

DATA-DRIVEN TB CONTROL

South Africa's End TB Dashboard & Diagnostic Data Ecosystem



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What We Will Cover Today

01

The SA TB Diagnostic Network

How laboratories across South Africa are connected through a national network and Laboratory Information Systems (LIS)

02

Central Data Warehouse

How laboratory data flows into the NHLS Strategic Data Warehouse — the engine powering national TB surveillance

03

Data Into Action

The ecosystem of tools: national surveillance reports, SMS notifications, Results for Action (RfA), and the End TB Dashboard

04

The EndTB Dashboard

Real-time, public-facing TB testing dashboard — launched October 2025 — and its role in programme accountability

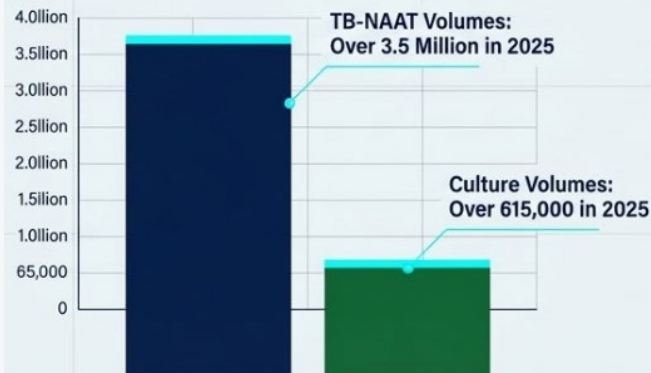
South Africa's TB Diagnostic Network

NHLS – The backbone of TB testing

The National Health Laboratory Service (NHLS) provides diagnostic services to over 80% of South Africa's population.

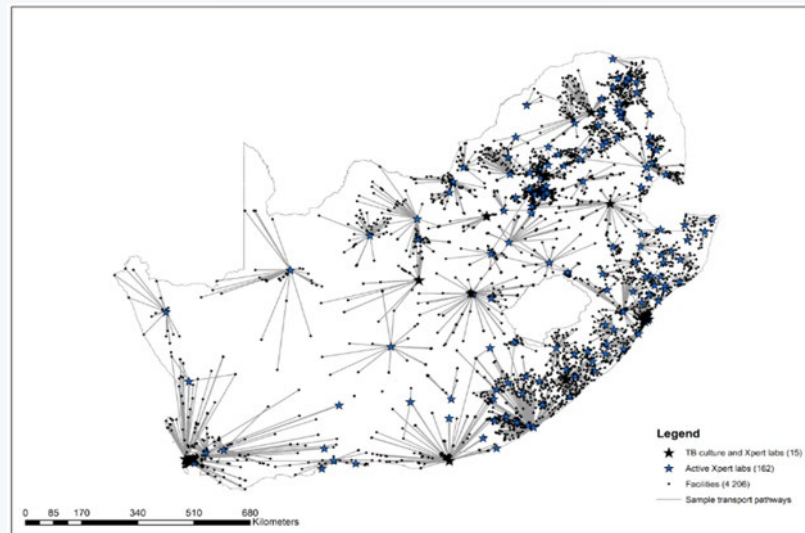
More than 90% of TB is diagnosed within this established public network.

Over a decade ago, South Africa successfully phased out smear microscopy, moving entirely to advanced molecular testing.



~90%

population within
5 km of NHLS site



Specimen results flow from all testing sites into the NHLS TrakCare LIS, creating a unified national dataset.

National TB Diagnostic Algorithm

From presumptive TB to confirmed result



TB-NAAT Platforms Deployed Nationally

GeneXpert (Cepheid)

Core platform across all provinces

Roche cobas

Deployed June 2024

BD MAX

Deployed Nov 2023

GeneXpert XDR

Drug-resistance reflex panel

>90% of TB-NAAT results available within 40 hours · ~3.8 million tests completed in FY2025-26

The NHLS Strategic Data Warehouse

Centralising laboratory data for surveillance and programme management



Near-real-time data refresh · Daily automated feeds · Patient-level linkage via unique identifier

What the Data Warehouse Enables

Person-level de-duplication

Unique patient identifier links tests to individuals — distinguishing people tested from tests completed

Longitudinal tracking

Track testing episodes, results and outcomes over time for the same patient

Geographic disaggregation

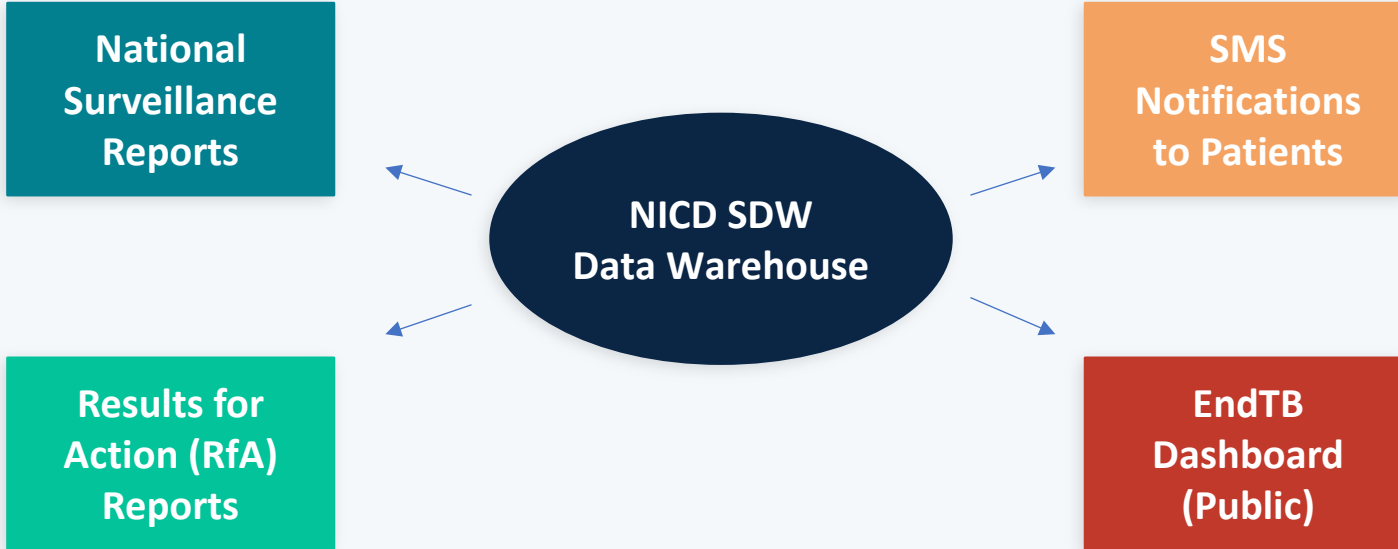
Province → district → sub-district → facility drill-down for programme management

Demographic breakdown

Age-band and sex stratification to identify underserved populations

From Data Warehouse to Action

The ecosystem of TB surveillance outputs



Surveillance Reports

Annual national TB surveillance reports — incidence, drug resistance, treatment outcomes

SMS Notifications

Automated SMS to patients — 79% delivery rate. Positive, negative and rejected results

Results for Action

Weekly Excel report (DOC2005/DOC2006) distributed to facilities for patient follow-up and linkage

Public Dashboard

Real-time web dashboard tracking 5M testing target — launched by Minister October 2025

TB SMS Notifications

*Automated patient linkage — reducing initial loss to follow-up
Launched 8 August 2022 · NHLS with NICD support*



~340K
TB cases notified annually in SA

10–15%
Estimated initial loss to follow-up

79.2%
National SMS delivery rate

49%
Tests with SMS attempted (Feb 2026)

Three SMS Types

TB Positive
Urgent return to clinic message sent with reference number

TB Negative
Result negative — return if still unwell or if HIV positive

TB Rejected
Rejection reason communicated — prompts repeat specimen

Results for Action (RfA) Reports

Weekly patient-level tracking reports to facilities

Purpose: To support tracking and follow-up of TB patients identified using TB-NAAT, directly reducing loss to follow-up through facility-level patient lists.

DOC2005

TB-NAAT Register – Susceptible (DS-TB)

Weekly report tracking patients with drug-susceptible TB identified by TB-NAAT. Supports facility-level follow-up.

DOC2006

TB-NAAT Register – Resistance (RR-TB)

Weekly report tracking patients identified with rifampicin-resistant TB. Critical for immediate clinical escalation.

Report Structure (Excel Workbook)

- 1. Cover Page** Date, facility, terms & conditions — password protected
- 2. Patient Information** Name, specimen details, episode & reference numbers, province/district/facility
- 3. Patient Tracking** Patient address, national ID, folder number — for active follow-up

How to Access

Register via the NICD Self-Service Portal (SSP) at www.nicd.ac.za → M&E Dashboards. A valid HPCSA or SANC number is required for access to reports with patient-identifying details. Reports are distributed weekly to registered facilities.

The End TB Campaign Dashboard



TB-NAAT DASHBOARD

USER GUIDE



NATIONAL

PROVINCE

DISTRICT



DESCRIPTION

The dashboard tracks national coverage in sputum-based TB testing for the End TB Campaign, beginning on 1st April 2025.

LAST REFRESH DATE

28-May-2026

Note: Targets are set for the 2025/26 year. They are currently being reviewed.

TB-NAAT DATA DESCRIPTION

These data represent TB nucleic acid amplification tests (TB-NAAT) carried out directly on sputum samples by National Health Laboratory Service (NHLS). Although TB-NAAT testing can also be performed on TB bacteria grown in the lab (cultured isolates), this dashboard focuses on direct sputum testing since it is the primary method used to diagnose pulmonary TB. Data from the private sector are not included.

The results are presented at the person-level rather than test-level. This means that each individual is counted only once in a 12-month period starting from the 1st April 2025. Only the first test will contribute to the numbers and the positivity rate. Repeat tests on the same person will not contribute. Because tests are linked to people using probabilistic methods, the numbers may be updated as new information becomes available or as delayed data are added.

IMPORTANT NOTICE

This dashboard is the property of the National Institute for Communicable Diseases (NICD) a division of the NHLS. By accessing or using the data, users acknowledge that the information provided is for reference purposes only.

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CONTACT DETAILS

For permission to use the data and technical queries please email: ctbepi@nicd.ac.za (Centre for Tuberculosis - Epidemiology)

The End TB Campaign Dashboard

Real-time public-facing monitoring — launched 24 October 2025

Developed through a partnership of NDoH, NICD and NHLS · Publicly accessible at www.nicd.ac.za/tb-naat-dashboard/

Campaign Target Tracking

National target: 5 million people tested. Running gauge with gap-to-target and monthly milestone tracking.

Testing Volumes

Monthly and cumulative tests. Target-to-date percentage. Daily data refresh from NHLS LIS.

Positivity Data

TB-positive rate on first test. Monthly positivity trend line. Disaggregated by age and sex.

Geographic Drill-Down

National → Province → District → Sub-district. Instant filter to area of responsibility.

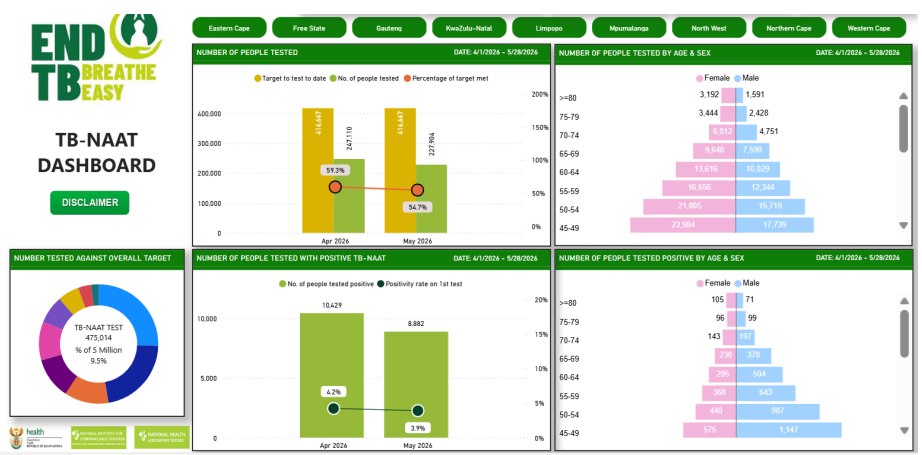
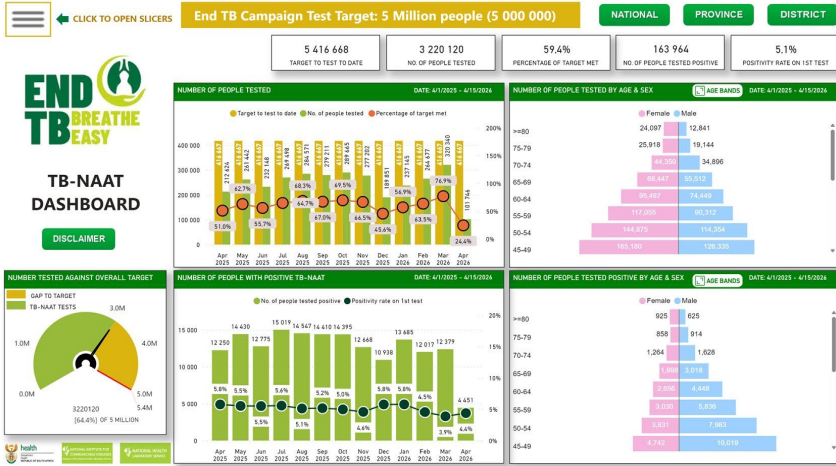
Demographics

Age-band breakdown (neonates to adults). Pyramid view: female vs male. Identifies underserved populations.

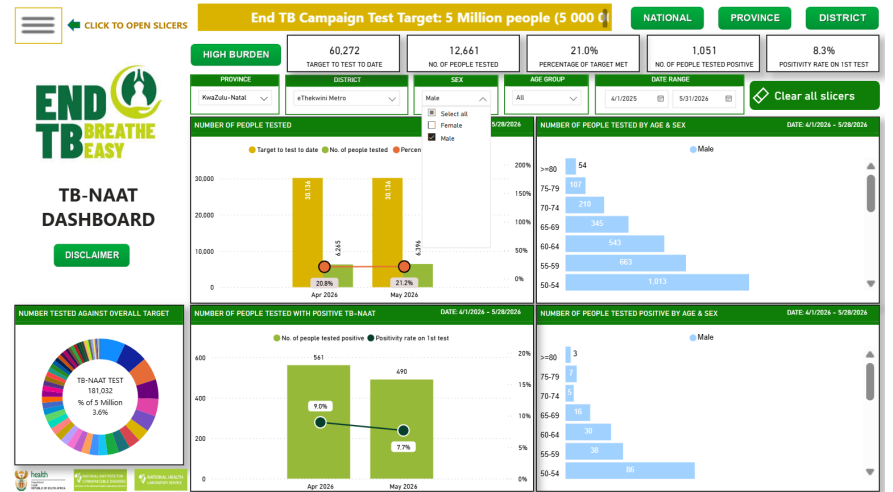
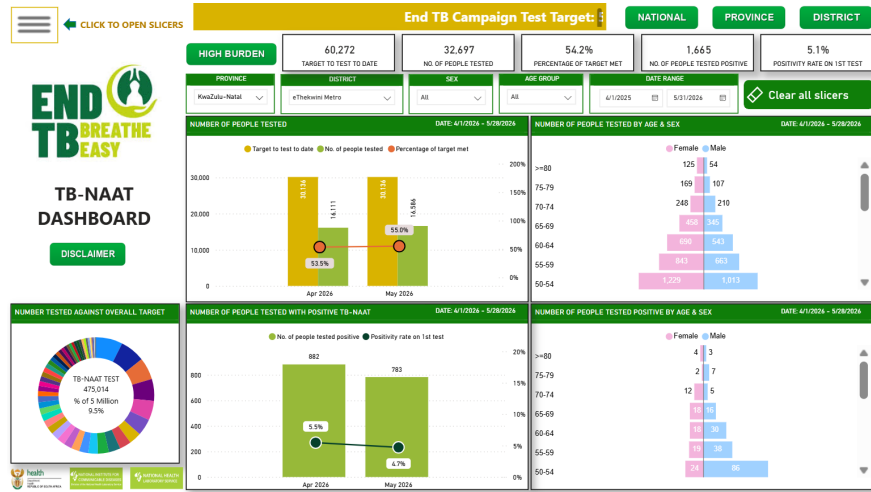
Fully Public Access

No login required. Works on any browser. Bookmark at www.nicd.ac.za/tb-naat-dashboard/

The End TB Campaign Dashboard



The End TB Campaign Dashboard



End TB Campaign — Insights

3.79M

Tests Completed

3.12M

People Tested
(unique individuals)

75.8%

Of 5M Testing
Target Achieved

5.1%

Positivity Rate
on 1st Test

Key Programme Insights

Testing Growth

15.2% increase in tests from prior year.

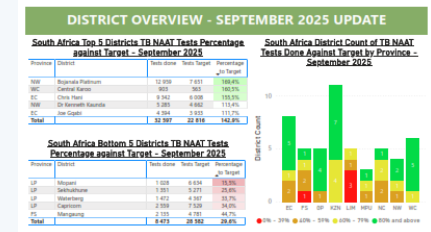
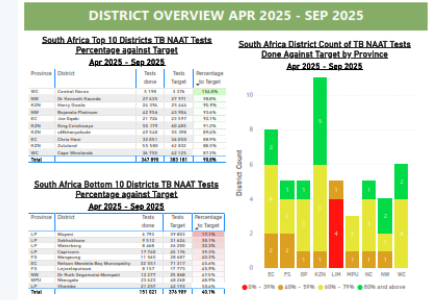
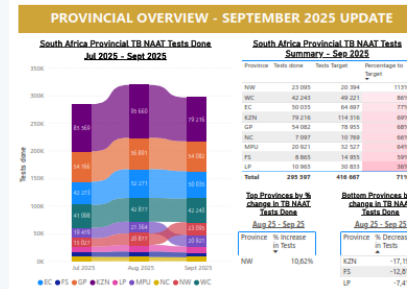
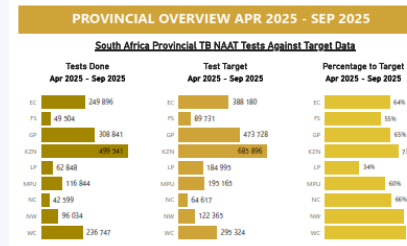
Demographic Yield

Highest yield: males aged 25–34 (12.2% positivity). Most tested: females aged 35–44.

Geographic Performance

North-West highest % to target (87.7%). Limpopo lowest (43.2%). Two of top 5 districts from North-West.

April 2025 – March 2026 · Source: End TB Campaign Dashboard



The Dashboard as a Governance Tool

"This dashboard is our public contract. It empowers our partners and, most importantly, our citizens to hold all of us — government included — accountable for reaching that five-million target."

— Hon. Dr Aaron Motsoaledi, Minister of Health, Dashboard Launch, 24 October 2025



Transparency

Public data visibility ends information silos. Citizens, civil society and partners can see programme performance in real time.



Accountability

Districts and provinces are visible against their targets. Underperformance can be identified and addressed proactively.



Resource Allocation

Pinpoint which districts lag behind. Direct mobile screening units and CHW deployment where the gap is greatest.



Data Equity

Disaggregated by age and sex — identifies who is being missed and supports equity-focused programme design.

Building on the dashboard for sustained TB programme impact

Data quality upstream

Complete cell phone capture and LIS data entry are prerequisites for SMS notification and RfA reports. Upstream quality drives downstream impact.

Public accountability works

Civil society demand for transparency drove the public dashboard. The dashboard in turn drives district-level accountability.

Partnership is foundational

NDoH + NICD/NHLS collaboration — each bringing different capabilities — made the dashboard possible. No single institution could do this alone.

Built on COVID-19 lessons

The dashboard builds on the EVDS experience from COVID-19 — proven infrastructure repurposed for TB programme management.

THANK YOU

Supporting the End TB Campaign through
Data, Diagnostics & Accountability

Dashboard: www.nicd.ac.za/tb-naat-dashboard/

Centre for TB: ctbepi@nicd.ac.za · www.nicd.ac.za

NICD - NHLS · National TB Programme · National Department of Health

