Reviewer's report

Title: No association between polymorphisms/haplotypes of the vascular endothelial growth factor gene and preeclampsia.

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Reviewer: Agnieszka Seremak-Mrozikiewicz

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Preeclampsia is very important obstetrical problem because of its connection with high mortality and morbidity of the pregnant women and the newborns. The etiology of preeclampsia remains unclear. Nowadays many attention is directed on the role of polymorphisms of genes encoding vaso-active factors in the pathophysiology of the impairment mentioned above. So presented study concerns essential medical problem.

“Introduction” includes brief analysis of preeclampsia etiology. The Authors shortly described few factors involved in preeclampsia pathogenesis, such as improper placentation and failed cytotrophoblast invasion. What is very valuable, the Authors presented connection between the vascular endothelial growth factor and regulation of cytotrophoblast differentiation and invasion during pregnancy. The aim of the study is stated very clearly. Moreover, the goal of the research is connected with the study issue.

The limitation of the study is quite small number of investigated groups. But on the other hand the enrollment of patients stays within very good standards and all steps of including the pregnant women to the research are shown. The method of nucleic acid extraction and genotyping is also described in details. The statistical data analysis is well described.

The results stay in connection with the aim of the study. The advantage of the manuscript are tables describing demographic variables and risk factors of the study population, comparison of allelic and genotypic frequencies between study groups, analysis of haplotype frequencies and their association with preeclampsia.

The “Discussion” contains analysis of obtained results and the Authors compared conclusions of their study to the results of other researches.

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.