TB Modelling and Analysis Consortium

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 an upcoming TB MAC seminar, a job opening and papers from our community.

Join our next TB MAC seminar: Florian Marx presenting on the Impact of COVID-19 response measures on TB health services and epidemiology in Brazil, India and South Africa [29th June 1600-1700 BST]
TB MAC would like to invite you to join us for a seminar on the Impact of COVID-19 response measures on TB health services and epidemiology in Brazil, India and South Africa, given by a member of the TB MAC community, Florian Marx, on the 29th June 1600-1700 BST. See below for more details on the seminar, presenter and how to join and add this event to your calendar.

Summary: The COVID-19 pandemic has aggravated tuberculosis (TB) as a public health concern. Many countries have experienced serious disruptions in accessing and delivering TB health-care services due to lockdowns and reallocation of health-care resources to prevent the spread of COVID-19. This talk will present and discuss a model-based analysis conducted as part of a larger multi-disciplinary project funded under the BRICS STI Framework Programme. The analysis aimed at estimating TB health-care service disruptions in Brazil, India and South Africa. It made use of autoregressive integrated moving average (ARIMA) time-series models to quantify these disruptions using routine TB programme data on TB testing, case notifications and treatment outcomes during 2017-2021. Estimates from the ARIMA analysis were then used to inform a country-level transmission-dynamic model of TB to estimate the impact on TB epidemiology and progress towards the End TB Strategy targets. The analysis explored the potential additional impact of future pandemic waves and associated response measures, as well as post-pandemic mitigation strategies to improve access to TB diagnostic services. The talk will also address limitations of using aggregated, national-level programmatic data to investigate and quantify TB health service disruption during COVID-19.

Presenter bio: Florian Marx is a physician-scientist, epidemiologist and mathematical modeller based at the Division of Infectious Disease and Tropical Medicine at Heidelberg University Hospital, Germany. He is interested in the epidemiology of infectious diseases and the public health impact of diagnostic and other health

interventions. His main research focus has been on interventions for reducing tuberculosis in high-burden populations. Florian received his medical degree from Charité University Hospital in Berlin, a M.Sc. Epidemiology degree from the London School of Hygiene and Tropical Medicine, UK, and a Ph.D. degree from Stellenbosch University, South Africa. He has undertaken postdoctoral research at Harvard Medical School and Yale School of Public Health, USA, where he trained in transmission-dynamic modelling and health-economic analysis. Florian holds a co-affiliation with Stellenbosch University, South Africa, where he leads a TB modelling initiative. He also currently serves as ExCo member of the South African Tuberculosis Think Tank (SA National Department of Health) and chair of its Task Team: Epidemiology, Modelling and Health Economics.

Joining details: The seminar will take place online on the 29th June 1600-1700 BST,
Dial-in details:: https://lshtm.zoom.us/j/93798931371?pwd=aWhvb2dUTFlRdEFYSGdTeGU2LzdlZz09
Meeting ID: 937 9893 1371
Password: 011209

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

Apple Google Office 365 Outlook Outlook.com Yahoo

Job opportunity: Research Scientist, Massachusetts General Hospital and Harvard Medical School

The Medical Practice Evaluation Center (MPEC) at Massachusetts General Hospital and Harvard Medical School has an opportunity for an enthusiastic and energetic individual to join our research team investigating the clinical and economic value of alternative strategies of HIV and tuberculosis diagnosis, treatment, and prevention, as well as modeling of other diseases and care. Qualifications include: (1) PhD or ScD in Operations Research, Decision Science, Systems Engineering, Industrial Engineering, Biostatistics, Epidemiology, or related area; (2) minimum of 5 years of research experience (inclusive of graduate studies). The candidate should be highly motivated with extensive experience in quantitative methods, independent mathematical model development, parameterization, and debugging. A more detailed job description and instructions for applying are here.

Papers:

Joshi & Yavuz model coinfection of COVID-19 and TB
Kifle & Obsu model coinfection of COVID-19 and TB with vaccination and reinfection
Cho et al estimate the cost-effectiveness of an age-expanding strategy for infection treatment in household contacts in South Korea
Selvam et al model coinfection of COVID-19 and TB
Diao et al evaluate the economic impact of use of a recombinant M.tb fusion protein (EC) test for the diagnosis of infection
Park et al estimate the cost-effectiveness of all-oral regimens for MDR-TB in Korea

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.