

System Milestones

Q4 2011

- Conceptualization and development of the three (3) major modules namely Case Management, Data Sync, Reports, and Administration

2012

- Pilot test implementation to Regions 3, 6, and NCR through centralized encoding in Provincial Health Offices level
- Pilot test implementation at facility level to Bulacan and Bataan RHUs

2013-2014

- Expansion of implementation to PMDT facilities
- Roll-out implementation to facility level - Regions 3, 6, NCR, 1, 10 and 12
- Dashboard for monthly cases encoded

2015-2016

- System transition to MOP 5th Edition
- Nationwide Training of Trainers and Roll-out Training
- Development and pilot implementation of Laboratory Module
- Aggregate Reporting
- ITIS Mobile Application (Ver 1)
- iClinicSys integration

2017

- Launching of NTP Website
- Roll-out implementation of Laboratory Module
- Directory Module
- Report submission deadline (report locking)
- UI enhancement of Case Management and Laboratory Module
- Auto-sync for Desktop version
- Printable Forms generation
- PVIMS (Ver 1) integration
- GX Alert integration
- e-Manual
- Addition of population database by municipal level

2018

- ITIS Version 1.4 MOP 5th Edition implementation
- Patient list for Daily DOT
- Referral System
- Printable NTP ID certification for patient
- ITIS Lite Web
- Online registration for ITIS Lite users

2019

- System transition to MOP 6th Edition
- ITIS Lite Mobile Application
- SLD Inventory Module
- CMS for NTP Website
- ITIS Lite dashboard, zero reporting and self-tagging of affiliated facility and medical associations
- Race TB Dashboard integration
- Setting up and testing of ITIS Helpdesk
- Assignment of new NTP Facility ID

2020

- ITIS MOP 5th and 6th Edition parallel implementation
- FLD Inventory
- Release of ITIS Lite Mobile Application
- Pilot test implementation of ITIS Helpdesk (PA only)
- Administration Module for regional level
- Facility Dashboard - National View
- Online registration for ITIS and ITIS Lite users
- Re-design NTP Website
- Integration with End TB App Suite, DatatoCare and Aspect
- Data Deduplication tool for ITIS Lite
- Auto-generation of NTP Facility ID
- ITIS Mobile Application - MOP 5th Edition (Ver 1.4)
- Auto-deactivation of user account

2021

- ITIS Version 2.0 MOP 6th Edition implementation
- ITIS Helpdesk implementation
- New NTP Facility Code implementation
- Administration Module management at regional level
- Alerts Module
- Near Real Time Reporting
- Transition of ITIS Mobile Application to MOP 6th Edition (Ver 2) with offline capability mode
- Pilot test implementation of ITIS Mobile to Regions 5, 6 and CAR with special participation of Region 3 TB Reference Laboratory
- Release of ITIS Version 2.0 patch
- Speed up data cleaning file extraction
- Instant registration of account for private physicians
- Enhancement of Personnel Directory
- eTBMAC integration
- Application of SMS capability

2022

- Release of ITIS Mobile Application (Ver 2)
- Maintenance and enhancement

Legal Basis

Administrative Order 2015-0024: Implementing Guidelines for ITIS as of June 5, 2015. It serves as the backbone of ITIS implementation. It outlines the roles and responsibilities of different agencies in the system utilization.

ITIS

Integrated Tuberculosis Information System (ITIS) is a web-based system and a tool for data collection, processing, reporting, and use of the information necessary for improving Tuberculosis control efforts in the Philippines.

Access your account at

itis.doh.gov.ph

For more information, contact:

Department of Health - Knowledge Management and Information Technology Service System and Software Engineering Division
2F Bldg. 9, San Lazaro Compd., Sta. Cruz, Manila

Landline: **(02) 651-7800 local 1941**

Mobile: **0949-993-3489 / 0917-153-0848**

Email: **integtbis@doh.gov.ph**

System Objectives

- Integrate all TB initiatives (Drug-Susceptible TB, Drug Resistant TB, TB in Children, TB in Prisons, Private TB Notifications, and TB/HIV) as well as the Stock Inventory and Laboratory.
- Improve process efficiency and effectiveness of implementing the NTP activities.
- Ensure the quality of data being recorded and/or reported for the program.

System Benefits

- **Increased Efficiency.** Productivity in the workplace is enhanced in patient record retrieval, records keeping, report generation, laboratory processing, program administration and referrals
- **Improves Accuracy in Documentation and Reporting.** ITIS interface captures all the TB data and can generate all types of National TB Control Program (NTP) reports. It is also equipped with in-system validation features based on the Manual of Procedures of NTP.
- **Facilitates Better Clinical Decision Making Towards Improved Quality of Care.** The different modules allow for patient clinical data to be viewed and analyzed at different levels of health care. Also, there is an improved ability to monitor compliance to medications and treatment regimen.
- **Supports Operations Planning and Management.** Improved access to quality data to inform healthcare service and workforce planning and development.

System Platforms Minimum Operational Requirements

ITIS WEB. Requires computer or laptop with internet connection at least 1 mbps; and a Google Chrome web browser.

ITIS DESKTOP. Requires a dedicated computer with 2HGz processor, with 4GB memory and 500 GB internal storage running in Windows 7 or up; a Google Chrome web browser; Internet connection for sending of dispatch files.

ITIS MOBILE. Requires IOS and Android device with at least 16GB memory; and internet connection.

System Features

Free Software. This is developed by Knowledge Management and Information Technology Service (KMITS) – DOH having the National TB Control Program (NTP) as the system owner. The use of this software and maintenance cost is completely free of charge.

Compliance to Standards. ITIS is developed based on health data standards of DOH and PHIC for interoperability.

Centralized and Secured Data Storage. All the data being received is stored at the KMITS data center wherein servers are armed with an enterprise level of security.

- **Data Recovery.** Scheduled data back-up multiple times a day using internal and external storage. Dedicated storage servers are used to gather archives.
- **Failsafe / Net Security Policy.** Using a load balancer, data for both incoming/outgoing traffic are equally distributed in several ISPs so data transferring will not be interrupted. Firewall policy features are used to close unwanted ports not used by ITIS.

User Level Security. Designed with different types of users according to the rights of access and permission of authority.

Inter-operability with Other Systems. ITIS architecture can securely integrate with other local or international information systems.

Hybrid Software. The system has dual mode of access – offline and online depending on the needs and capability of implementation of the facility. This is offered to DOTS facilities with zero access to the internet.

Ease of Access. Accessible to a variety of devices such as desktop computer, laptop, tablet or smartphone that will provide comfort of encoding to users.

Dashboards and Reports. Provide a dashboard as a tool in monitoring cases and offer generation of reports mandated by the National TB Control Program aligned to the standard requirement of the World Health Organizations.

Printable Forms. NTP electronic forms are printable - screening forms, treatment cards, laboratory forms and TB registers.

Linking of Clinical and Laboratory Data and Operations. The system can facilitate electronic laboratory requests from the facility and real time provision of results from the TB laboratory.

User Friendly Interface with Tooltip Guides. Users are guided with step labels and the system interface is equipped with tooltip guides.

System Modules

CASE MANAGEMENT. Captures the patient's data which includes the patient's demographic profile, TB encounter/s, examinations and treatment information.

LABORATORY. Intended for the laboratory personnel to facilitate receiving of incoming requests and real-time encoding of examination results once available.

INVENTORY. Captures the drug and supplies management per facility

DATA SYNC. A tool used to synchronize the local database (offline users) with the central database.

REPORTS. Features the generation of all NTP reports as per NTP MOP and suited according to the level of reporting facility. Generated documents are printable and convertible to Excel (for data analysis) and PDF.

DIRECTORY. Serves as an access point to the list of NTP Facilities and NTP Personnel nationwide.

ADMINISTRATION. Contains the tools for system administrators in order to manage user accounts, audit trails and libraries.

ALERTS. Serves as a tool for development and management of reminders and notices within the NTP network.

