



# South Sudan: Cholera Outbreak Situation Report

**Situation report: No. 22**

**Date of onset of outbreak: 22 February 2023**

**Reporting date: 30 March 2023**

**Data Source: State Ministry of Health and National Public Health Laboratory**

## Cholera response | Cumulative figures from 22 February to 30 March 2023

**608**

Cases

**2**

Death

**0.33%**

CFR

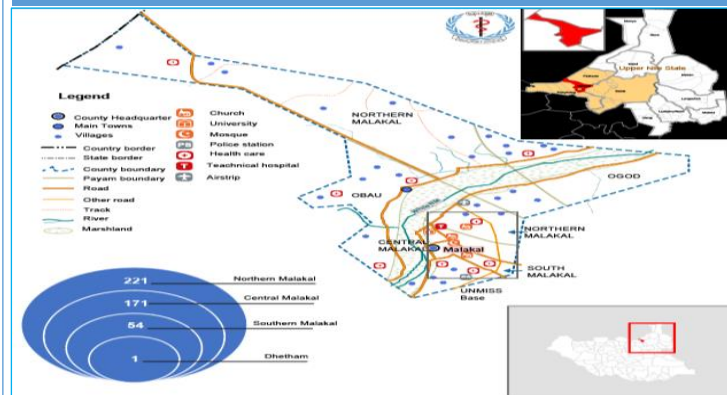
**3**

Grade

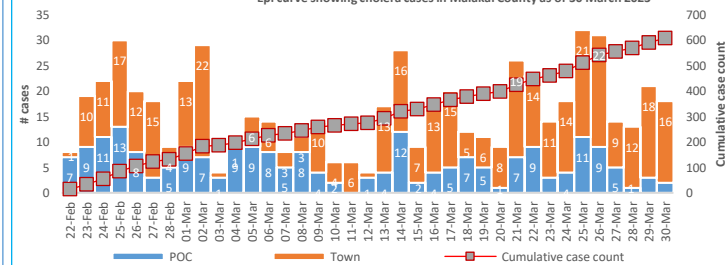
### Key Weekly Highlights as of 30 March 2023

- Eighteen (18) new cholera cases have been reported in the last 24 hrs.
- Zero new death recorded in the past 24 hours.
- Cumulatively, a total of 608 cholera cases and 2 deaths (CFR- 0.33%) has been recorded since the onset of the outbreak.
- Overall, 331 (54%) of the cases are males and 277(46%) are females.
- Children of age 1 - 4 years old are the most affected accounting for 334 (55%) of the total cases reported followed by <1 years old 197 (32%).
- Oral Cholera vaccination campaign commenced on 16 March 2023 targeting 53,000 individuals aged 1 year and above in the PoC and Malakal town.
- Cumulatively, 54,538 people have been vaccinated (Malakal town and PoC) with OCV achieving 82% coverage
- The current cholera outbreak is localized in Malakal Upper Nile State on the side boarding Sudan.

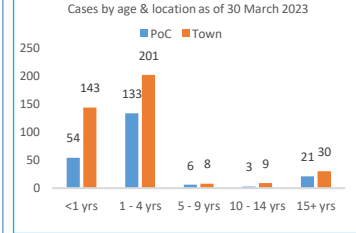
Cholera affected areas, Malakal County, Upper Nile State, South Sudan



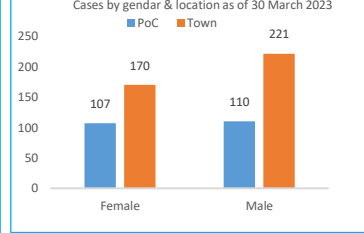
Epi curve showing cholera cases in Malakal County as of 30 March 2023



Cases by age & location as of 30 March 2023



Cases by gender & location as of 30 March 2023



<sup>1</sup> Some data were missing for day 13 and 14 March 2023 respectively. This was updated into the line-list, hence the reason for the change in the epi-curve and the cumulative number



## Key Interventions

---

### Coordination

- National and State Cholera Taskforce continue to meet regularly to provide operational and strategic guidance to the ongoing cholera outbreak response.
- Coordination meeting with MOH, WHO and partners to provide technical support to the response activities.
- Daily information sharing with the high-level cholera taskforce led by the state minister of health
- A multisectoral National and State RRT continue to provide epidemiological investigation and technical support to the response interventions in Malakal County.

### Surveillance and reporting

- WHO and partners continue to update and support data verification, harmonization, and analysis across the response pillars.
- With technical support from WHO, a joint active case search is being conducted by both National and State RRT teams at health facility and community levels in Malakal County.
- Surveillance activities are being heightened in at-risk counties bordering Malakal in Upper Nile State.

### Case management

- Four (04) new case admitted in the CTU, and seventeen (17) cases were discharged.
- Nine (9) oral rehydration points (ORPs) have been established (7 Supported by IMC and 2 by IOM), a total of 121 cases were treated in the ORPs and discharged within 4 hours.
- MSF is supporting case management at the CTU in Malakal town and POC.
- A technical team consisting of MOH and WHO Country Office has been deployed to Malakal to support ongoing response.
- The state ministry of health with support IMC continue to conduct triage in health facilities for cholera and referring cases to Malakal Teaching Hospital.
- The SMOH with support from WHO and partners continue to set up handwashing facilities at established ORP sites in the affected areas.
- The SMOH with support from WHO continue to preposition standardized Case Management charts and cholera Case Definition to CTUs (HFs, and ORPs and CTUs/CTCs).



## Infection Prevention & Control/WASH

- Water quality Test conducted at health facilities, water points and households. Results shows 67.5% of the 40 samples collected from the households is negative of coliform and 32.5% of the 40 samples from households were positive for coliform
- Total of 340.8 m<sup>3</sup> of liquid waste and 178.9 m<sup>3</sup> of garbage collected were safely disposed respectively in the Waste Stabilization Ponds and the Dumping area
- IOM continues to operate and maintain the 748 latrine stances regularly, including disinfection with chlorine (concentration: 0.5%). Noted that the number of functioning latrines reduced due to the lack of spaces. IOM will continue engaging with community leaders on identifying available spaces for new construction.
- Maintenance of FRC in SWAT systems at a level at 0.4-0.5mg/l at Taps stands across 6 water points.
- General WASH NFI Distribution of WASH NFIs which started from 24<sup>th</sup> March is ongoing, A total of 4,093 kits provided to 4,093 households benefitted to 15,212 individuals (2862 men, 4041 women, 4,369 boys, 3,940 girls).

## Risk Communication & Community Engagement (RCCE)

- Community radio talk shows and jingles spots are ongoing.
- UNICEF distributed 30 Banners and Poster in strategic institutional locations, water points and parts of the markets.
- RCCE TWG developed a communication plan to guide the implementation of targeted communication activities aimed at changing hygiene behavior and practices for the prevention and control of cholera.
- SSRC has assigned 10 Social mobilizers volunteers in Malakal & POCs in different 5 locations.
- Ongoing daily Hygiene promotion activities on key cholera messages (causes, symptoms, and prevention measures), and airing of pre-recorded cholera preventive measures (Nile FM Radio).

## Laboratory

- Ninety six (96) samples have been tested on RDT since the onset of the outbreak with seventeen (17) samples testing positive on RDT and seventy nine (79) testing negative.
- Cumulatively, sixty seven (67) samples have been cultured at both NPHL (22) and Malakal teaching hospital (45). Four (04) isolates non O1 and non O139 have been shipped to NICD South Africa for further confirmation.
- Three (03) lab technicians (1 from NPHL and 2 from WHO) have been deployed to support sample collection and management in Malakal.
- Ongoing support to the laboratory capacity of partners (MSF, IOM, and IMC) to conduct RDT for cholera cases.



## Oral Cholera Vaccination (OCV)

- The oral cholera vaccination campaign was officially launched on 16 March 2023.
- Some 54,538 people have been vaccinated both in the POC and Malakal town with a coverage of 82 % achieved so far.
- WHO supported the MOH in delivering 2000 OCV doses to Warjwok PHCC & Wau Shilluk PHCC where they also conducted supportive supervision of the vaccination exercise.
- WHO submitted a new request of 200,000 doses of OCV to the International Coordination Group (ICG) for additional oral cholera vaccines.

## Logistics and supplies

- WHO hired 2 additional vehicles to support response activities in Malakal.
- WHO is dispatching 1 x 48sqm and 1 x 24sqm medical tents to Malakal to support the ongoing Cholera response.

## Challenges

- Inadequate access to safe and clean water due to limited WASH supplies.
- Sub-optimal risk communication and community engagement in cholera affected high-risk locations.
- Inadequate RDT testing of suspected cholera cases at the subnational level, most especially, in health facilities and treatment centers.
- Inadequate funding for partners to respond to the cholera outbreak in Malakal.
- Lack of designated ambulance to facilitate referral of cholera cases and designated vehicle for the safe dignified burial (SDB) team.
- Identification of personnel to be trained safe and dignified burial (SDB).
- Overcrowding in the POC due to the continued influx of IDPs poses is a major challenge to the limited WASH facilities in the POC.
- Case management charts are in English making it difficult for healthcare workers who only understand Arabic

## Way forward

- Four (04) isolates of Cholerae probable non O1 & non O139, packaged and to be shipped to NICD - S. Africa for further testing.
- Translation of case management charts into Arabic language to facilitate easy understanding by healthcare workers.
- Provision of adequate clean and safe water, especially in the cholera outbreak and high-risk locations.



- Enhance cholera RDT testing of suspected cholera cases at health facilities and treatment centers and strengthen the capacity of Malakal Hospital to perform culture and sensitivity of stool samples
- Accelerate RCCE interventions at POC and Malakal town.
- Finalize the cholera response plan and budget for resource mobilization.
- Provide a designated ambulance to support the referral of cholera cases.
- Identify and train safe and dignified burial (SDB) teams.
- Training of mobile sanitation community committee on basic sanitation topics and messages prior to general clean-up campaign to maintain clean environment.
- Coordination with MSF on WASH NFI distribution targeting the affected cases after discharge.

Table 1: Implementing partners by pillar

PILLAR	PARTNER SUPPORTING
Coordination	WHO/OCHA
Surveillance	WHO, MSF, IMC & IOM
Case Management	MSF, IMC, IOM, WHO
Water, sanitation, and hygiene (WASH)	IOM, ICRC, WVI, UNICEF, WHO
Infection prevention & control and Safe and dignified burial	WHO, MSF, DRC, IOM, SSRC
Risk communication and Community Engagement (RCCE)	UNICEF, IOM/CCCM, SSRC, DRC, WHO
Port of Entry (PoE)	IOM/DTM, WHO
Oral cholera vaccine (OCV)	WHO, IMC, MSF- Spain, UNICEF, IOM

**For more information, please contact:**

Dr. John Rumunu  
Incident Manager  
E: [ori.moiga@gmail.com](mailto:ori.moiga@gmail.com)  
P: +211 924 767 490

Dr. Joseph Lasu  
Emergency Preparedness &  
Response Director  
E: [josh2013.lasu@gmail.com](mailto:josh2013.lasu@gmail.com)  
P: +211 921 395 440

South Sudan PHEOC  
E: [sspheoc@gmail.com](mailto:sspheoc@gmail.com)  
P: +211 925 851 662/  
+211 917 235 355

Dr BATEGEREZA, Aggrey Kaijuka  
WHO-EPR Team Lead  
E: [bategerezaa@who.int](mailto:bategerezaa@who.int)  
P: +211 924222030

**Editorial team:**

**MOH:** Dr John Rumunu & Dr Joseph Lasu

**WHO:** Dr. Bategereza Aggrey, Dr. Moses Ongom, Dr. Mukesh Prajapati, Dr Antonio Oke, Dr Abraham Adut, Dr Mustafa Lasu, Dr Kwuakuan Yealue, Ms Sheila Baya, Malick Gai, Bernard Oduor and Lawrence Mukombo

