CORRESPONDENCE

Potential risk factors for recurrence of pulmonary tuberculosis

Among UK residents of South Asian descent potential risk factors for pulmonary tuberculosis (PTB) and, possibly, also for its recurrence, include vitamin D deficiency (as proposed by Crofts et al.), the population-attributable fraction (PAF) for PTB attributable to diabetes mellitus, and end-stage chronic kidney disease (CKD). The PAF for PTB attributable to diabetes mellitus can be as high as 19.6% (95% CI 10.9% to 33.1%) and 14.2% (95% CI 7.1% to 26.5%) for UK Asian men and women, respectively versus 6.9% (95% CI 3.1% to 12.4%) and 8.2% (95% CI 3.0% to 15.6%) for their white male and female counterparts. Relative to their white counterparts, UK Asians also have a 13.66-fold higher risk of end-stage diabetic nephropathy, end-stage CKD itself being associated with an acquired immunodeficiency state characterised by a 10- to 25-fold increase in risk of PTB. When vitamin D deficiency complicates CKD this might, arguably, further compound the risk of PTB and its recurrence.

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Competing interests None.

Provenance and peer review Not commissioned; not externally peer reviewed.

Accepted 23 August 2010

Thorax 2011; 1. doi:10.1136/thx.2010.145730

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Thorax published online June 21, 2011

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