South Sudan

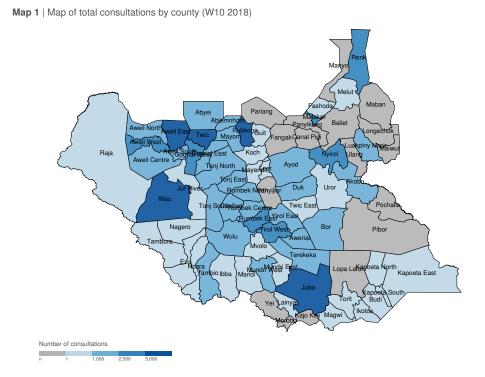
Integrated Disease Surveillance and Response (IDSR)

Annexes W10 2018 (Mar 05 – March 11)



Access and Utilisation			Acute Watery Diarrhoea (AWD)				
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Access and Utilization | Map of consultations by county



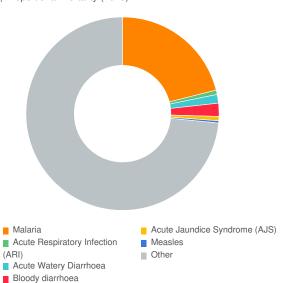
Hub	W10	2018		
Aweil	13,154	161,081		
Bentiu	14,435	161,164		
Bor	11,279	114,607		
Juba	9,333	85,399		
Kwajok	20,402	221,609		
Malakal	10,901	102,966		
Rumbek	18,929	152,301		
Torit	4,795	49,963		
Wau	8,704	73,331		
Yambio	9,142	105,300		
South Sudan	121,074	1,227,721		

The total consultation in the country since week 1 of 2018 is 1,227,721, by hub, Bentiu registered the highest number of consultations as indicated in the table above. The total number of consultations by county is indicated in the map above. See the key for more information.



Proportional mortality

Figure 1 | Proportional mortality (2018)

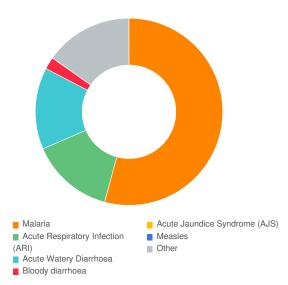


Syndrome	W10		2018	
	# deaths	% mortality	# deaths	% mortality
Malaria	5	22.7%	58	21.1%
ARI	0	0.0%	2	0.7%
AWD	0	0.0%	4	1.5%
Bloody diarrhoea	0	0.0%	6	2.2%
AJS	0	0.0%	2	0.7%
Measles	0	0.0%	1	0.4%
Other	17	77.3%	202	73.5%
Total deaths	22	100%	275	100%

Figure 1, above shows the proportional mortality for 2018, with malaria being the main cause of mortality accounting for 21.1% of the deaths since week 1 of 2018, followed by bloody diarrhoea, and acute watery diarrhoea.

Proportional morbidity

Figure 2 | Proportional morbidity (2018)



Syndrome	W10		2018				
	# cases	% morbidity	# cases	% morbidity			
Malaria	31,941	46.6%	372,309	54.2%			
ARI	10,779	15.7%	98,456	14.3%			
AWD	10,918	15.9%	96,839	14.1%			
Bloody diarrhoea	1,555	2.3%	14,534	2.1%			
AJS	0	0.0%	62	0.0%			
Measles	18	0.0%	101	0.0%			
Other	13,334	19.5%	104,528	15.2%			
Total cases	68,545	100%	686,829	100%			

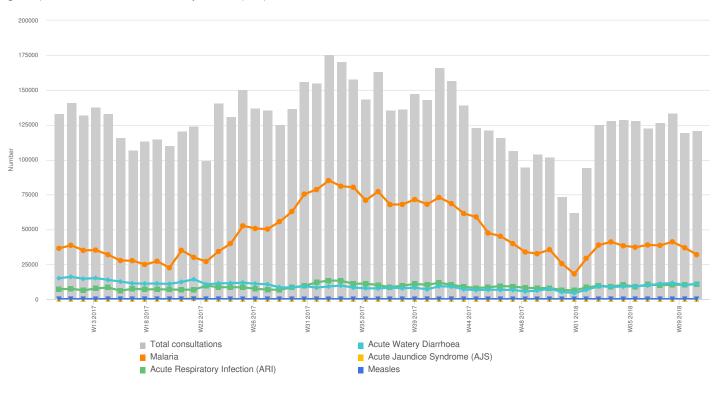
Figure 2, indicates the top causes of morbidity in the country, with malaria being the leading cause of morbidity 372,309 (54.2%) followed by ARI, AWD and ABD respectively since week 1 of 2018. refer to the figure above for more information.



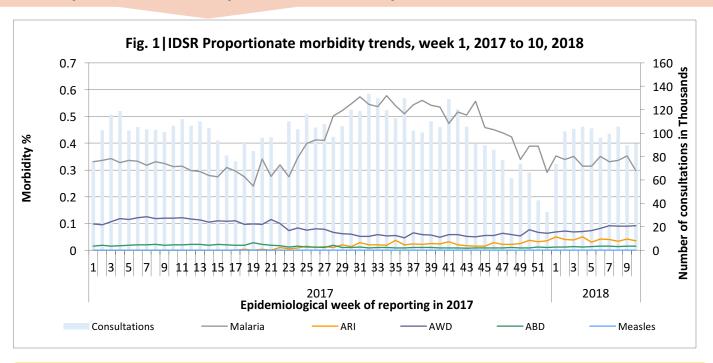


Trend in consultations and key diseases

Figure 3 | Trend in total consultations and key diseases (W10)

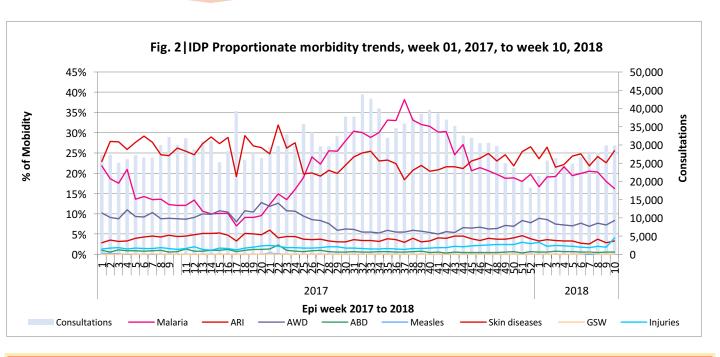


IDSR Proportionate morbidity trends - in relatively stable states



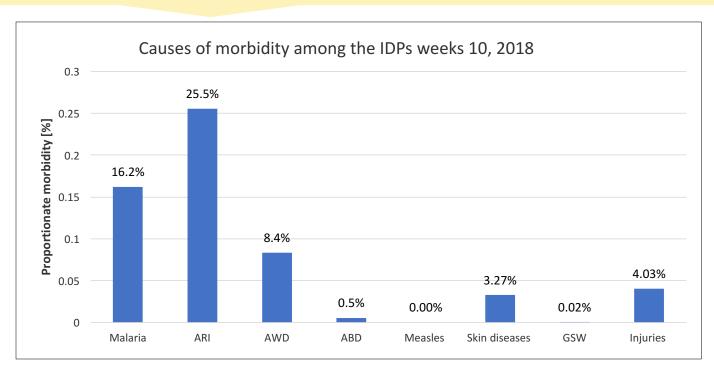
In the relatively stable states, malaria is the top cause of morbidity accounting for 29.7% of the consultations in week 10 (representing an decline from 35.2% in week 9).





Among the IDPs, ARI and malaria accounted for 25.5% and 16.2% of consultations in week 10. The other significant causes of morbidity in the IDPs include AWD, skin diseases, and injuries.

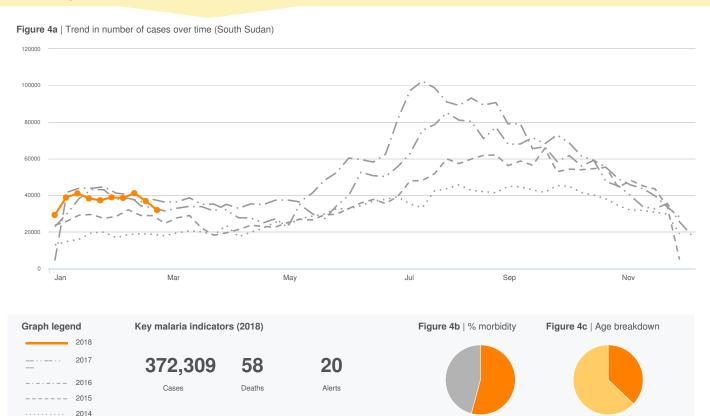
IDP Proportionate morbidity trends - in displaced populations



The top causes of morbidity in the IDPs in 2018 include ARI, malaria, AWD, skin diseases, injuries, and ABD.

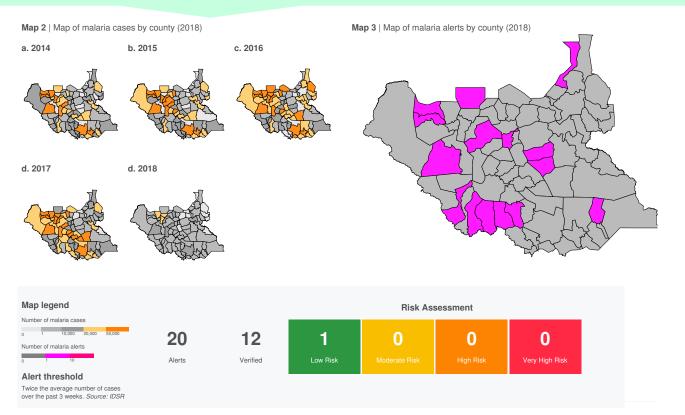


Malaria | Trends over time



Malaria is the top course of Morbidity in the country, a total of 372,309 cases with 58 deaths registered since week 1 of 2018. malaria trend for 2018 is blow 2016 and 2017 as shown in the figure 4a, above.

Malaria | Maps and Alert Management

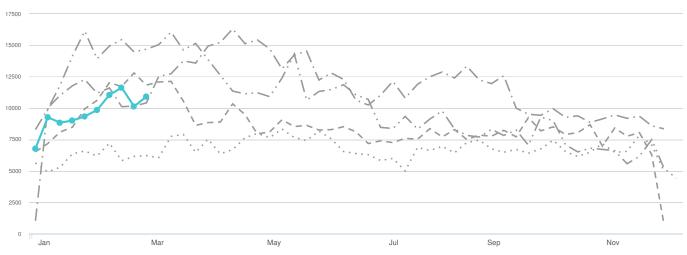


Since the beginning of the year, a total of 20 malaria alerts have been triggered, 12 of those were verified. The Maps above indicate the location reporting malaria alerts from 2014, 2015, 2016, 2017, and 2018.



Acute Watery Diarrhoea | Trends over time

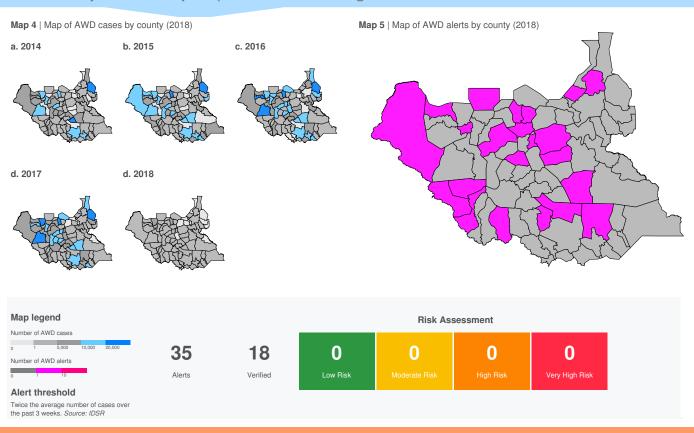
Figure 5a | Trend in AWD cases over time (South Sudan)





AWD is one of the top causes of morbidity in the country with 96,839 cases reported since week 1 of 2018 including 4 deaths. AWD trend for 2018 is below 2016 and 2017 as shown in figure 5a, above.

Acute Watery Diarrhoea | Maps and Alert Management



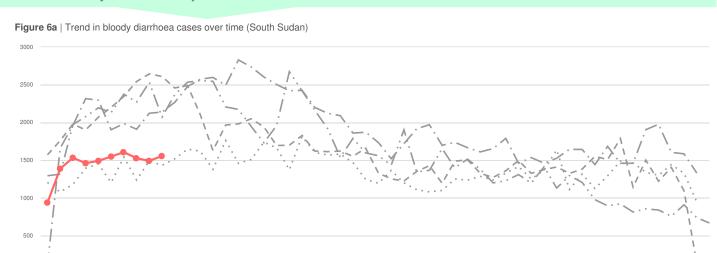
The number of AWD alerts triggered since week 1 of 2018 is 35, out of which 18 were verified. Maps above highlight the areas reporting AWD alerts from 2014 to 2018 .





Acute Bloody Diarrhoea | Trends over time

Mar

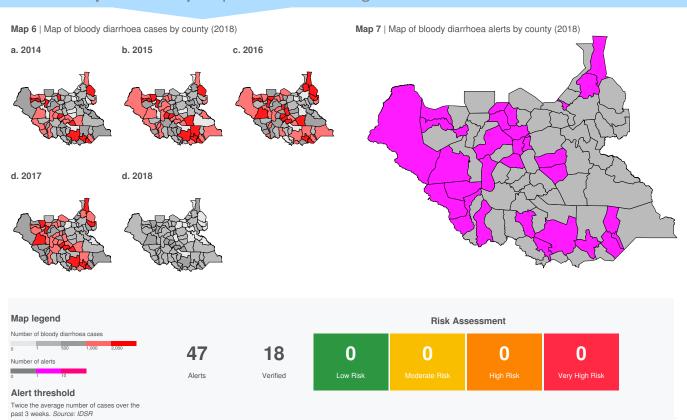




Мау

Since week 1 of 2018, a total of 14,534 cases of ABD have been reported country wide including 6 death. ABD trend for 2018 is below 2015, 2016, and 2017 respectively. Refer to figure 6a, above.

Acute Bloody Diarrhoea | Maps and Alert Management



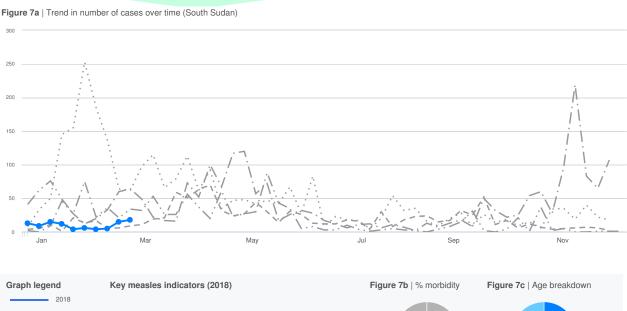
Total of 47 alerts were generated since week 1 of 2018, of which 18 were verified by the county surveillance team. Maps indicating areas triggering alerts since 2014 to 2018 are shown above.

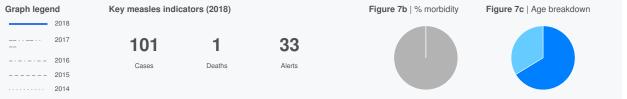


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Measles | Trends over time



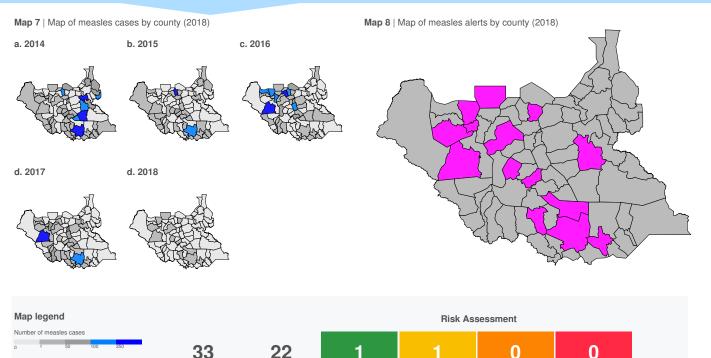


Since the beginning of 2018, at least 101 suspect measles cases including 1 death (CFR 1.58%) have been reported. Of these, 84 suspect cases have undergone measles case-based laboratory-backed investigation with 68 samples collected out of which 14 measles IgM positive cases; 14 clinically confirmed cases; and 3 cases confirmed by epidemiological linkage.

Measles | Maps and Alert Management

Alerts

Alert threshold 1 case. Source: IDSR

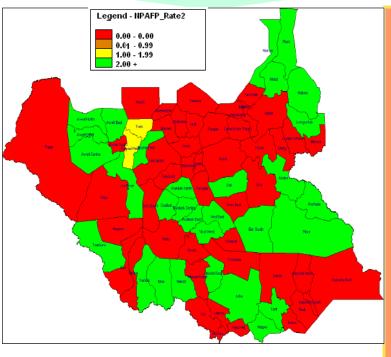


Since week 1 of 2018, 33 alerts of measles were triggered and 22 of those have been verified at county level. Maps of areas raising alerts from 2014 to 2018 are shown above.

Verified



Acute Flaccid Paralysis | Suspected Polio



In week 9, 2018, Thirteen (13) new AFP cases were reported from Jonglei, Lakes, Northern Bahr el Ghazal, Upper Nile, Western Bahr el Ghazal, and Western Equatoria hubs. This brings the cumulative total for 2018 to 51 AFP cases.

The annualized non-Polio AFP (NPAFP) rate (cases per 100,000 population children 0-14 years) in 2018 is 3.58 per 100,000 population of children 0-14 years (target ≥2 per 100,000 children 0-14 years).

Stool adequacy was 96% in 2018, a rate that is higher than the target of ≥80%.

Environmental surveillance ongoing since May 2017; with 23 samples testing positive for non-polio enterovirus (NPEV) in 2017 and one NPEV positive sample in 2018.

Mortality in the IDPs

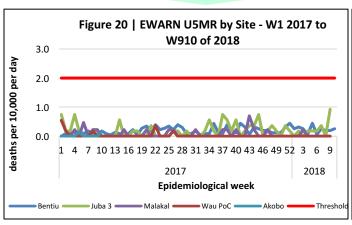
Source: South Sudan Weekly AFP Bulletin

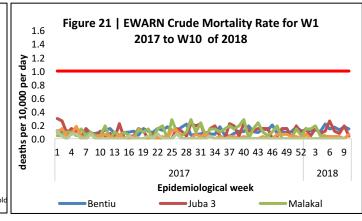
Table 6 | Proportional mortality by cause of death in IDPs W10 2018

	Ak	obo	Bentiu		Juba 3	Total	Proportionate	
Cause of Death by IDP site	<5yrs	≥5yrs	<5yrs	≥5yrs	≥5yrs	deaths	mortality [%]	
Chronic diarrhoea			1			1	7	
Heart Failure					1	1	7	
Perinatal death			2			2	14	
Pneumonia	1					1	7	
Sepsis			1			1	7	
multiple organ failure				1		1	7	
TB/HIV				1		1	7	
Acute watery diarrhoea				1		1	7	
Malignancy + Intestinal				1		1	7	
Hep B + Severe Respiratory							7	
Distress				1		1		
Severe Hypoglycaemia				1		1	7	
Sepsis + Acute Renal Failure +							7	
Suspected Meningitis				1		1	,	
Sepsis due to scrotal infection		1				1	7	
Total deaths	1	1	4	7	1	14	100	

Among the IDPs, mortality data was received from Bentiu PoC & UN House PoC in week 10. (Table 6). **A total of 14** deaths were reported during the week. Bentiu PoC reported 11 (79%) deaths in the week. During the week, 5 (36%) deaths were recorded among children <5 years in (Table 6).

The causes of death during week 10 are shown in Table 6.





The U5MR in all the IDP sites that submitted mortality data in week 10 of 2018 is below the emergency threshold of 2 deaths per 10,000 per day (Fig. 20).

The Crude Mortality Rates [CMR] in all the IDP sites that submitted mortality data in week 10 of 2018 were below the emergency threshold of 1 death per 10,000 per day (Fig. 21).

Mortality in the IDPs - Overall mortality in 2018

Table 7 | Mortality by IDP site and cause of death as of W10, 2018

IDP site	acute watery diarrhoea	cancer	Gunshot wound	Heart Failure	Kala-Azar	malaria	Meningitis	perinatal death	SAM	TB/HIV/AIDS	Trauma	HIV/AIDS	TB	Others	Grand Total
Bentiu	4	1	2	1	1	4	2	14	3	6	1	8	5	60	112
Juba 3	1	1		1		3			1	1		4	5	15	32
Malakal		1		2	1			1					2	5	12
Akobo			1		2	1					1			3	8
Grand Total	5	3	3	4	4	8	2	15	4	7	2	12	12	83	164
Proportionate mortality [%]	3%	2%	2%	2%	2%	5%	1%	9%	2%	4%	1%	7%	7%	51%	100%

- A total of 164 deaths have been reported from the IDP sites in 2018 <u>Table 7</u>.
- The top causes of mortality in the IDPs in 2018 are shown in <u>Table 7</u>.





For more help and support, please contact:

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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









