

NYANDARUA COUNTY GOVERNMENT

DEPARTMENT OF HEALTH SERVICES



OPERATIONALIZING THE NYANDARUA COUNTY INTEGRATED SPECIMEN REFERRAL SYSTEM

COUNTY OPERATIONAL PLAN TO TRANSFORM EARLY TB DIAGNOSIS



A county-owned, integrated hub-and-spoke specimen referral system improving TB diagnostic timeliness, quality, and access across Nyandarua County.



INTEGRATED
One system for TB, HIV & other specimens



EFFICIENT
Faster turnaround, better coordination, less wastage



RELIABLE
Quality assured specimens and results



COUNTY OWNED
Strengthening ownership, sustainability & accountability



INTRODUCTION

Timely TB diagnosis is hindered by fragmented specimen referral systems. In Nyandarua County, irregular and donor-dependent transport led to diagnostic gaps and delays. This evaluation reports on the ISRS pilot implemented from July to December 2025.

AIM

To evaluate whether a county-owned, integrated hub-and-spoke model improves early TB diagnosis by reducing turnaround time, lowering rejection rates, and strengthening system integration.

METHODS

- Before-and-after evaluation using routine operational data from the six-month ISRS pilot.
- Operated across 37 facilities (5 hubs, 32 spokes).
- Integrated TB, HIV & other specimen referrals in one county-managed network.
- Data from referral logs, lab registers, transport records, temperature tools, and result-return records.
- Indicators: specimen volume, coverage, turnaround time, rejection rate, result return rate, and cold chain performance.

RESULTS (JULY – DECEMBER 2025)



6,105
SPECIMENS REFERRED



100%
ISRS SUPPORTED FACILITIES COVERAGE

MEAN TB SPECIMEN TURNAROUND TIME



72hrs → **24hrs**
BEFORE PILOT
66% IMPROVEMENT

SPECIMEN REJECTION RATE



24% → **12%**
BEFORE PILOT
50% REDUCTION

RESULT RETURN RATE



<100% → **100%**
BEFORE PILOT
FULL RESULT RETURN

COLD CHAIN INTEGRITY MAINTAINED



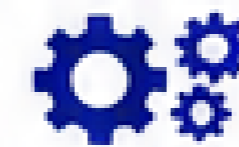
5 TEMPERATURE ALARMS RESOLVED WITHOUT SAMPLE COMPROMISE

- Maintained specimen quality throughout the pilot
- Zero samples compromised

SYSTEM STRENGTHENING OUTCOMES



Improved coordination across facilities and partners



Reduced operational inefficiencies and delays



Enhanced system ownership and accountability



Stronger foundation for sustainability and scale-up



CONCLUSION

The Nyandarua County ISRS pilot demonstrates that a county-owned, integrated specimen referral system can significantly improve TB diagnostic timeliness, quality, and access. The observed improvements support scale-up as a practical contribution toward Universal Health Coverage and the End TB Strategy.

EVIDENCE OF REPORT

ISRS Programmatic Evaluation Report (July – December 2025)



INSTITUTIONAL AFFILIATES



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POSTER PRESENTATION

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