Supporting progress towards the post-2015 targets and regional tuberculosis elimination: a statement of intent from the third meeting of the Asian TB Experts Community

To the Editor:

The World Health Organization (WHO) is challenging all countries, both high- and low-incidence, to dramatically intensify efforts to meet bold new goals of reducing global tuberculosis (TB) deaths by 95% and the incidence by 90% (<10 cases per 100,000 population) by 2035 [1]. This radical strategic change came from the recognition that the current strategy of passive case finding and directly observed therapy (DOT) is not sufficiently curbing the incidence of TB. The new strategy calls for a synergy of interventions to enable early case detection, systematic screening and prevention of TB in contacts (adults and children) and high-risk groups, such as people living with HIV or other immune depressing conditions, people with diabetes, patients receiving dialysis, patients preparing for organ or haematological transplantation, patients with silicosis, prisoners, healthcare workers, homeless individuals, illicit drug users and individuals in communal settings. At the end of 2014, the WHO released the first guidelines on the management of latent tuberculosis infection (LTBI). The guidelines provide evidence-based guidance on practices for testing, treating and managing LTBI in infected individuals with the highest likelihood of progression to active disease [2]. Although primarily aimed at high-income or upper middle-income countries, with an estimated TB incidence rate of <100 per 100,000 population, they represent an unprecedented gear change in the scaling up of TB prevention as a component of TB control programmes [2]. Figure 1 shows a hypothetical approach to prioritisation of high-risk groups.

The available evidence suggests that latent TB screening, if performed according to evidence and targeting the correct people, may reduce suffering, death and all the downstream consequences of active TB. There is, however, a need to balance potential benefits against the risks and costs of screening. The 2013 WHO recommendations on systematic screening for active TB state that indiscriminate mass screening should be avoided; while risk groups should be prioritised for screening based on careful assessment of the local TB epidemiology, the potential benefits and risks of harm of screening, and alternative interventions to improve early TB detection [3].

It is against this background that, on August 16–17, 2014, a group of Asian leaders from 14 countries, including national and international experts on diabetes and rheumatology, met in Macau, China to initiate discussion of the post-2015 WHO challenge of active case finding and prevention as a strategy for accelerating TB elimination in Asia. The objectives of the meeting were to discuss the strategy and evidence for active case finding and prevention among high-risk groups; review the current epidemiology and practices of Asian countries with respect to case finding; and to explore the most advanced approaches to investigate and treat contacts exposed to multidrug-resistant TB (MDR-TB), as well as screening and prevention for populations at risk in high-burden settings.

The meeting was sponsored and coordinated by Stop TB Partnership Japan and co-chaired by Toru Mori (Director Emeritus of Research Institute of Tuberculosis (RIT), Japan Anti-Tuberculosis Association (JATA)) and Erlina Burhan (Head of the Clinical Expert Team on MDR-TB, and Dept of Pulmonology and Respiratory Medicine, Faculty of Medicine, University of Indonesia).

The theme of the meeting was introduced by the keynote speaker, Nobu Nishikiori (Team leader, Stop TB and Leprosy Elimination, WHO Western Pacific Region (WPRO)), who provided an overview of the targets linked to the post-2015 strategy. This was followed by presentations from regional and international experts analysing the current TB control situation and assessing the feasibility of potential interventions in the context of scaling up active case finding and TB preventive treatment.

Paediatricians, rheumatologists and experts in diabetes all presented on the impact of TB in their field of expertise, clearly emphasising the importance of active case finding, better TB control and screening in select targeted groups. Although the heterogeneity of the region was widely recognised, an overarching consensus emerged on the need to identify and target high-risk populations within the context of country specific epidemiological and control settings. In particular, screening and active case finding interventions...
should become a matter of priority in those populations where the morbidity and mortality risk far exceeds that of the surrounding general populations [3]. There was unanimous agreement that without a scale up of these targeted active case finding interventions, it would be unlikely that any substantial progress towards TB elimination would be achieved in the decades to come. It became clear from several country and expert presentations that due consideration should now be given to expanding the role of preventive treatment as a programmatic intervention with harm–benefit and cost-effectiveness rationale taken into consideration in the different settings. Risk group prioritisation should take place on the basis of assessment of transmission and individual impact risk.

This meeting was convened in the spirit of advancing TB control in Asia and represents the first concerted regional response to the call for a change in pace made in the post-2015 strategy. Regional and country specific issues and approaches were discussed and debated in the spirit of reaching the highest ideals. Other regions have recognised the need to initiate dialogue in this direction, and have established forums and channels for intense discussion of the value of and need for solid TB elimination strategies [4–9].

Although an Asian regional consensus on the next steps requires further concerted action under national and regional leadership, the participants agreed their intention to advance acceleration towards elimination of TB in the following ways. 1) Better understanding, targeting and implementation of active case finding interventions with the aim of reaching out to the most affected in order to maximise the impact on the TB epidemic. 2) Considering and evaluating approaches for TB prevention as a strategy to eliminate TB in Asia and accelerate burden decline. 3) TB prevention needs to be tailored to the current epidemiological and TB control situation in countries while recognising the undeniable right of each individual to access a holistic spectrum of TB services, including TB prevention. 4) Recognising that concerted health infrastructure development, leadership, solidarity and action will be required to shape the future of TB control in Asia.

FIGURE 1 A hypothetical approach for prioritising selection of high-risk groups. Information from [3].

In the first concerted Asian reaction to the post-2015 strategy the significance of TB screening was recognised http://ow.ly/LnWPW

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Migliori GB, Fleck F. Collaboration is key for new global tuberculosis strategy. Bull World Health Organ 2014; 92: 316–317.

Sotgiu G, Migliori GB. Is tuberculosis elimination a reality? Lancet Infect Dis 2014; 14: 364–365.

D’Ambrosio L, Dara M, Tadolini M, et al. Tuberculosis elimination: theory and practice in Europe. Eur Respir J 2014; 43: 1410–1420.

Diel R, Loddenkemper R, Sotgiu G, et al. Cost-effectiveness of treating latent tuberculosis infection: a step towards elimination? Int J Tuberc Lung Dis 2013; 17: 1515.

Vonietis C, Migliori GB, Vonietis M, et al. Tuberculosis elimination: dream or reality? The case of Cyprus. Eur Respir J 2014; 44: 543–546.

Diel R, Loddenkemper R, Zellweger JP, et al. Old ideas to innovate tuberculosis control: preventive treatment to achieve elimination. Eur Respir J 2013; 42: 785–801.