

TECHNICAL BRIEF

e-TB Manager



A CASE AND MEDICINES MANAGEMENT SYSTEM

e-TB Manager is a web-based tool for managing the information needed by national tuberculosis control programs (NTPs). It integrates data across all aspects of tuberculosis (TB) control, including information on suspected cases, patients, medicines, laboratory testing, diagnosis, treatment, and outcomes.



CHALLENGE

Although international guidelines for TB control are standardized, country TB programs are often unable to properly manage the data needed to follow the guidelines. This can result in poorly timed interventions.

The emergence of drug-resistant TB (DR-TB) has made it more difficult to manage cases and medicines and has increased the need for tools that both effectively monitor diagnosing and prescribing practices and patient use and ensure the uninterrupted availability of TB medicines.



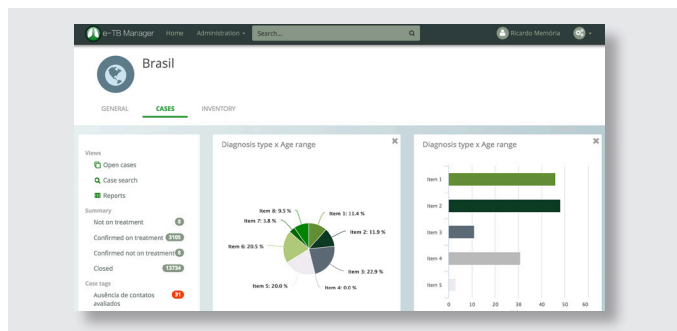
THE SOLUTION

The Systems for Improved Access to Pharmaceuticals and Services (SIAPS) Program and its predecessor programs designed and developed e-TB Manager as a health systems strengthening platform for managing information needed by NTPs. e-TB Manager integrates data across most aspects of TB prevention and care, including reporting and follow-up of presumptive and confirmed TB/DR-TB cases, medicines management, and laboratory testing. The data analysis feature can also be used to produce custom reports and indicators.



FEATURES

- **Individual case monitoring:** enables providers to manage susceptible TB, DR-TB, TB-human immunodeficiency virus (HIV), and pediatric TB cases from diagnosis to treatment outcome using World Health Organization (WHO) guidelines by allowing:
 - **Comprehensive first- and second-line medicines management:** allows ordering, distributing, dispensing, forecasting, and inventory tracking by batch number and expiry date at all levels
 - **Comprehensive reporting:** covers all WHO reports that are accessible at all levels and is easily customizable to include country-specific reports and indicators
 - **Operational and clinical research:** provides methods for analyzing data, including medicine utilization reviews, medicine resistance patterns, and treatment costs, and allows easy data exporting to other statistical programs
- **Access across health system:** allows TB teams at all levels, from health care providers to government officials, to access individual and consolidated data for evaluating system performance across facilities and regions
- **Mobile/tablet responsive:** the user interface automatically adapts itself to the size of the device's screen
- **Ready for interoperability:** e-TB Manager employs a comprehensive application programming interface that covers all functionalities and allows third-party software to integrate with e-TB Manager



- **Offline mode:** e-TB Manager can be installed in health facilities with no or an intermittent Internet connection. All data are stored in the local hard drive of the computer, and when an Internet connection is available, the offline version will synchronize with the web version
- **Customizable indicators:** allows users to create their own indicators by mixing different fields, variables, and filters from the case forms, including suspected and closed cases. These indicators can be saved and reused or displayed in the system dashboard
- **Adjustable user privileges:** allow user access to data and modules to be regulated while maintaining patient confidentiality
- **Open access:** developed with open source tools to enable countries to customize the program to fit particular country needs without requiring specific licensing
- **Available in multiple languages:** English, Russian, French, Spanish, Portuguese, and Chinese as well as Armenian, Azerbaijani, Bahasa Indonesia, Ukrainian, Khmer, Romanian, Uzbek, and Vietnamese

SIAPS EXPERIENCE

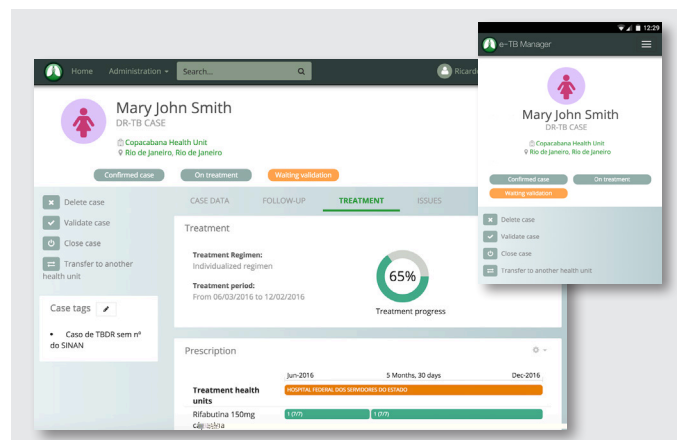
Over the last several years, e-TB Manager has been successfully implemented in 10 countries and is being used at more than 1,550 active sites to manage more than 550,000 TB cases worldwide. Selected countries that use e-TB Manager have benefited from improved data quality, timeliness, and completeness, which has reduced supervision visits by 70%, and improved treatment adherence with built-in alerts to maintain a DR-TB cure rate of approximately 60% while doubling case reporting. In addition, e-TB Manager has helped promote countrywide TB monitoring and surveillance by identifying high- and low-performing TB sites and targeting interventions.

A recent global survey of more than 2,000 e-TB Manager users from nine countries revealed high satisfaction with the tool.¹ Among the users surveyed, 81% agreed that e-TB Manager helps them improve patient care, and 77% agreed that they can find the information needed for case management. A vast majority of users (80%) found e-TB Manager to be reliable, 77% were satisfied with e-TB Manager, and nearly 70% agreed that their workplace productivity has improved with the use of e-TB Manager.



IMPLEMENTATION

To meet the evolving needs of national TB programs, e-TB Manager version 3.0, a downloadable platform with the ability to run offline to minimize internet connectivity challenges, was developed. The new version has an improved interface and a user-friendly layout.



An e-TB Manager demo is available at <http://siapsprogram.org/tools-and-guidance/e-tb-manager/>.

New users will be required to register and will then receive a login name and password to navigate the system.

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¹ <http://siapsprogram.org/2016/07/25/global-survey-of-over-2000-users-reveals-high-satisfaction-with-e-tb-manager/>

SIAPS TECHNICAL BRIEF SERIES | This document is part of a series describing the technical approaches and tools used to implement SIAPS work in Pharmaceutical Systems, Pharmaceutical Services, and Supply Chain Management. The information provided does not reflect or represent the position or views of the US Agency for International Development or the US Government.

ABOUT SIAPS | The Systems for Improved Access to Pharmaceuticals and Services (SIAPS) program works to assure access to quality pharmaceutical products and effective pharmaceutical services through systems-strengthening approaches to achieve positive and lasting health outcomes. SIAPS is funded by the US Agency for International Development (USAID) and is implemented by Management Sciences for Health. For more information, visit www.SIAPSprogram.org.



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