Time for a preventative strategy for TB in the UK: further evidence for new entrant screening in primary care

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In 2012, a total of 8751 cases of TB in the UK were reported at a rate of 13.9 cases per 100 000—this figure is on the back- ground of an increase over two decades in notifications and rates with no evidence of any reduction since peaking in 2005.1 This rise has been largely attributed to TB in the foreign-born, with 73% of all cases of TB being born in high-incidence countries. By contrast, the cases of TB in the UK born have been static over the last decade. Given that these cases are largely due to reactivation disease,2 a strategy of TB control purely based on detection and treatment of active pulmonary disease is unlikely to cause a significant change in these statistics. Hence, despite the change in TB screening to the port of exit, this is also unlikely to be effective given that the major burden of latent disease will not be detected by plain radiology.

A strategy of screening in the USA has been credited with the decreasing rates of TB there which is in stark contrast to the UK statistics. They have a rigorous approach with pre-entry screening followed by evaluation again after arrival in those with treated active but also latent TB.3 Our approach of new entrant screening in primary care and also foreign born TB notifications in Leicestershire and demonstrated that 60% of their active cases of foreign born cases could have been identified and potentially prevented with chemoprophylaxis. Notably, they also demonstrate that the uptake of GP registration differs dependent of the country of origin with the Indian Subcontinent cases being the most likely to register and notably less so in individuals from Sub-Saharan Africa. There also appeared to be an association of TB cases with later registration.

Despite the limitations of not being able to verify the applicability of this approach in other conurbations and areas in the UK, their data again confirms a threshold of 150 per 100 000 incidence in the country of origin is likely to be most effective. This consolidates the findings of other recent publications on the optimal cost effectiveness of a threshold at 150 per 100 000.7,8 As with other aspects of TB care a regional ‘whole system’ view is important and needs to continue to be a focus of public health overview to inform collaborative commissioning given the potential for there to be fragmentation of TB care in the new commissioning environment. NICE is currently re-evaluating its guidance but has varied in its approach initially in 2006 advocating screening at rates of 500 per 100 000 and Sub Saharan Africa only and then decreasing this threshold to 40 per 100 000 in 2011.3 Hence a revision of the threshold of a 40 per 100 000 incidence and modelling of which groups to screen should be re-examined critically as our use of available resource is likely to be limited.

Importantly this paper indicates that primary care would be an appropriate venue to evaluate these cases at new registration and has previously been shown to be a viable option for such screening.4,10

As the paper by Panchal et al. illustrate,11 there needs to be community engagement to improve registration rates and reduce the time to registrations in all ethnic groups—a ‘whole system’ solution is most likely to deliver a real decrease in TB rates and community engagement is critical. Hence the involvement of third sector organisations in addition to the appropriate funding for new entrant screening are critical in delivering a strategy to reduce rates of TB in the UK. It will also be important to consider screening for other blood borne viruses as well as TB in terms of wider migrant health given the potential to screen individuals by blood tests rather than by the traditional tuberculin skin test following the advent of interferon gamma release assays.

Although several outstanding issues still need exploring such as the actual uptake of screening and chemoprophylaxis, unless there is a systematic change in our approach to latent TB treatment, it is likely we will not see a significant reduction in the rates of TB in the UK and risk remaining an ‘outlier’ in Western Europe.12

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