Reviewer’s report

**Title:** Investigation of 95 variants identified in a genome-wide study for association with mortality after acute coronary syndrome

**Version:** 2  **Date:** 26 June 2011

**Reviewer:** Jan Bressler

**Reviewer’s report:**

Morgan et al. have submitted a revised version of their manuscript in which they examined the association between 95 polymorphisms identified in a genome-wide association study of premature myocardial infarction and post acute coronary syndrome (ACS) mortality within 3 years. The report is now framed as a negative result since the statistically significant association between ACS and a MTHFDIL variant (rs6922269) first found in a discovery sample of 811 white individuals was not replicated in 3 additional independent cohorts.

My previous concerns have been addressed; some suggestions for minor revisions of the current paper are listed below:

**Minor Essential Revisions:**

1. Results, fifth paragraph: The association between the A/A genotype and all-cause mortality in the combined group of patients is said to be shown in Figure 2. Figure 2 was not included with the manuscript for review.

2. Table 4: The abbreviation “IQR” should be defined.

3. Table 5: The referent genotype for the Cox proportional hazards analysis should be indicated.

4. Appendix: There are several incomplete or missing references which should be provided. Additional information concerning genotyping quality control and call rates for the Cleveland Clinic GeneBank and Emory Cardiology Biobank validation cohorts would be helpful for assessment of these association studies.

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

**Quality of written English:** Acceptable

**Statistical review:** Yes, and I have assessed the statistics in my report.

**Declaration of competing interests:**

I declare that I have no competing interests.