

Diagnostic performance and feasibility of two new treatment decision algorithms for pulmonary tuberculosis in children

Nigeria, Niger, Guinea, Uganda, South Sudan

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Federal Ministry of Health



MSHP

RÉPUBLIQUE DE GUINÉE
Ministère de la Santé et de l'Hygiène Publique



Objectives

- Médecins Sans Frontières (MSF) provides medical care for children in a wide variety of contexts, levels of care and populations.
- **Primary objective:**
 - To assess the performance of the Treatment decision algorithms (TDAs) against a reference standard (*WHO protocol definition*)
- **Secondary objectives:**
 - To document the diagnostic cascade using the TDAs (children undergoing each step of the algorithms, started on TB treatment etc).
 - To assess clinical evolution and mortality at 2 months of follow-up.
 - To assess health workers and caregivers' perspectives on the TDAs (challenges and enablers to the introduction of the recommended algorithms).
 - To report changes on case notification rates 12 months prior to, and 12 months following the implementation of the TDAs.

Methodology

- **Study design:**
 - Observational prospective multi-country study to assess the TDAs performance.
 - Mixed-methods study to assess TDAs feasibility and acceptability.
 - Analysis of routine program data to assess case notification rates before and after TDAs implementation.
- **Population:**
 - Children under 10 years with symptoms of TB
 - Health workers, program managers, key informants, and parents.
- **Settings and study Sites:**

	Population	Type of care	Level of care
Malakal, South Sudan	General	Ambulatory & Hospitalized	District Hospital
Mbarara, Uganda	General	Ambulatory & Hospitalized	Health Centers & District Hospital
Madarounfa, Niger	Malnourished	Ambulatory & Hospitalized	ATFC & ITFC District Hospital
Maiduguri, Nigeria	Malnourished	Hospitalized	District level ITFC
Conakry, Guinea	Living with HIV	Ambulatory	Health Centers

- **Target sample size:** 2020 children over 12 months enrolment period

Progress

- **Launch of the study:**
 - 2 sites opened out of 5 sites => Nigeria in August 2023 & Niger in November 2023
 - 2 sites to be opened in Nov 2023 => Guinea & Uganda
 - 1 site to be opened in Jan 2024 => South Sudan
- **Enrolment to date (if applicable)**
 - N=200
- **Estimated end of enrolment period:**
 - January 2025
- **Estimated date when results (for the primary endpoint) will be available**
 - Final results by March 2025
 - Interim results on part of the population by June 2024

- Médecins Sans Frontières, France
- Médecins Sans Frontières, Belgium
- Médecins Sans Frontières, Spain
- Epicentre, France
- Ministry of Health, Nigeria
- Ministry of Health, Niger
- Ministry of Health, Guinea
- Ministry of Health, Uganda
- Ministry of Health, South Sudan
- University of Tübingen, Germany
- ANRS, France

