South Sudan

Integrated Disease Surveillance and Response (IDSR)

Annexes W22 2018 (May 28 – June 3)



Ministry of Health Republic of South Sudan



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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

Map 1 | Map of total consultations by county (W22 2018)



Hub	W22	2018
Aweil	11,252	274,615
Bentiu	7,137	341,247
Bor	5,870	220,989
Juba	14,291	230,912
Kwajok	15,080	509,050
Malakal	7,297	236,664
Rumbek	15,677	348,877
Torit	4,196	119,214
Wau	8,924	184,624
Yambio	18,430	248,622
South Sudan	108,154	2,714,814

The total consultation in the country since week 1 of 2018 is 2,714,814 by hub, Kwajok registered the highest number of consultations (509,050) in 2018 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



Syndrome	W22		2018			
	# deaths	# deaths % mortality		% mortality		
Malaria	7	41.2%	104	12.9%		
ARI	0	0.0%	15	1.9%		
AWD	0	0.0%	9	1.1%		
Bloody diarrhoea	0	0.0%	14	1.7%		
AJS	0	0.0%	2	0.2%		
Measles	2	11.8%	3	0.4%		
Other	8	47.1%	657	81.7%		
Total deaths	17	100%	804	100%		

Figure 1, above shows the proportional mortality for 2018, with malaria being the main cause of mortality accounting for 12.9% of the deaths since week 1 of 2018, followed by bloody diarrhoea, and acute watery diarrhoea.



Syndrome	W22		2018						
	# cases	% morbidity	# cases	% morbidity					
Malaria	30,742	54.7%	781,973	51.9%					
ARI	5,912	10.5%	209,768	13.9%					
AWD	7,869	14.0%	225,904	15.0%					
Bloody diarrhoea	925	1.6%	32,882	2.2%					
AJS	8	0.0%	113	0.0%					
Measles	8	0.0%	351	0.0%					
Other	10,754	19.1%	254,411	16.9%					
Total cases	56,218	100%	1,505,402	100%					

Figure 2, indicates the top causes of morbidity in the country, with malaria being the leading cause of morbidity 781,973 (51.9%) 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 (W22)



IDSR Proportionate morbidity trends - in relatively stable states



In the relatively stable states, malaria is the top cause of morbidity accounting for 31.9% of the consultations in week 22 (representing an decrease from 36.9% in week21).







Among the IDPs, ARI and malaria accounted for 22.5% and 15.1% of consultations in week 22. The other significant causes of morbidity in the IDPs include AWD, skin diseases, and injuries.



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 is the top course of Morbidity in the country, a total of 781,973 cases with 104 deaths registered since week 1 of 2018. malaria trend for week 22 of 2018 is above 2014, 2015, and 2016 however, it's below the trend for 2017 as shown in the figure 4a, above.

Malaria | Maps and Alert Management



Since the beginning of the year, a total of 58 malaria alerts have been triggered, 35 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 225,904 cases reported since week 1 of 2018 including 9 deaths. AWD trend for week 22 of 2018 is below 2014, 2015 & 2016 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 78, out of which 50 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)

 2016
 Cases
 Deaths
 Alerts

 2015
 2014
 2014

Since week 1 of 2018, a total of 32,882 cases of ABD have been reported country wide including 14 death. ABD trend for week 22 of 2018 is below 2014, 2015, 2016, and 2017 respectively. Refer to figure 6a, above.

Acute Bloody Diarrhoea | Maps and Alert Management



Total of 90 alerts were generated since week 1 of 2018, of which 55 were verified by the county surveillance team. Maps indicating areas triggering alerts since 2014 to 2018 are shown above.



World Health Organization South Sudan Measles | Trends over time

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





have been reported. Of these, 84 suspect cases have undergone measles case-based laboratorybacked 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, 65 alerts of measles were triggered and 50 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 22, 2018, Fourteen (14) new AFP cases were reported from Lakes, Unity, Western Equatoria, Upper Nile, Eastern Equatoria and Warrap hubs. This brings the cumulative total for 2018 to 182 AFP cases.

The annualized non-Polio AFP (NPAFP) rate (cases per 100,000 population children 0-14 years) in 2018 is 5.2 per 100,000 population of children 0-14 years (target \geq 2 per 100,000 children 0-14 years).

Stool adequacy was 85% in 2018, a rate that is higher than the target of \geq 80%.

Environmental surveillance ongoing since May 2017; with 23 samples testing positive for non-polio enterovirus (NPEV) in 2017 and seven (7) NPEV positive sample in 2018.

Source: South Sudan Weekly AFP Bulletin

Viortality in the IDPs

Table 6 | Proportional mortality by cause of death in IDPs W22 2018

Cause of Death by IDP site	Bei	Total deaths			
	<5yrs	≥5yrs			
perinatal death		1	1		
pneumonia		2	2		
Respiratory distress	1		1		
SAM		1	1		
Sepsis		1	1		
TB/HIV/AIDS	1		1		
HIV/AIDS	1		1		
snake bite		1	1		
Unkown	1	1	2		
Hep B + Hepatic failure	1		1		
Shigellosis + Renal Failure	1		1		
Known Chronic Osteomyelitis	1		1		
Mucus aspiration		1	1		
Total deaths	7	8	15		

Among the IDPs, mortality data was received from Bentiu PoC in week 22. (Table 6). **A total of 15** deaths were reported during the week. Bentiu PoC report 15 deaths (100%) in the week. During the week, 7 (47%) deaths were recorded among children <5 years in (Table 6).

The causes of death during week 22 are shown in Table 6.

Mortality in the IDPs - Crude and Under five mortality rates



- The U5MR in all the IDP sites that submitted mortality data in week 22 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 22 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

IDP site	acute watery diarrhoea	cancer	GSW	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	6	1	1	2	1	2	7	3	15	10	1	8	16	8	1	13	7	123	225
Juba 3	1	1			1		6			3		2		1		4	7	33	59
Malakal		1			3	1			1	1							2	17	26
Akobo				1		2	2			2		1	2	1	1			6	18
Wau PoC							1											0	1
Grand Total	7	3	1	3	5	5	16	3	16	16	1	11	18	10	2	17	16	179	329
Proportionate mortality [%]	2%	1%	0%	1%	2%	2%	5%	1%	5%	5%	0%	3%	5%	3%	1%	5%	5%	54%	100%

Table 7 | Mortality by IDP site and cause of death as of W22, 2018

 A total of 329 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.

For more help and support, please contact:

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

Dr. Mathew Tut Moses Director Emergency Preparedness and Response (EPR) Ministry of Health Republic of South Sudan Telephone: +211 922202028

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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











Humanitarian Aid and Civil Protection