South Sudan

Integrated Disease Surveillance and Response (IDSR)

Annexes W14 2018 (April 02 – April 08)



Access and Utilisation

Slide 2	Map 1 Map of	consultations by	y 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	AWD maps and alert management

Bloody diarrhoea

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

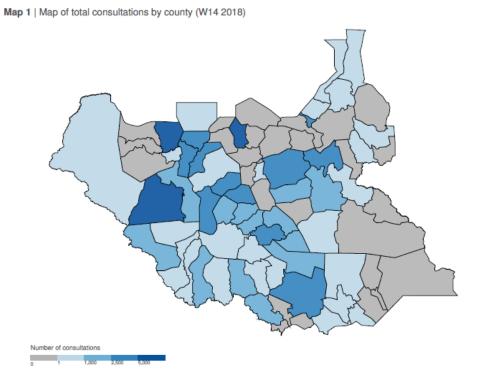
Measles

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	W14	2018
Aweil	8,277	209,841
Bentiu	7,669	235,160
Bor	12,514	162,236
Juba	6,762	128,824
Kwajok	17,624	340,990
Malakal	7,283	153,763
Rumbek	15,726	220,516
Torit	2,885	72,839
Wau	9,051	109,725
Yambio	9,805	145,445
South Sudan	97,596	1,779,339

The total consultation in the country since week 1 of 2018 is 1,779,339, 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

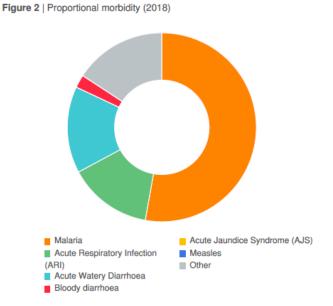
Malaria
Acute Respiratory Infection
(ARI)
Acute Watery Diarrhoea

Syndrome	W14		2018			
	# deaths	% mortality	# deaths	% mortality		
Malaria	3	100.0%	73	20.8%		
ARI	0	0.0%	11	3.1%		
AWD	0	0.0%	63	17.9%		
Bloody diarrhoea	0	0.0%	5	1.4%		
AJS	0	0.0%	2	0.6%		
Measles	0	0.0%	1	0.3%		
Other	0	0.0%	196	55.8%		
Total deaths	3	100%	351	100%		

Figure 1, above shows the proportional mortality for 2018, with malaria being the main cause of mortality accounting for 20.8% of the deaths since week 1 of 2018, followed by bloody diarrhoea, and acute watery diarrhoea.

Proportional morbidity

Bloody diarrhoea



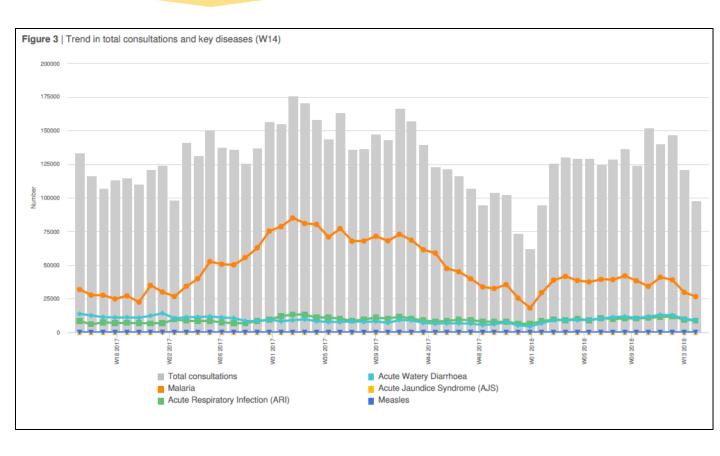
Syndrome	W14		2018	
	# cases	% morbidity	# cases	% morbidity
Malaria	26,638	46.4%	516,254	52.8%
ARI	8,763	15.3%	140,218	14.3%
AWD	9,001	15.7%	144,839	14.8%
Bloody diarrhoea	1,273	2.2%	21,862	2.2%
AJS	1	0.0%	66	0.0%
Measles	6	0.0%	142	0.0%
Other	11,717	20.4%	153,995	15.8%
Total cases	57,399	100%	977,376	100%

Figure 2, indicates the top causes of morbidity in the country, with malaria being the leading cause of morbidity 516,254 (55.8%) followed by ARI, AWD and ABD respectively since week 1 of 2018. refer to the figure above for more information.

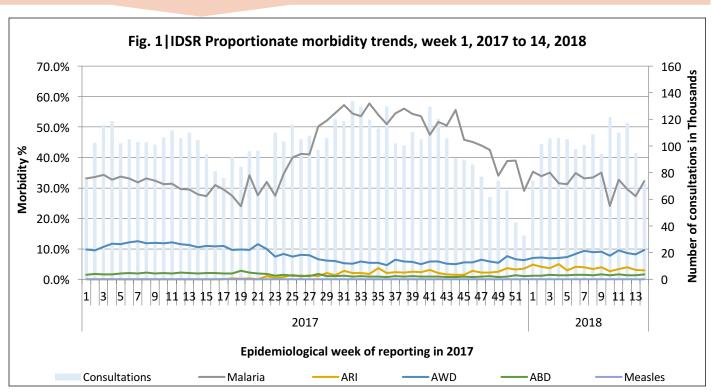




Trend in consultations and key diseases

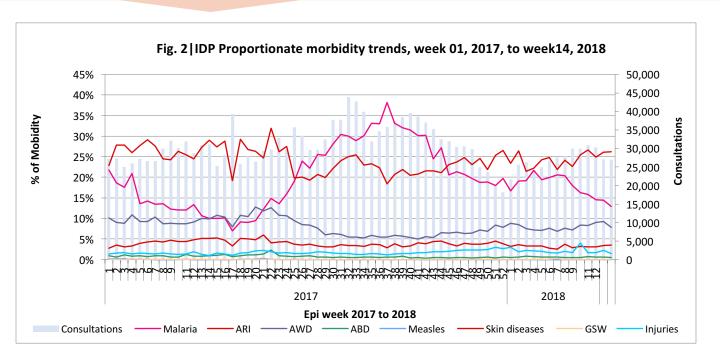


IDSR Proportionate morbidity trends - in relatively stable states



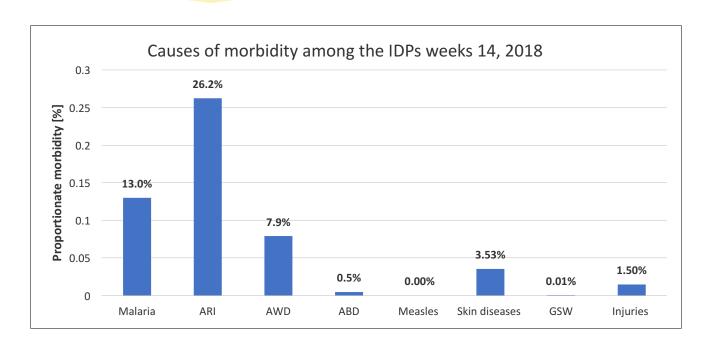
In the relatively stable states, malaria is the top cause of morbidity accounting for 32.3% of the consultations in week 14 (representing an increase from 27.3% in week13).





Among the IDPs, ARI and malaria accounted for 26.2% and 13.0% of consultations in week 14. The other significant causes of morbidity in the IDPs include AWD, skin diseases, and injuries.

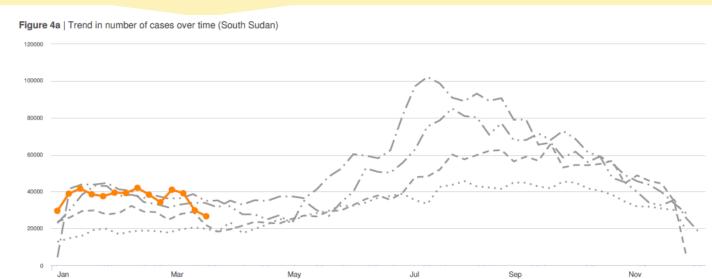
IDP Proportionate morbidity trends - in displaced populations

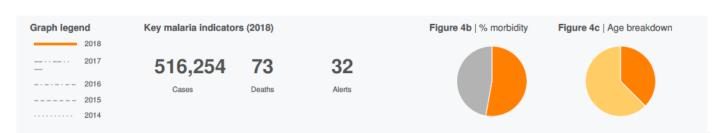


The top causes of morbidity in the IDPs in 2018 include ARI, malaria, AWD, skin diseases, injuries, and ABD.



Malaria | Trends over time

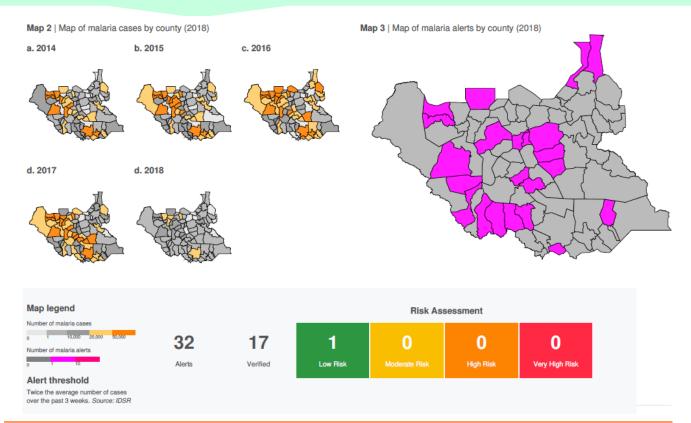




Sep

Malaria is the top course of Morbidity in the country, a total of 516,254 cases with 73 deaths registered since week 1 of 2018. malaria trend for week 14 of 2018 is below 2016 and 2017 as shown in the figure 4a, above.

Malaria | Maps and Alert Management

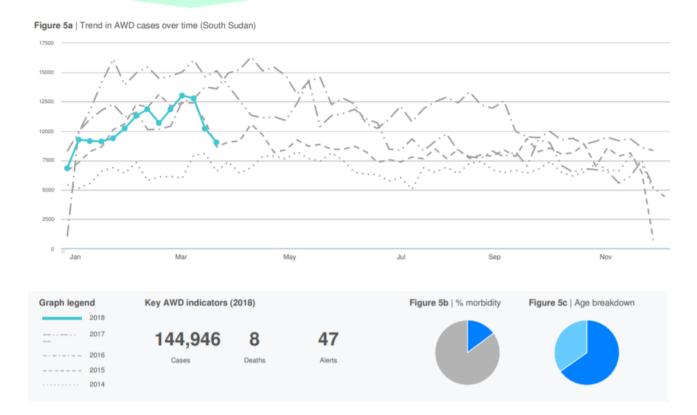


Since the beginning of the year, a total of 32 malaria alerts have been triggered, 17 of those were verified. The Maps above indicate the location reporting malaria alerts from 2014, 2015, 2016, 2017, and 2018.



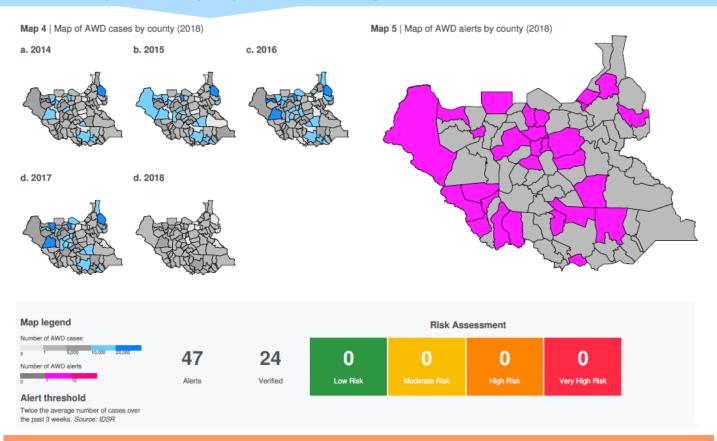


Acute Watery Diarrhoea | Trends over time



AWD is one of the top causes of morbidity in the country with 144,946 cases reported since week 1 of 2018 including 8 deaths. AWD trend for 2018 is below 2016, and 2017 as shown in figure 5a, above.

Acute Watery Diarrhoea | Maps and Alert Management

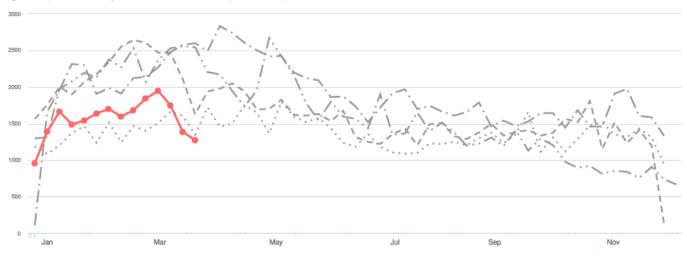


The number of AWD alerts triggered since week 1 of 2018 is 47, out of which 24 were verified. Maps above highlight the areas reporting AWD alerts from 2014 to 2018 .



Acute Bloody Diarrhoea | Trends over time

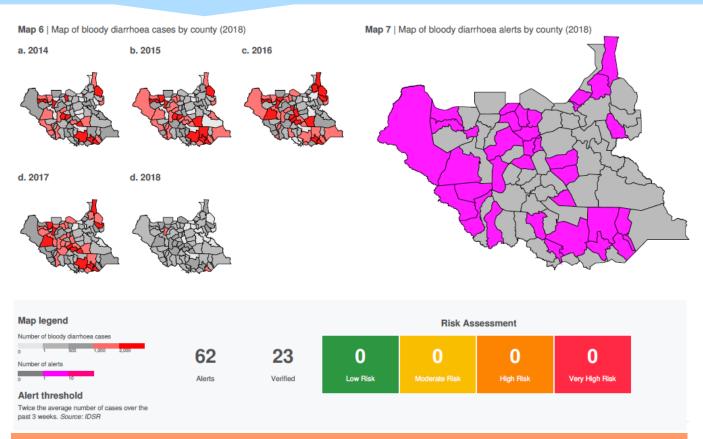
Figure 6a | Trend in bloody diarrhoea cases over time (South Sudan)





Since week 1 of 2018, a total of 21,862 cases of ABD have been reported country wide including 5 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 62 alerts were generated since week 1 of 2018, of which 23 were verified by the county surveillance team. Maps indicating areas triggering alerts since 2014 to 2018 are shown above.

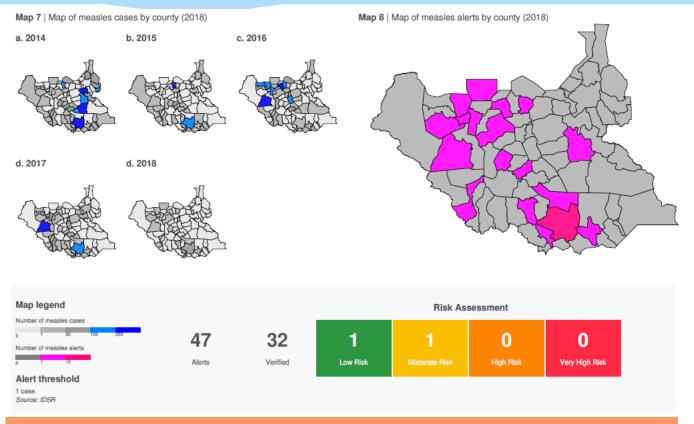




Measles | Trends over time

Since the beginning of 2018, at least 142 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.

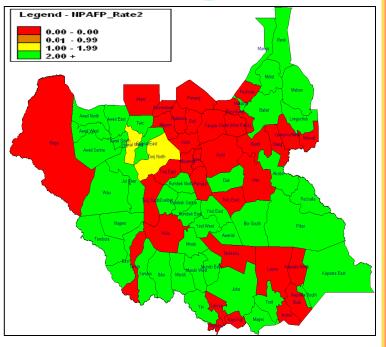
Measles | Maps and Alert Management



Since week 1 of 2018, 47 alerts of measles were triggered and 32 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 14, 2018, Nine (9) new AFP cases were reported from EES, Lakes, Northern Bahr el Ghazal, Upper Nile, Western Bahr el Ghazal, Warrap, and Western Equatoria hubs. This brings the cumulative total for 2018 to 85 AFP cases.

The annualized non-Polio AFP (NPAFP) rate (cases per 100,000 population children 0-14 years) in 2018 is 3.84 per 100,000 population of children 0-14 years (target ≥2 per 100,000 children 0-14 years).

Stool adequacy was 93% 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 five NPEV positive sample in 2018.

Mortality in the IDPs

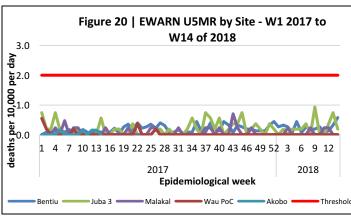
Source: South Sudan Weekly AFP Bulletin

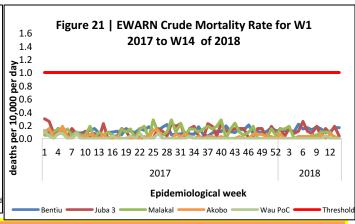
Table 6 | Proportional mortality by cause of death in IDPs W14 2018

Cause of Death by	Ber	ntiu	Juba 3	Total deaths
IDP site	<5yrs	≥5yrs	<5yrs	
malaria	1			1
pneumonia	1			1
Sepsis	3			3
Unknown	1			1
HIV/AIDS		1		1
ТВ		1		1
Asphyxia	1			1
Hypoglycemia	1			1
Spear Wound		1		1
Sepsis Wound		1		1
Preterm baby	1			1
Fetal Delivery			1	1
Total deaths	9	4	1	14

Among the IDPs, mortality data was received from Bentiu PoC, & UN House PoC in week 14. (Table 6). **A total of 14** deaths were reported during the week. Bentiu PoC reported 13 (93%) deaths in the week. During the week, 10 (71%) deaths were recorded among children <5 years in (Table 6).

The causes of death during week 12 are shown in Table 6.





The U5MR in all the IDP sites that submitted mortality data in week 14 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 14 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 W14, 2018

IDP site	acute watery diarrhoea	Cancer	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	7	1	10	7	74	153
Juba 3	1	1		1		5			2		1		1		4	7	21	44
Malakal		1		2	1			1								2	11	18
Akobo			1		2	1			1			2		1			3	11
Wau PoC						1											0	1
Grand Total	5	3	3	4	4	12	3	15	7	1	5	16	8	2	14	16	109	227
Proportionate mortality [%]	2%	1%	1%	2%	2%	5%	1%	7%	3%	0%	2%	7%	4%	1%	6%	7%	48%	100%

- A total of 227 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









