# South Sudan

Integrated Disease Surveillance and Response (IDSR)

Annexes W33 2018 (Aug 13 – Aug 19)



#### Contents

#### Access and Utilisation

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

#### Indicator-based surveillance

Slide 3	Figure 1 Proportional mortality
Slide 4	Figure 2 Proportional morbidity
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	9 AWD maps and alert management								
Bloody d	iarrhoea								
Slide 10	Trend in bloody diarrhoea cases over time								
Slide 11	Bloody diarrhoea maps and alert management								

#### Measles

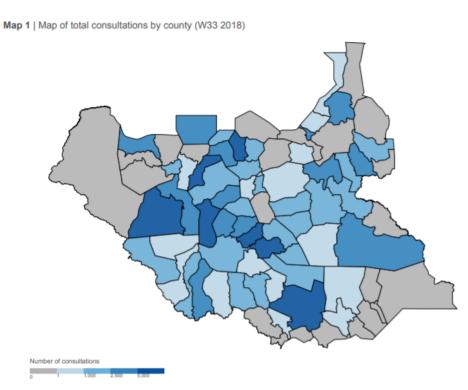
Slide 12	Trend in measles cases over time
Slide 13	Measles maps and alert management

#### Sources of data

1. Weekly IDSR Reporting Form

2. Weekly EWARS Reporting Form

### Access and Utilization | Map of consultations by county

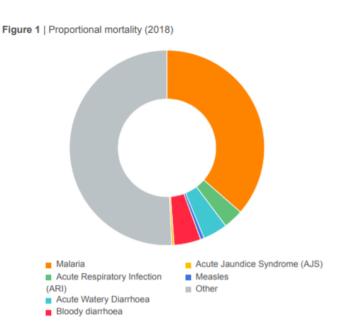


Hub	W33	2018
Aweil	4,803	400,796
Bentiu	19,725	515,936
Bor	13,532	366,678
Juba	11,479	387,373
Kwajok	22,355	830,643
Malakal	12,059	397,304
Rumbek	27,684	576,676
Torit	688	203,170
Wau	8,348	293,212
Yambio	11,337	377,051
South Sudan	132,010	4,348,839

The total consultation in the country since week 1 of 2018 is 4,348,839 by hub, Kwajok registered the highest number of consultations as indicated in the table above. The total number of consultations by county is shown in the map above. See the key for more information.



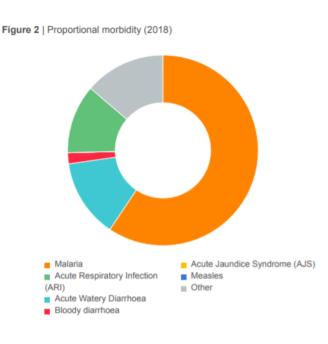
## **Proportional mortality**



Syndrome	W33		2018	
	# deaths	% mortality	# deaths	% mortality
Malaria	7	100.0%	188	36.4%
ARI	0	0.0%	17	3.3%
AWD	0	0.0%	21	4.1%
Bloody diarrhoea	0	0.0%	23	4.5%
AJS	0	0.0%	2	0.4%
Measles	0	0.0%	3	0.6%
Other	0	0.0%	262	50.8%
Total deaths	7	100%	516	100%

Figure 1, above shows the proportional mortality for 2018, with malaria being the main cause of mortality accounting for 36.4% of the deaths since week 1 of 2018, followed by bloody diarrhoea, and acute watery diarrhoea.

### **Proportional morbidity**

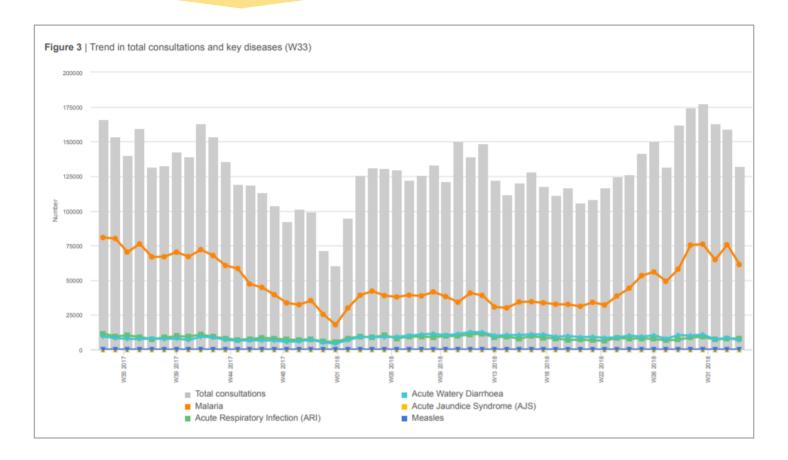


Syndrome	W33		2018						
	# cases	% morbidity	# cases	% morbidity					
Malaria	61,334	71.6%	1,440,201	59.4%					
ARI	8,116	9.5%	282,562	11.7%					
AWD	6,739	7.9%	323,125	13.3%					
Bloody diarrhoea	952	1.1%	45,439	1.9%					
AJS	4	0.0%	188	0.0%					
Measles	2	0.0%	386	0.0%					
Other	8,477	9.9%	332,545	13.7%					
Total cases	85,624	100%	2,424,446	100%					

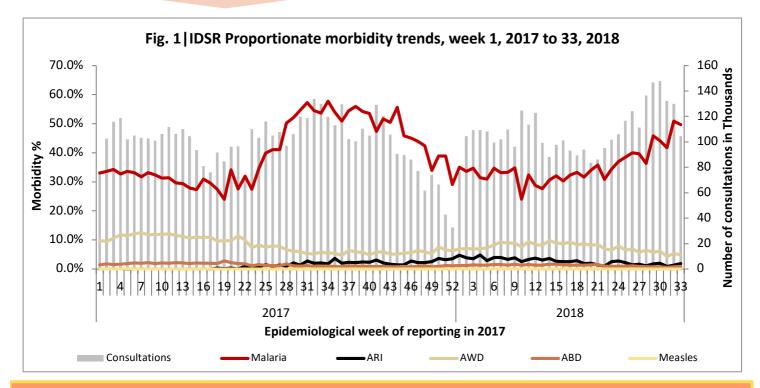
Figure 2, indicates the top causes of morbidity in the country, with malaria being the leading cause of morbidity 1,440,201 (59.4%) followed by ARI, AWD and ABD respectively since week 1 of 2018. refer to the figure above for more information.



## Trend in consultations and key diseases

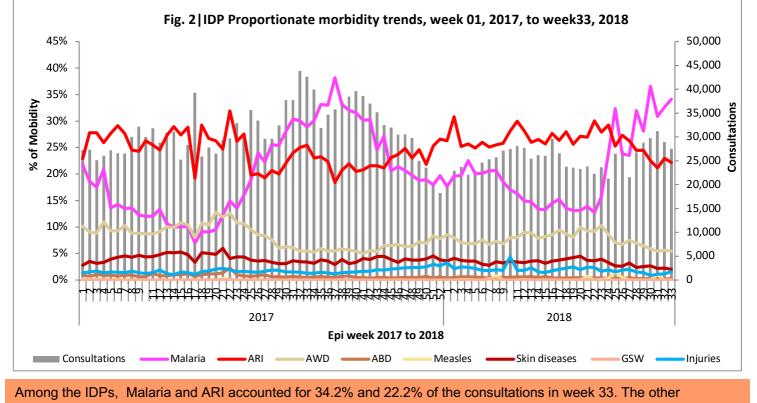


#### **IDSR Proportionate morbidity trends** - in relatively stable states



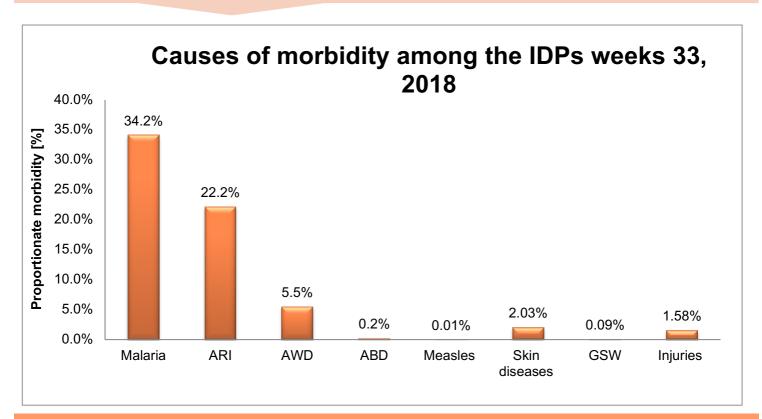
In the relatively stable states, malaria is the top cause of morbidity accounting for 49.7% of the consultations in week 33 (representing an decrease from 50.9% in week 32).





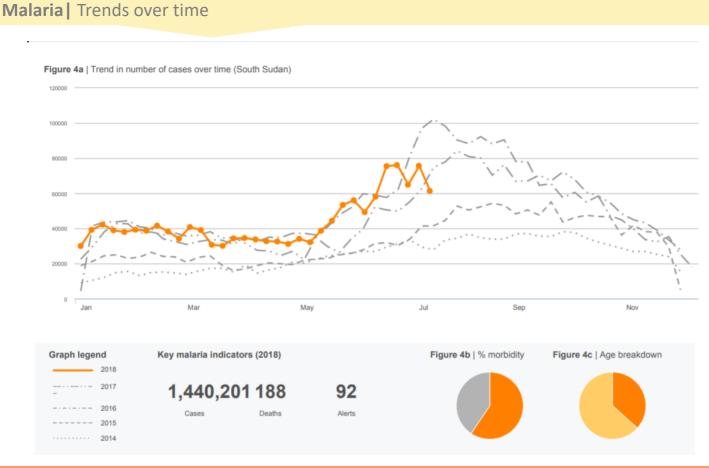
significant causes of morbidity in the IDPs includes AWD, Skin diseases, and Injuries.

IDSR Proportionate morbidity trends - in displaced population



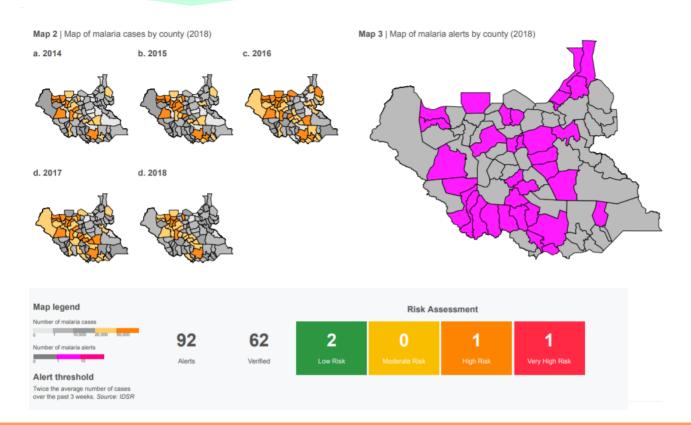
The top causes of morbidity in the IDPs in 2018 include ARI, Malaria, AWD, Skin diseases, Injuries and ABD.





Malaria is the top course of Morbidity in the country, a total of 1,440,201 cases with 188 deaths registered since week 1 of 2018. malaria trend for week 33 of 2018 is above 2014, and 2015 as shown in the figure 4a, above.

## Malaria | Maps and Alert Management

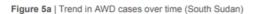


Since the beginning of the year, a total of 92 malaria alerts have been triggered, 62 of those were verified. The Maps above indicate the location reporting malaria alerts from 2014, 2015, 2016, 2017, and 2018.





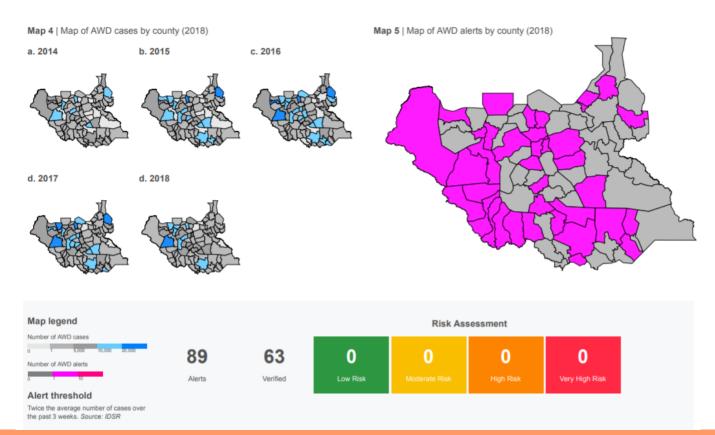
## Acute Watery Diarrhoea | Trends over time





AWD is one of the top causes of morbidity in the country with 323,125 cases reported since week 1 of 2018 including 21 deaths. AWD trend for week 33 of 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 89, out of which 63 were verified. Maps above highlight the areas reporting AWD alerts from 2014 to 2018.





## Acute Bloody Diarrhoea | Trends over time

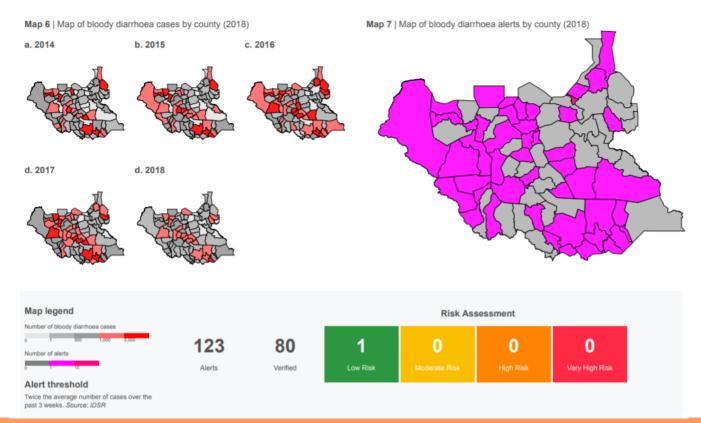


Figure 6a | Trend in bloody diarrhoea cases over time (South Sudan)

Since week 1 of 2018, a total of 45, 439 cases of ABD have been reported country wide including 23 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

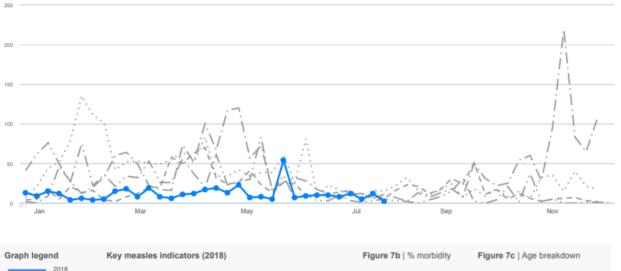
----- 2015



Total of 123 alerts were generated since week 1 of 2018, of which 80 were verified by the county surveillance team. Maps indicating areas triggering alerts since 2014 to 2018 are shown above.



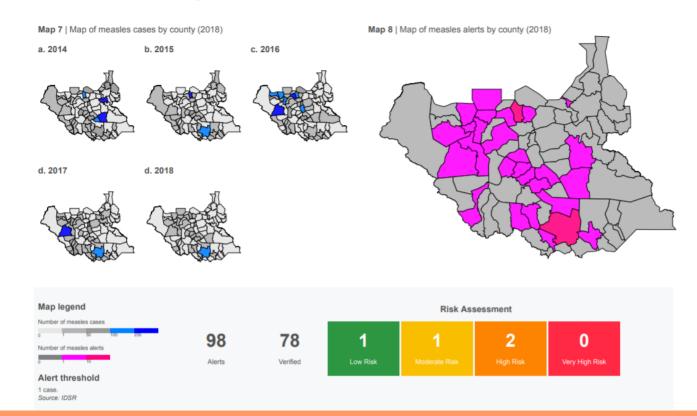
Figure 7a | Trend in number of cases over time (South Sudan)





Since the beginning of 2018, at least 386 suspect measles cases including 3 death (CFR 0.82%) have been reported. Of these, 282 suspect cases have undergone measles case-based laboratory-backed investigation with 235 samples collected out of which 26 measles IgM positive cases; 57 clinically confirmed cases; and 3 cases confirmed by epidemiological linkage.

### Measles | Maps and Alert Management



Since week 1 of 2018, 98 alerts of measles were triggered and 78 of those have been verified at county level. Maps of areas raising alerts from 2014 to 2018 are shown above.





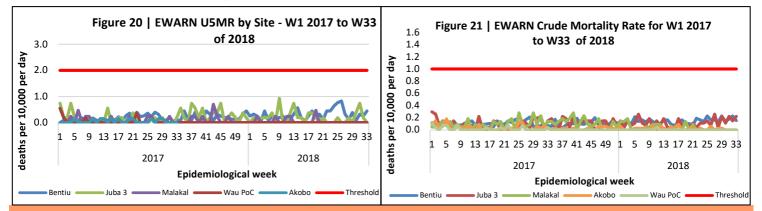
## **Table 6** | Proportional mortality by cause of death in IDPs W332018

Cause of Death by IDD site	Ber	ntiu	Juba 3	Total deaths
Cause of Death by IDP site	<5yrs	≥5yrs	≥5yrs	iotal deaths
Aspiration	1			1
cardiac arrest		1		1
malaria	1		1	2
perinatal death	1			1
SAM		1		1
ТВ			1	1
Unkown		1	1	2
Respiratory Distress.	1			1
Spina bifida	1			1
Haemoptysis		1		1
Hypoxic Ischemic				
Encephalopathy (HIE)	1			1
Chronic Obstructive Pulmonary				
Diease (COPD)		1		1
Nephroblastoma	1			1
Hepatities B			1	1
Wasting Sydrum			1	1
Gastro-enteritis			1	1
Total deaths	7	5	6	18

Among the IDPs, mortality data was received from Bentiu PoC & UN House PoC in week 33. (Table 6). **A total of 18** deaths were reported during the week. Bentiu PoC report 12 deaths (67%) in the week. During the week, 5 (28%) deaths were recorded among children <5 years in (Table 6).

The causes of death during week 33 are shown in Table 6.





The U5MR in all the IDP sites that submitted mortality data in week 33 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 33 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 W33, 2018

IDP site	acute watery	diarrhoea	cancer	Gungab	punom	Heart Failure	Kala-Azar	malaria	Meningitis	perinatal death	pneumonia	Rabies	SAM	Sepsis	TB/HIV/AIDS	Trauma	HIV/AIDS	TB	Others	Grand Total
Bentiu		7	1	2	2	1	2	33	3	26	10	1	16	17	13	1	19	7	215	376
Juba 3		1	1			5		11			5		З		1		6	7	65	105
Malakal			1			3	1			1	1							2	17	26
Akobo					1		2	4			2		1	2	1	1			9	23
Wau PoC								1											0	1
Grand Total		8	3	2	3	9	5	49	3	27	18	1	20	19	15	2	25	16	306	531
Proportionate mortality [%]		.%	1%	0%	1%	2%	1%	9%	1%	5%	3%	0%	4%	4%	3%	0%	5%	3%	58%	100%

A total of 531 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 Table 7.



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

For more help and support, please contact:

Dr. Pinyi Nyimol Mawien Director General Preventive Health Services Ministry of Health Republic of South Sudan Telephone: +211916285676

Dr. Mathew Tut Moses Director Emergency Preparedness and Response (EPR) Ministry of Health Republic of South Sudan Telephone: +211922202028

#### 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











Humanitarian Aid and Civil Protection