Reviewer’s report

Title: The CYP2J2 G-50T Polymorphism and Survived Myocardial Infarction in Patients with Cardiovascular Risk Profile

Version: 1 Date: 29 April 2008

Reviewer: Daniel Petrovic

Reviewer’s report:

Major compulsory revisions:

The MS “The CYP2J2 G-50T Polymorphism and Survived Myocardial Infarction in Patients with Cardiovascular Risk Profile” by the authors Jan Börgel, Daniel Bulut, Christoph Hanefeld, Horst Neubauer, Andreas Mühle, Jörg, T Epplen, Tim Holland-Letz and Martin Spiecker is is well-written manuscript. The study demonstrates that the CYP2J2 G-50T polymorphism might increase the risk for myocardial infarction.

The problem of the study is its design. Namely, half of patients with CAD originates from OSA group (in which coronary angiography was not performed), whereas the other half of the patients originates from the CAR group (in which coronary angiography was performed). In the CAR group the difference was not statistically significant in genotype distribution (Table 2) (GT + TT vs. GG: 29.2% vs. 23.9%, P=0.351), whereas in the OSA group the difference was of borderline significance (GT + TT vs. GG: 10.9% vs. 4.5%, P=0.06); both groups together demonstrate the association between the T allele and MI (GT + TT vs. GG: 21.6% vs. 13.7%, P=0.026).

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' below.