South Sudan

Integrated Disease Surveillance and Response (IDSR)

Annexes W16 2018 (April 16 – April 22)



Access and Utilisation

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Indicator-based surveillance

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Slide 5	Figure 3 Trend in consultations and key diseases

Disease trends and maps

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Acute Watery Diarrhoea (AWD)

Slide 8	Trend in AWD cases over time
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Bloody diarrhoea

Slide 10	Trend in bloody diarrhoea cases over time
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Measles

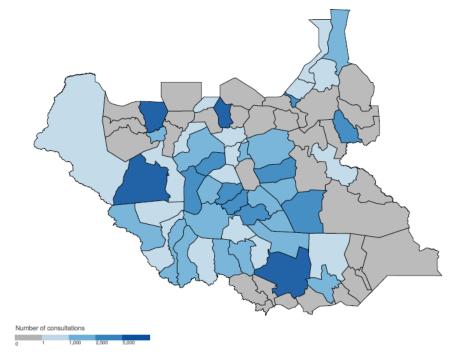
Slide 12	Trend in measles cases over time
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Sources of data

- 1. Weekly IDSR Reporting Form
- 2. Weekly EWARS Reporting Form

Access and Utilization | Map of consultations by county





Hub	W16	2018
Aweil	7,161	225,233
Bentiu	11,219	260,830
Bor	8,770	180,411
Juba	7,688	144,221
Kwajok	10,110	374,631
Malakal	9,676	184,551
Rumbek	17,584	255,256
Torit	1,797	81,220
Wau	10,254	129,165
Yambio	11,912	170,417
South Sudan	96,171	2,005,935

The total consultation in the country since week 1 of 2018 is 2,005,935, 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

Malaria
Acute Respiratory Infection
(ARI)
Acute Watery Diarrhoea

Acute Malaria
Other

Syndrome	W16		2018						
	# deaths	% mortality	# deaths	% mortality					
Malaria	0	0.0%	74	10.3%					
ARI	0	0.0%	12	1.7%					
AWD	0	0.0%	9	1.3%					
Bloody diarrhoea	0	0.0%	5	0.7%					
AJS	0	0.0%	2	0.3%					
Measles	0	0.0%	1	0.1%					
Other	416	100.0%	615	85.7%					
Total deaths	416	100%	718	100%					

Figure 1, above shows the proportional mortality for 2018, with malaria being the main cause of mortality accounting for 10.3% of the deaths since week 1 of 2018, followed by bloody diarrhoea, and acute watery diarrhoea.

Proportional morbidity

Bloody diarrhoea

Figure 2 | Proportional morbidity (2018)

Malaria
Acute Respiratory Infection
(ARI)
Acute Watery Diarrhoea
Bloody diarrhoea

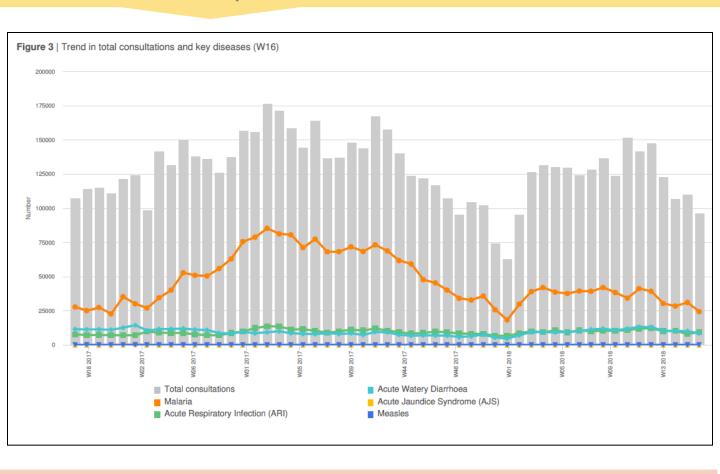
Syndrome	W16		2018						
	# cases	% morbidity	# cases	% morbidity					
Malaria	24,387	43.4%	575,089	51.7%					
ARI	9,353	16.6%	161,609	14.5%					
AWD	8,453	15.0%	165,988	14.9%					
Bloody diarrhoea	941	1.7%	24,717	2.2%					
AJS	0	0.0%	66	0.0%					
Measles	12	0.0%	165	0.0%					
Other	13,030	23.2%	185,543	16.7%					
Total cases	56,176	100%	1,113,177	100%					

Figure 2, indicates the top causes of morbidity in the country, with malaria being the leading cause of morbidity 575,089 (51.7%) followed by ARI, AWD and ABD respectively since week 1 of 2018. refer to the figure above for more information.

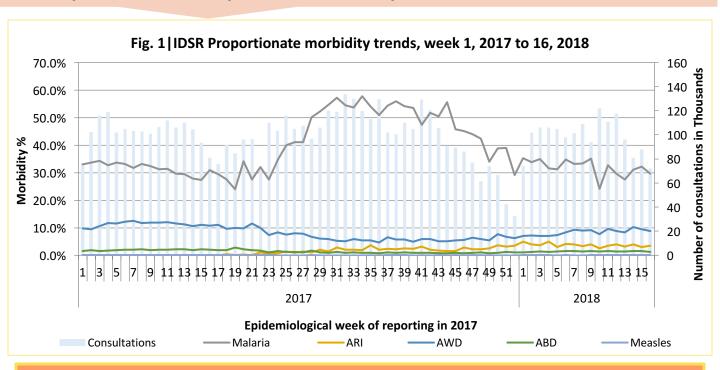




Trend in consultations and key diseases

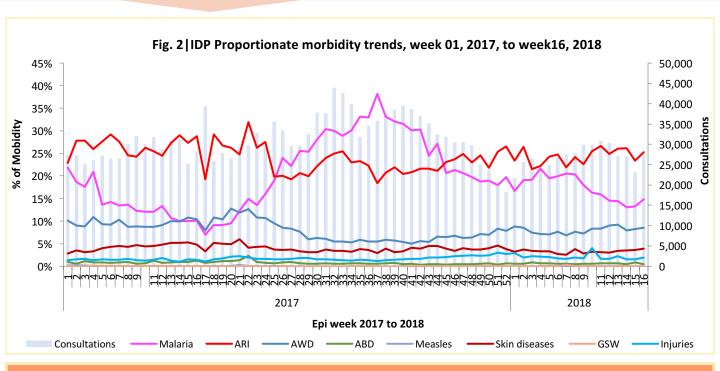


IDSR Proportionate morbidity trends - in relatively stable states



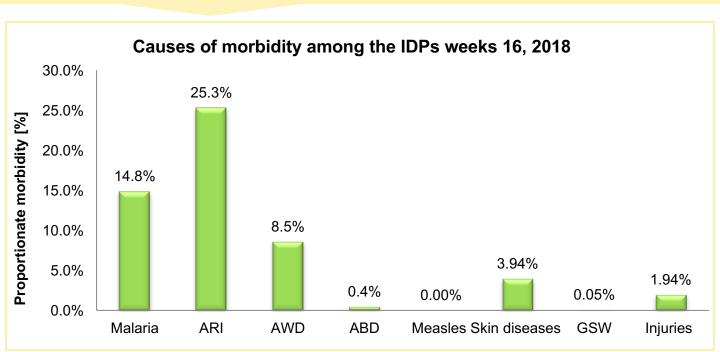
In the relatively stable states, malaria is the top cause of morbidity accounting for 29.6% of the consultations in week 16 (representing an decrease from 32.2% in week15).





Among the IDPs, ARI and malaria accounted for 25.3% and 14.8% of consultations in week 16. The other significant causes of morbidity in the IDPs include AWD, skin diseases, and injuries.

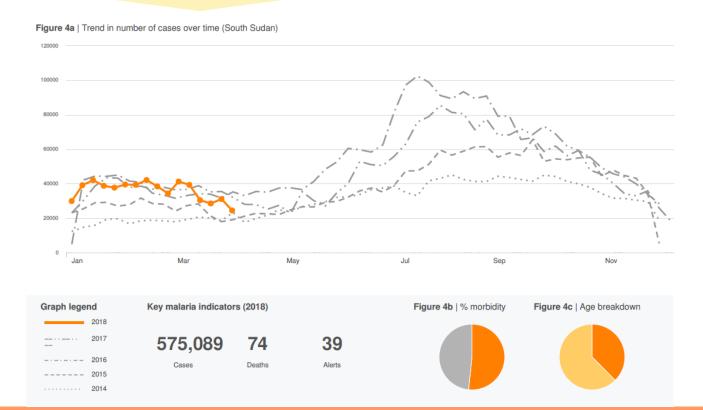
IDP Proportionate morbidity trends - in displaced populations



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

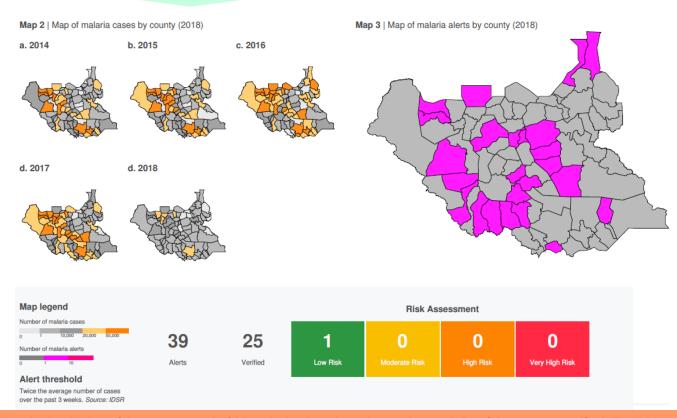


Malaria | Trends over time



Malaria is the top course of Morbidity in the country, a total of 575,089 cases with 74 deaths registered since week 1 of 2018. malaria trend for week 16 of 2018 is above 2014, 2015, however, is below the trend for 2016 and 2017 as shown in the figure 4a, above.

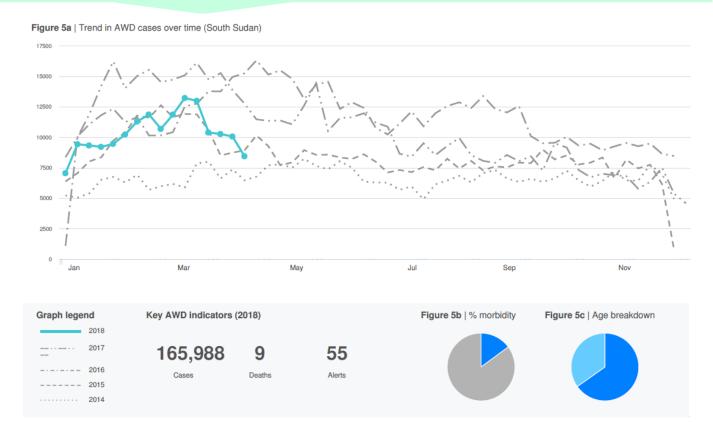
Malaria | Maps and Alert Management



Since the beginning of the year, a total of 39 malaria alerts have been triggered, 25 of those were verified. The Maps above indicate the location reporting malaria alerts from 2014, 2015, 2016, 2017, and 2018.

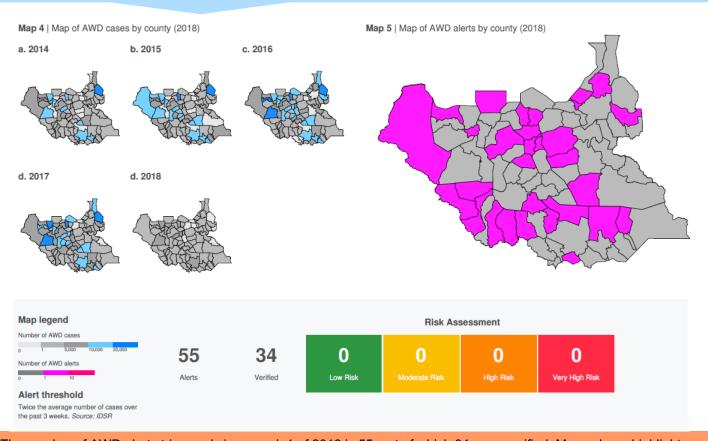


Acute Watery Diarrhoea | Trends over time



AWD is one of the top causes of morbidity in the country with 165,988 cases reported since week 1 of 2018 including 9 deaths. AWD trend for 2018 is below 2015, 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 55, out of which 34 were verified. Maps above highlight the areas reporting AWD alerts from 2014 to 2018 .



Acute Bloody Diarrhoea | Trends over time

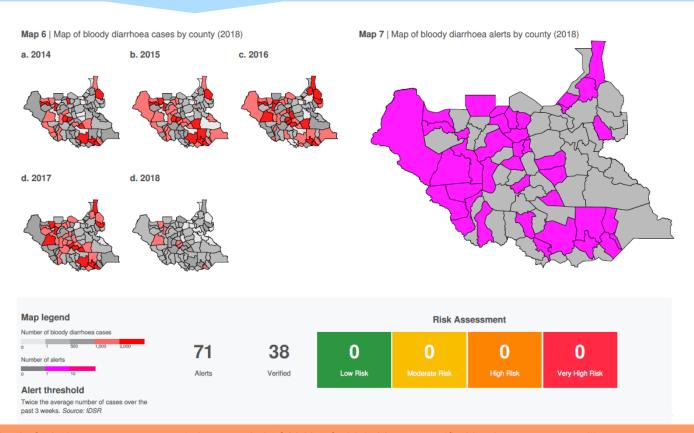
Figure 6a | Trend in bloody diarrhoea cases over time (South Sudan)



Since week 1 of 2018, a total of 24,717 cases of ABD have been reported country wide including 5 death. ABD trend for 2018 is below 2014, 2015, 2016, and 2017 respectively. Refer to figure 6a, above.

Acute Bloody Diarrhoea | Maps and Alert Management

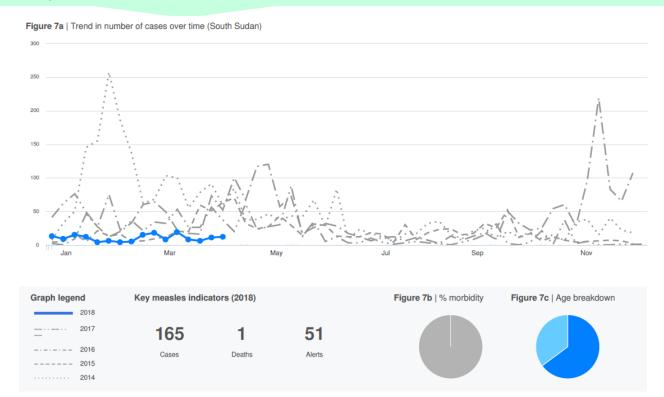
2016



Total of 71 alerts were generated since week 1 of 2018, of which 38 were verified by the county surveillance team. Maps indicating areas triggering alerts since 2014 to 2018 are shown above.

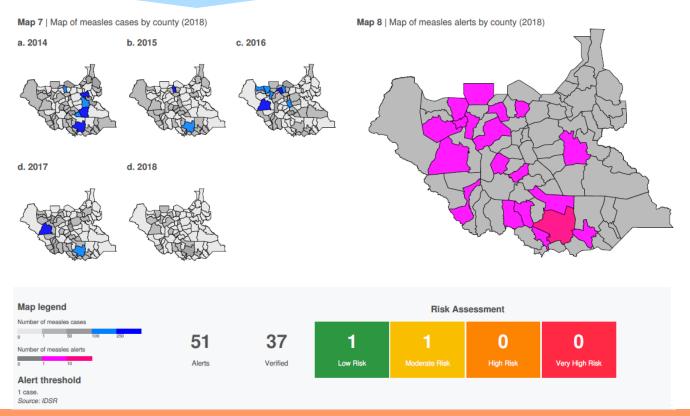


Measles | Trends over time



Since the beginning of 2018, at least 165 suspect measles cases including 1 death (CFR 0.8%) 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.

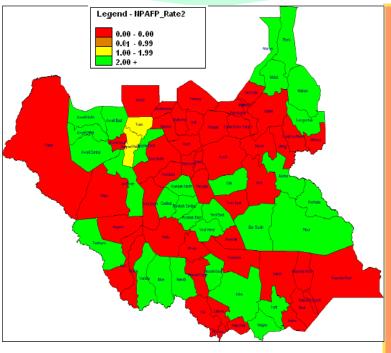
Measles | Maps and Alert Management



Since week 1 of 2018, 51 alerts of measles were triggered and 37 of those have been verified at county level. Maps of areas raising alerts from 2014 to 2018 are shown above.



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

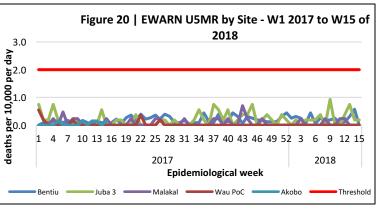
Source: South Sudan Weekly AFP Bulletin

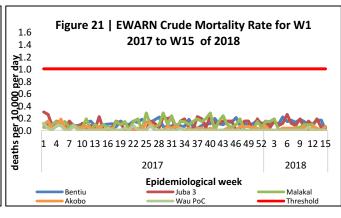
Table 6 | Proportional mortality by cause of death in IDPs W15 2018

Cause of Death by IDP site	Ako	obo	Juba 3	Total deaths
,	<5yrs	≥5yrs	<5yrs	
SAM	1			1
Infection Septicemior Syndrome		1		1
stillbirth			1	1
Totaldeaths	4		1	2

Among the IDPs, mortality data was received from Akobo, and UN House PoC in week 15. (Table 6). **A total of 3** deaths were reported during the week. Bentiu PoC reported is yet to submit 0 (0%) deaths in the week. During the week, 2 (67%) deaths were recorded among children <5 years in (Table 6).

The causes of death during week 15 are shown in Table 6.





The U5MR in all the IDP sites that submitted mortality data in week 15 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 15 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 W15, 2018

IDP site	Acute watery diarrhoea	cancer	Gunshot wound	Heart Failure	Kala-Azar	malaria	Meningitis	perinatal death	pneumonia	Rabies	SAM	Sepsis	TB/HIV/AIDS	Trauma	HIV/AIDS	TB	Others	Grand Total
Bentiu	4	1	2	1	1	5	3	14	4	1	4	14		1	10	7	74	153
Juba 3	1	1		1		5			2		1		1		4	7	22	45
Malakal		1		2	1			1								2	11	18
Akobo			1		2	1			1			2		1			5	13
Wau PoC						1											0	1
Grand Total	5	3	3	4	4	12	3	15	7	1	5	16	8	2	14	16	112	230
Proportionate mortality [%]	2%	1%	1%	2%	2%	5%	1%	7%	3%	0%	2%	7%	3%	1%	6%	7%	49%	100%

- A total of 230 deaths have been reported from the IDP sites in 2018
 Table 7.
- The top causes of mortality in the IDPs in 2018 are shown in Table 7.

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









