



# 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 the next TB MAC seminar, a reminder about the TB MAC video library and papers from our community.

**Join our next TB MAC seminar: Joshua Havumaki on Limited impacts of spatially-targeted tuberculosis screening in Lima, Peru: A model-based analysis [25th April 1600-1700 BST]**

TB MAC would like to invite you to join us for a seminar on Limited impacts of spatially-targeted tuberculosis screening in Lima, Peru: A model-based analysis, given by a member of the TB MAC community, Joshua Havumaki on the 25th April 1600-1700 BST. See below for more details on the seminar, presenters and how to join.

Seminar summary:

Although mathematical models have demonstrated that spatially-targeted interventions can efficiently reduce tuberculosis incidence, they have included optimistic assumptions about the scale of the interventions and have not captured realistic spatial distributions of disease in communities. This modelling analysis, informed directly by georeferenced tuberculosis case notifications in Lima, Peru, revealed that realistically scaled interventions targeted toward "hotspots" and neighbourhood contacts of newly detected cases are likely not efficient methods of case finding and will not produce substantial reductions in incidence. These results suggest that alternative approaches for case finding, which can efficiently identify larger numbers of individuals with unidentified disease or at high risk of proximal progression to disease are needed to accelerate tuberculosis control in most settings.

Presenter bio:

Dr. Joshua Havumaki is an epidemiologist with interests in infectious disease modelling and study design. He graduated with a PhD in Epidemiology at the University of Michigan, where he worked on mathematical modelling projects related to norovirus, tuberculosis, and epidemiological study design. Prior to that, he managed data collection and conducted statistical analyses for multinational studies assessing diagnostic tests for tuberculosis at FIND in Geneva, Switzerland. He is currently working as a statistician on clinical trials for vaccines at GlaxoSmithKline.

Joining details:

The seminar will take place online on the 25th April 1600-1700 BST, dial-in details:

<https://lshtm.zoom.us/j/95991256793?pwd=Qk0vTlp4V2pDeFg4UzN3OHZaNXd3Zz09>

Meeting ID: 959 9125 6793

Password: 342967

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:**

[Vesga et al](#) estimate the return on investment of scaling TB screening and preventive treatment in Brazil, Georgia, Kenya, and South Africa

[Tovar et al](#) model new vaccines in ageing populations in China

[Budak et al](#) use a granuloma modelling approach to screen the efficacy of combination BPAL-containing regimens

[Johnson et al](#) estimate the the prevalence of disease combinations (including TB) in South Africa

[Cao et al](#) estimate the cost-effectiveness of TB infection testing and treatment with a 6-week regimen in rural communities in China

[Malhotra et al](#) model the effect of active case-finding compared to a symptom-driven standard of care

[Zhang et al](#) model the interaction of preventive treatment with media coverage in four regions of China

[Elaydi and Lozi](#) model the global dynamics of TB

For more information on TB MAC, or to get involved, please contact any of the [TB MAC Committee](#), visit [www.tb-mac.org](http://www.tb-mac.org) or email us directly at [tb-mac@lshtm.ac.uk](mailto:tb-mac@lshtm.ac.uk).

Best wishes,

Richard, Finn, Christina and the TB MAC Committee

[www.tb-mac.org](http://www.tb-mac.org)

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