Session N.00165

02. An introduction to tuberculosis modelling (TB modelling and analysis consortium)

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

Room 128

Type Post-graduate Course

Track Tuberculosis

Topic Other

Duration Full-day

Max attendees 25

Description For individuals interested in modelling Tuberculosis and the impact of TB care and control programmes. It will introduce participants to the basic structures, assumptions, principles, and concepts of TB modelling, including key aspects of Mtb natural history and the impact and cost-effectiveness of TB care and control programmes. Participants will gain hands-on experience of using a TB model and how to appraise TB modelling papers. We will also highlight the role of modelling for policy and decision making and resources available from the TB Modelling and Analysis Consortium (www.tb-mac.org).

Target audience TB and HIV researchers, heads of national TB programmes, policy-makers, decision-makers, epidemiologists, clinicians.

Objectives

1. Introduce participants to the basic structures, assumptions, principles, and concepts of TB modelling
2. Introduce key aspects of Mtb natural history, impact and cost-effectiveness of TB care and control programmes
3. Provide hands-on experience of using a TB model and the insights they can provide
4. Provide training in the critical appraisal of modelling papers
5. Highlight role of modelling for policy and decision making and modelling resources available from TB MAC

Keywords TB; prevention; control; preventive therapy; care; economics; treatment; mathematical modelling

Coordinator(s) Philip Eckhoff (USA), Rein Houben (UK)

Chair(s) Richard White (UK)

Presentations

1. Lecture 1: An introduction to Tuberculosis modelling
Richard White (UK)

2. Practical 1: Setting up a model of Mtb
Emilia Vynnycky (UK), Tom Sumner (UK)

3. Paper Discussion: How to critically review a modelling paper
Philip Eckhoff (USA), Gwenan Knight (UK)

4. Lecture 2: Tuberculosis modelling – interventions and cost effectiveness
Rein Houben (UK), Anna Vassall (Netherlands)

5. Practical 2: Modelling the impact and cost effectiveness of TB interventions
Emilia Vynnycky (UK), Tom Sumner (UK)

6. Summary of the day
Richard White (UK)