New Diagnostics Working Group E-News
November 2013

New scientific articles

Validation of Biomarkers for Distinguishing Mycobacterium tuberculosis from Non-Tuberculous Mycobacteria Using Gas Chromatography–Mass Spectrometry and Chemometrics

Feasibility, accuracy, and clinical effect of point-of-care Xpert MTB/RIF testing for tuberculosis in primary-care settings in Africa: a multicentre, randomised, controlled trial

Comparative Evaluation of GenoType MTBDRplus Line Probe Assay with Solid Culture Method in Early Diagnosis of Multidrug Resistant Tuberculosis (MDR-TB) at a Tertiary Care Centre in India.

LED-Fluorescence Microscopy for Diagnosis of Pulmonary Tuberculosis under Programmatic Conditions in India.

Systematic review of the performance of rapid rifampicin resistance testing for drug-resistant tuberculosis.

Mutation in katG315 is, possibly, a good prognostic marker for treatment with second-line drugs in multidrug-resistant tuberculosis: A preliminary study.

Cost-effectiveness of routine diagnostic evaluation of pulmonary tuberculosis in a primary care unit in Brazil.

Cost-effectiveness of Xpert® MTB/RIF for diagnosing pulmonary tuberculosis in the United States.

Validation of sputum smear results in the Electronic TB Register for the management of tuberculosis, South Africa.

First proficiency testing of second-line anti-tuberculosis drug susceptibility testing in 12 provinces of China.

Comparison of molecular and immunological methods for the rapid diagnosis of smear-negative tuberculosis.

Point-of-care diagnostics for tuberculosis elimination?
Wejse C. Lancet. 2013 Oct
Meta-analysis to compare the accuracy of GeneXpert, MODS and the WHO 2007 algorithm for diagnosis of smear-negative pulmonary tuberculosis.

Discordance across several drug susceptibility methods for drug-resistant tuberculosis in a single laboratory.

Diagnostic Accuracy of Quantitative PCR (Xpert MTB/RIF) for Tuberculous Meningitis in a High Burden Setting: A Prospective Study.

Key Publications

Global Tuberculosis Report 2013
WHO

Xpert MTB/RIF system for the diagnosis of pulmonary and extrapulmonary TB in adults and children
WHO - Policy Update

Treatment Action Group

TB Microscopy Network Accreditation - An Assessment Tool
Global Laboratory Initiative

TB Sputum Microscopy - The Handbook
Global Laboratory Initiative

Other Publications

The International Journal of Tuberculosis and Lung Disease
December 2013 Issue online

Nature Supplement: Tuberculosis Special Focus
Nature October 2013

Household tuberculosis interventions—how confident are we?
Getahun H, Raviglione M. Lancet. 2013 Oct

Review of the European Respiratory Society Congress 2013
Treatment strategies respiratory

Provisional CDC Guidelines for the Use and Safety Monitoring of Bedaquiline Fumarate (Sirturo) for the Treatment of Multidrug-Resistant Tuberculosis.
CDC

News

4th Advanced TB Diagnostic Research Course
McGill University, Montreal, Quebec, Canada - July 7–11, 2014

The Future of TBDx and Computer Vision Microscopy has arrived
Applied Visual Sciences Blog
The Global Fund New Funding Model
The Global Fund has developed a new funding model that will allow it to invest more strategically, maximize its resources and achieve greater global impact.

TB challenge over 'missing' millions
BBC

Tuberculosis: a war that must be won on the ground and in the field
The Lancet Global Health Blog

Dramatic scale-up of programmatic management of drug-resistant TB in India
CNS

Shortage of #TB drugs is a reality