

46. Innovative solutions in surveillance of drug-resistant TB: from phenotypic to molecular testing

Saturday, 01 November 2014, 14:00 - 16:00

Room 112



Type Symposium

Track TB Bacteriology and Immunology

Topic TB diagnostics and drug susceptibility testing

Description Drug-resistant tuberculosis (DR-TB) is a major global health care problem. Understanding the burden is essential to the success of control programmes, especially with the advent of new molecular technologies which allow faster patient diagnosis and more frequent monitoring of DR-TB. This symposium will discuss performance of molecular approaches to the diagnosis of DR-TB and their applications in surveillance of DR-TB. Testing for resistance to fluoroquinolones and pyrazinamide and the role of routine surveillance vs surveys will also be discussed.

Target audience Government health programme and health policy staff, epidemiologists, laboratory experts and academic researchers with interests in surveillance of drug resistance in TB.

Objectives

1. To present data from settings using different molecular technologies to identify drug resistance
2. To share results of a surveillance project to assess pyrazinamide and fluoroquinolone resistance
3. To demonstrate how sequencing technologies can be used for surveillance of drug resistance in TB
4. To critically appraise the use of surveys versus routine surveillance for DR-TB control programmes

Keywords New diagnostic tools; Xpert MTB/RIF; line probe assays; sequencing technologies; surveillance; drug resistance in TB

Coordinator(s) Ananta Nanoo (South Africa), Alaine Umubyeyi Nyaruhirira (South Africa)

Chair(s) Armand Van Deun (Belgium), Ibrahim Abubakar (UK)

Presentations

14:00 - 14:15 Performance of rapid rifampicin testing: experiences from multiple settings
Armand Van Deun (Belgium)

14:20 - 14:35 Resistance to pyrazinamide and fluoroquinolones: results from a multi-country surveillance project
Matteo Zignol (Switzerland)

14:40 - 14:55 Surveillance of drug resistance in Central Asia
Marija Joncevska (USA)

15:00 - 15:15 Whole genome sequencing for drug resistance surveillance: experience from a large scale drug resistance survey in South Africa
Nazir Ismail (South Africa)

15:20 - 15:35 From facility to finding drug resistance mutations, the drug resistance survey in Nigeria
Victor Sebastian (Nigeria)

15:40 - 15:55 Xpert MTB/RIF as a screening tool in the national drug resistance survey of Pakistan
Sabira Tahseen (Pakistan)