South Sudan

Integrated Disease surveillance and response (IDSR)

Epidemiological Bulletin Week 18 of 2020 (April 27- May 03)
In week 18, 2020 IDSR reporting completeness was 91% and timeliness was 75% at health facility level. EWARN reporting completeness was 96% and timeliness was 84%.

Of the 110 alerts in week 18, 2020; 86% were verified 0% were risk assessed and 0% required a response. Malaria (31), AWD (27), measles (12) and bloody diarrhea (18) were the most frequent alerts in week 18, 2020.

New measles cases confirmed in Wau and Bentiu PoC are being responded to through enhanced surveillance and routine immunization.

A total of 133 COVID-19 alerts have been investigated with 58 being confirmed for COVID-19.
SURVEILLANCE PERFORMANCE

For the Integrated Disease Surveillance (IDSR) network and Early warning alert and response network (EWARN)
The timeliness of IDSR reporting (supported by EWARS mobile) at health facility level was 75% and completeness was 91%. All states were above the target of 80% with highest reporting rate in WES with completeness of 100%.
### IDSR Timeliness & Completeness Performance at County Level for Week 18 of 2020

<table>
<thead>
<tr>
<th>STATE</th>
<th>COUNTY</th>
<th>SUPPORTING PARTNER</th>
<th>Total No. of Functional Health Facilities in the County</th>
<th>No. of HFIs Reported on Time</th>
<th>Timeliness Percentage</th>
<th>No. of HFIs Reported regardless of time</th>
<th>Completeness Percentage</th>
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<tr>
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<tr>
<td>CES</td>
<td>Terekeka</td>
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<td>Kajo Keji</td>
<td>SSUHA/GOAL TRI-SS</td>
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### IDSR timeliness & completeness performance at county level for week 18 of 2020 (2)

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<th>Total No. of Functional Health Facilities in the County</th>
<th>No. of HFs Reported on Time</th>
<th>Timeliness Percentage</th>
<th>No. of HFs Reported regardless of time</th>
<th>Completeness Percentage</th>
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For the second state, the data is as follows:

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<th>Total No. of Functional Health Facilities in the County</th>
<th>No. of HFs Reported on Time</th>
<th>Timeliness Percentage</th>
<th>No. of HFs Reported regardless of time</th>
<th>Completeness Percentage</th>
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Completeness was 96% and timeliness was 76% for weekly reporting in week 16, 2020 for partner-supported clinics serving IDP sites.
EVENT-BASED SURVEILLANCE

Alert management including detection; reporting; verification; risk assessment; & risk characterization
Alert by disease and hubs in week 18 of 2020 [a total of 111 events specific alerts generated by state]

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<th>State</th>
<th>Acute jaundice syndrome</th>
<th>Acute Respiratory Infections (ARI)</th>
<th>Acute Watery Diarrhoea</th>
<th>Bloody Diarrhoea</th>
<th>Malaria (Confirmed)</th>
<th>Measles</th>
<th>Neonatal Tetanus</th>
<th>Yellow Fever</th>
<th>Meningitis</th>
<th>Total alerts</th>
</tr>
</thead>
<tbody>
<tr>
<td>CES</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>EES</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>8</td>
</tr>
<tr>
<td>NBGZ</td>
<td>2</td>
<td>6</td>
<td>7</td>
<td>5</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>22</td>
</tr>
<tr>
<td>Unity</td>
<td>2</td>
<td>2</td>
<td>4</td>
<td>6</td>
<td>5</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td>22</td>
</tr>
<tr>
<td>Upper Nile</td>
<td>5</td>
<td>4</td>
<td>2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>11</td>
</tr>
<tr>
<td>Warrap</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>7</td>
</tr>
<tr>
<td>WBGZ</td>
<td>4</td>
<td>1</td>
<td>4</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>10</td>
</tr>
<tr>
<td>WES</td>
<td>4</td>
<td>3</td>
<td>17</td>
<td></td>
<td>1</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td>26</td>
</tr>
<tr>
<td><strong>Total alerts</strong></td>
<td><strong>2</strong></td>
<td><strong>16</strong></td>
<td><strong>27</strong></td>
<td><strong>18</strong></td>
<td><strong>31</strong></td>
<td><strong>12</strong></td>
<td><strong>2</strong></td>
<td><strong>1</strong></td>
<td><strong>1</strong></td>
<td><strong>110</strong></td>
</tr>
</tbody>
</table>

**During this week:**
- 2 AJS alert: 1 under Monitoring and 1 been responded to
- 16 ARI: 5 are undergoing verification, 11 been monitored.
- 27 AWD alert: 14 undergoing verification, 13 been monitored
- 18 ABD: 12 undergoing verification, 5 been monitored, 1 in response
- 31 Malaria alerts: 10 undergoing verification, 21 under monitoring
- 12 Measles alert: 6 undergoing verification, 6 under monitoring
- 2 Neonatal Tetanus alerts: undergoing verification
- 1 Yellow Fever alert: undergoing verification
- 1 Meningitis alert: both are undergoing verification
Alert: Map of key disease alerts by county of week 18 of 2020

Map 2a | Malaria (W18 2020)
Map 2b | Bloody diarrhoea (W18 2020)

Map 2c | Measles (W18 2020)
There is decrease in the Number of Rumors and Suspects reported in Week 18 Compared to Week 17.
Guinea Worm: Former Counties that reported Rumors, and Suspects during 19th – 25th April 2020 (17th Week) (n=32)

The Reporting Rate for Week 18 Stands at 94%

It’s important to Note that the number of Rumors reported in W18 of 2019 is lower than the Rumors reported in 2020. However there is also Increased in number of Suspects reported in the same week of 2020 compared to 2019.
Major suspected outbreaks in South Sudan in 2020
Malaria was the leading cause of morbidity and mortality, accounting for 43.3% of all morbidities and 21.6% of all mortalities in week 16, 2020.

There is one County with malaria trends that exceeded the threshold (third quartile of trends for the period 2013-2017) and these include the following:

- **Warrap hub (Tonj)**

**Proposed public health actions:**

1. Malaria taskforce of malaria technical working group meeting to ensure that operational readiness for malaria prevention, diagnosis, and treatment are optimized.
2. Field missions to conduct technical verification of the trends in the affected counties.
3. Assessment of current stock levels of malaria diagnostics (RDTs), medicines (ACTs), and LLINs.
4. Stocking up on malaria prevention (LLINs), diagnostics (RDTs), medicines (ACTs), and enhancing behavioral change communication for malaria prevention, prompt investigation and treatment.
ACTIVE OUTBREAKS AND PUBLIC HEALTH EVENTS

Brief epidemiological description and public health response for active outbreaks and public health events
## Summary of major ongoing outbreaks in 2019 and 2020

<table>
<thead>
<tr>
<th>Aetiological agent</th>
<th>Location (county)</th>
<th>Date first reported</th>
<th>New cases since last bulletin</th>
<th>Cumulative cases to date (attack rate %)</th>
<th>Interventions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Case management</td>
</tr>
<tr>
<td>Hepatitis E</td>
<td>Bentiu PoC</td>
<td>03/01/2018</td>
<td>6</td>
<td>297 (0.020)</td>
<td>Yes</td>
</tr>
<tr>
<td>Measles</td>
<td>Bentiu PoC</td>
<td>24/04/2019</td>
<td>1</td>
<td>450 (0.002)</td>
<td>Yes</td>
</tr>
<tr>
<td>Measles</td>
<td>Aweil East</td>
<td>29/12/2019</td>
<td>17</td>
<td>664 (0.127)</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Measles outbreaks confirmed in 2020

- **5 counties** – Tonj East, Magwi, Bor, Kapoeta East and Tonj South
- **Locations with ongoing measles transmission**
  - Aweil East
  - Bentiu PoC
- **New confirmed outbreak**
  - Confirmed measles cases in Wau
  - Bentiu PoC
<table>
<thead>
<tr>
<th>S/N</th>
<th>County</th>
<th>Population</th>
<th>Confirmed cases</th>
<th>Probable cases</th>
<th>Total cases</th>
<th>Cases per 100,000</th>
<th>Total deaths</th>
<th>CFR %</th>
<th>Date first reported</th>
<th>Emergency Campaign</th>
<th>Admin Coverage</th>
<th>Implementing Partner</th>
<th>Status</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tonj East</td>
<td>183,233</td>
<td>13</td>
<td>48</td>
<td>61</td>
<td>33.3</td>
<td>0</td>
<td>0</td>
<td>12-Dec-19</td>
<td>Mass Campaign</td>
<td>Pending result</td>
<td>Mass Campaign</td>
<td>controlled</td>
<td>Mass Campaign Completed</td>
</tr>
<tr>
<td>2</td>
<td>Magwi</td>
<td>272,880</td>
<td>5</td>
<td>5</td>
<td>10</td>
<td>3.7</td>
<td>0</td>
<td>0</td>
<td>19-Sep-19</td>
<td>Mass Campaign</td>
<td>Pending result</td>
<td>Mass Campaign</td>
<td>controlled</td>
<td>Mass Campaign Completed</td>
</tr>
<tr>
<td>3</td>
<td>Bor</td>
<td>320,956</td>
<td>7</td>
<td>7</td>
<td>14</td>
<td>4.36</td>
<td>0</td>
<td>0</td>
<td>17-Jan-19</td>
<td>Mass Campaign</td>
<td>115.60%</td>
<td>Mass Campaign</td>
<td>controlled</td>
<td>Mass Campaign Completed</td>
</tr>
<tr>
<td>4</td>
<td>Kapoeta East</td>
<td>262,720</td>
<td>6</td>
<td>10</td>
<td>16</td>
<td>6.1</td>
<td>0</td>
<td>0</td>
<td>18-Jan-20</td>
<td>Reactive Campaign (Jebel Boma)</td>
<td>Reactive Campaign to start on 26 Feb 2020</td>
<td>IRC</td>
<td>active</td>
<td>Reactive Campaign completed in March 2020</td>
</tr>
<tr>
<td>5</td>
<td>Aweil East</td>
<td>519,537</td>
<td>16</td>
<td>195</td>
<td>316</td>
<td>39.4</td>
<td>0</td>
<td>0</td>
<td>2-Jan-20</td>
<td>Mass Campaign</td>
<td>Pending result</td>
<td>Mass Campaign</td>
<td>active</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Bentiu Poc</td>
<td>115,479</td>
<td>440</td>
<td>83</td>
<td>2</td>
<td>2</td>
<td>1-Jan-19</td>
<td>126%</td>
<td>IOM</td>
<td>Active</td>
<td></td>
<td></td>
<td>Active</td>
<td>Reactive campaign 20 Jan 2020</td>
</tr>
<tr>
<td>7</td>
<td>Wau</td>
<td>271,975</td>
<td>3</td>
<td>0</td>
<td>22</td>
<td>8.1</td>
<td>0</td>
<td>0</td>
<td>14 Jan-20</td>
<td>Enhanced routine immunization</td>
<td>N/A</td>
<td>Active</td>
<td>Enhanced surveillance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Total</td>
<td>1,427,243</td>
<td>50</td>
<td>265</td>
<td>879</td>
<td>61.6</td>
<td>2</td>
<td>0.23</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Descriptive Epidemiology:
- Initial cases were reported on 2nd Jan 2020
- A total of 316 suspected measles cases have been line listed in Aweil East county
- Majority of the cases were from Baac and Mangartong payams
- 17 new cases were reported in week 17, 2020
- (160) 51% of the cases are less than 5 years of age
- Male were 56% of cases and female were 44%

Response Recommendation:
- Reactive campaign was finalized in Aweil East on 24th January 2020 by SMoH and IOM, coverage was 119% and PCE coverage was 91.5%. Plans is ongoing for second reactive campaign.
- SMoH; WHO; Unicef; IPs at the state level to develop and cost a reactive measles vaccination micro plan targeting the most affected payams (Baac & Mangartong) and their surrounding payams in Aweil East (the micro plan should be shared by Friday 8 May 2020).
- The campaign to target children under five years of age since they are more vulnerable to death from measles.
- The MoH and IPs to strengthen routine immunization including outreaches in the other payams that will not be targeted as part of the reactive campaign.
- Measles case management to continue for all cases identified at the health facilities (see attached guidelines).
Confirmed Measles Outbreak in Bentiu PoC

**Epidemiological description**
- Bentiu PoC has been reporting suspected measles/rubella cases since week 4 of 2019.
- 1 new case reported in week 19, 2020
- At least 450 measles cases including 1 death (CFR 0.23%) reported since then.
- Cumulatively, 36 tested cases have tested measles IgM positive while 15 tested rubella IgM positive.
- 48% of cases are female and 52% are male
- 95% are under 5 yrs old, 5% are 5 yrs old and above
- Cases have been reported from inside and outside the PoC with most of the cases originating from the PoC (most cases from sector 5 but generally all the sectors are affected).

**Response actions**
- Several rounds of reactive campaigns were conducted in Bentiu PoC:
  - IOM completed a reactive campaign in Bentiu POC on 31 May 2019, with 21,285 children 6-59 months and coverage of 126% receiving measles vaccination. PCE was done by MoH & WHO, coverage was 74.6%.
  - Another campaign was conducted by SMOH, IOM and partners which was completed during the week of 20th January 2020 with coverage of 126%.
  - Partners advised to collect samples from suspect cases.
Response | Confirmed epidemics

Hepatitis E, Bentiu PoC (1)

Descriptive epidemiology

- The persistent transmission of HEV in Bentiu PoC continues with 297 cases since beginning of 2019
- There were (6) new cases reported in week 19, 2020
- All the cases were managed as outpatient cases except for seven cases who were admitted
- Two deaths one on 12th, April 2019 and the second on 11th July 2019
- 50% are female and 50% are male.
- Age group less than 15 years had the most cases with (75%) cases.
- At risk of adverse outcomes when infected in the 3rd trimester of pregnancy
- Use of unsafe drinking water likely to be source of infection
- Up to week 19, 2020; there were 297 cases of HEV in Bentiu PoC including 2 deaths (CFR 0.72%)

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Alive</th>
<th>Dead</th>
<th>Grand Total</th>
<th>Percentage</th>
<th>CFR</th>
<th>Cum. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-4 Years</td>
<td>102</td>
<td>1</td>
<td>103</td>
<td>34%</td>
<td>0%</td>
<td>34%</td>
</tr>
<tr>
<td>5-9 Years</td>
<td>74</td>
<td>1</td>
<td>75</td>
<td>25%</td>
<td>1%</td>
<td>100%</td>
</tr>
<tr>
<td>10-14 Years</td>
<td>48</td>
<td>48</td>
<td>96</td>
<td>16%</td>
<td>0%</td>
<td>51%</td>
</tr>
<tr>
<td>15+ Years</td>
<td>70</td>
<td>2</td>
<td>72</td>
<td>24%</td>
<td>3%</td>
<td>75%</td>
</tr>
</tbody>
</table>

Grand Total 294 3 297 100% 0.01
Recommendations

- Supportive case management guided by the HEV protocol is ongoing.

- KEV messages on HEV prevention should continue within the community through HPs, CHWs and Kondial Radio.

- With current COVID-19 Pandemic Outbreak, WASH partners to increase the coverage of hand washing facilities within the PoCs community.

- Other Wash intervention like increasing the access for clean water and improving the water storage in the affected individuals should be made urgently by distributing the water storage containers that will be the only way to mitigate this problem and stop the HEV outbreak.

- The WASH Cluster/HEV task force should engage in group discussion with Community leaders and woman group at water distribution points to understand their opinions on issue of Collapsing Jerrycans distribution.

- Monitoring the FRC levels at the taps stands in the different sectors, and the concentration of chlorination should maintain at 0.5-1mg/L as the point of collection.
## Response | Summary of major controlled outbreaks in 2019 and 2020

<table>
<thead>
<tr>
<th>Aetiological agent</th>
<th>Location (county)</th>
<th>Date first reported</th>
<th>New cases since last bulletin</th>
<th>Cumulative cases to date (attack rate %)</th>
<th>Interventions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Measles</td>
<td>Juba</td>
<td>21/11/2019</td>
<td>NR</td>
<td>6 (0.1667)</td>
<td>Yes No Yes N/A</td>
</tr>
<tr>
<td>Measles</td>
<td>Tonj East</td>
<td>12/12/2019</td>
<td>NR</td>
<td>61 (0.98)</td>
<td>Yes Yes Yes N/A</td>
</tr>
<tr>
<td>Measles</td>
<td>Bor</td>
<td>17/01/2020</td>
<td>NR</td>
<td>14 (0.214)</td>
<td>Yes No yes N/A</td>
</tr>
<tr>
<td>Measles</td>
<td>Jebel Boma</td>
<td>10/12/2019</td>
<td>NR</td>
<td>96 (0.063)</td>
<td>Yes No Yes N/A</td>
</tr>
<tr>
<td>Measles</td>
<td>Kapoeta East</td>
<td>18/01/2020</td>
<td>NR</td>
<td>16 (0.625)</td>
<td>Yes No Yes N/A</td>
</tr>
</tbody>
</table>
Brief on the Ebola situation in DR Congo and updates on EVD preparedness in South Sudan
Ebola update DRC 5th May 2020

Current situation
- Currently as of 3th May 2020
- 3462 Cases [3319 confirmed & 143 probable]
- 2279 Deaths [2185 confirmed & 94 probable]

Response update
- From 27 April to 3 May 2020, one new confirmed case of Ebola virus disease (EVD) was reported in the Democratic Republic of the Congo
Novel Coronavirus
# Novel Corona Virus Situation Summary

**Situation update as of 7th May, 2020**

## Situation in numbers (by WHO Region)

<table>
<thead>
<tr>
<th>Region</th>
<th>Total (new cases in last 24 hours)</th>
<th>Deaths (new deaths)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Globally</strong></td>
<td>3 588 773 cases (71 463)</td>
<td>247 503 deaths (4102)</td>
</tr>
<tr>
<td><strong>Africa</strong></td>
<td>33 973 cases (1403)</td>
<td>1202 deaths (90)</td>
</tr>
<tr>
<td><strong>Americas</strong></td>
<td>1 507 148 cases (29 701)</td>
<td>81 070 deaths (1480)</td>
</tr>
<tr>
<td><strong>Eastern Mediterranean</strong></td>
<td>221 230 cases (7854)</td>
<td>8290 deaths (175)</td>
</tr>
<tr>
<td><strong>Europe</strong></td>
<td>1 593 828 cases (27 179)</td>
<td>147 780 deaths (2178)</td>
</tr>
<tr>
<td><strong>South-East Asia</strong></td>
<td>76 998 cases (4310)</td>
<td>2821 deaths (139)</td>
</tr>
<tr>
<td><strong>Western Pacific</strong></td>
<td>154 884 cases (1016)</td>
<td>6327 deaths (40)</td>
</tr>
</tbody>
</table>

[WHO: https://www.who.int/health-topics/coronavirus](https://www.who.int/health-topics/coronavirus)
COVID-19 Response in South Sudan

- 58 confirmed COVID-19 cases in South Sudan; 57 in Juba and 01 in Torit; with 299 contacts identified, quarantined, & undergoing follow up

- Active surveillance is ongoing to determine if there is active transmission in Juba and surrounding areas.

- The ILI/SARI sentinel sites have been expanded from 10 to 45 in Juba

- Implementation of priorities; risk communication; active case search and testing; quarantine for contacts; infection prevention and control; and management of cases are currently underway

- The overall response currently led by the COVID-19 high level taskforce and the COVID-19 steering committee
COVID-19 cases increasing exponentially in the past 10 days
The majority of the cases have been reported in Juba; one case in Torit; while the rest have been imported (involving truckdrivers from the neighboring countries)
Overall Conclusions and Recommendations
The overall IDSR and EWARN reporting performance in week 18, is above the target of 80%. All 10 states were above 80%.

174 COVID-19 cases confirmed and isolated in Juba, Yei, Abyei, Nyirol, Rubkona and Torit. A total of 529 contacts identified, quarantined and under follow up.

Cumulative total of alerts is 237, of these, 219 (92%) have been verified and samples were collected.

With five outbreaks confirmed in 2020; measles remains the most frequent vaccine preventable disease.

There are ongoing measles outbreaks in Wau; Bentiu PoC and Aweil East.

Given the COVID-19 pandemic, it is critical that measures are stepped up to contain its spread.
Recommendations

- All partners should support CHDs & HF in Upper Nile and other states to improve IDSR/EWARN reporting.

- Measles SIAs, routine immunization, surveillance & case management recommended in response to cases in Wau; Aweil East; & Bentiu PoC.

- Strengthen capacities for COVID-19 containment through identifying and testing suspect cases, isolating confirmed cases, and quarantining contacts.
Thanks to the State Surveillance Officers, County Surveillance Officers and Health Facility in-charges for sharing the weekly IDSR data

Thanks to all partners for supporting IDSR weekly reporting and sharing the line lists

To access the IDSR bulletins for 2020 use the link below:

https://www.afro.who.int/publications/south-sudan-weekly-disease-surveillance-bulletin-2020
This bulletin is produced by the Ministry of Health with Technical support from WHO

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Notes
WHO and the Ministry of Health gratefully acknowledge the surveillance officers [at state, county, and health facility levels], 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