Dear <<First Name>>,

Welcome to the latest TB Modelling and Analysis Consortium (TB MAC) newsletter, with information for TB modellers, epidemiologists, and decision-makers. This newsletter contains information on job opportunities, our next TB MAC seminar and papers from our community.

**TB MAC activities for early TB modellers [1800 Thurs 16 November at the Union]**

TB MAC is aiming to set up activities to support TB modelling trainees, students, and those new to the field. We would particularly like to hear from you about activities that you would like to see to help you better integrate into the existing network of TB modellers. Please do join us at our Thursday evening social at the Union conference (1800 local time, venue to be confirmed) if you are able, to discuss your thoughts. We would also welcome your thoughts via email (tb-mac@lshtm.ac.uk) if you are unable to join us.

**Early notice – exciting job opportunities at LSHTM [Opens Fri 3 November]**

The London School of Hygiene and Tropical Medicine are looking for three enthusiastic new team members, at either Research Assistant or Research Fellow level to join the TB Modelling group (http://tbmodelling.lshtm.ac.uk). Successful candidates will contribute to projects within the group, including manipulation of TB mathematical models in R to examine the optimal combination of TB interventions across multiple countries, and the effect of subclinical TB on the potential impact of TB vaccines.

Successful candidates will have a relevant first degree in the field of Epidemiology (or similar degree with quantitative, public health or biomedical focus) at Research Assistant level or postgraduate degree, ideally a doctoral degree, in a relevant topic at Research Fellow level. Further particulars are included in the job description, which will be available on https://jobs.lshtm.ac.uk/Vacancies.aspx and www.iddjobs.org **by Friday 3rd November**. Interested individuals are encouraged to contact Prof Houben (Rein.Houben@lshtm.ac.uk) or Prof White (Richard.White@lshtm.ac.uk).

**Join our next TB MAC seminar: Sandip Mandal and Mathieu Bastard on Estimating tuberculosis incidence and mortality in India [30th November 1400-1500 BST]**

TB MAC would like to invite you to  join us for a seminar Estimating tuberculosis incidence and mortality in India, given by members of the TB MAC community, Sandip Mandal and Mathieu Bastard on the 30th November 1400-1500 GMT. See below for more details on the seminar, presenters and how to join.

Seminar summary:

Until recently, estimates of TB burden in India depended on survey results from 2011 from one state accounting for a small proportion of the country's population. However, the recent National Prevalence Survey (the largest of its kind) has offered new insights, not just into national and state level prevalence, but also the prevalence of TB infection. Additionally, routine surveillance data is increasingly available through a robust, case-based, web-enabled patient management system for TB Control. We combined this data, together with other sources of evidence (including the sales of anti-TB drugs in the private sector), to update estimates of TB incidence and mortality in the country from 2011 to 2022. Applying methods used by WHO, we also projected the impact of COVID-associated disruptions in TB services, on TB incidence and mortality in recent years. In this presentation we will describe the underlying methodology of this approach. Finally, we will discuss how these methods can be applied in other high-burden settings with similar data.

Presenter bio:

Sandip Mandal is Senior Advisor for Data Analytics and Mathematical Modelling at John Snow India in New Delhi, as well as adjunct associate professor at the Indian Institute of Technology (IIT) - Bombay. He also works with the Modeling, Planning and Policy Analysis team at Avenir Health in the United States on various TB modeling projects. He received his doctorate in Physics from Visva Bharati University in India in 2009. His current research focuses on infectious disease epidemiology, with a particular emphasis on policy issues concerning human tuberculosis (TB). He works closely with India's national TB programme, as well as the Stop TB Partnership and the WHO South East Asia Regional Office. He has contributed professional assistance to the recent National Strategic Plans of several countries (Nepal, Bangladesh, and Indonesia).  During the COVID-19 pandemic, as a member of the ICMR's National Task Force for COVID-19, he assisted the Indian Council of Medical Research, India's leading institute for biomedical research, in preparing key policy measures for India's COVID-19 response. To date he has published over 50 research papers in the national and international peer-reviewed literature.

Mathieu Bastard is a statistician in the TB Monitoring, Evaluation and Strategic Information unit of the Global Tuberculosis Programme in WHO supporting the work on the TB disease burden estimates published every year in the Global TB report, national TB prevalence survey and drug-resistant survey. He holds a MSc in mathematics and statistics from the University of Lyon. Before joining WHO, Mathieu worked for 12 years with Epicentre and Médecins Sans Frontières so support MSF operational research TB projects in Eastern Europe, Sub-Saharan Africa and Asia. He has extensive experience in analyzing data from survey and observational study in the field of TB including TB screening, diagnostic and treatment.

Joining details:
The seminar will take place online on the 30th November 1400-1500 GMT, dial-in details:
https://lshtm.zoom.us/j/97175041233?pwd=Wm1kL3JXZFpQNHptZlZlbzhtU3VZQT09
Meeting ID: 971 7504 1233
Password: 740544

Click below to add the event to your calendar and ensure you don't miss out!

Apple  Google  Office 365  Outlook  Outlook.com  Yahoo

**Papers:**

Dodd et al evaluate the Global Burden of Disease TB estimates from the Institute for Health Metrics and Evaluation

Guo et al investigate the global dynamics of a TB model with age-dependent latency and time delays in treatment

Clark et al model the potential health and economic impacts of new TB vaccines in Delhi and Gujarat

Menzies et al estimate the global burden of disease in DALYs due to rifampicin-resistant TB

Mafirakureva et al estimate the cost-effectiveness of improved diagnosis and preventive therapy for paediatric TB in 9 sub-Saharan African countries

Kasaie et al demonstrate that the impact of preventive treatment for multidrug- and rifampin-resistant TB exceeds trial-based estimates

Pei et al evaluate the value-of-information and value-of-implementation from clinical trials of diagnostic tests for HIV-associated TB

d'Elbée et al estimate the cost-effectiveness and budget impact of decentralising childhood TB diagnosis in six high incidence countries

Dowdy & Sohn discuss a framework for estimating cost-effectiveness of interventions to improve case finding for TB


For more information on TB MAC, or to get involved, please contact any of the TB MAC Committee, visit www.tb-mac.org or email us directly at tb-mac@lshtm.ac.uk.


Best wishes,

Richard, Finn, Christina and the TB MAC Committee

www.tb-mac.org

tb-mac@lshtm.ac.uk


**GDPR compliance**

In line with the new European data protection regulations (GDPR), we would like to make sure that you still want to hear from us and keep receiving the newsletter. Subscription to the newsletter means we have your name, email and organisation details stored in a private mailing list.  If you no longer like us to keep this information or no longer wish to receive newsletters please click on unsubscribe below. Should you choose not to unsubscribe we will take this as your acceptance to continue receiving newsletters from us.

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