Reviewer's report

Title: The effect of reduced beta2-glycoprotein I on aortic matrix metalloproteinases and tissue inhibitor matrix metalloproteinases of diabetic mouse and its mechanism

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Reviewer: Srikanth Givvimani

Reviewer's report:

Authors of the current manuscript tried to explore the relationship of MMP-9 activity along with TIMP-3 and BNP levels during various MMP-9 polymorphisms in case of ventricular sepalal defect condition. Although authors claim novelty of this study it would be more strengthened by adding additional information to this study. My comments are:

Comment 1: Authors said that TIMP-3 is an inhibitor to MMP-9 and gave reference (no.5), but I don't see any such conclusion. Please explain.

Comment 2: What about the status of other TIMPS especially TIMP-1 and Cardiac specific TIMP-4 during VSD. Do they have any role?

Comment 3: MMP-9 and MMP-2 are well studied and reported MMPs in various cardiovascular disorders, it would be interesting to see the MMP-2 levels as opposed to MMP-9 during VSD.

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.

Declaration of competing interests:

I declare that I have no competing interests