New Diagnostics Working Group E-News
June 2014

Key publications
- Risk assessment guidelines for infectious diseases transmitted on aircraft (RAGIDA) – Tuberculosis
  ECDC
- Review of the Tuberculosis Programme in Kosovo
  WHO-EURO
- Bulletin of the WHO– Collaboration is key for new global tuberculosis strategy
  WHO
- Ancient Enemy, Modern Imperative: A Time for greater action against Tuberculosis
  The Economist- Intelligence Unit
- WHO targets elimination of TB in over 30 countries
  - Fact sheets
  - Infographic TB Elimination
  WHO/ERS

Scientific articles
- The performance and limitation of T-SPOT.TB for the diagnosis of TB in a high prevalence setting.
- A comparison between the efficiency of the Xpert MTB/RIF assay and nested PCR in identifying
  Mycobacterium tuberculosis during routine clinical practice
  HS. J Thorac Dis. 2014 Jun
- IP-10 is an accurate biomarker for the diagnosis of tuberculosis in children.
  Latorre I, Díaz J, Mialdea I, Serra-Vidal M, Altet N, Prat C, Diez N, Escribano A, Casas I, Rodrigo C,
  Ausina V, Ruhwald M, Dominguez J. J Infect. 2014 Jun
- Evaluation of real-time loop-mediated isothermal amplification (RealAmp) for rapid detection of
  Mycobacterium tuberculosis from sputum samples
- Serologic diagnosis of tuberculosis by combining Ig classes against selected mycobacterial targets.
  Baumann R, Kaufmper S, Chegou NN, Oehlmann W, Loxton AG, Kaufmann SH, van Helden PD, Black
  GF, Singh M, Walzl G. J Infect. 2014 Jun
- A comparison of tools used for tuberculosis diagnosis in resource-limited settings: a case study at
  mubende referral hospital, Uganda.
Rapid Detection of Mycobacterium Tuberculosis Using a Novel Ultra-Fast Chip-Type Real-Time PCR System.

Evaluation of a biphasic media assay for pyrazinamide drug susceptibility testing of Mycobacterium tuberculosis.

Screening for Streptomycin Resistance-Conferring Mutations in Mycobacteriumtuberculosis Clinical Isolates from Poland.

Cost-effectiveness of rapid susceptibility testing against second-line drugs fortuberculosis.

Linezolid in the treatment of drug-resistant tuberculosis: the way forward?
Yew WW, Lange C. Int J Tuberc Lung Dis. 2014 Jun

Xpert MTB/RIF as a Measure of Sputum Bacillary Burden. Variation by HIV Status and Immunosuppression
Hanrahan CF, Theron G, Bassett J, Dheda K, Scott L, Stevens W, Sanne I, Van Rie A. Am J Respir Crit Care Med. 2014 Jun

Performance of solid and liquid culture media for the detection of Mycobacteriumtuberculosis in clinical materials: meta-analysis of recent studies

The identification of tuberculosis biomarkers in human urine samples.

Novel DNA chip based on a modified DigiTag2 assay for high-throughput species identification and genotyping of Mycobacteriumtuberculosis complex isolates.

Concordance between molecular and phenotypic testing of Mycobacteriumtuberculosis complex isolates for resistance to rifampin and isoniazid in the United States

Comparison of Xpert MTB/RIF with line probe assay for detection of rifampin-monoresistant Mycobacterium tuberculosis.

Diagnostic accuracy of Xpert MTB/RIF for extrapulmonary tuberculosis specimens: establishing a laboratory testing algorithm for South Africa

Other publications

Treating tuberculosis as a social disease
Ali M.

Identification of differentially expressed long non-coding RNAs in CD4+ T cells response to latent tuberculosis infection.
Prevalence, screening and treatment of latent tuberculosis among oral corticosteroid recipients.
Vozoris NT, Seemangal J, Batt J. Eur Respir J. 2014 Jun

Biochemical Characterization of Quinolinic Acid Phosphoribosyltransferase from Mycobacterium tuberculosis H37Rv and Inhibition of Its Activity by Pyrazinamide

Nanoparticles as Drug Delivery System against Tuberculosis in Zebrafish Embryos: Direct Visualization and Treatment

Tuberculosis control in New York City—a changing landscape

Tuberculosis in BRICS: challenges and opportunities for leadership within the post-2015 agenda

Multidrug-resistant tuberculosis in the United Kingdom and Lithuania.
Gonzalo X, Hutchison DC, Drobniewski FA, Pimkina E, Daviddaviene E. Int J Tuberc Lung Dis. 2014 Jun

Survey of tuberculosis drug resistance among Tibetan refugees in India.

Multidrug-resistant and extensively drug-resistant tuberculosis: a review of current concepts and future challenges
Günther G. Clin Med. 2014 Jun

Treatment optimization in patients co-infected with HIV and Mycobacterium tuberculosis infections: focus on drug-drug interactions with rifamycins.

Measuring the effect of tuberculosis control: a step forward.
Migliori GB, Sotgiu G. Lancet. 2014 Jun

Tuberculosis prevalence in China, 1990-2010; a longitudinal analysis of national survey data


Immunology: Fixing the odds against tuberculosis
Behar SM, Sassetti CM. Nature. 2014 Jul

Prevalence, screening and treatment of latent tuberculosis among oral corticosteroid recipients
Vozoris NT, Seemangal J, Batt J. Eur Respir J. 2014 Jun

Operational research leading to rapid national policy change: tuberculosis-diabetes collaboration in India

Host-directed therapy of tuberculosis based on interleukin-1 and type I interferon crosstalk

Analysis of 30 Patients with Acupuncture-Induced Primary Inoculation Tuberculosis
News

Cheap test slashes time taken to diagnose TB
Health Officials Aim to Eliminate TB in 33 Countries
U.K. Omitted From Plan to Eliminate TB in Rich Countries
Vatican official opens global TB meeting
Nepal PM diagnosed with tuberculosis: Party spokesman
Pere Joan Cardona, recognized for research into tuberculosis vaccine

The Orbital® inhaler, developed by PA for Pharmaxis, is being used in key research to combat tuberculosis
The establishment of a national TB coalition in Macedonia sets the example for other countries in the region