



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 of the next TB MAC seminar, funding available to attend the Introduction to TB Modelling Course at the Union, TB MAC social evening at the Union and papers from our community.

Join our next TB MAC seminar: Alvaro Schwalb on Estimating the global burden of viable Mycobacterium tuberculosis infection [19th September 1400-1500 BST]

TB MAC would like to invite you to join us for a seminar, Estimating the global burden of viable Mycobacterium tuberculosis infection, given by a member of the TB MAC community, Alvaro Schwalb, on the **19th September 1400-1500 BST**. See below for more details on the seminar, presenters and how to join.

Seminar summary

The latest re-estimation of the global burden of Mycobacterium tuberculosis (Mtb) infection is nearly 10 years old. We constructed national annual risk of infection trends accounting for immunoreactivity reversion, age-specific risks, and self-clearance of infection to estimate the burden of viable Mtb infection.

Presenter bio

Alvaro is an infectious disease epidemiologist and mathematical modeller. He is currently pursuing a PhD and serves as a Research Fellow at the London School of Hygiene and Tropical Medicine. He is also an Associate Researcher at the Instituto de Medicina Tropical Alexander von Humboldt in Peru. He completed his MSc in Epidemiology at LSHTM after earning his medical degree from Universidad Peruana Cayetano Heredia.

Joining details

The seminar will take place online on the 19th September 1400-1500 BST, dial-in details:

<https://lshtm.zoom.us/j/96713887706?pwd=UWx3d3AwSVRmY0JRTkpYK2JadllRdz09>

Meeting ID: 967 1388 7706

Password: 102083

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

[Apple](#) [Google](#) [Office 365](#) [Outlook](#) [Outlook.com](#) [Yahoo](#)

A reminder that recordings of previous seminars can be found in the TB MAC video library:

<https://tb-mac.org/tb-mac-resource/tb-modelling-video-library/>

Funding available: Do you know someone who would like to attend an Introduction to TB Modelling Course at the Union Conference?

Participants looking for an introduction to the basic structure, assumptions, principles, and concepts of TB modelling, look no further. TB MAC's Post Graduate course - 'An Introduction to Tuberculosis Modelling' - has been accepted to this year's Union Conference. The course will take place on Tuesday 12th November, from 10:30-13:30 and 15:00-18:00 Central Indonesian Time. We are able to cover the registration costs for up to 10 people to attend this course for individuals from low and middle income countries (normally ~€100). To apply for this funding, please email us at tb-mac@lshtm.ac.uk and include your current institution and country, as well as a brief paragraph justifying your interest. Successful applications will be notified on a weekly basis. Please pass on the details of this course to anyone you think would be interested.

Union Conference Social [14 November]

Please pencil in the evening of Thursday 14th November to join us in-person at the Union conference in Bali, for an informal gathering of the TB modelling and analysis community. There will be an earlier social pre-event for early career researchers at the same venue. Venue and time to be confirmed. We hope to see you there!

Papers

[Petrucciani et al](#) model TB granulomas to predict that layered structure and 3D movement work synergistically to reduce bacterial load

[Mahawan et al](#) model TB transmission probability in Thai prisons

[Churchyard et al](#) discuss the implications of subclinical TB for vaccine trial design and global effect

[Sweeney et al](#) estimate the cost-effectiveness of a device to improve TB treatment adherence in China

[Liu et al](#) demonstrate the role of mass incarceration as a driver of the TB epidemic in Latin America and project impacts of policy alternatives

[Lienhart et al](#) discuss target regimen profiles for TB treatment

[Clark et al](#) estimate the potential public health value of BCG revaccination

[Dale et al](#) discuss the role of reversion of M.tb immunoreactivity

[McQuaid et al](#) estimate the potential of pan-TB treatment to drive emergence of novel resistance

[Ma et al](#) develop an age-structured epidemic model with waning immunity and relapses

[Gunsaru et al](#) estimate the impact of the COVID-19 pandemic on TB treatment outcomes in 49 high burden countries

[Yoopetch et al](#) evaluate the cost-utility of diagnosis and treatment for TB infection among contacts of pulmonary TB patients in Thailand

[Munijandi et al](#) evaluate the cost-effectiveness of the Cy-Tb test for TB infection in India

[Menzies et al](#) calculate the long-term effects of domestic and international TB service improvements on TB trends within the USA

[Aldila et al](#) estimate the cost-effectiveness of medical masks and case detection in Indonesia, India, Lesotho and Angola

[McQuaid et al](#) describe experiences from TB of improving the contribution of mathematical modelling evidence to guidelines and policy

[Hassan et al](#) compare the cost-effectiveness of the MPT64-antigen detection test to Xpert MTB/RIF and

ZN-microscopy for the diagnosis of extrapulmonary TB

[Wilkinson et al](#) estimate the costs of treatment of rif-resistant TB in children and adolescents in South Africa, India, and the Philippines

[van Lieshout Titan et al](#) calculate the cost-effectiveness and health impact of screening and treatment of TB infection among formerly incarcerated individuals in Brazil

[Ryckman et al](#) project the health and economic effects of a pan-TB treatment regimen

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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