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. Please see below two exciting TB job opportunities, and publications from our community.

WHO Technical Officer TB economics and Financing [closing date 25th April]
The World Health organisation are looking for applicants to join The Global TB programme (GTB). This is a full-time position for 12 months. For details on role duties, objectives of the programme and required qualifications please see link.

University of Washington Assistant Professor (without tenure) in TB modelling
The Division of Allergy and Infectious Diseases (AID) in the Department of Medicine at the University of Washington is seeking applicants for a full-time faculty position. This position will be at the Assistant Professor level, without tenure for reasons of funding (WOT), and will have clinical, teaching, and research responsibilities. They will complete ongoing independent research on tuberculosis transmission modelling and obtain independent research funding from federal and private sources. For more information on the position please see link

Recent publications from our community
McCreesh et al individual-based model of Mtb transmission in households, primary healthcare (PHC) clinics, and all other congregate settings.
Xu et al built a Susceptible-Exposed-Infectious-Recovered model that distinguishes drug-sensitive and drug-resistant TB in the entire Chinese population.
Liu et al built a quantitative framework from a health systems perspective to illustrate the conditions under which HCD-informed interventions are likely to be cost-effective
Ragonnet et al build a transmission dynamic model of TB epidemic, Marshall Islands.
Bhargava et al re- estimated the Population attributable fraction of undernutrition (instead of undernourishment) in 30 high WHO-defined TB burden countries
Awad et al develop an age-structured TB- diabetes dynamic mathematical model
Foster et al fitted multilevel models to investigate relationships between change in tuberculosis prevalence socioeconomic factors, Viet Nam
Kuddus et al develop two-strain Drug-Susceptible and Drug-Resistant TB transmission modes, Bangladesh.
Zhang build deterministic and stochastic in-host tuberculosis models for bacterium-directed and host-directed therapy combination.

Kohler et al modelled drug purchase and import costs for 20-months, 9-months, and 4–6-months TB drug regimens, Uzbekistan.
Sumner et al [Letter] Time to integrate epidemiological and economic models for TB.
Alene et al develop a Bayesian model-based geostatistical framework to predict continuous disease-specific prevalence surfaces and their co-distribution.
Harris et al estimated the impact and cost-effectiveness of six scenarios of routine adolescent M72/AS01E-like vaccination in South Africa and India.
Chitpim et al Cost-benefit analysis of five TB diagnostic algorithms for Thailand.
Shrestha et al fit transmission models to genotype clusters of TB cases reported for US data.
Joslyn et al use a systems biology approach to develop a whole-host model of the immune response to Mtb across multiple physiologic and time scales.

As always, please email us with relevant news for the community and let us know 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.

On behalf of all of us here at TB MAC we thank you for your ongoing subscription and which you a happy festive season and new year.

Best wishes,
Richard, Finn, Madeleine and the TB MAC Committee
www.tb-mac.org
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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.

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