Republic of South Sudan

Situation Report #81 on Cholera in South Sudan
As at 23:59 Hours, 10 September 2015

Situation Update
Today, four cholera cases have been reported from Northern Bari payam [Rumbaro (2); Lockvilili (1), Gudele (1)] in Juba County.

As of 10 September 2015, a total of 1,739 cholera cases including 46 deaths (CFR 2.65%) have been reported in Juba and Bor Counties. Of the 46 deaths (27 facilities and 19 communities), 11 (24%) occurred in children under five years.

In Juba County, a total of 1601 cholera cases including 45 deaths (CFR 2.81%) have been reported from seven Payams. In Bor, 138 cases including one death (CFR 0.72 %) have been reported from Malou in Makuach Payam and other areas within the County. (Tables 1 and 2).

Table 1. Summary of cholera cases reported in Juba and Bor Counties, 18 May – 10 September, 2015

<table>
<thead>
<tr>
<th>Reporting Sites</th>
<th>New admissions</th>
<th>New discharges</th>
<th>New deaths</th>
<th>Total cases currently admitted</th>
<th>LAMA*</th>
<th>Total facility deaths</th>
<th>Total community deaths</th>
<th>Total deaths</th>
<th>Total cases discharged</th>
<th>Total cases</th>
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<tbody>
<tr>
<td>CES – Juba County</td>
<td>4</td>
<td>4</td>
<td>0</td>
<td>218</td>
<td>26</td>
<td>19</td>
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<td>Juba Teaching Hospital</td>
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<td>214</td>
<td>22</td>
<td>8</td>
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<td>Other sites in Juba</td>
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<td>Jonglei State – Bor</td>
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<td>134</td>
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</tr>
<tr>
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<td>3</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>134</td>
<td>138</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>4</strong></td>
<td><strong>4</strong></td>
<td><strong>0</strong></td>
<td><strong>221</strong></td>
<td><strong>27</strong></td>
<td><strong>19</strong></td>
<td><strong>46</strong></td>
<td><strong>1471</strong></td>
<td><strong>1739</strong></td>
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</tr>
</tbody>
</table>

* LAMA: LEAVE AGAINST MEDICAL ADVICE; CES: Central Equatoria State

During week 37 of 2015 (week of 7-13 September 2015), majority of new cholera cases originated from Northern Bari (8) Payam (Figures 1).

Figure 1: Cholera cases by residence in week 37 of 2015, Juba and Bor Counties, 7-10 Sept 2015
As of 10 September 2015, of the seven affected payams in Juba County, majority of cases originated from Northern Bari, Munuki, Rejaf, Kator and Juba. In Bor County, the majority of cases originated from Malou, Langbar, Achingdii, Arek, and Hai Salam in Makuach Payam. (Figures 3 and 4).
Figure 3: Spot map for cholera cases by residence in Juba, 18 May 2015 - 10 September 2015

Figure 4: Spot map for cholera cases by residence in Bor, 26 June 2015 - 10 September 2015

Few cases have unknown place of residence in Bor County, hence 121 reported in the Map instead of 138
Though all age groups have been affected, in Juba County majority of cases occurred among children under 10 years and those aged 20-34 years. In Bor County children under 10 years are the most affected. (Figures 5 and 6).

**Figure 5: Cholera case distribution by age in Juba County, 18 May - 10 September 2015**

**Figure 6: Cholera case distribution by age in Bor County, 18 May - 10 September 2015**

*There are missing information in sex and age

The probable risk factors fueling transmission include: residing in a crowded IDP camp with poor sanitation and hygiene; using untreated water from the Water tankers; lack of household chlorination of drinking water; eating food from unregulated roadside food vendors or makeshift markets; open defecation/poor latrine use; and attending/eating food at a funeral.

**Laboratory updates**

Of the 139 specimens received from six states and cultured at National Public Health Laboratory in Juba

- **43 (30.9%)** specimens were confirmed positive for *Vibrio cholera* Inaba group, 01 serotype
- **89 (84%)** were negative
- **3 (2.2%)** specimens results are still pending
- **4 (2.9%)** rejected may be due to use of inappropriate sample container
Of the 56 specimen tested positive for RDT
- 19 (33.9%) were positive by culture
- 37 (66.1%) were negative which could be due to improper specimen collection (specimen reaching the lab when it has dried) or administration of antibiotics before

Currently, neither antibiotic sensitivity testing nor isolation of other enteric bacteria done in the National Public Health Reference Laboratory in Juba. Specimens are sent to AMEREF in Uganda with support from WHO.

**Planned and On-going Activities**
1. The next national cholera taskforce meeting is scheduled for Monday 14 September 2015 at 10:00 am in the MoH Ministerial Boardroom.
2. The next cholera coordination meeting in UN House PoC is scheduled for 17 September 2015 at 11:30 am in the RRP Boardroom.
3. MOH National level, MOH CES and WHO epidemiology teams are conducting support and supervision visit to the CTCs, CTU and ORPs in Juba County.

Many thanks to the staff at CTCs, MoH at national level and state levels, especially the Department of IDSR, who have helped to gather the information presented here. Situation Reports are posted on the WHO website: [http://www.who.int/hac/crises/ssd/en/] as well as on the Humanitarian Info webpage: [http://southsudan.humanitarianresponse.info/clusters/health](http://southsudan.humanitarianresponse.info/clusters/health).

The MoH/WHO surveillance team welcomes feedback and data provided by individual agencies. Given the fast evolving nature of this epidemic, errors and omissions are inevitable; we will be grateful for any information that helps to rectify these. Send any comments and feedback to: E-mail: outbreak_ss_2007@yahoo.com, The Toll free numbers for alerts are: Zain: 0912000098

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