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). The material was technically reviewed and endorsed by the Global Laboratory Initiative.

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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)
INFECTIOUS DISEASE DETECTION AND SURVEILLANCE (IDDS) PROJECT

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
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
# Influenza Detection and Surveillance (IDDS) Project

## Suggested Training Schedule and Participants

<table>
<thead>
<tr>
<th>Module</th>
<th>Estimated Instructional Time</th>
<th>Participants</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>2 hours</td>
<td>Lab technicians; Lab and program managers; clinicians</td>
</tr>
<tr>
<td>2</td>
<td>2 hours</td>
<td>Lab technicians; Lab and program managers; clinicians</td>
</tr>
<tr>
<td>3</td>
<td>9 hours</td>
<td>Lab technicians; Lab and program managers</td>
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<tr>
<td>4</td>
<td>2 hours</td>
<td>Lab and program managers</td>
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<tr>
<td>5</td>
<td>1 hour</td>
<td>Lab and program managers</td>
</tr>
<tr>
<td>6</td>
<td>2 hours</td>
<td>Lab technicians; clinicians</td>
</tr>
</tbody>
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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).