The Xpert MTB/RIF Research Mapping Project

Anne Detjen, The Union/TREAT TB

treat TB
Technology, Research, Education, and Technical Assistance for Tuberculosis

International Union Against Tuberculosis and Lung Disease
Health solutions for the poor

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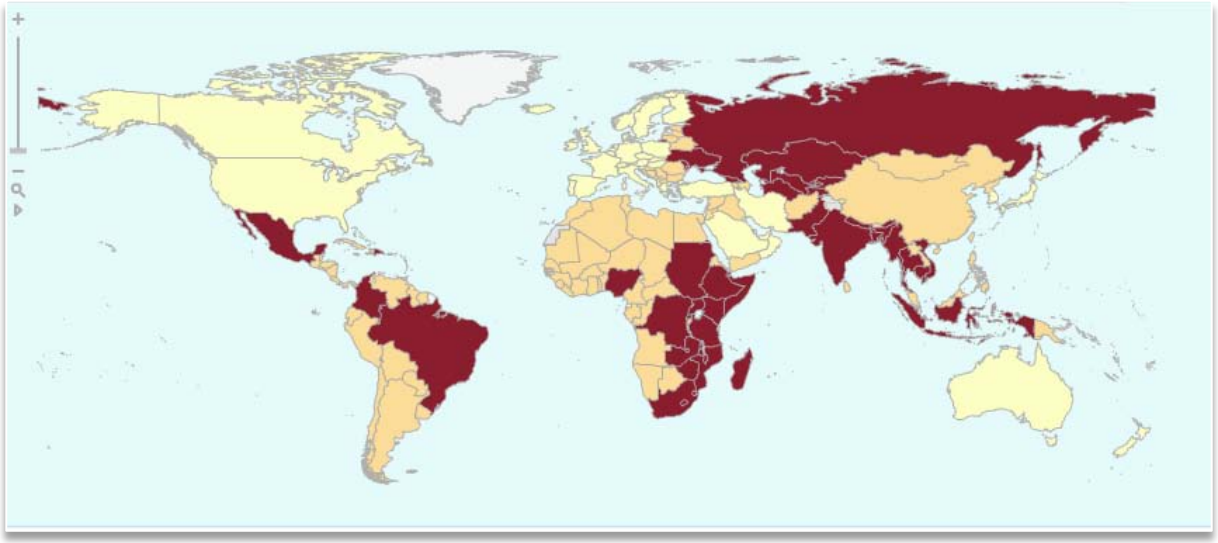
42nd Union World Conference on Lung Health

Global collaboration and coordination of Xpert MTB/RIF roll-out

- WHO: Monitoring of roll-out, procurement and procurement plans

  http://www.who.int/tb/laboratory/mtbrifrollout/en/index.html



Open Research Questions

WHO Xpert MTB/RIF Policy Statement

- Interim diagnostic algorithms in different epidemiological and geographical settings and patient populations
- Cost-effectiveness and cost-benefit in different programmatic settings
- Extrapulmonary and paediatric TB
- Impact of Xpert MTB/RIF in reducing diagnostic delay and treatment initiation
- Impact on treatment access and treatment outcomes, especially among hard-to-reach populations
- Operational issues: Calibration, power supply, shelf life, storage, waste management

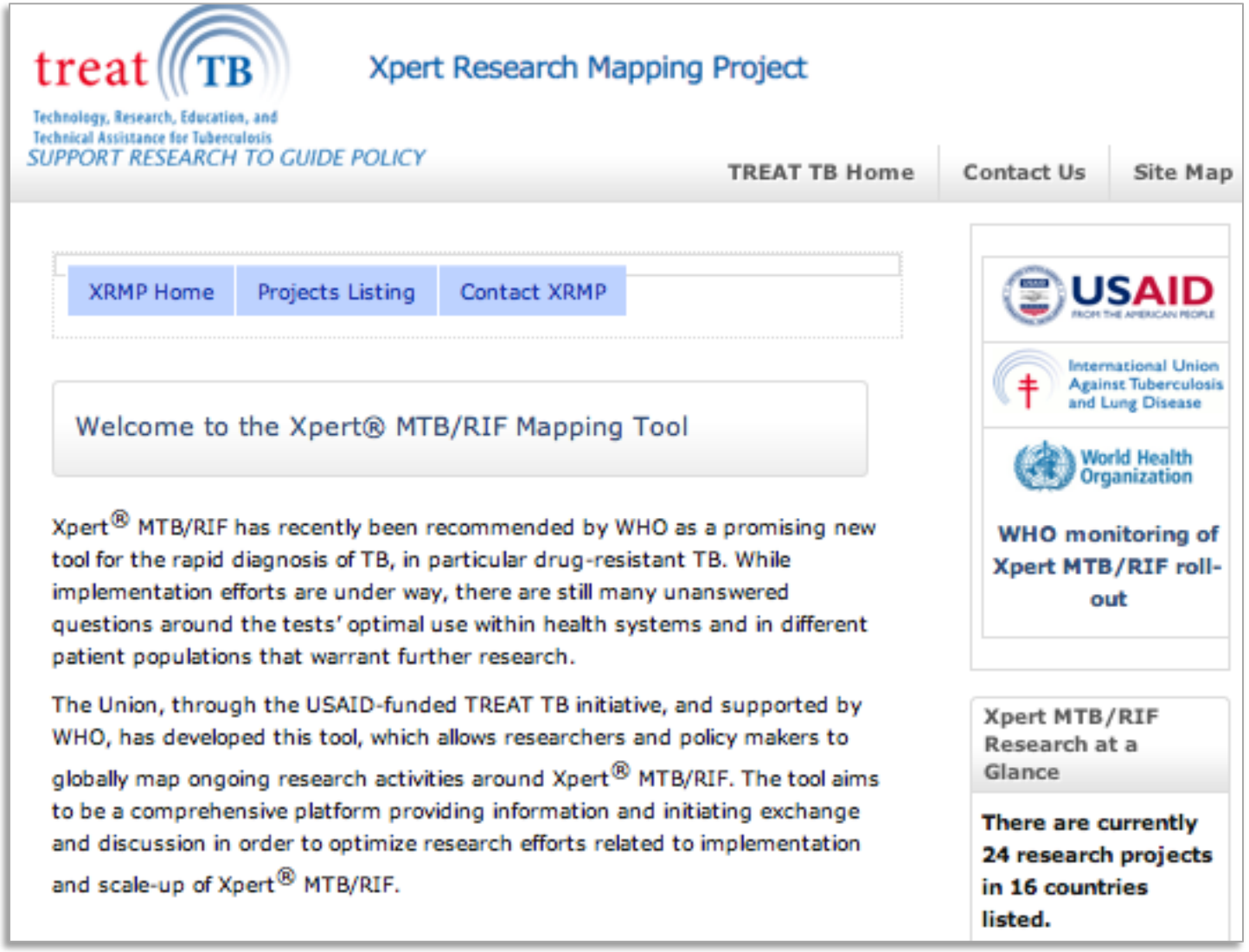
Xpert Research Mapping project

- Create a platform for researchers, implementers, policy makers
- Provide information, initiate exchange and discussion
- Optimize research efforts related to implementation and scale-up

Xpert MTB/RIF Research Mapping Project

- **Online questionnaire to capture**
  - Information on research collaborations performing Xpert research
  - Basic information on roll-out in the countries where research is performed
    - Research design (Setting, target populations, algorithms)
    - Research outcomes
  - May 2011: Distribution of questionnaire via Union, Stop TB, NDWG and other newsletters and mailing lists

www.xrmt.treattb.org



Xpert Research Projects Worldwide

Click on a country below to produce a list of projects in that country.

Or click here to search by country name, organization, target population, level of health care system, or impact assessment.

Projects listing

Select a Country (Implementation or Research) <Any>

Organization

Target Population <Any>

Level of Health Care System <Any>

Impact Assessment <Any>

Apply

Project Title	Site Location(s)	Research target population	Contact Name	Organizational Affiliation
Policy Relevant Outcomes from Validating Evidence on ImpacT (PROVE-IT) of Line Probe Assay and MTB/RIF on Presumptive Diagnosis of DR-TB in Brazil	Brazil	MDR suspects	AFRANIO LINEU KRITSKI	REDE TB / MEDICAL SCHOOL OF FEDERAL UNIVERSITY OF RIO DE JANEIRO FIOVR
Feasibility, impact and cost-efficiency of decentralizing molecular testing for detection of tuberculosis and rifampicin resistance using Xpert MTB/Rif	South Africa	All TB suspects	Andrew Whitelaw	NHLS / University of Cape Town

PROJECT CONTACT

Project Contact Name: AFRANIO LINEU KRITSKI
Org Affiliation: REDE TB / MEDICAL SCHOOL OF FEDERAL UNIVERSITY OF RIO DE JANEIRO FIOVR
Contact Email Address: KRITSKIA@GMAIL.COM
Organization or project website: http://www.redetb.org

COLLABORATING ORGANIZATION(S)

1: THE UNION - UNION INTERNATIONAL AGAINST TUBERCULOSIS
2: LIVERPOOL SCHOOL OF TROPICAL OF MEDICINE
3: NATIONAL TAIWAN UNIVERSITY
4: NEW DIAGNOSTIC WORKING GROUP
5: NATIONAL TB CONTROL PROGRAM- SVS- MINISTRY OF HEALTH- BRAZIL
6: BRAZILIAN TUBERCULOSIS RESEARC NETWORK - REDE TB
7: NATIONAL REFERENCE CENTER - ENSP - FIOCRUZ
8: MANAGEMENT SCIENCE FOR HEALTH- MSH
9: USAID
10: STATE SECRETARY OF HEALTH - SAO PAULO STATE, CEARA STATE AND RIO DE JANEIRO STATE

PROGRAMMATIC IMPLEMENTATION

This section gives basic information programmatic implemention of Xpert MTB/RIF in the country the research is performed in as provided by the research teams.

The country listed is where research is being performed.

If Xpert is being implemented within the public health programme in this country, details of the implementation process are listed.

Country:
Brazil
10° 32' 2.04" S, 55° 56' 0.9456" W
Phase of Programmatic Implementation of Xpert MTB/RIF in the Public Sector:
No implementation yet
Additional Comments:
Is Xpert MTB/RIF implemented in the private sector? Yes

Private Sector Implementation of Xpert MTB/RIF: Unknown

RESEARCH COUNTRIES

Site Location(s):
Brazil

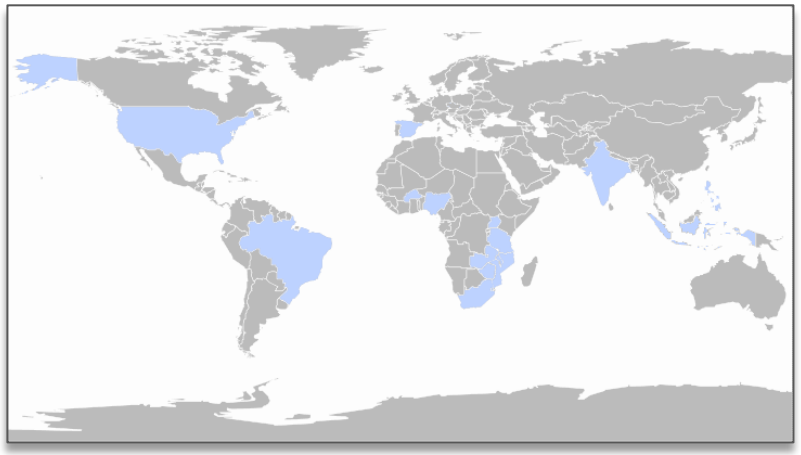
Project Overview

- Project contact & collaborators
- Programmatic implementation
- Research Location
- Timelines
- Publications
- Study design
- Research Setting
- Outcomes
- Diagnostic algorithms
- Other new tools
- Source of Funding

Some Research Details

Target population

- All TB suspects (14)
- HIV-infected (9)
- MDR suspects (7)
- Children (4)
- Other: EPTB, smear negative suspects (2)



Most countries:

No implementation at programme level

Level

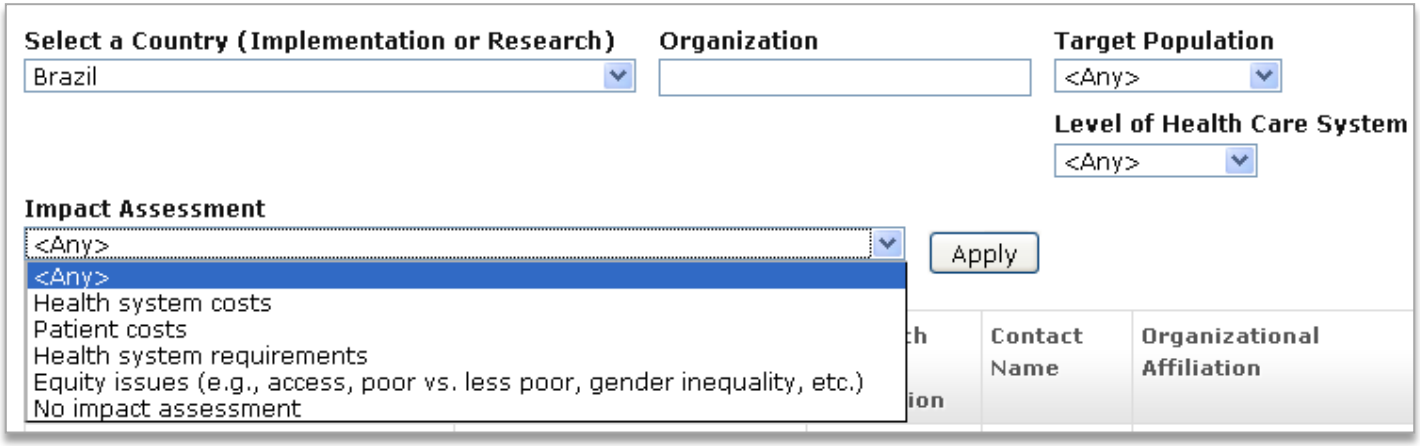
- Point of care (14)
- District (11)
- Central (7)

Outcomes (selected)

- Case finding compared to smear or culture
- Comparison of diagnostic algorithms
- Time to detection, time to treatment
- Mortality
- Yield from other samples (EPTB, blood, children)
- Xpert as rule-out test (pre IPT)
- Public Health implications

Impact assessment

- Health system costs (13)
- Patient costs (12)
- Health system requirements (12)
- Equity issues: gender inequality, access etc. (3)



Conclusions

- Multiple research projects ongoing
- There must be more!
- Comprehensive information on research approaches and anticipated outcomes
- Is it useful?
- Potential to inform research community and policy makers alike

Participate and enter your Xpert MTB/RIF research project: www.xrmt.treattb.org

For questions:

xpertmappingtool@theunion.org

Thank you: all the participants in the project
Christine Hunt, Cathriona MacCauley, Don Koller

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