

12. Practical laboratory issues in low-resource settings

Wednesday, 29 October 2014, 09:00 - 17:00

Room 111



Type Workshop

Track TB Bacteriology and Immunology

Topic TB laboratories: quality management and TB laboratories' network

Organised by Centers for Disease Control and Prevention (CDC)

Duration Full-day

Max attendees 100

Meeting type Open meeting

Description Laboratories play a major role in the early diagnosis and follow-up of TB cases. The use of proper diagnostics at appropriate levels in the country and for the vulnerable sections in the communities can help in the early detection of cases with disease or infection for a suitable treatment. Early detection of drug resistant cases can also ensure the proper regimen and control of drug-resistant TB. This requires strengthening of the TB laboratory services and support and co-operation of the national TB control programmes, epidemiologists, clinician and laboratorians. Important recent advances in TB laboratory diagnostics should now be correctly utilised in early case detection and in choosing appropriate treatment regimen. Lack of understanding, resources, and quality systems have resulted in the neglect of laboratory services including implementation of newer and rapid diagnostic methods. Laboratory safety is another least addressed area. The relative risk of TB infection for laboratorians and health care workers depend upon the type of work or technique they are using. Adherence to proper bio-safety techniques provides high level of safety.

Target audience TB control programme managers, laboratory managers, epidemiologists, programme managers, clinicians, TB consultants, and trainers

Objectives

1. To discuss practical solutions to the challenges encountered in the implementation of newer diagnostic methods at various levels in a country
2. To discuss bio-safety, bio security and bio-risk at laboratory and community levels
3. To discuss quality management systems and external quality assessment mechanisms for various techniques in the TB diagnostics
4. To discuss the role of culture and newer methods in drug susceptibility testing in identification of drug resistance cases

Expected outcome At the end of this workshop participants will be able to understand the challenges and solutions in the implementation of appropriate diagnostics at different level of services. The participants will have understanding on bio-safety, biosecurity, and biorisk related issues. Participants will understand the quality management systems and appropriate use of external quality assurance. Participants will have useful information to their common laboratory and programme specific problems related to training, quality testing, procurement, inventory, EQA, smear microscopy, culture and DST, and implementation of newer diagnostic methods. This will help in providing proper support by the programmes managers resulting in improved quality of laboratory results and appropriate use of laboratory services by clinicians and epidemiologists.

Keywords New diagnostic methods

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Presentations

1. Newer diagnostics
2. Biosafety, biosecurity and biorisk
3. Quality management system
4. External quality assessments
5. Microscopy
6. TB culture
7. Molecular techniques
8. Accreditation