South Sudan

Integrated Disease Surveillance and Response (IDSR)

Annexes W15 2019 (Apr 08-Apr 14)

Contents

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 (W15 2019)

Hub	W15	2019
Aweil	9,888	176,064
Bentiu	9,919	301,677
Bor	9,296	147,348
Juba	9,994	267,966
Kwajok	1,908	150,218
Malakal	10,384	266,800
Rumbek	26,793	492,280
Torit	8,512	176,890
Wau	9,148	169,405
Yambio	14,297	213,755
South Sudan	110,139	2,362,337

Number of consultations
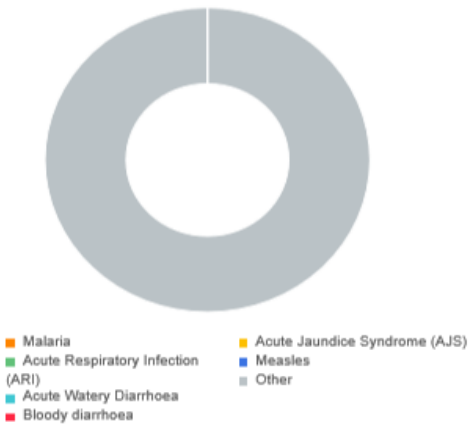
The total consultation in the country for week15 of 2019 is 110,139 and by hub, Rumbek registered the highest number of consultations as indicated in the table above. The total number of consultations by county is shown in the map above. See the key for more information.

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Republic of South Sudan

Proportional mortality

Figure 1 | Proportional mortality (2019)

Syndrome	W15		2019	
	# deaths	% mortality	# deaths	% mortality
Malaria	2	8.7%	1,249	0.0%
ARI	1	4.3%	150	0.0%
AWD	3	13.0%	275	0.0%
Bloody diarrhoea	8	34.8%	145	0.0%
AJS	0	0.0%	74	0.0%
Measles	0	0.0%	46	0.0%
Other	9	39.1%	9,334,217	100.0%
Total deaths	23	100%	9,336,156	100%

Legend:
- Malaria
- Acute Respiratory Infection (ARI)
- Acute Watery Diarrhoea
- Bloody diarrhoea
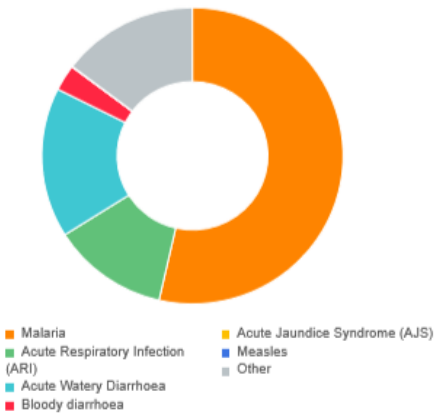- Acute Jaundice Syndrome (AJS)
- Measles
- Other

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Figure 1, above shows the proportional mortality for 2019, with ABD being the main cause of mortality accounting for 34.8% of the deaths for week15 of 2019, followed by Others.

Proportional morbidity

Figure 2 | Proportional morbidity (2019)

Syndrome	W15		2019	
	# cases	% morbidity	# cases	% morbidity
Malaria	24,197	44.2%	649,210	53.6%
ARI	9,580	17.5%	151,282	12.5%
AWD	8,613	15.7%	198,375	16.4%
Bloody diarrhoea	1,587	2.9%	34,273	2.8%
AJS	2	0.0%	123	0.0%
Measles	33	0.1%	603	0.0%
Other	10,782	19.7%	177,973	14.7%
Total cases	54,794	100%	1,211,839	100%

Legend:
- Malaria
- Acute Respiratory Infection (ARI)
- Acute Watery Diarrhoea
- Bloody diarrhoea
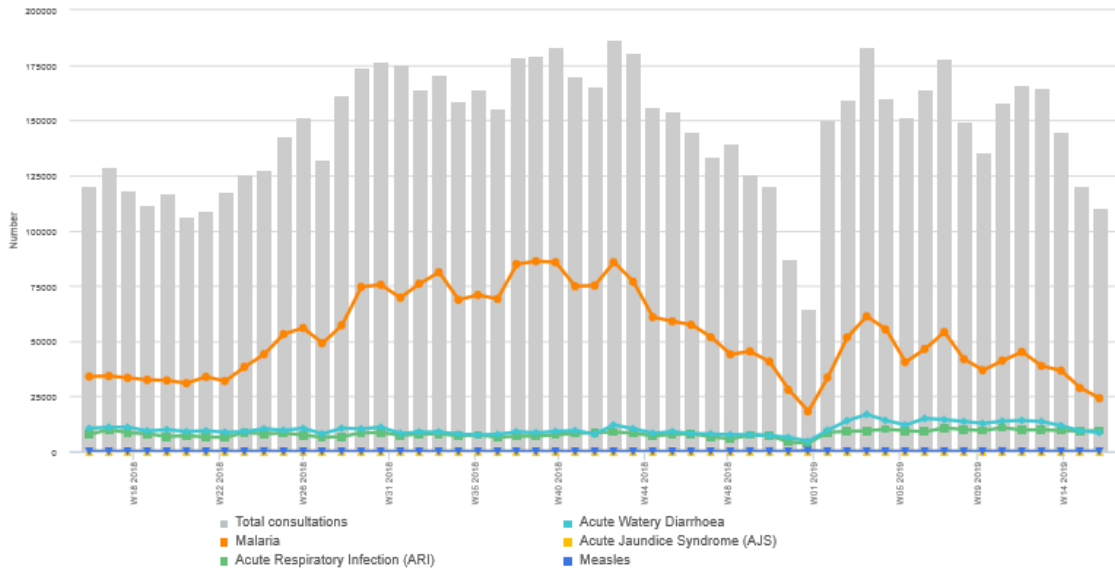- Acute Jaundice Syndrome (AJS)
- Measles
- Other

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Figure 2, indicates the top causes of morbidity in the country, with malaria being the leading cause of morbidity 24,197 (44.2%) followed by Others,ARI and AWD respectively for week 15 of 2019. refer to the figure above for more information.

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Trend in consultations and key diseases

Figure 3 | Trend in total consultations and key diseases (W15)

Legend:
- Total consultations
- Malaria
- Acute Respiratory Infection (ARI)
- Acute Watery Diarrhoea
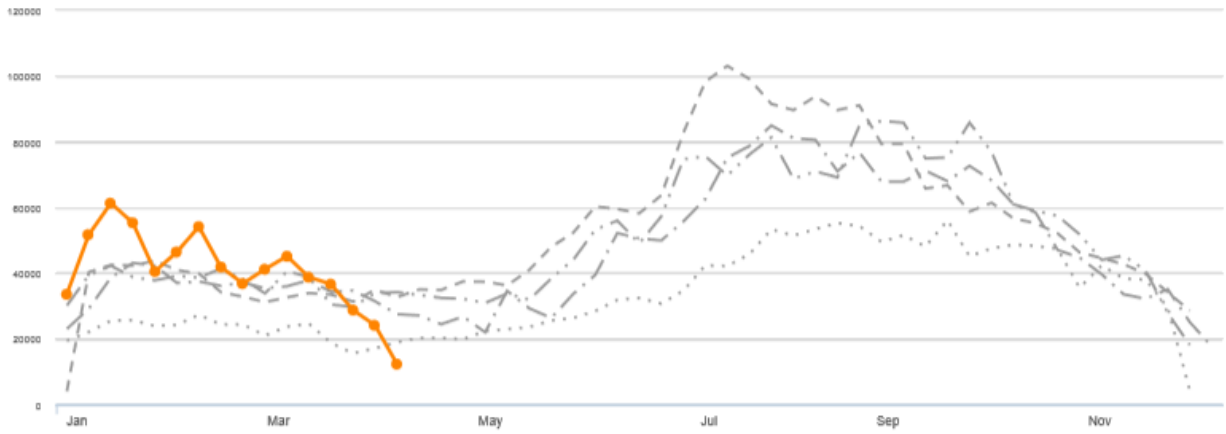- Acute Jaundice Syndrome (AJS)
- Measles

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IDSR Proportionate morbidity trends - in relatively stable states

In the relatively stable states, malaria is the top cause of morbidity accounting for 48.2% of the consultations in week 02.

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Malaria| Trends over time

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

Graph legend	Key malaria indicators (2019)	Figure 4b	% morbidity	Figure 4c	Age breakdown

Graph legend:
- ——— 2019
- —··—··— 2018
- —·—·—·— 2017
- — — — — 2016
- ·········· 2015

Key malaria indicators (2019)

649,210 Cases   **1,249** Deaths   **82** Alerts

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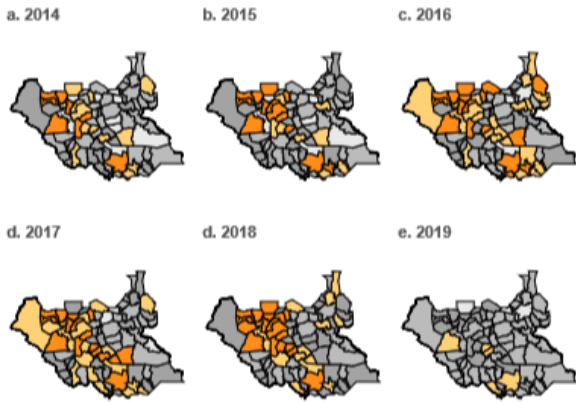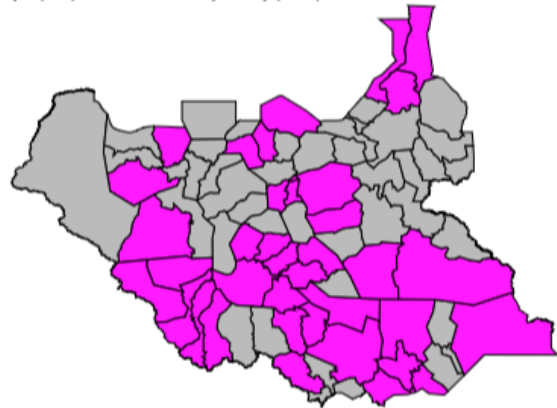
Malaria is the top course of Morbidity in the country, a total of 649,210 cases with 1,249 deaths registered since the beginning of the year of 2019.

Malaria| Maps and Alert Management

Map 2 | Map of malaria cases by county

a. 2014   b. 2015   c. 2016

d. 2017   d. 2018   e. 2019

Map 3 | Map of malaria alerts by county (2019)

Map legend

Number of malaria cases
0   10,000   20,000   80,000

Number of malaria alerts
0   1   10

Alert threshold
Twice the average number of cases over the past 3 weeks. *Source: IDSR*

82 Alerts   **63** Verified

Risk Assessment

1	0	0	0
Low Risk	Moderate Risk	High Risk	Very High Risk

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A total of 82 malaria alerts have been triggered since 2019 began, 63 of those were verified. The Maps above indicate the location reporting malaria alerts from 2014, 2015, 2016, 2017, 2018 and 2019.

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Acute Watery Diarrhoea| Trends over time

Figure 5a | Trend in AWD cases over time (South Sudan)

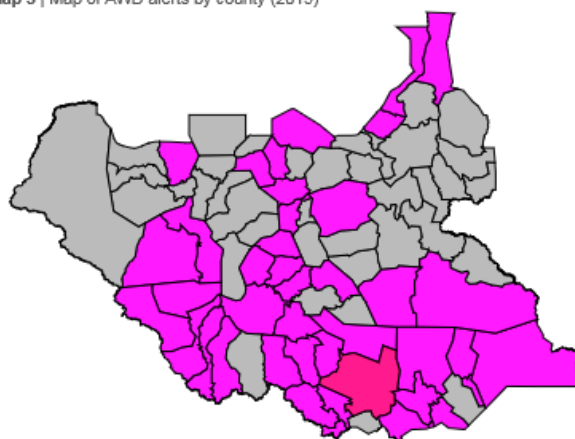| Graph legend | Key AWD indicators (2019) | | | Figure 5b | % morbidity | Figure 5c | Age breakdown |
|---|---|---|---|---|---|
| 2019 | **198,375** | **275** | **110** | | |
| 2018 | Cases | Deaths | Alerts | | |
| 2017 | | | | | |
| 2016 | | | | | |
| 2015 | | | | | |

AWD is one of the top causes of morbidity in the country with198,375 cases reported since the year began including 275 deaths. AWD trend for week 15 of 2019,is below 2015 ,2016 ,2017and 2018, as shown in figure 5a, above.

Acute Watery Diarrhoea| Maps and Alert Management

Map 4 | Map of AWD cases by county (2019)

a. 2014   b. 2015   c. 2016

d. 2017   d. 2018   e. 2019

Map 5 | Map of AWD alerts by county (2019)

Map legend

Number of AWD cases
0   1   5,000   10,000   20,000

Number of AWD alerts
0   1   10

Alert threshold
Twice the average number of cases over the past 3 weeks. *Source: IDSR*

Risk Assessment

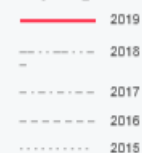| 110	83	1	1	1	0
Alerts	Verified	Low Risk	Moderate Risk	High Risk	Very High Risk

There are 110 alerts of AWD triggered since the year began, in which the 83 were verified. Maps above highlight the areas reporting AWD alerts from 2014 to 2019 .

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

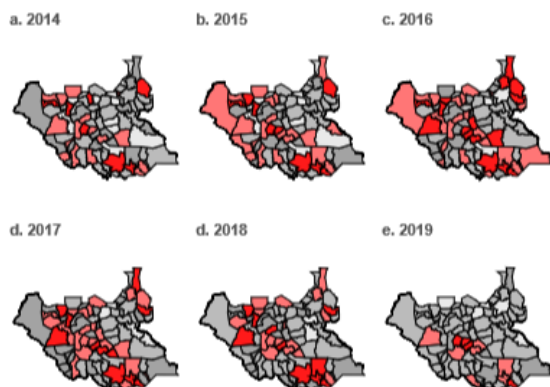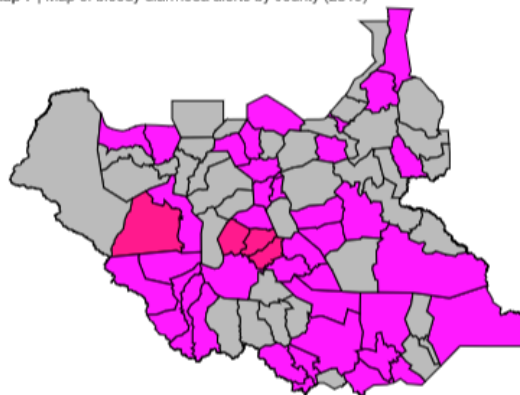| Graph legend | Key bloody diarrhoea indicators (2019) | | | Figure 6b | % morbidity | Figure 6c | Age breakdown |
|---|---|---|---|---|---|
| ———— 2019 | | | | | |
| —·—··—·— 2018 | **34,273** | **145** | **140** | | |
| —·—·—·— 2017 | Cases | Deaths | Alerts | | |
| —————— 2016 | | | | | |
| ············ 2015 | | | | | |

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Since the beginning of 2019, a total of 34,273 cases of ABD have been reported country wide with 145 deaths. ABD trend for 2019 is below 2015, 2016, 2017and 2018 respectively. Refer to figure 6a, above.

Acute Bloody Diarrhoea| Maps and Alert Management

Map 6 | Map of bloody diarrhoea cases by county (2019)

a. 2014   b. 2015   c. 2016

d. 2017   d. 2018   e. 2019

Map 7 | Map of bloody diarrhoea alerts by county (2019)

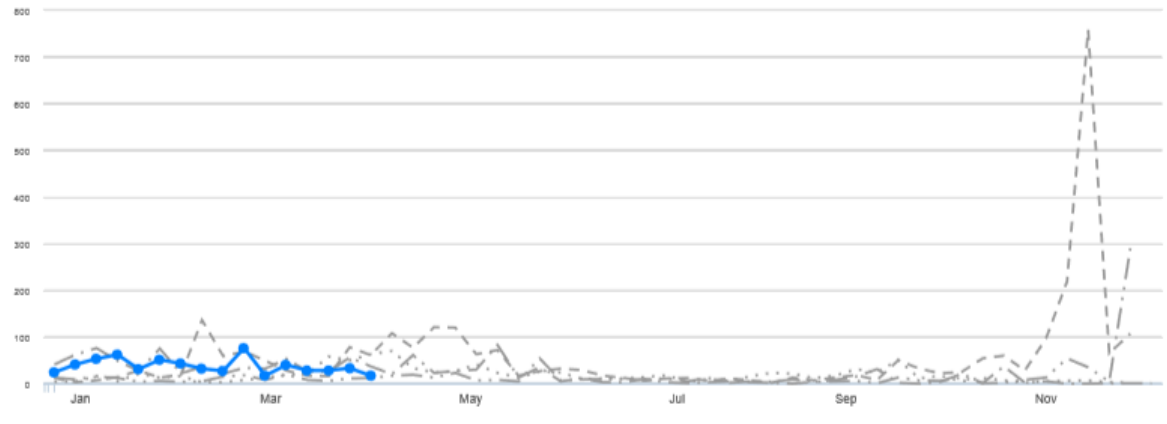| Map legend			Risk Assessment			
Number of bloody diarrhoea cases	**140** Alerts	**110** Verified	**0** Low Risk	**5** Moderate Risk	**1** High Risk	**0** Very High Risk
Number of alerts						
Alert threshold						
Twice the average number of cases over the past 3 weeks. *Source: IDSR*						

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Total of 140 alerts were generated since the beginning of 2019, of which 110 were verified by the county surveillance team. Maps indicating areas triggering alerts since 2014 to 2019 are shown above.

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Measles| Trends over time

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

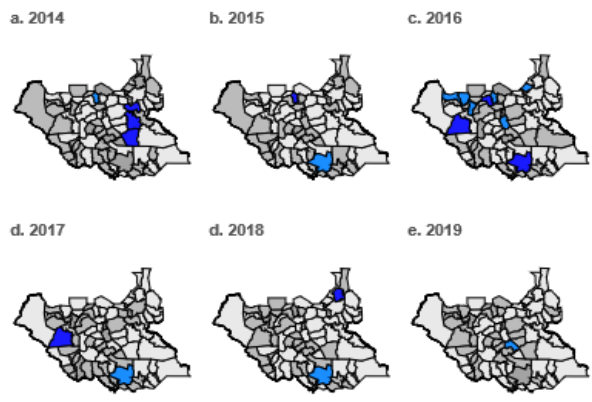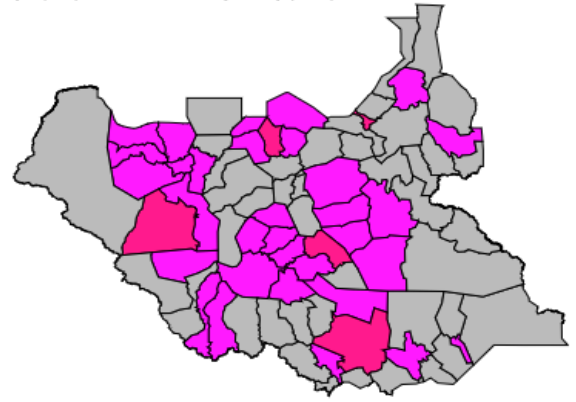| Graph legend | Key measles indicators (2019) | | | Figure 7b | % morbidity | Figure 7c | Age breakdown |
|---|---|---|---|---|---|
| 2019 | | | | | |
| 2018 | **603** | **46** | **184** | | |
| 2017 | Cases | Deaths | Alerts | | |
| 2016 | | | | | |
| 2015 | | | | | |

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Since the beginning of 2019, there are 603 suspect measles cases including 46 death (CFR 7.62%)have been reported.

Measles| Maps and Alert Management

Map 7 | Map of measles cases by county (2019)

a. 2014   b. 2015   c. 2016

d. 2017   d. 2018   e. 2019

Map 8 | Map of measles alerts by county (2019)

Map legend		Risk Assessment			
Number of measles cases	**184** **136**	**9**	**11**	**9**	**0**
Number of measles alerts	Alerts Verified	Low Risk	Moderate Risk	High Risk	Very High Risk
Alert threshold					
1 case. Source: IDSR					

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Since the beginning of 2019, 184 alerts of measles were triggered and 136 were verified at county level. Maps of areas raising alerts from 2014 to 2019 are shown above.

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

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Notes

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