Xpert MTB/RIF Implementation through USAID-supported Programs

Amy Piatek
USAID/Washington

April 8, 2011
USAID is currently working in 40 countries.

<table>
<thead>
<tr>
<th>Category</th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Other Countries (20)</td>
<td>Armenia*, Azerbaijan*, Bolivia, Djibouti, Dominican Republic, Georgia*, Ghana, Haiti, Kazakhstan*, Kyrgyzstan*, Liberia, Malawi, Mexico, Namibia, Peru, Senegal, Southern Sudan, Tajikistan*, Turkmenistan, Uzbekistan*</td>
</tr>
</tbody>
</table>

- Countries of greatest need as defined by:
  - TB burden
  - TB incidence
  - HIV/AIDS prevalence
  - Prevalence or potential for MDR-TB or XDR-TB
  - Lagging case detection and treatment success rates
- Additionally, the portfolio includes countries based on
  - Technical & managerial feasibility
  - Political commitment
Key partners and mechanisms

- **WHO**: technical leadership, normative functions and technical assistance, global monitoring and evaluation function
- **CDC**: operational research, infection control, MDR surveillance, laboratory activities
- **TREAT TB**: research
- **Strengthening Pharmaceutical Systems, U.S. Pharmacopeia**: supply chain management, drug quality assurance project
- **Stop TB Partnership**, including GDF
- **TB CARE I and II, TB Task Order**: projects that implement STOP TB Strategy
What is TB CARE?

- Two new 5-year cooperative agreements awarded October 1, 2010
  - Purpose is to provide global leadership to implement USAID’s TB strategy and support to NTPs and other in-country partners
  - TB CARE I: KNCV (prime) with ATS, FHI, JATA, KNCV, MSH, The Union, WHO
  - TB CARE II: URC (prime) with Jhpiego, Partners in Health, Project Hope, WHO and others
- Projects will coordinate their activities and work collaboratively
- Majority of funding comes from USAID Missions to support NTPs in implementing their national strategic plans
## Planned USAID-supported Xpert Implementation

<table>
<thead>
<tr>
<th>Country</th>
<th>Project</th>
<th>Machines planned</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bangladesh</td>
<td>TB CARE II</td>
<td>3</td>
</tr>
<tr>
<td>Cambodia</td>
<td>TB CARE I</td>
<td>2</td>
</tr>
<tr>
<td>Dominican Republic</td>
<td>TB CARE I</td>
<td>1</td>
</tr>
<tr>
<td>India</td>
<td>WHO umbrella</td>
<td>18</td>
</tr>
<tr>
<td>Indonesia</td>
<td>TB CARE I</td>
<td>10</td>
</tr>
<tr>
<td>Kazakhstan</td>
<td>TB CARE I</td>
<td>4</td>
</tr>
<tr>
<td>Kenya</td>
<td>TB CARE I</td>
<td>3</td>
</tr>
<tr>
<td>Kyrgyzstan</td>
<td>TB CARE I</td>
<td>3</td>
</tr>
<tr>
<td>Malawi</td>
<td>TB CARE II</td>
<td>1</td>
</tr>
<tr>
<td>Mozambique</td>
<td>TB CARE I</td>
<td>1</td>
</tr>
</tbody>
</table>
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<th>Country</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Nigeria</td>
<td>TB CARE I</td>
<td>5</td>
</tr>
<tr>
<td>South Africa</td>
<td>Bilateral/URC PEPFAR (CDC)</td>
<td>1 infinity, 8 (mix 4+16)*; more planned</td>
</tr>
<tr>
<td>Uzbekistan</td>
<td>TB CARE I</td>
<td>6</td>
</tr>
<tr>
<td>Zambia</td>
<td>TB CARE I</td>
<td>1</td>
</tr>
<tr>
<td>Vietnam</td>
<td>TB CARE I</td>
<td>16</td>
</tr>
</tbody>
</table>

**Support includes:**
- procurements *(machine, cartridges)*
- technical guidance and support to NTP according to global guidelines and in-line with NTP policy
TB CARE I Core Project: Intensified Implementation of GeneXpert MTB/RIF in 3-4 countries

7-8 April, 2011 WHO Early Implementers meeting

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Project overview

- Lead partner: PMU
- Coalition partners: TBCTA partners (KNCV, WHO, JATA, FHI, MSH, ATS, The Union)
- Other partners: WHO/TDR, Dutch Lab Initiative
- Timeline: 1 March – 31 September 2011
Project objectives

**Objective 1:** Intensified introduction of Xpert MTB/RIF in 3-4 selected countries

**Objective 2:** Document lessons for planning and further Xpert MTB/RIF
PMU can offer to countries:

- Procurement of GeneXpert machines
- Initial partial supply of Xpert MTB/RIF cartridges
- Technical assistance Xpert roll-out in coordination with NTPs:
  - developing diagnostic algorithms incorporating Xpert
  - site preparation for implementation
  - import & distribution of machines & cartridges
  - training of staff in use of Xpert
  - assist with data collection
- Monitoring implementation and collecting evidence for further scale-up of Xpert, in collaboration with local research partners
Country selection

Criteria for countries to be selected for Xpert MTB/RIF implementation:

- USAID priority countries with TB CARE 1 funds
- Funding mechanism in place for operating costs, e.g. cartridge procurement, calibration, etc.
- Site selection criteria and operational considerations guided by WHO Rapid Implementation document and NTP policies
- Presence of collaborating local partners for implementation and data collection