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 TB MAC on social media, the next TB MAC seminar and papers from our community.

TB MAC on social media

Please connect with us now on both linkedin (tb-mac) and bluesky (@tb-mac.bsky.social)**.** Bluesky also offers a starter pack list of TB Modellers here**,** do let us know if you join and we will add you to that list!

Join our next TB MAC seminar: Tess Ryckman on Modeling the health and economic consequences of improved regimens to treat TB [23rd January 1500-1600 GMT]

TB MAC would like to invite you to join us for a seminar *Modeling the health and economic consequences of improved regimens to treat TB: which regimen characteristics matter the most?*, given by a member of the TB MAC community, Tess Ryckman on the 23rd January 1500-1600 GMT. See below for more details on the seminar, presenters and how to join.

Seminar summary

Given the large number of new TB drugs and regimens in the developmental pipeline, it is important to consider which regimen characteristics are most important to optimize, compared to current standards of care. This presentation will highlight two mathematical modeling analyses conducted to evaluate the health and economic consequences of improving upon several TB treatment regimen characteristics. The first of these analyses, conducted as part of the WHO 2023 target regimen profile development process, assessed improved rifampin-susceptible and rifampin-resistant regimens. The second analyzed the value of a potential Pan-TB regimen that could be used to treat almost all TB, regardless of drug susceptibility.

Presenter bio

Tess Ryckman is an assistant professor in the infectious diseases division at Johns Hopkins School of Medicine. Tess's research includes the use of mathematical modeling, economic evaluation, and molecular epidemiology to inform infectious disease programs and policies and shed light on disease natural history and transmission. She is primarily focused on tuberculosis epidemiology and policy and has a particular interest in prevention and active case finding interventions.

Joining details

The seminar will take place online on the **23rd January 1500-1600 GMT**, dial-in details:

https://lshtm.zoom.us/j/98957903390?pwd=pyQo6Z42KCgOUYVRhjSMj6dPV3qy7I.1

Meeting ID: 989 5790 3390

Password: 342977

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/

Papers

Gosce et al estimate the epidemiological and economic impact of digital adherence technologies with differentiated care for TB treatment in Ethiopia

Biu et al review agent-based modelling of M.tb transmission

Nichols et al estimate the health and economic impact of the South African molecular diagnostics programme for HIV, TB and SARS-CoV-2

Low uses an agent-based approach to model TB and COVID-19 case-finding interventions

Zhai et al estimate the health and economic impact of Vaccae and enhanced DR-TB management strategies in China

Jeyashree et al calculate the cost of TB care and equity in distribution of catastrophic costs across income quintiles in India

Yang et al calculate the cost-effectiveness of a prediction model for community-based screening of TB

Puyat et al develop and validate a model to predict risk of TB in people migrating to a low-TB incidence country

Zwerling et al estimate the cost-effectiveness of community-wide screening in a remote Arctic community

Lee et al model age-specific TB infection interventions in South Korea

Liu et al simulate TB outbreaks in schools in China

Zhao et al model TB with indirect environmental transmission

Getnet et al evaluate district-level inequalities in TB control in Ethiopia

Karmakar et al estimate TB drug resistance amplification rates in high-burden settings

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

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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.