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 details on job and PhD opportunities, the next TB MAC seminar and papers from our community.

Job opportunity: Doctoral student/postdoc in epidemiological modelling, Heidelberg University Hospital [deadline 31 December]

You will be part of an interdisciplinary research team and work on projects primarily focusing on population-level impact, cost and budget-related implications of prevention, diagnostic and care interventions of respiratory diseases relevant for Global Health, with a special focus on tuberculosis. Projects are conducted in collaboration and engagement with international partners (e.g. in South Africa) and international organizations (e.g. FIND, WHO, Bill & Melinda Gates Foundation). The projects offer exciting opportunities for learning and career development. See here for further details or contact Florian Marx (florian.marx@uni-heidelberg.de).

PhD opportunity: London School of Hygiene and Tropical Medicine [deadline 16 January]

This project will extend an existing state-of-the-art mathematical model of tuberculosis, developed and programmed in R, to identify optimum strategies for vaccine deployment. In particular the project will focus on investigating how best to deploy vaccines and dynamically adapt vaccine strategies in "alternative futures", where other (non-vaccine) TB control options (e.g., new drug treatments, or better diagnostics) are introduced. The evidence from this work will support countries in their TB vaccine introduction decision making and will be disseminated in policy briefs, publications, conference presentations and via policy networks (WHO, CTVD, Stop TB, country TB programmes). See here for further details or contact Tom Sumner (tom.sumner@lshtm.ac.uk), Rebecca Clark (rebecca.clark@lshtm.ac.uk) or Richard White (richard.white@lshtm.ac.uk).

Join our next TB MAC seminar: Nyasha Mafirakureva and Marc D'Elbee on costs and cost-effectiveness of models of care for tuberculosis in children [25th January 1400-1500 GMT]

TB MAC would like to invite you to join us for a seminar Costs and cost-effectiveness of models of care for tuberculosis in children, given by members of the TB MAC community, Nyasha Mafirakureva and Marc D'Elbee on the 25th January 1400-1500 GMT. See below for more details on the seminar, presenters and how to join.

Seminar summary:
WHO estimates that more than 1 million children develop tuberculosis and close to a quarter of a million die every year. Innovative models of tuberculosis detection and management in children are urgently

required to reduce morbidity and mortality. WHO recommends using decentralised and family-centred, integrated models of tuberculosis care. Evidence on the costs and cost-effectiveness of these models of tuberculosis care is minimal but required to inform their adoption and scale-up by policymakers and was highlighted as a research priority. Our presentation will review some evidence on the costs and cost-effectiveness of models of care for tuberculosis in children derived from recently completed trials and real-world studies focusing on children.

Presenter bios:

Dr. Nyasha Mafirakureva is a health economist and research fellow in the Health Economics and Decision Science section of the Sheffield Centre for Health and Related Research at the University of Sheffield in the UK. He is currently working on the economic evaluation of paediatric tuberculosis interventions in lower-middle-income countries (LMIC). He previously worked at the University of Bristol, UK, where he evaluated the impact and cost-effectiveness of interventions for infectious diseases in low and middle-income countries.

Dr Marc d'Elbée is a health economist and pharmacist with over seven years of experience in implementation research. He works with clinicians, mathematical modellers, and social scientists on global health programs on HIV and TB, mostly in the African continent. He worked as a research fellow at LSHTM for six years, then he joined the university of Bordeaux (France) in 2022. His research focuses on economic evaluations including costing, budget impact modelling, scale-up cost modelling, and cost-effectiveness analysis, as well as preference research using discrete choice experiments. He is also a visiting research fellow at the Centre Population & Développement at the Université Paris Cité.

Joining details:
The seminar will take place online on the 25th January 1400-1500 GMT, dial-in details:
https://lshtm.zoom.us/j/96045948437?pwd=MHd4emVoTVpOblVDNWpXclVyWGhqdz09
Meeting ID: 960 4594 8437
Password: 783025

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:

Flores-Garza et al model TB progression for drug target identification

Arinaminpathy et al model efforts in 24 countries to meet the 2030 END TB goals in the wake of COVID-19

Adeyemo et al model transmission dynamics of TB-HIV co-infection in South Africa

Mafirakureva et al estimate the cost-effectiveness of community-based household TB contact management for children in Cameroon and Uganda

Shrestha et al quantify the potential impact of a 2-year active case finding intervention in rural Nepal

Havumaki et al evaluate a spatially-targeted TB screening approach, compared to household contact tracing, in Lima, Peru

Achar et al explore pragmatic treatment choices for RR-TB in the absence of second-line drug susceptibility testing

Rosu et al estimate the cost of digital technologies and family-observed DOT for a shorter MDR-TB

regimen in Ethiopia, India and Uganda

Oyageshio et al model the effect of demographic changes on TB infection susceptibility in South Africa

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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