

# Post-Antimalaria Mass Drug Administration (MDA) coverage survey, Twic County, Warrap State, South Sudan. November 2024

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## BACKGROUND

- Despite efforts by the Ministry of Health (MoH), Médecins Sans Frontières (MSF) and other health partners to reduce the disease burden and transmission through preventive measures such as insecticide-treated bed nets (ITNs) and community activities, malaria remained a major cause of morbidity in Twic County, Warrap State.
- In collaboration with the MoH, MSF conducted three rounds of an MDA campaign in 2023 in selected IDP camps in Twic County, and four rounds in 2024, targeting the peak malaria season and children aged 3 months to 15 years who reside in IDP camps in Twic County, Warrap State.
- Post MDA coverage survey was conducted with aims to estimated coverage of the MDA campaigns, drug adherence and the acceptance of the MDA drugs

## OBJECTIVES

### Overall Objective:

- To assess the coverage and acceptance of the Mass Drug Administration (MDA) campaign among children aged 3 months to 15 years living in IDP camps in Twic County, South Sudan in 2024.

### Specific objectives:

- To estimate coverage of each round of the MDA campaign
- To estimate the number of children who experienced an adverse effect within 24 hours of taking the MDA drugs.
- To assess the use of mosquito nets as a preventive measure among IDPs.

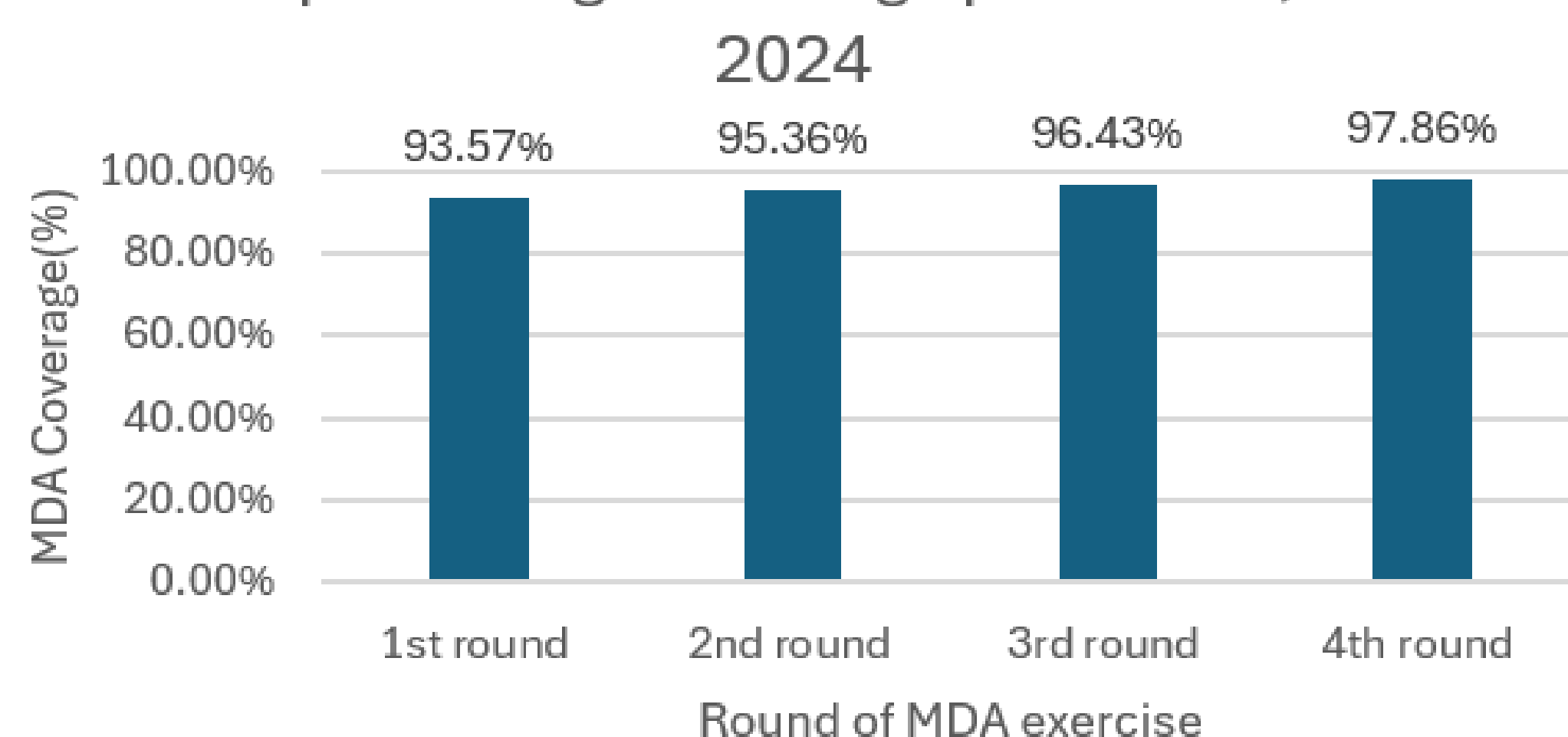
## METHODS

- The survey targeted all eligible children residing within camps, in the age group of aged 3 months to 15 years old, who are residence of the IDP camps, of Gomgoi, Nyin Ayuel Deng, Aweng, Abin Dau, Majak Aher and Majook Noon, and were mapped for the MDA during the first round.
- A systematic sampling method was used to select the house holds to visit for collect the data, and all eligible children in the household visited were considered.
- MDA Questionnaires were completed into OpenDataKit (<https://opendatakit.org/>) installed on a mobile device (tablet). Collected data were uploaded to the online data storage server, and complete data set downloaded for analysis using R studio data software.
- Data collected from 100 households for 2 days, from 13<sup>th</sup> to 14<sup>th</sup> November 2024.

## RESULTS

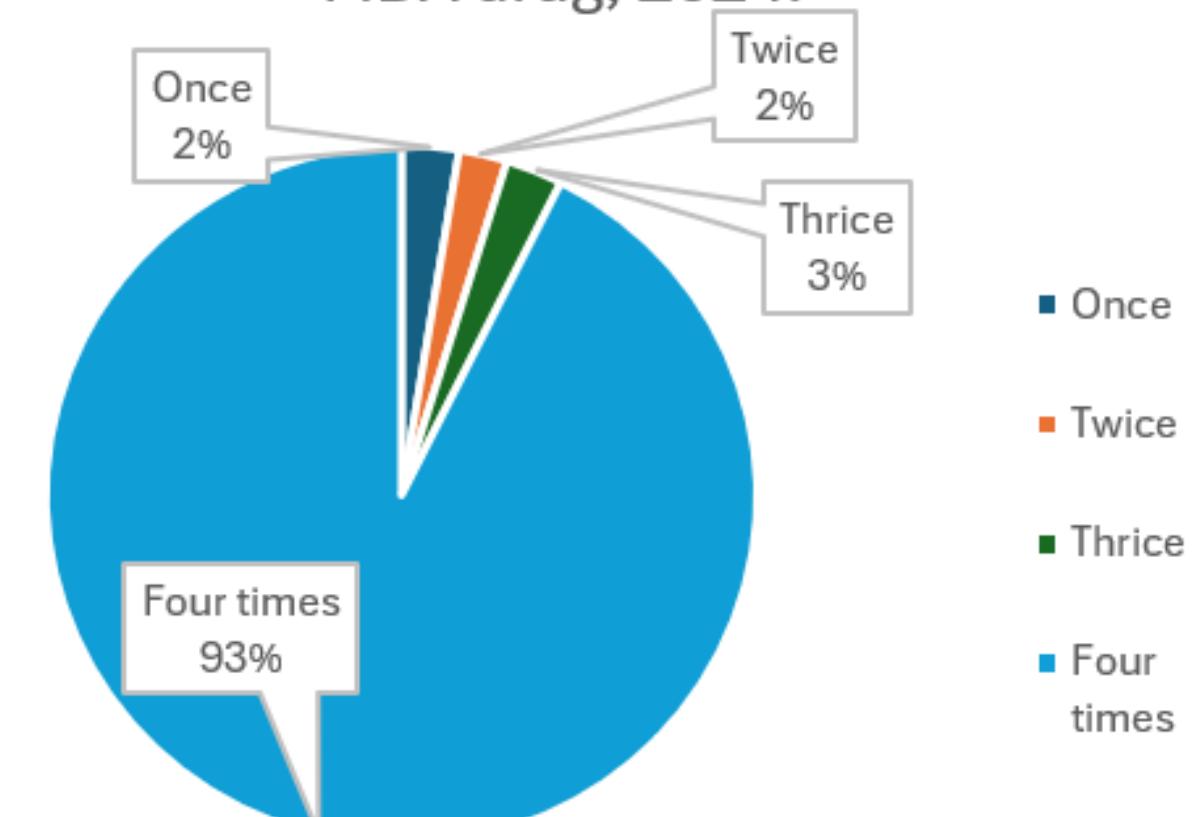
- The estimated coverage for all the 4 round of MDA was above 90% as shown in the graph. 92.73% (95% CI:88.98 – 95.27) of the children were reported to have received the MDA drugs in all the four rounds in 2024.

MDA percentage Coverage per Round, Twic



- 83(83%) of the household have at least one mosquito net.
- No serious adverse effects were reported. However, some minor drug side effects were reported among 12 (4.38%) children, which included fever and cough, diarrhea, body rash, headache, nausea).

Percentage of number of times a children recieved MDA drug, 2024.



## CONCLUSIONS

- The MDA coverage survey had shown **high coverage of 90% and above in all the 4 rounds** among the target population. **No serious adverse effects** were reported, although some children experienced minor side effects. In the context of Twic County and among IDPs, the **MDA exercise is feasible** and **well accepted**. Similar strategies that can be used to achieve high coverage in the next MDA exercise.