Reviewer's report

Title: Evaluation of the potential pleotropic role of AGT polymorphism in atherosclerosis

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Reviewer: Tatiana Kuznetsova

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In the present study the authors tried to evaluate associations between the AGT gene and cardiovascular diseases (coronary heart disease) and CV risk factors such as hypertension, diabetes and etc.

Comments:
1. Overall, the objective of the study was not clearly formulated in Abstract and Introduction.
2. Methods. It's unclear how the authors selected cases and controls. If I understood correctly, the authors just divided 4615 patients in different groups (with and without CVD or with and without HT), and called this case-control design. Thus, some patients were considered as cases in one association analysis whereas the same patients were served as controls in another association analysis performed by the authors. Therefore, the design of this study is inappropriate. Finally, the authors should describe more explicitly the study population: source of recruitment, how many subjects were screened, clinical characteristics (blood pressure, body mass index, treatment, etc).
3. Statistical analysis. The authors calculated only the unadjusted odds ratios between the cases and controls. Therefore, the statistical analysis is incomplete. Overall, the presentation of results is very confusing and difficult to understand.

Level of interest: An article of insufficient interest to warrant publication in a scientific/medical journal

Quality of written English: Not suitable for publication unless extensively edited

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

Declaration of competing interests:

No competing interests