Reviewer’s report

Title: Influence of coronary territory on flow profiles of saphenous vein grafts

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Reviewer: Vipin Zamvar

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Amin and colleagues have analysed TTFM measurements in vein grafts placed on right vs left sided coronary arteries. There is an inherent physiological difference between the left and right sided coronary circulation, and these TTFM measurements reflect that.

This paper will add to the existing literature on TTFM measurements; an essential quality-control step in any coronary artery bypass graft operation. I would recommend publication.

I have a few queries regarding the methodology, which I would like the authors to address for the sake of completeness.

1) The authors state that the ultrasound probe is placed as close to the distal anastomosis as possible? Why is this? Surgically the flow in the different segments of the conduit would be similar; so why should TTFM measurements differ in different parts of the conduit?

2) When were the measurements performed? Were they performed before or after protamine administration. Does this have any bearing on the measurements?

3) Why should the pulsatility index be higher when the flow measurements are made proximally in the conduit.

4) Table 2: How were the coronary artery diameters measured? Is this the subjecting eyeballing of the surgeon during surgery?

5) Table 2: What is meant by the average luminal diameter of the coronary artery?

Overall, this is an important study which merits publication.

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