



Dear <<First Name>>,

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

Union Conference 2016 - Liverpool - 25th to 29th October 2016

Our [Post Graduate](#) 'Introduction to TB modelling' course is on Wednesday the 26th of October, 08:00 to 14:30 in Session Room 11C. Places are still available [here](#)

Our [Symposium](#) on 'Modelling to overcome resistance to TB drugs and the End TB Strategy' is being held on Saturday the 29th of October, 13:30 to 15:00 in Session Room 3A

Job opportunity at Population Services International

PSI are looking for a Technical Adviser to manage the health impact modelling portfolio, who has trained in epidemiology and demography and the position is only open to persons eligible to work in the USA. Please contact [Amy Ratcliffe](#) for more information and to apply.

Highlight on modelling papers from our community

- [Marino S et al](#) suggest that biomarker discovery could be accelerated by combining computer modelling, statistics and primate study derived datasets
- [Pienaar E et al](#) use models to predict Mtb population dynamics and heterogeneity within granulomas
- [Yuen CM et al](#) use existing data and simple analytic methods to set targets to improve care for child contacts of patients with TB in Malawi, and globally
- [Dodd PJ et al](#) estimates the global burden of drug-resistant tuberculosis in children, and finds that there is more drug-resistant TB than is diagnosed, and that there is a large pool of drug-resistant infection in children
- [McDaniel MM et al](#) report on quantifying limits on rates of replication, death, and quiescence of mycobacterium tuberculosis in mice
- [Chisholm RH et al](#) investigate the origins of the Mycobacterium tuberculosis complex and propose a connection between TB emerging and the use of fire by our human ancestors
- [Byun JH et al](#) estimated the incremental effectiveness of delamanid versus bedaquiline in patients with MDR-TB, using a Markov model simulation
- [August P et al](#) reviewed economic models used to assess the cost effectiveness of screening people at a high risk of latent TB
- [Harris RC et al](#) conducted a systematic review of models that explored the epidemiological impact of future TB vaccines
- [Edholm V et al](#) investigated the impact of HIV co-infection on MDR TB emergence and resistance in Argentina
- [Harris RC et al](#) estimate the impact a BCG vaccine shortage may have on global

paediatric TB mortality

- [Trebucq A & Schwobel V](#) discuss the uncertainties of official WHO TB incidence estimates, and problems encountered in using them for planning
- [Kunkel A et al](#) proposed that the benefits of continuous isoniazid preventative therapy may outweigh resistance risks in a declining TB/HIV co-epidemic
- [Liu S et al](#) present a dynamic model for human and cow TB spread and control in China
- [Taylor JG et al](#) investigate the risk of M. tuberculosis transmission inside public buildings in KwaZulu Natal, South Africa
- [Cordes H et al](#) analyses how PBPK/PD isoniazid modelling may be used to design and individualise treatment regimens
- [Azeez A et al](#) use a model to forecast TB prevalence in South Africa
- [Moses MW et al](#) use a Markov model to serial test for latent TB using QuantIFERON-TB Gold In-Tube

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 visit www.tb-mac.org or email us directly at tb-mac@lshtm.ac.uk.

Looking forward to seeing some of you in Liverpool,
Richard, Rein, Christina and the TB MAC Committee
www.tb-mac.org
tb-mac@lshtm.ac.uk



Tweet



Forward

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