

Effectiveness of the Patient Provider Support Agency (PPSA) Model in Improving Private Sector Engagement for Tuberculosis Care in Alirajpur

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India's commitment to End TB

The government of India has committed to achieve Sustainable Development Goals (SDG) target of ending TB by 2025 five years ahead of the global target. This means that by 2025, India must achieve the 2030 SDG targets **of 80% reduction** in TB incidence and **90% reduction** in TB deaths compared to the 2015 baseline.



Table: India's commitment to End TB by 2025

Parameter	2015 Value	SDG 2030 Target	Commitment for 2025
Estimated annual Incidence	217cases/ Lakh	80% reduction	44 cases/Lakh
Estimated annual Mortality	4.5 Lakh	90% reduction	45,000

Global Burden of TB

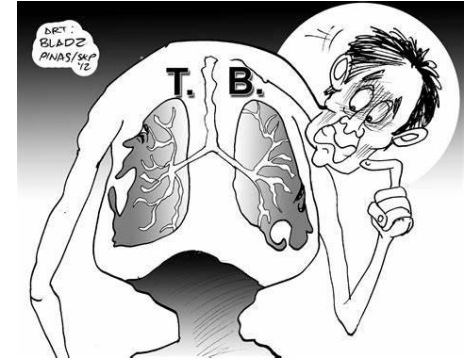
- In 2022, an estimated **10.6 million** people fell ill with TB worldwide, up from 10.3 million in 2021
- TB continues to be the second leading cause of death from a single infectious agent in 2022, after COVID-19. In 2022, there were an estimated **1.30 million** TB deaths worldwide among HIV- negative people



Eight countries accounted for more than two-thirds of the global TB incident cases in 2022: India (27%) contributed the highest number of incident TB cases. India (27%), Indonesia (10%), China (7.1%), the Philippines (7.0%) and Pakistan (5.7%) are the top 5 contributors across the globe.

Burden of TB in India

- More than one-fourth of the world's new TB cases is estimated to occur in India.
- About 28 Lakh people were estimated to have been newly affected with TB in the year 2022 in India (Global TB Report 2023).
- It is estimated that 3,42,000 deaths occur due to TB in India during year 2022. (Global TB Report 2023). This translates to about 39 cases of TB death every one hour.
- National TB Prevalence Survey (2019-2021) reported that the prevalence of all forms of TB, for all ages in India was 312/lakh population for the year 2021.



Missing TB cases in India

- Total TB incidence: 2,820,000 (Estimates of TB burden, 2022- Global TB Report 2023)
- Total new and relapse cases in 2022: 2,255,641 (Global TB Report, 2023)
- Missing TB Cases in 2022 = $2,820,000 - 2,255,641 = 564,359$ (around 5.6 lakh Missing TB Cases in India (approx.)



Total TB Cases: **16,138**

- Pulmonary TB Cases: **150,155**
- Extra-Pulmonary TB Cases: **36,138**

Alirajpur

- Total TB Cases: **1,620**

Geography Profile: Alirajpur is a city located in the Alirajpur tehsil of Alirajpur district in the state of Madhya Pradesh, India. It is situated in the Malwa region, near the borders of Gujarat and Maharashtra, covering an area of 3182 square km.

Population: 728,677 (Male-362,542 & Female-366,457)

Health Facility: The district has a total of 39 private health facilities staffed by MBBS and AYUSH doctors.



PPSA?

Objective: Integrate private-sector doctors into national TB control efforts through third-party agencies or NGOs.

Services Provided:

- Accurate diagnosis
- Systematic TB case notification
- Patient adherence support
- Treatment linkages

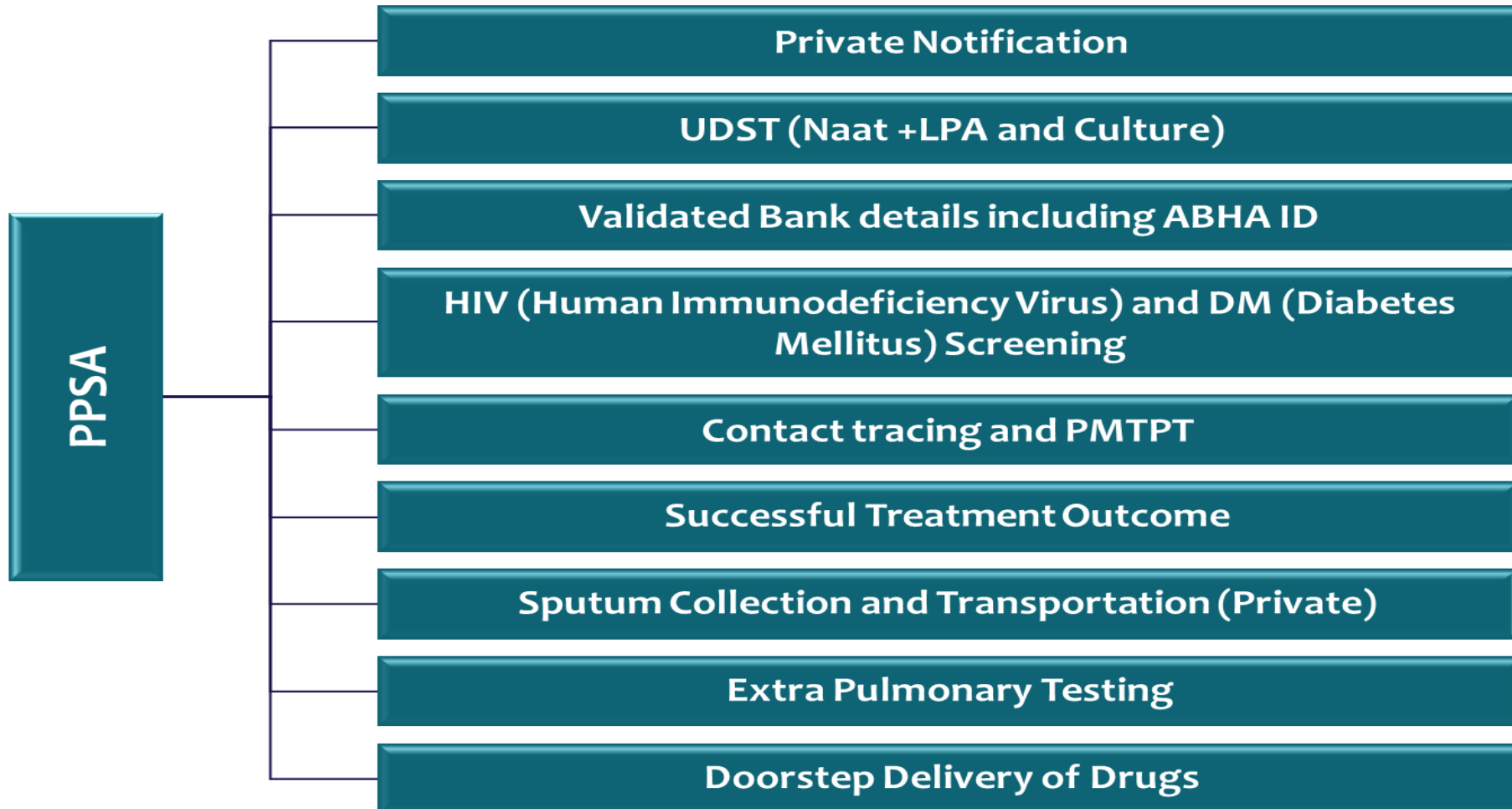


Partnerships: Establish robust partnerships with private healthcare providers to expand access to high-quality TB care.

Goals: Ensure timely, effective, and standardized treatment for more patients, bridge the gap between public and private health sectors, and foster collaboration for sharing best practices.

Outcomes: Improved patient outcomes and sustained success of TB control initiatives at all levels.

Activities under PPSA



Methodology

➤ Private Notification

- **Monthly Target:** 20 TB notifications from Alirajpur's private sector.
- **Mapping:** 100% mapping of private health facilities, updated monthly by block and ward.
- **Engagement:** Ensure patient adherence, address verification, and contact tracing.
- **Referrals:** Accurate sputum referral forms at clinics, timely replenishment of consumables.
- **Practitioner Visits:** Increase notifications by 10% from baseline with regular visits.
- **Training:** Provide training, ensure data accuracy, and display IEC materials.

➤ Sputum Collection and Transportation

- **Monthly Target:** 300 sputum samples from presumptive TB patients.
- **Engagement:** Replace existing collection mechanisms for patient convenience.
- **Transport:** Ensure samples reach labs within 48 hours.
- **Quality Assurance:** DTC to verify 5% of samples.

UDST (Naat + LPA + Culture)

- **Testing Target:** 80% of notified cases undergo UDST within 7 days.
- **Supply Management:** Ensure timely supply of testing kits and notify NTEP of shortages.
- **Record-Keeping:** Maintain accurate records and timely updates to NTEP.

Validated Bank Details and ABHA ID

- **Collection Target:** Collect bank details, Aadhar card copies, and ABHA IDs within 7 days of notification.
- **Minor Patients:** Collect parent bank details with consent for minors.
- **Facilitation:** Assist with bank account opening and update information on Nikshay Portal.
- **Collaboration:** Work with NTEP staff to create/map ABHA IDs and resolve validation issues.

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HIV and DM Screening

- **Implementation:** Conduct mandatory HIV and DM screening for all TB-notified patients.

Contact Tracing and TPT

- **Geo-Mapping:** Map all notified private facility TB cases.
- **Tracing:** Complete contact tracing for household members within designated timeframes.
- **IGRA Testing:** Deliver IGRA testing for eligible contacts.
- **TB Workup:** Conduct sputum collection for suspected cases.
- **IPT Provision:** Provide IPT for eligible household contacts above 5 years old.



Doorstep Delivery of Drugs

- **Delivery Completion:** Ensure monthly medication deliveries to patients' homes.
- **Follow-Up:** Monitor adherence, collect used medication packaging.
- **Verification:** Verify prescriptions, procure drugs, and update the Nikshay portal with distribution info.

Successful Treatment

- **Completion Rates:** Assess completion of microbiological confirmatory tests for cured patients.
- **Adherence Confirmation:** Confirm adherence for patients completing treatment regimens.
- **Reporting:** Report outcomes for all notified patients within 15 days of treatment completion

Result

NTEP (PPSA) Program Performance (April - June 2024)

Sputum Collection

100% Success Rate: Achieved for all three months.

- April: Collected from 26 patients.
- May: Collected from 163 patients.
- June: Collected from 223 patients.

Month	April	May	June
Pulmonary TB Cases	8	16	17
Extra Pulmonary TB Cases	1	0	2

Patient Support

HIV and DM Testing: Conducted for all diagnosed patients.

Direct Benefit Transfers (DBT):

- Collected bank passbooks and Aadhaar cards from all patients.
- Ensured timely financial assistance for TB treatment.

Contact Tracing and Geo-Tagging:

- Completed for all diagnosed cases.
- Identified and managed potential exposures to prevent TB spread.

DATA ANALYSIS

NTEP (PPSA) Program Performance Comparison (Q2 2023 vs. Q2 2024)

TB Notification Increase

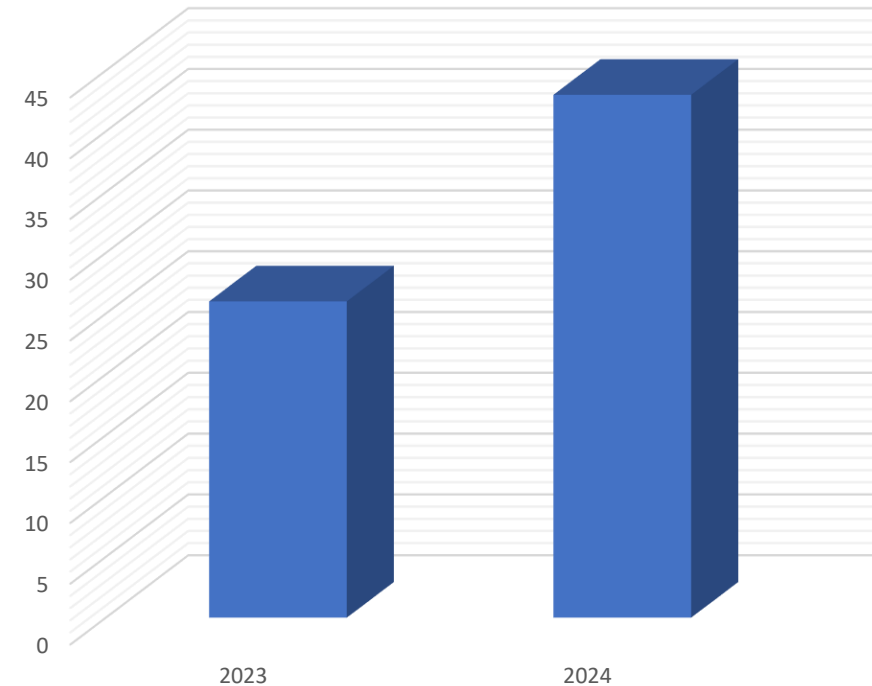
- Q2 2024:** 44 TB cases identified.
- Q2 2023:** 30 TB cases identified.
- Increase:** 14 more cases in 2024.
- Target:** 50 cases for Q2 2024; achieved 44 cases, short by 6.

Implications

- Positive Development:** Improved case detection.
- Potential Concern:** Possible rise in TB prevalence.
- Recommendation:** Further analysis to understand the reasons behind the increase.

In Q2 2024, the NTEP (PPSA) program in our district identified **44** TB cases, up from **30** in Q2 2023, indicating better case detection but also potential increased TB prevalence. Although we fell short of the 50-case target by 6, the progress suggests movement towards annual goals. Further analysis is recommended to understand the rise in TB notifications.

Compare with last year TB Notification



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HIV and RBS Testing Comparison (Q2 2023 vs. Q2 2024)

HIV Testing

- **Q2 2024:** Completed HIV testing for 43 patients.
- **Q2 2023:** Completed HIV testing for 26 patients.
- **Increase:** 17 more tests in 2024.
- **Significance:** Reflects growing awareness and enhanced efforts in managing co-infections to improve TB treatment outcomes.

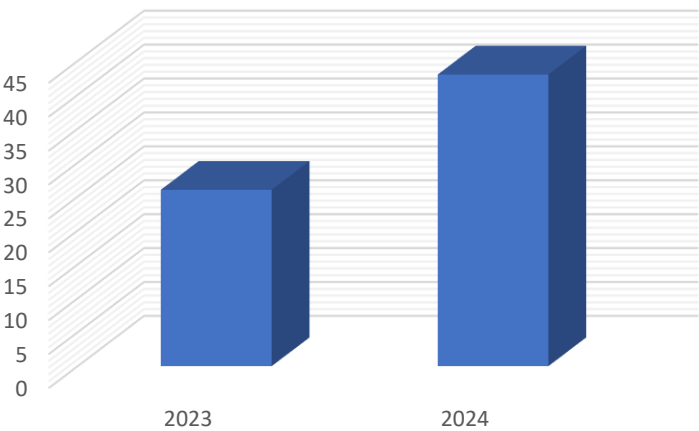
RBS Testing

- **Q2 2024:** Conducted 43 RBS tests.
- **Q2 2023:** Conducted 28 RBS tests.
- **Increase:** 15 more tests in 2024.
- **Importance:** Indicates improved screening and management of diabetes mellitus among TB patients.

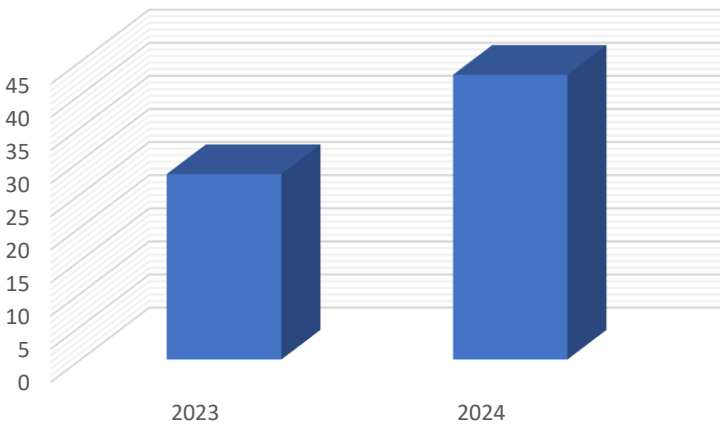
Brief Form for Report

- In Q2 2024, HIV testing increased to 43 patients from 26 in Q2 2023, underscoring heightened awareness and improved co-infection management. Similarly, RBS testing rose to 43 tests compared to 28 in Q2 2023, emphasizing enhanced diabetes management among TB patients for better treatment outcomes.

Compare with last year HIV test



Compare with last year RBS test



Discussion

➤ Local FLPA Examination Facilities

- Establish FLPA facilities in Alirajpur district.
- **Benefits:** Ensure prompt diagnosis and treatment initiation, reducing transmission and enhancing patient trust.

➤ Empower AYUSH Doctors for Clinical Diagnosis

- **Proposal:** Train AYUSH doctors for TB diagnosis and treatment.
- **Advantages:** Utilize available resources effectively, ensure accurate diagnosis, and provide ongoing support.

➤ Prioritize Treatment Adherence

- **Balanced Focus:** Emphasize treatment completion alongside administrative tasks.
- **Importance:** Prevent drug-resistant TB, achieve treatment goals.
- **Support Strategies:** Implement DOT, digital tools, and community support.
- **Patient Education:** Reinforce treatment importance and adherence consequences.



Thank You for everything!

