

## **Reviewer's report**

**Title:** Steep Age-Associated Escalation of Multiple Cardiovascular Risk Factors in Young Asian Indian Subjects

**Version:** 1 **Date:** 13 March 2009

**Reviewer:** Ashan Gunarathne

### **Reviewer's report:**

The objective of this manuscript was to determine the age-associated escalation of Multiple Cardiovascular Risk Factors in young South Asian population. Overall this paper appears well constructed and the methods suitably performed but there is a scope for improvement in scientific writing and results presentation. I have some serious concerns with the main study hypothesis and the derived conclusions. The research hypothesis which is being tested is not clear and apparent. In keeping with the given study hypothesis, this is not a novel study and has been carried out in many previous studies in India as well as in migrant South Asian populations living in the developed world. Increase prevalence of CVD risk factors with age has been repeatedly reported in many cross sectional as well as few longitudinal studies, even looking at impact of migration, life style etc. Therefore the presented finding doesn't add any new knowledge to the current understanding of conventional CVD risk characteristics amongst this higher risk South Asian population. (Please see recent publications by JV Patel & GYH Lip etc.. below ). However one suggestion would be to present the current findings in a different angle including CVD risk scores, and compare these with other South Asian and European Caucasian population. Moreover then the authors have the valuable opportunity to follow this cohort over a period of time to observe their actual CVD /CHD risk and validate or propose a more ethnicity sensitive risk score for South Asians as majority of the current risk score under estimate CVD risk amongst higher risk young South Asians

Chaturvedi N. Ethnic differences in cardiovascular disease. *Heart*. 2003;89:681-6

2 Patel JV, Vyas A, Cruickshank JK, Prabhakaran D, Hughes E, Reddy KS, Mackness MI, Bhatnagar D, Durrington PN. Impact of migration on coronary heart disease risk factors: comparison of Gujaratis in Britain and their contemporaries in villages of origin in India. *Atherosclerosis*. 2006; 185:297-306

3 Gunarathne A, Patel JV, Potluri R, Gill PS, Hughes EA, Lip GY. Secular trends in the cardiovascular risk profile and mortality of stroke admissions in an inner city, multiethnic population in the United Kingdom (1997-2005). *J Hum Hypertens* 2008;22:18-23

**Level of interest:** An article whose findings are important to those with closely

related research interests

**Quality of written English:** Needs some language corrections before being published

**Statistical review:** No, the manuscript does not need to be seen by a statistician.

**Declaration of competing interests:**

'I declare that I have no competing interests'