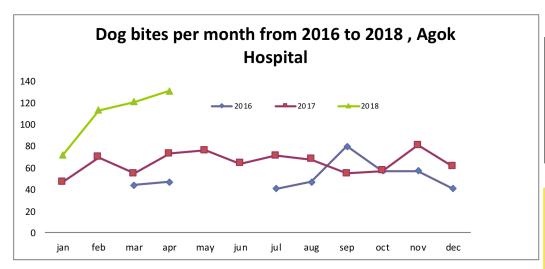


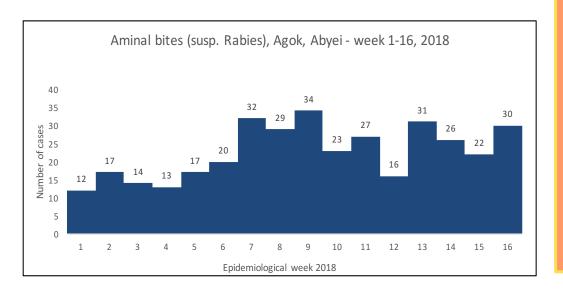




- During week 21, a total of eight animal bite cases were reported in Bentiu PoC
- A cumulative of 219 animal bite cases including 4 deaths have been reported since 6 Dec 2017.
- Sectors 3,4, &5 have reported most cases and children <19yrs constitute more than 56% of the cases with males affected more than females
- Post exposure vaccination ongoing with support from MSF-H and partners.
- WHO/ health cluster have secured antirabies vaccine to support the response.
- Community messaging underway via CCCM/ internews/ UNMISS broadcast
- VSF arrived in the PoC to support curling of stray dogs

### Animal bites - suspect rabies, Agok, Abyei Administrative Area





Sex/Age	<5yrs	5+yrs	Total
Male	16	178	194 (53.4%)
Female	5	164	169 (46.6%)
Totals	21 (5.8%)	342 (94.2%	363

- An increase in dog bite (suspect rabies) cases continues to be reported from Agok hospital in Abyei.
- An exponential increase in suspect rabies cases has been reported in 2018 when compared to the previous years with a total of 437 cases reported in 2018 (week 1-21);
- Current response entails surveillance case detection and line listing and post exposure prophylaxis with rabies vaccine.
- There is an urgent need to initiate a comprehensive response that includes social mobilization and health education and curling of stray dogs to reduce exposure to rabid dogs
- FAO is in the final stages of engaging local authorities and partners to address the issues of dog bites from stray dogs.



#### Suspect cholera samples tested by the National Public Health Laboratory - NPHL - 2018

County	Positive	Negative	Total tested
Juba	0	5	5
Leer	0	3	3
Twic East	0	12	12
Bor	0	5	5
Duk	0	2	2
Lopa	0	3	3
Bentiu PoC	0	3	3
Pibor	0	2	2
Pariang	0	0	0
missing	0	0	0
Total	0	35	35

- Since the beginning of 2018; at least 35 suspect cholera samples have undergone culturing at the National Public Health Laboratory
- None of the samples have been confirmed for cholera
- The most recent samples tested were from Lopa county - all three samples were negative for cholera by culture.
- Cholera investigation kits have been prepositioned in all the 10 state hubs to facilitate investigation of suspect cholera cases
- Partners and surveillance officers are encouraged to promptly investigate and submit samples for culture from suspect cholera cases

#### Cholera preparedness and preventive activities - Oral cholera vaccine campaigns - 2018

Site	Total populati on	Target population		2nd round doses	Total doses	1st Round dates	2nd Round dates	Partners
Aburoc	11,640	11,291		11,550	11,550	20-22May2017	Jan 17- 20 2018	MoH, WHO, Unicef, MSF-E
Malakal Town	20,000	19,200		22,200	22,200	18-24Mar2017	Jan 5 - 9 2018	MoH, WHO, Unicef, MSF-E
Juba	214,887			206,292	206,292	9Sep - 24Nov 2017	Apr 24-28 2018	MoH, WHO, Unicef, MSF-F & Spain
Malakal PoC	24,424	23,691	34,291	34,291	68,582	19-23March 2018	Apr 17-21 2018	MoH, WHO, Unicef, IOM
Wau IDPs	40,499	39,284	56,860	56,860	113,720	19-23March 2018	Apr 17-21 2018	MoH, WHO, Unicef, IOM
Torit	180,169	174,764	174,764	174,764	349,528	30Jun-7Jul 2018	28Jul- 6Aug 2018	MoH, WHO, Unicef, SCI, CARE
Yirol East & West	143,722	139,410	139,410	139,410	278,821	TBD	TBD	MoH, WHO, Unicef, LiveWell
Lankien	65,000	63,050	63,050	63,050	126,100	TBD	TBD	MoH, WHO, Unicef, MSF-H
Panyijiar	76,000	73,720	75,000	75,000	150,000	16-22May2018	TBD	MoH, WHO, Unicef, IRC
Totals	776,341	753,051	543,375	783,417	1,326,793			

- Cholera prevention and response activities are already underway to mitigate the risk of cholera outbreaks in cholera transmission hotspots
- These efforts are critical now at the rain season is starting for the states in the Southern parts of the country.
- The use of oral cholera vaccines alongside WASH and other interventions is critical to these efforts
- Preventive vaccine campaigns (with oral cholera vaccines) for the first half of 2018 are listed in the table
- A additional 113,800 doses of oral cholera vaccines requested from GTFCC arrived in the country on 18/04/2018.
- GTFCC secured support from GAVI for a consultant that is in the country to finalize the cholera prevention and response plan for South Sudan

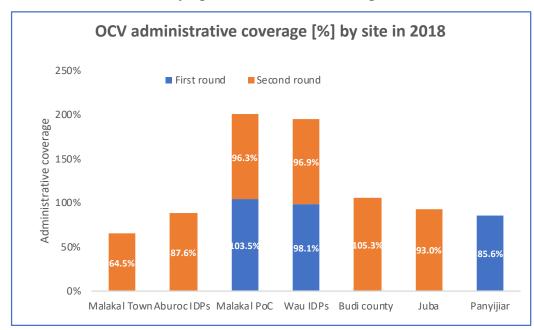
#### Oral cholera vaccine campaigns completed in 2018 include:

- Malakal Town (2<sup>nd</sup> round)
- Aburoc IDPs (2<sup>nd</sup> round)
- Malakal PoC (1st & 2nd round)
- Wau PoC+IDPs (1st & 2nd round)
- Juba Town (1st & 2nd round)
- Panyijiar (1st round)

#### Upcoming campaigns for 2018

- Panyijiar (2<sup>nd</sup> round)
- Torit (1st round)
- Yirol East and parts of Yirol West (1st round)
- Lankien, Akobo, Pieri & Karam (1<sup>st</sup> round)

#### Oral cholera vaccine campaigns administrative coverage - 2018



	2018 OCV campaig	ns	First ı	round	Second round	
	Site	Target	Coverage	Coverage	Coverage	Coverage %
1	Malakal Town	19,200			12,393	64.5%
2	Aburoc IDPs	9,683			8,484	87.6%
3	Malakal PoC	23,447	24,277	103.5%	22,588	96.3%
4	Wau IDPs	37,048	36337	98.1%	35887	96.9%
5	Budi county	89,377			94,128	105.3%
6	Juba	216,852			201,737	93.0%
7	Panyijiar	75,000	64,214	85.6%		
	Total	470,607	124,828	92.1%	375,217	94.8%

# The following OCV campaigns have been completed in 2018:

- 1. Malakal Town (2<sup>nd</sup> round)
- 2. Aburoc IDPs (2<sup>nd</sup> round)
- 3. Budi county (2<sup>nd</sup> round)
- 4. Malakal PoC (1st & 2nd round)
- 5. Wau PoC+IDPs (1st & 2nd round)
- 6. Juba (2<sup>nd</sup> round)
- 7. Panyijiar (1st round)

#### • OCV 2<sup>nd</sup> round in Juba

- Ran from 25 Apr to 22 May 2018
- Target 216,852 one year and above
- Total vaccinated 201,737 (93%); out of which:
  - 106,868 (53%) received their 2<sup>nd</sup> OCV dose in the 2<sup>nd</sup> round
- Reasons for low 2<sup>nd</sup> dose: long delay of 8months btn 1<sup>st</sup> & 2<sup>nd</sup> rounds; dynamic Juba population; people feared they would not be vaccinated if they indicated they had received the first dose; inconsistent recording of verbally reported first dose by vaccinators

#### OCV 1<sup>st</sup> round in Panyijiar

- Ran from 16<sup>th</sup> to 20<sup>th</sup> May 2018
- Out of the 75,000 targeted; a total of 64,214 (85.6%) were vaccinated

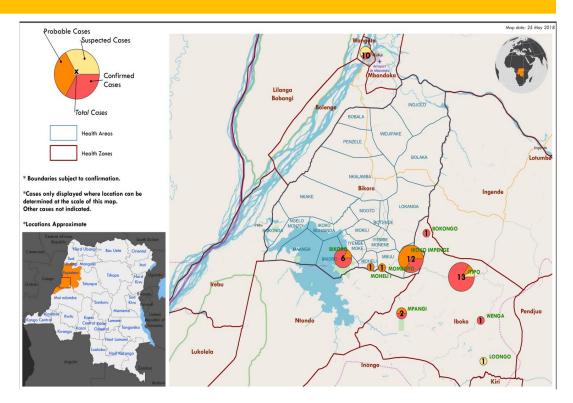
# Ebola DR Congo update & risk to South Sudan Situation as of 1 June 2018

Confirmed cases: 37
Probable cases: 13

Suspect cases: 0

**Total cases:** 50 (25 deaths CFR 50%)

- The MoH DR Congo declared an outbreak of Ebola virus disease on 8 May 2018 Equateur province in Northwestern DR Congo
- The epidemic is active in three health zones Bikoro (21 cases & 17 deaths); Iboko (25 cases & 5 deaths); & Wangata (4 cases and 3 deaths).
- [5 HCW affected 4 confirmed & 2 deaths].
- At least 724 contacts identified & being followed up.
- 7,560 doses of recombinant vesicular stomatitis virus—Zaire Ebola virus (rVSV-ZEBOV) vaccines were delivered to Kinshasa by WHO - The initial vaccination is targeting immediate contacts to confirmed cases, contacts of contacts and frontline health workers. As of 24 May 2018, a total of 682 people have been vaccinated in the three affected health zones
- Regional risk is high after cases were confirmed in Mbandaka - major commercial hub - with road, river, & air transport poses a risk to neighbouring countries.



#### **EVD Preparedness activities in South Sudan**

- Screening of international travelers commenced at JIA
- RRT training undertaken on 26 May 2018 in Juba
- RRT deployed to investigate suspect Ebola case in Makpandu
- Updated EVD contingency planning completed along with EVD checklist
- Designation an EVD isolation facility space identified
- Updating EVD SoPs
- Implementation of other preparedness interventions underway

# <u>Suspect Ebola - Makpandu refugee camp - 28/05/2018</u>

# Highlights

- Suspect case is a 31-year-old a registered Congolese refugee in Makpandu refugee camp Patient illness started on 21 May 2018 with abdominal pain, followed by diarrhoea that became bloody, associated with painful urine, haematuria, and vomiting with blood stains. No fever was reported (axillary temp. 36.6 deg. Cent.)
- History of travel (on 14/05/2018) to Tongo Tongo village in Bayote county in Dungu district of DR Congo, 50km from Nabia Apai borderpost of Gbudue state
- No history exposure to symptomatic case (alive/dead), game meat in last 3 weeks
- No additional symptomatic cases identified in the household
- Patient treated in Makpandu PHCC on Ciprofloxacin, ACTs & other medicines
- Currently the patient is stable with remission of all the presenting symptoms
- The patient sample tested negative by PCR for Ebola, Marburg, CCHF, RVF and Sosuga viruses.

# Conclusion

- These findings rule out Ebola virus disease as the possible cause of the patient illness.
- Most likely diagnosis was acute bacillary dysentery

Response   Suspect outbreaks being investigated							
Date of report	Disease suspected	Number cases (deaths)	County	Payam	Status of investigations		
13Mar18	meningitis	16 (00)	Duk	Ayueldit	On 12 Mar 2018; a 3 year old male from Buongjok area, Ayueldit payam was admitted to Padiet PHCC. The health partner SMC requested for guidance on managing the case and the WHO Bor team shared the meningitis case management guidelines. Surveillance has been stepped up but no additional cases have been identified.		
17Feb18	meningitis	173 (31)	Torit	lyire and Imurok	After rumors of strange illness in lyire, several RRT verification and response missions have been undertaken since 20Feb18. Torit county surpassed in the alert and epidemic thresholds in week 7 and week 9 respectively. Conclusive laboratory confirmation underway. Overall coordination, case surveillance, line listing, and investigation are ongoing. Transmission declined after week 9 with the weekly attack rate falling below the alert and epidemic threshold in weeks 11-18, 2018.		
10Mar18	meningitis	3 (0)	Cueibet		Since 10 Mar 2018, at least three suspect meningitis cases have been reported by CUAMM in Cueibet hospital. However, no samples were collected.		
02Feb2018	meningitis	52 (06)	Aweil South (14cases) Aweil East (18 cases) Aweil West (11 cases) Aweil North (4 cases)	Aweil hub	Since 2Feb2018, at least 52 suspect cases (6 deaths) have been reported in Aweil hub. Six samples positive for <i>Streptococcus pneumoniae</i> following rapid pastorex testing or showed gram positive diplococci on gram stain. None of the affected counties exceeded the alert threshold for meningitis.		
06Jan18	meningitis	03 (00)	Abyei and Twic	Rumkor and Pan- nyok	The two suspect cases were treated in Agok hospital on 4 Jan and 29 Jan respectively with initial diagnoses of severe malaria but final diagnosis was bacterial meningitis. Rapid pastorex testing sample for the 2 <sup>nd</sup> & 3 <sup>rd</sup> suspect case from Twic and Abyei counties respectively were positive for <i>Streptococcus pneumoniae</i> .		
14Feb18	meningitis	21(03)	Wau (Jur River)	Udici, Roc Roc Dong	Since 14 Feb; 20 suspect meningitis cases have been reported from Wau (11 cases - 2deaths) and Jur River (9 cases - 1 death) counties. A suspect case involving a 45 year old male from Jur River was admitted in Comboni hospital on 28 Feb 18. PCR testing was positive for <i>Streptococcus pneumoniae</i> . Another suspect case tested positive for NmA by rapid pastorex at NPHL on 27/4/18.		

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Date of report	Disease suspected	Number cases (deaths)	County	Payam	Status of investigations
16Mar2018	Measles	08(01)	Mayom	Riak & Lol Maroal	Suspect measles cased reported from Riak payam in Nyebola village since 9 Mar 2018. Four samples were obtained by MSF-CH for testing. Three of the four samples tested were positive for rubella IgM.
16Feb18	Health effects of petroleum drilling	Unspecified	Pariang	Pariang	A newswire indicates the Mayor of Pariang in Ruweng State has appealed to the Ministry of Health to establish some health conditions affecting people in the oil producing area. bit.ly/2EIndTP #SouthSudan. Initial verification details to follow
31Mar2018	Suspect meningitis /malaria	12(08)	Gogrial West	Kuach South	On 28 <sup>th</sup> Mar 2018; the Director Gogrial West reported community deaths in Kuach South that were verified by the RRT on 29 Mar 2018. The clinical and lab tests on suspect cases were consistent with malaria and the cases responded to treatment with ACTs. All the deaths were 10 years and above and 50% of the deaths were 20 years and above. Given the dramatic nature of symptoms, the other differential diagnosis to keep an eye on is epidemic meningitis. No new cases reported in weeks 14 and 15.
12/Apr/18	pertussis	18(00)	Fangak	Bei	Suspect pertussis cases have been reported by Mandeang PHCU and Kuephone PHCU in Fangak county. At least 11 suspect cases have been reported from Bei payam and another 7 suspect cases from Jiath. The response instituted by the partner CMA - entails treatment of cases and prophylaxis to close contacts and enhancing routine immunization for the infants.
22/05/18	cholera	2	Lopa	Imehejek	Two suspect cholera cases reported from Imehejek, Lopa from 22May18; the index ate cold food at a local market; direct RDT positive for cholera; all two samples negative for cholera after culturing in NPHL.
21/05/2018	measles	8	Rumbek Center	Teyau	Eight suspect measles cases reported from Teyau, Rumbek Centre - MMT to be dispatched for the investigation. Specimens collected for testing.
23/05/18	measles	2	Mayom	Tam & Wangbur	Two suspect measles cases reported from Mayom (Tam & Wangbur payams) samples sent to Juba by MSF-CH
16/05/18	measles	1	Torit	Nyong	One suspect measles case reported from Nyong payam in Torit. Specimen collected

Date of report	Disease suspected	Number cases (deaths)	County	Payam	Status of investigations
30May2018	Acute jaundice	01(00)	Torit	Torit town	On 30 May 2018, a 2year and eight month child was admitted to Torit Hospital with fever, yellow eyes, and vomiting, Specimen obtained for testing and sent to Juba.

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

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