

Key Figures					
Number of new suspected cases reported ¹ in the last 7 days	6	Cumulative number of suspected cases	84	Cumulative number of cases	87
Number of new deaths reported in the last 7 days	00	Cumulative number of suspected deaths	06	Cumulative number of laboratory-confirmed cases	03

Background:

On December 21, 2023, the Ministry of Health received notification of a suspected case of viral hemorrhagic fever from Yambio County, Western Equatoria State. The suspected case was a 24-year²-old male from Kangura village in Gangura Payam, Yambio County, who presented symptoms including generalized body weakness, headache, epigastric discomfort, fever, vomiting of blood, and yellowish discoloration (jaundice) of the eyes.

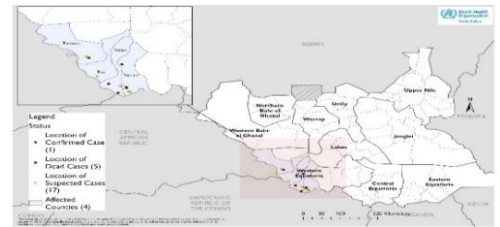


Figure 1: Location of Yellow fever outbreak in South Sudan

The patient was immediately placed under isolation at the health facility, and a sample was collected for further investigation. Subsequent testing conducted on December 24, 2023, at the National Public Health Laboratory confirmed a positive diagnosis of Yellow Fever.

The National Ministry of Health of the Republic of South Sudan officially declared a Yellow Fever outbreak on December 24, 2023, following confirmation of the case. The Public Health Emergency Operation Center (PHEOC) was immediately activated to facilitate a comprehensive, pillar-based approach to control and contain the outbreak. A multi-disciplinary team comprising representatives from the Ministry of Health, WHO, and partner organizations at both national and subnational levels was deployed to conduct an extensive epidemiological investigation, active case search, community mobilization, and sensitization efforts in Gangura Payam (the epicenter), Yambio County, Western Equatoria State, as well as surrounding Payams and Counties.

Key highlights

Reporting period: 4 to 10 March 2024

- Six (06) new suspected Yellow Fever cases reported in the last 07 days). The cases were reported from Yambio (3), Tambura (2) and Ezo (1) counties.
- A cumulative total of eighty-seven (87) Yellow Fever cases (84 suspected and 3 confirmed) were reported from six counties in Western Equatoria state: Yambio (48), Tambura (17), Nzara (10), Ezo (7), Ibba (04), and Maridi Counties (1) as of 10 March 2024.
- No new deaths were reported in the last 07 days.

¹ Number of cases detected in the last 7 days. This includes both at the health facility and community

² Further verification by national rapid response team revealed the age of the index case to be 24 years rather than 18 years.

- A total of six (06) suspected deaths were reported³, giving a case fatality ratio of 6.9%.
- The Honorable Minister for Health launched a reactive Yellow Fever vaccination campaign on 13 February 2024.
- Three (03) out of the five (05) counties completed the reactive Yellow Fever campaign.
- A total of 357, 290 individuals, representing 87.9% of the targeted population, have been vaccinated however data cleaning is ongoing to verify numbers vaccinated
- Response activities (coordination, surveillance, laboratory, case management, risk communication and community engagement, vaccination, infection prevention and control etc.) are being reinforced by the State Ministry of Health and supported by partners (WHO, UNICEF, WVI-CGPP, CDTY, CMMB, Red Cross South Sudan, AMREF, JRS, IMA, and TRI-SS)
- Activeness surveillance is being strengthened in states and counties bordering Tambura and Ibba through guidance from the Ministry of Health and the State Ministry of Health with support from partners (WHO, UNICEF, CARE, Johanitter, AFOD, and CORDAID).

Current updates

Coordination

- Coordination meetings with stakeholders and key partners have transitioned from daily to a weekly frequency at the national level. However, daily meetings continue to be held at the sub-national level for enhanced collaboration and communication.

Surveillance, Laboratory, and Reporting

- Six (06) new suspected Yellow Fever reported during the last 07 days. The cases were reported from Yambio (3), Tambura (2) and Ezo (1) counties
- Cumulatively, eighty-seven (87) Yellow Fever cases (84 suspected and 03 confirmed), including 6 deaths, were reported as of 10 March 2024, giving a case fatality ratio of 6.9%.
- All cases were reported from six counties in Western Equatoria state: Yambio (48), Tambura (17), Nzara (10), Ezo (7), Ibba (04), and Maridi Counties (1) as of 10 March 2024.
- Out of the cumulative 87 cases (84 suspected and 03 confirmed), females accounted for 53%, and males accounted for 47%.
- Majority (78%) of the reported cases are 15 years and above, while 12% are noted to be among 1 to 4 years old.

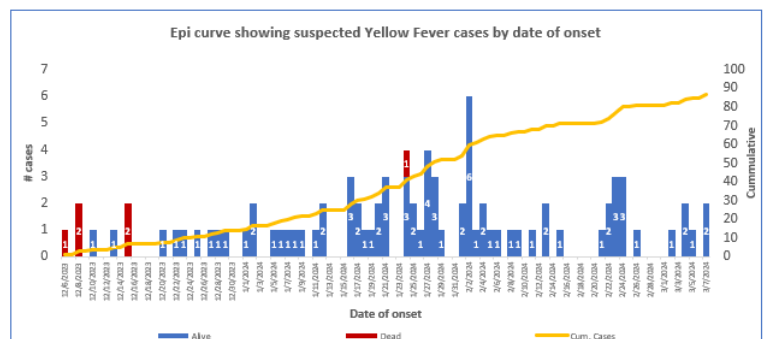


Figure 2: Epi curve showing suspected Yellow Fever cases in Ezo, Tambura, Nzara and Yambio 2023 to 2024 by date of onset

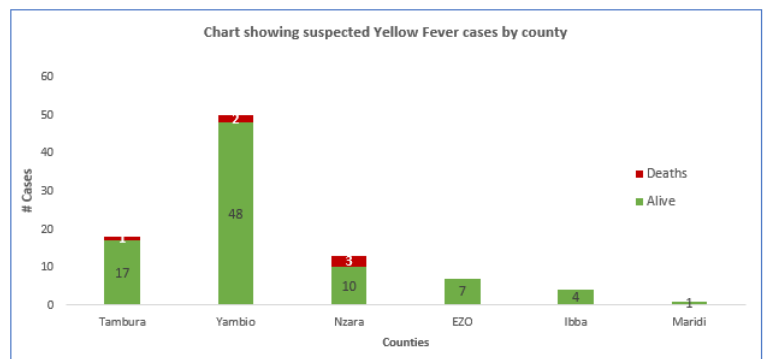


Figure 3: Chart showing suspected Yellow Fever cases in Tambura, Nzara, Ibba, Ezo and Yambio, 2023 to 2024

³ A death reported from Yambio with an onset of fever on September 15, 2023, was excluded as it did not meet the revised outbreak case definition.



- Eighty (80) samples have been tested among which, 68 samples at the National Public Health Laboratory (NPHL) and twelve (12) by the EAC Mobile laboratory stationed in Yambio county.
- Of the 80 samples tested, 3 tested positive and the 77 samples tested negative.
- Twenty-three (23) were referred to the regional laboratory, Uganda Virus Research Institute (UVRI), Uganda, for further verification.
- The Ministry of Health deployed the EAC Mobile Lab in Yambio/Western Equatorial State for enhancing the Laboratory testing capacities and laboratory surveillance

Case management

- MSF-Spain provided healthcare workers with training on managing Yellow Fever cases. The training aims to enhance their knowledge and skills in effectively diagnosing, treating, and responding to Yellow Fever cases, ultimately leading to improved patient care.
- Health facilities in affected counties have been notified to screen and categorize individuals based on the outbreak case definition for suspected cases.
- An interim case management guide developed to support healthcare workers in the management of patients.

Risk communication and community engagement (RCCE)

- Partners continue to engage the community through their home health promoters and community key informants.
- Enhancing RCCE activities during church services and market days to sensitize community members on reporting suspected cases and preparing the yellow fever vaccination campaign is ongoing.
- Twenty-seven (27) healthcare workers oriented on Yellow Fever outbreak response focusing on risk communication and community engagement for vaccine uptakes (Tambura, Nzara, and Yambio)
- Radio spot broadcasting on Yellow Fever prevention and control continues to be produced.

Vaccination

- Yellow Fever campaign done in Yambio, Nzara, and Tambura with a mop done completed on 2 March 2024, data cleaning ongoing.
- The balance of 224,800 doses of Yellow Fever vaccine for Ibba and Ezo arrived in the country on 27 Feb 2024.

Table 1: Vaccination status and coverage by county

State	County	Target population (9 moths ++)	Total vaccinated	Coverage	Status
WES	Yambio	226,864	195,734	86%	Completed
WES	Nzara	97,755	90,025	92%	Completed
WES	Tambura	82,080	71,531	86%	Completed
WES	Ezo	138,859			Yet to commence
WES	Ibba	62,711			Yet to commence

Implementing Partners by Pillar

Pillar	Partner supporting
Coordination	MOH, WHO
Surveillance	MOH, WHO and CGPP-WVI
Case Management	MOH, WHO, MSF-Spain, CMMB, and CGPP-WVI
Water, Sanitation, and Hygiene (WASH)	MOH, IOM, ICRC, CGPP-WVI, UNICEF, WHO
Infection Prevention and Control (IPC)	MOH, WHO
Risk Communication and Community Engagement (RCCE)	MOH, WHO, CGPP-WVI, UNICEF, CDTY, TRI-SS, CMMB, Red cross South Sudan
Vaccination	MOH, WHO, UNICEF, CGPP-WVI, AMREF, CMMB and CDTY, CRSO,HPF
Vector Control	MOH, and WHO



PUBLIC HEALTH EMERGENCY OPERATIONS CENTRE (PHEOC)

Weekly Situation update on the Yellow Fever outbreak in Western Equatoria State, South Sudan

Date: 13 March 2024

Situation Report Number 033



Logistics

MOH, WHO, UNICEF, MSF-Spain, WVI



Challenges

- Current Measles outbreak ongoing in Yambio, Nzara, Ibba and Tamburra with responses been planned
- Target population differed from the NBS figures
- Lack of partners' support to carry out vector control activities to reduce the risk of yellow fever transmission.

Next steps

- Tentative date for the remaining two counties is 19 March 2024, and this allows a week gap after the polio campaign
- Due to shortage of trained health workers the campaign will be for 10 days to allow for movement of the health workers to planned sites.
- Validation of microplan ongoing, training and other pre implementation activities to be commence.
- Strengthen analysis of surveillance data, active case search, and investigation of alerts.
- Capacity building for health workers on sample collection, packaging, transportation, case detection and case management and reporting.
- Engage more partners and other stakeholders for resource mobilization.
- Plan and conduct a post-campaign coverage survey.

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