Reviewer's report

**Title:** Circulating Angiopoietins-1 and -2, Angiopoietin Receptor Tie-2 and Vascular Endothelial Growth Factor-A as Biomarkers of Acute Myocardial Infarction: a Prospective Nested Case-Control Study

**Version:** 1  **Date:** 6 October 2010

**Reviewer:** Kenji Onoue

**Reviewer's report:**

This manuscript showed the usefulness of Ang-2 as a biomarker of developing AMI in the future. This result is worth publishing, however, there remain several questions which should be answered by the authors.

**Major Compulsory Revisions**

1. Didn’t the authors assess the interactions between VEGF and Tie-2 in the last paragraph of Background?
2. The authors should mention whether there were significant differences between each two groups of three-way split categories according to FRS in Figure 2. Did the authors assess the same thing as for Tie-2 and VEGF?
3. Did the authors check the medication? If so, they should mention about at least the uses of antiplatelet agent and Statins.
4. This study was designed to predict relatively long-term (within 5 years) and very long-term (between 5 and 10 years) prognosis to develop AMI. Were there any differences of baseline characteristics or the measured data between these two subgroups? If there were some differences between these two subgroups, we can predict the rough time of developing AMI.

**Minor Essential Revisions**

1. The units of Tie-2 and Ang-1 are absent in Results of Abstract.
2. The authors should mention about the abbreviation, CV, in its first appearance in Laboratory Methods.
3. The correlations (r) were 0.31 or lower as seen between VEGF and Ang-1 in the 2nd paragraph of Results, weren’t they?
4. The authors should write p values in each figure of Figure 1.

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

**Quality of written English:** Acceptable
**Statistical review:** Yes, but I do not feel adequately qualified to assess the statistics.

**Declaration of competing interests:**

I declare that I have no competing interests.