LEARNING BY DOING THROUGH EXPAND-TB

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Partnering for better diagnosis for all
OVERVIEW

Narrow Diagnostic Gap

Diagnose 130’000 MDR

Strengthen >100 Labs

Commodities
Knowhow
4 PARTNERS

- **Funding for**: essential instruments, reagents, supplies
- **Policies, norms**, international standards
- **M&E indicators and tools**
- **Ensure lowest prices and customer support**
- **Knowledge transfer**
- **Long-term on-site mentoring**
- **Procurement of new diagnostic tools**
- **Procurement of ancillary equipment and reagents**
GOALS

Improve detection and control of MDR-TB

Roll out newer diagnostic tool in TB control programs

Improve market dynamics
PHASES

**Laboratory Preparedness**
- Assessment
- Infrastructure and biosafety
- Training
- Quality Assurance
- SOPs

**Introduction new diagnostics**
- Commodities
- Integration into screening and treatment guidelines

**Impact Assessment**
- Continued support
- Impact measured
- Ensuring GLP, IQC and EQA measures
360° SUPPORT WITH LOCAL PARTNERS

- Long-term mentoring
  - Biosafety
  - Coordination Stakeholders
  - IQA, EQA
  - Policy reform
- Training
  - MOH NTP
  - Monitoring, Evaluation, Impact
  - Specimen referral
  - Supply chain
- Diagnostic Commodities
COUNTRY PARTNERS

- MOH
- NTP
- NRL
- WHO
- CDC
- PEPFAR
- GF
- ASM
- MSF
- USAID
- Fondation Mérieux
- PIH
- Others...

[Diagram of global map showing countries' involvement in TB control initiatives]
STAGED APPROACH

Short-Term

Mid-Term

Long-Term

LESSONS-1

Short-Term

Assess.  MoU  Equip.

- Initial assessments reveal precise laboratory situation
- MoU signing requires extensive dialog with ministries
- Procurement of commodities involves accurate planning, and efficient communication with consignee
LESSONS-2

- Trainings need extensive preparation, lab human resource commitments and proper follow-up

- Validation of new diagnostic tools require that comparative quality assured gold standards (Culture and DST) are in place at NRLs

- Enrollment under EXPAND-TB requires proper case finding, specimen referral, optimal processing, reporting and forecasting tools
LESSONS-3

Long-Term Reporting Mentoring

- Changing in-country landscapes can affect project outcomes:
  - Political commitment and stability
  - Laboratory staff turnover and lack of work continuity
  - Inconsistent supply chain
  - Disorganized referral network
  - Improper maintenance of infrastructure and lab equipment

- Long term mentoring requires:
  - Regular in-country monitoring of NRL proficiency
  - Early identification of lab issues before diagnostics quality/capacity is affected
  - Close coordination with in-country partners (e.g. WHO, technical agencies, ...)
UZBEKISTAN

- Early adopter of new diagnostics tools
- NRL with proper biosafety and equipment, requires proper maintenance
- Regional lab settings being upgraded
- Pilot drug resistance surveillance finalized
- Started enrollment in 2009, diagnosed already 1423 MDR-TB cases (on-target)
- High political involvement and project facilitation from government

- NRL and Regional lab refurbished with proper biosafety and equipment

- WHO role essential as coordinator and consignee of commodities

- Training of 5 lab technicians in NTRL Bangkok

- Labs inaugurated May 2010 and supplies dispatched
EXPAND TB achievements out of 27 countries:

- 19 countries visited and assessed
- 17 MoU signed
- 9 countries assessed by TB-LAT
- 10 GDF MoU signed for commodities
- 3 Countries have enrolled MDR-TB patients
- 2 new Manufacturers for speciation identified, 1 for LPA
- Already volume based price reduction of MGIT reagents by 10%

**Xpert MTB/RIF can revolutionize the implementation of EXPAND-TB**

- Adaptation of Diagnostic Algorithms
- Access to a quicker and simpler tool in a
  - defined settings (e.g. microscopy)
  - defined target populations (HIV associated TB)

➤ **Leading to quicker access to appropriate treatment**
LEARNING BY DOING

 **2007:** FIND provided evidence for scaling up very challenging new diagnostics tools in low-income high burden setting (Lesotho)
  ▪ Lessons learnt:
    ▪ Pro-activity
    ▪ Flexibility
    ▪ Short term corrective actions
    ▪ Keep quality of testing throughout the phase
  ▪ Endorsement by UNITAID with EXPAND-TB project

 **2011:** EXPAND TB can provide the same approach to collect evidence that Xpert can be scaled-up:
  ▪ In limited number of selected countries and settings
  ▪ By actively seeking evidence for scale up immediately following WHO recommendations