South Sudan

Integrated Disease Surveillance and Response (IDSR)

Annexes W4 2018 (Jan22 - Jan28)



Access and Utilisation

Slide 2 Ma	lap 1 Map of consultations by county (2018)
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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

Malaria	
Slide 6	Trend in malaria cases over time
Slide 7	Malaria maps and alert management

Acute Watery Diarrhoea (AWD)

Slide 8	Trend in AWD cases over time
Slide 9	AWD maps and alert management

Bloody diarrhoea

Slide 10	Trend in bloody diarrhoea cases over time
Slide 11	Bloody diarrhoea maps and alert management

Measles

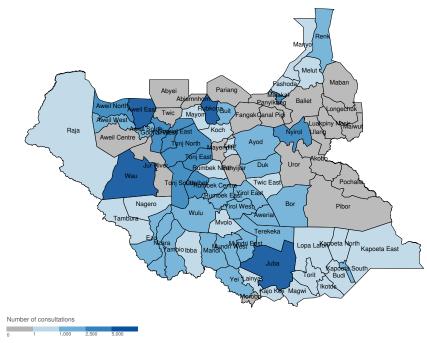
Slide 12	Trend in measles cases over time
Slide 13	Measles maps and alert management

Sources of data

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

Access and Utilization | Map of consultations by county





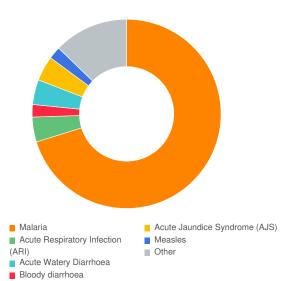
Hub	W4	2018
Aweil	18,329	70,757
Bentiu	10,350	37,656
Bor	9,162	42,309
Juba	9,767	39,284
Kwajok	16,159	64,176
Malakal	7,142	29,376
Rumbek	15,479	61,788
Torit	4,394	14,477
Wau	6,574	25,407
Yambio	10,868	
South Sudan	108,224	429,422





Proportional mortality

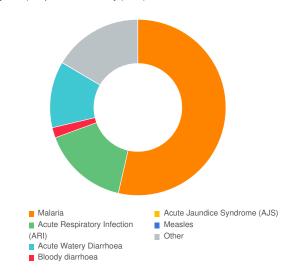
Figure 1 | Proportional mortality (2018)



Syndrome	W4		2018							
	# deaths	% mortality	# deaths	% mortality						
Malaria	4	36.4%	33	70.2%						
ARI	0	0.0%	2	4.3%						
AWD	0	0.0%	2	4.3%						
Bloody diarrhoea	1	9.1%	1	2.1%						
AJS	2	18.2%	2	4.3%						
Measles	0	0.0%	1	2.1%						
Other	4	36.4%	6	12.8%						
Total deaths	11	100%	47	100%						

Proportional morbidity

Figure 2 | Proportional morbidity (2018)



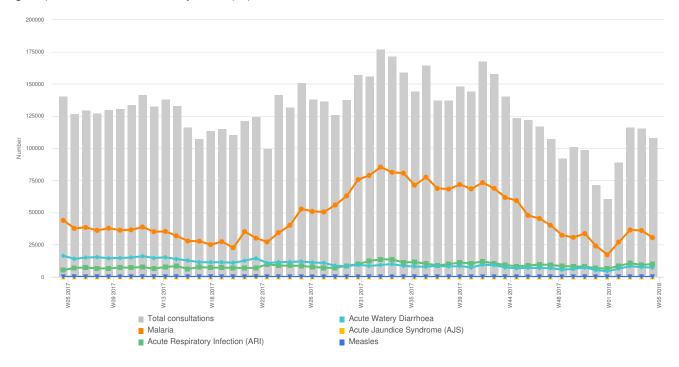
Syndrome	W4		2018	
	# cases	% morbidity	# cases	% morbidity
Malaria	30,532	53.6%	130,224	53.6%
ARI	9,964	17.5%	38,483	15.8%
AWD	7,252	12.7%	29,626	12.2%
Bloody diarrhoea	1,181	2.1%	4,593	1.9%
AJS	55	0.1%	58	0.0%
Measles	12	0.0%	49	0.0%
Other	7,934	13.9%	39,975	16.5%
Total cases	56,930	100%	243,008	100%



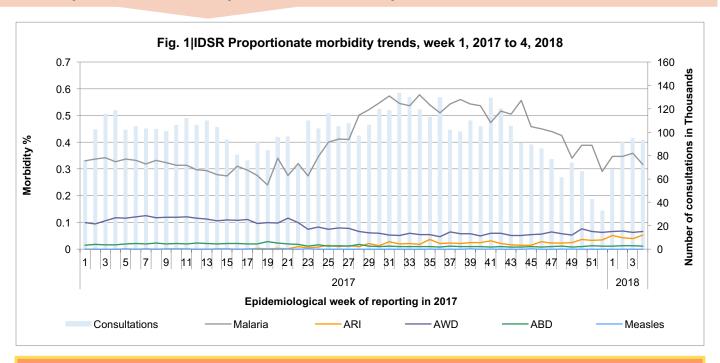


Trend in consultations and key diseases

Figure 3 | Trend in total consultations and key diseases (W4)



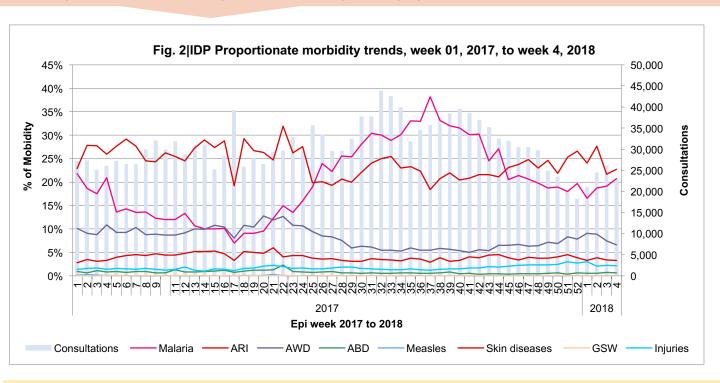
IDSR Proportionate morbidity trends - in relatively stable states



In the relatively stable states, malaria is the top cause of morbidity accounting for 31.6% of the consultations in week 4 (representing a decline from 35.8% in week 1).

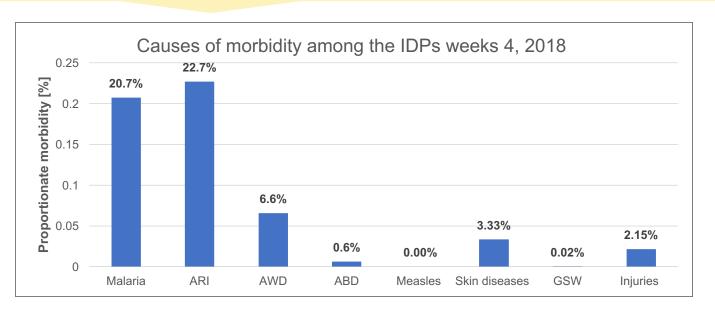


IDP Proportionate morbidity trends - in displaced populations



Among the IDPs, ARI and malaria accounted for 22.7% and 20.7% of consultations in week 4. The other significant causes of morbidity in the IDPs include AWD, skin diseases, and injuries.

IDP Proportionate morbidity trends - in displaced populations



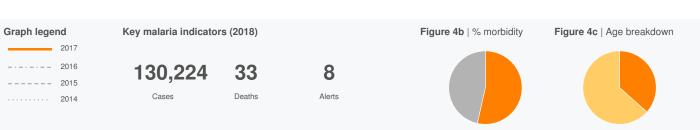
The top causes of morbidity in the IDPs in 2018 include ARI, malaria, AWD, skin diseases, injuries, and ABD.



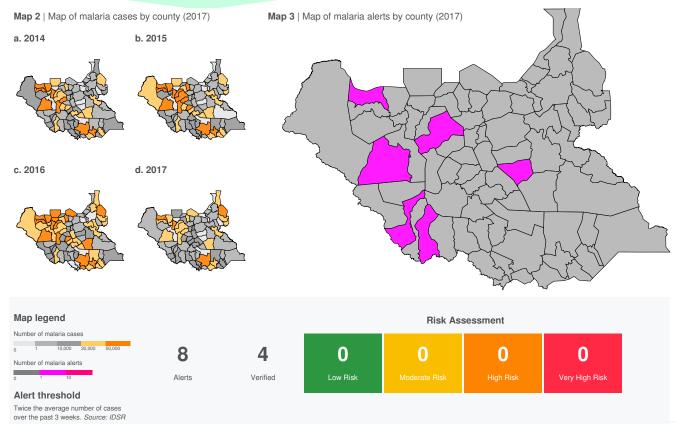
Malaria | Trends over time

Figure 4a | Trend in number of cases over time (South Sudan)





Malaria | Maps and Alert Management



Acute Watery Diarrhoea | Trends over time



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Alerts

Acute Watery Diarrhoea | Maps and Alert Management

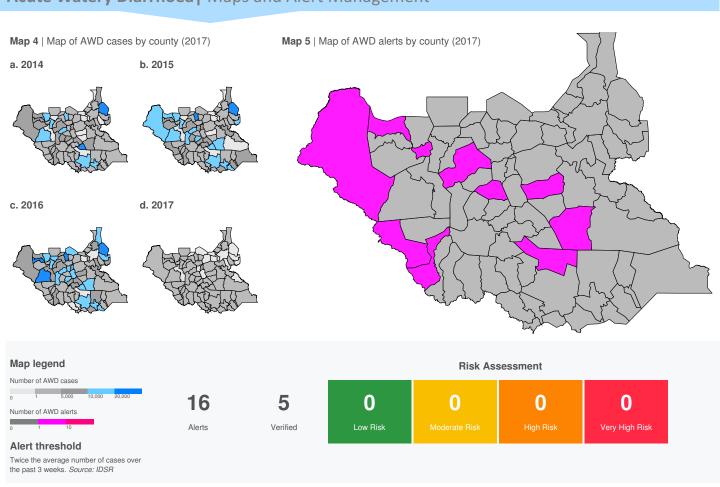
Deaths

29,626

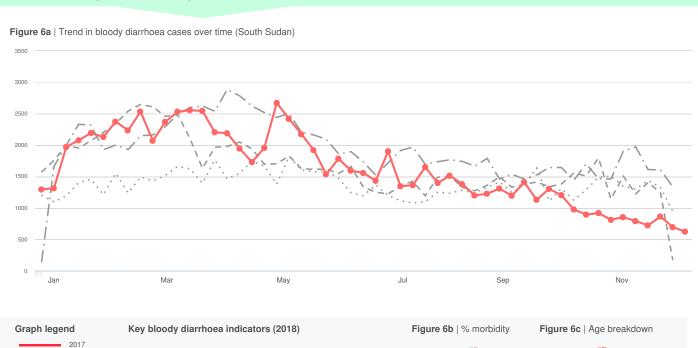
2016

2015

2014



Acute Bloody Diarrhoea | Trends over time



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Alerts

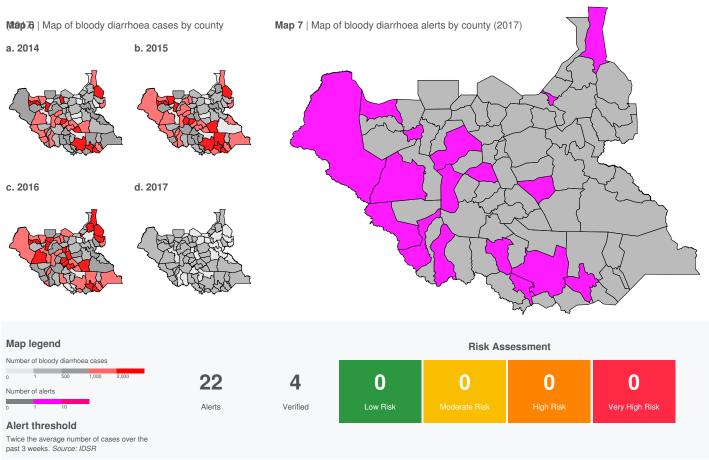
Acute Bloody Diarrhoea | Maps and Alert Management

Deaths

4,593

2016

2014



Measles | Trends over time

Graph legend

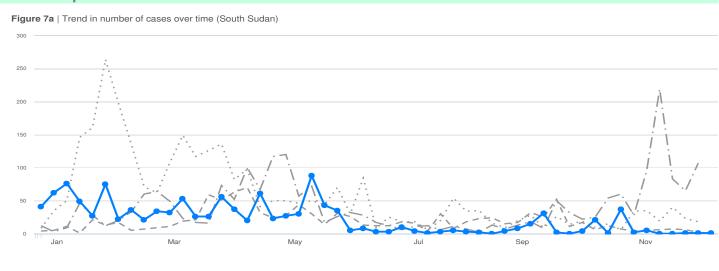




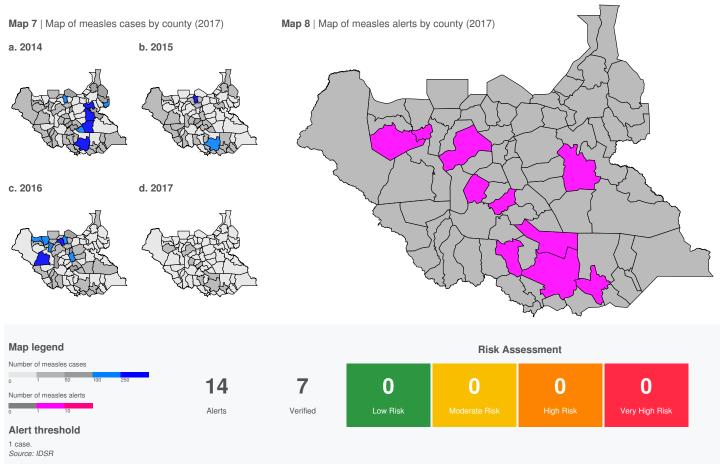
Figure 7b | % morbidity

Figure 7c | Age breakdown

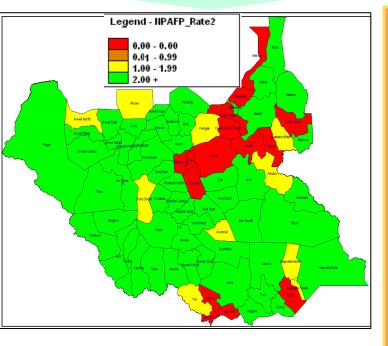
death (CFR 4.5%) have been reported. Of these, 11 suspect cases have undergone measles case-based laboratory-backed investigation with 11 samples collected out of which 3 measles IgM positive cases have been reported.

Measles | Maps and Alert Management

Key measles indicators (2018)



Acute Flaccid Paralysis | Suspected Polio



In week 4, 2018, five new AFP cases were reported from Jonglei, Lakes, and Warrap hubs. This brings the cumulative total for 2018 to 13 AFP cases.

During 2017, a cumulative of 387 AFP cases were reported countrywide. The annualized non-Polio AFP (NPAFP) rate (cases per 100,000 population children 0-14 years) in 2017 was 4.72 per 100,000 population of children 0-14 years (target ≥2 per 100,000 children 0-14 years).

Stool adequacy was 87% in 2017, 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.

Source: South Sudan Weekly AFP Bulletin

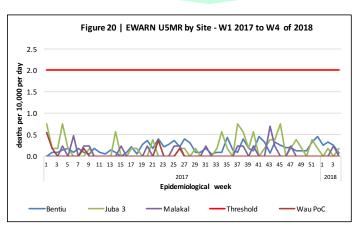
Mortality in the IDPs

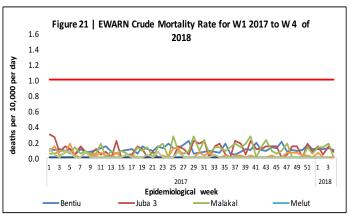
Table 6 | Proportional mortality by cause of death in IDPs W4 2018

Cause of Death by	Ben	tiu	Juk	oa 3	Total	Proportionate			
IDP site	<5yrs	≥5yrs	<5yrs	≥5yrs	deaths	mortality [%]			
Acute Abdomen		1			1	10			
Cancer		1			1	10			
perinatal death	1				1	10			
HIV/AIDS			1	1	2	20			
ТВ		2			2	20			
Unkown		2			2	20			
Hypoglyceamia		1			1	10			
Total deaths	1	7	1	1	10	100			

Among the IDPs, mortality data was received from Bentiu PoC & UN House PoC in week 4. (Table 6). **A total of 10** deaths were reported during the week. Bentiu PoC reported 8 (80%) deaths in the week. During the week, 2 (20%) deaths were recorded among children <5 years in (Table 6).

The causes of death during week 3 are shown in Table 6.





The U5MR in all the IDP sites that submitted mortality data in week 4 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 4 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 W4, 2018

IDP site	SAM	Heart Failure	Kala-Azar	Acute Abdomen	Neonatal Sepsis	Sepsis	Septic shock	acute watery diarrhoea	Asthma	cancer	Liver Cirrhosis	malaria	Meningitis	perinatal death	pneumonia	Rabies	Shock	тв/ніv	Trauma	HIV/AIDS	ТВ	burns	Unkown	LRTI Bleeding	Peptic ulcer disease	Hypoglyceamia	Grand Total
Bentiu	1	1		1	1	2				1		1	1	5	2	1	3	1		2	3	2	6	1		1	36
Juba 3								1	1	1	1	1			1					3	1				1		11
Malakal		2	1				1			1				1							2		2				10
Akobo			1																1								2
Grand Total	1	3	2	1	1	2	1	1	1	3	1	2	1	6	3	1	3	1	1	5	6	2	8	1	1	1	59
Proportionate mortality [%]	2%	5%	3%	2%	2%	3%	2%	2%	2%	5%	2%	3%	2%	10%	5%	2%	5%	2%	2%	8%	10%	3%	14%	2%	2%	2%	100%

- A total of 59 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 <u>Table 7</u>.





For more help and support, please contact:

Dr. Pinyi Nyimol Mawien Director General Preventive Health Services Ministry of Health Republic of South Sudan Telephone: +211 955 604 020

Dr. Mathew Tut Moses Director Emergency Preparedness and Response (EPR) Ministry of Health Republic of South Sudan Telephone: +211 955 295 257

Notes

WHO and the Ministry of Health gratefully acknowledge health cluster and health pooled fund (HPF) partners who have reported the data used in this bulletin. We would also like to thank ECHO and USAID for providing financial support.

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









