



Dear << Test First Name >>,

Welcome to the latest TB Modelling and Analysis Consortium ([TB MAC](#)) newsletter, with information for TB modellers, epidemiologists, economists and decision makers.

Modelling track option at the Union Conference

TB MAC is celebrating that, for the first time, there is a track dedicated to modelling as part of the Union conference in Hyderabad. We recognise and thank the TB modelling community, yourselves included, for the role you have had in bringing modelling to the attention of the TB community.

The [HACK TB Hackathon](#) [15 May - 15 August 2019]

Registration is open! The KIT and its Centre for Applied Spatial Epidemiology (CASE), together with the National TB Program of Pakistan, are proud to launch this TB modelling contest. The purpose of this contest is to have scientists - from BSc to emeritus Professors - compete in a spirited and intellectually engaging fashion to develop new, innovative, out of the box and above all robust and accurate sub-national TB prevalence estimates. If you have questions regarding registration or to learn more about the hackathon, have a look on their [website](#) or [email](#) for more information.

TB modelling postdoc at LSHTM [Due 9th May]

Modelling contact patterns and Mycobacterium tuberculosis transmission in adults and children. Force of infection (FOI) in children is (relatively) easy to measure, and so is often used as a proxy for overall disease incidence. However, the relationship between the two variables is not clear, and will vary with contact patterns between adults and children, as well as the amount of disease that is due to reactivation. The successful candidate will examine this relationship, and under what circumstances FOI in children should and should not be used as a proxy for disease incidence. This work will feed into ongoing discussions about the utility of LTBI surveys with WHO. For more information and to apply, please click the link to

the [LSHTM Job site](#).

[Strydom et al](#) develop a mechanistic model for regimen and dose optimisation.

[Ragonnet et al](#) use a model to support strategic planning for TB control in Fiji.

[Niewiadomska et al](#) systematically review the literature for population-level mathematical models of antimicrobial resistance, including drug-resistant TB.

[Goodell et al](#) model the ability and cost of test and treat targeting strategies for LTBI to reach elimination targets in California.

[Zang et al](#) model the impact of media coverage on TB infection control.

[McCreesh et al](#) estimate age-mixing patterns between contacts using data from a social contact survey in South Africa.

[Vesga et al](#) model the TB care cascade to assess control priorities in India, Kenya, and Moldova.

[Campbell et al](#) estimate the cost-effectiveness of pre-immigration (to low-incidence countries) LTBI screening.

[Chong et al](#) evaluate the impact of treating LTBI in an elderly population in Hong Kong.

[Shaweno et al](#) quantify the spread of TB from geographical hotspots to distant regions in rural Ethiopia.

[Yu et al](#) model drug resistance in a population.

[Arinaminpathy et al](#) model engagement of private healthcare providers in urban populations in Mumbai and Patna, India.

[Renardy & Kirschner](#) model pre- and post-exposure vaccination for the US and Cambodia.

[Sumner et al](#) estimate the impact of TB case detection given resource constraints in South Africa.

[Png et al](#) compare the cost-effectiveness of LTBI screening programs for healthcare workers.

[Prem et al](#) project sub-national TB prevalence under different scenarios in Cambodia.

If you have any recently published TB modelling papers that you would like us to highlight in our future newsletters, [email](#) us with details.

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, Madeleine and the TB MAC Committee

www.tb-mac.org

tb-mac@lshtm.ac.uk

GDPR compliance

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LSHTM
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