

INFECTIOUS DISEASE DETECTION AND SURVEILLANCE (IDDS) PROJECT

Truenat training modules overview

Acknowledgements

These training modules were developed as a collaboration between the United States Agency for International Development (USAID) and its Infectious Disease Detection and Surveillance project (IDDS) and the Stop TB Partnership, as part of the *introducing New Tools Project (iNTP)*. The content is based on the Stop TB/USAID/GLI [Practical Guide to Implementation of Truenat™ Tests for the Detection of TB and Rifampicin Resistance](#), together with content provided by Molbio Diagnostics (Module 3).

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Content of modules

Module 1: Introduction

- a. Global and country TB situation
- b. TB laboratory tests and WHO recommendations
- c. Introduction to Truenat and its placement in diagnostic networks
- d. Diagnostic accuracy of Truenat

Module 2: Diagnostic Algorithm and Results Interpretation

- a. Truenat diagnostic algorithm / decision tree
- b. Patient flow
- c. Digital results reporting

Module 3: Operational Aspects (slides adapted from Molbio Diagnostics)

- a. Truenat TB PCR testing overview
- b. Equipment and supplies
- c. Test procedures for TB testing and RIF resistance testing
- d. Waste management
- e. Errors and troubleshooting
- f. Infrastructure requirements

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- g. Preventative maintenance
- h. Recording testing activities
- i. Warranty

Module 4: Order Planning and Quality Assurance (QA) and Control

- a. Forecasting and quantification
- b. Stock management
- c. Quality assurance
- d. Monitoring quality of implementation

Module 5: Monitoring and Evaluation (M&E)

- a. Monitoring outcomes and impact of using Truenat

Module 6: Specimen Collection and Referral

- a. Biosafety in TB laboratory
- b. Sputum specimen collection, packaging and storage
- c. Specimen referral

Suggested training schedule and participants

	Estimated Instructional Time	Participants
Module 1	2 hours	Lab technicians; Lab and program managers; clinicians
Module 2	2 hours	Lab technicians; Lab and program managers; clinicians
Module 3	9 hours	Lab technicians; Lab and program managers
Module 4	2 hours	Lab and program managers
Module 5	1 hour	Lab and program managers
Module 6	2 hours	Lab technicians; clinicians

Note: Module 3 includes operational aspects (Truenat MTB/RR Assay (2 hrs)), installation and navigation of Truenat machine (2 hrs), Truenat assay specimen processing demonstration (2 hrs), machine maintenance and troubleshooting (1 hr), and laboratory practicum: Truenat assay specimen processing (2 hrs).