Reviewer's report

Title: FV Leiden and PT G20210A Polymorphisms Have a Potential for Hypercoagulability Leading to Total Coronary Occlusion

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Reviewer: Serap Aykut Aka

Reviewer's report:

I have read the manuscript with interest. The authors present data on postoperative 220 patients undergoing coronary bypass surgery, and associate outcome with genotypes for FVL, PT G20210A, and ACE ins/del. They found no relation between any of the polymorphisms studied and the postoperative outcome, however they have found noteworthy associations with totally occluded arteries and left ventricular aneurysms. I would like to spotlight some essential minor points.

1. I suggest modifying the title as affirmative: ‘Thrombotic Gene Polymorphisms and Postoperative Outcome after Coronary Artery Bypass Graft Surgery’

2. Background section should be revised to eliminate excess informative introduction.

3. In methods section, what were the reasons for these exclusion criteria? Should we expect these to influence a specific SNP?

4. In methods the authors stated that aspirin or clopidogrel therapies were discontinued 5 days before the operation, however they haven’t gave the information about postoperative anticoagulation therapy that could affect postoperative course.

5. Why the authors haven’t involved a control group into the study.

6. In the last paragraph of ‘results and discussion’ section, what meant by excess mortality?

7. In the last paragraph of ‘results and discussion’ section, the authors stated that there was no incidence of postoperative deep vein thrombosis in this cohort. What diagnostic method they have used to come to this conclusion?

8. In the second paragraph of the conclusion section, the authors noted that noted that heterozygous FVL polymorphism prevalence was 10.9% in patients undergoing surgical revascularization, which was compatible with 7.9% prevalence rate in healthy individuals in Turkey. How did they come to this conclusion without knowing the demographic data of the study group in the mentioned study?
Level of interest: An article of importance in its field

Quality of written English: Acceptable

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