Reviewer’s report

Title: The rs1803274 polymorphism of the BCHE gene is associated with an increased risk of coronary in-stent restenosis

Version: 2 Date: 21 July 2015

Reviewer: Tadeusz Osadnik

Reviewer’s report:

The study of Pleva L et al. regarding the association between the rs1803274 polymorphism and restenosis is a very interesting analysis. The control group is cleverly selected. There are however some issues that need to be addressed before the paper is accepted for publication. Please see below:

Major Compulsory Revisions

1) How was the control group matched?
2) What was the time to the next coronary angiography. What was the reason for the next coronary angiography - was it scheduled or due to symptoms recurrence?
3) Why did I adjust only for diabetes?
4) The confidence interval - for rs1803274 homozygotes AA vs. GG is too wide. I believe that due to low number of AA homozygotes. Therefore I think it should be analyzed only in the setting of dominant model that is minor allele homozygotes plus heterozygotes vs. major allele homozygotes (GA and AA vs. GG in this case).

Minor revisions:

1) Lines - 79 - 81 - Introduction section, the sentence regarding disadvantages of DES should be crossed out. The second generation of DES has a really low rate of late stent thrombosis, as far as dual antiplatelet therapy - it is also required after ACS. Those disadvantages are out of the context and they can not be the reason for studying restenosis only in bare metal stents. The differences in pathophysiology of restenosis between bare metal stents and drug eluting stents is sufficient reason to study ISR only in BMS or DES or at least to address them separately in the discussion.

2) Lesion classification (B2/C) - source (citation) should be given.

3) Please include information what percentage of genetic analyses was repeated and that you managed, or not, to establish genotype of studied polymorphisms for all patients.

Please address this issues in the revised version of the manuscript.
Thank you for giving me the opportunity to read and review this interesting article. I hope I could be of assistance.

Kind regards.

**Level of interest:** An article of importance in its field

**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.