Reviewer's report

Title: Daming Capsule restores endothelial dysfunction induced by high fat diet

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Reviewer: Karl WK Tsim

Reviewer's report:

During the condition of high fat diet or hyperlipidemia, blood vessel will be damaged and cause endothelial dysfunction, which results in the onset of cardiovascular diseases. In this case, the drug development against the high fat diet-induced endothelial dysfunction is essential. In this manuscript, the authors revealed the potential effect of Daming capsule (DMC) in restoring the endothelial function under hyperlipidemia. The finding is interesting and important to the field. However the authors must seriously consider the following comments for substantial revision before any publication.

Comments:

1. The authors should be aware of the quality and clarity of all the figures. The standard of graphical presentation skill is not high enough. The authors should make the results in a more concise way for better illustration.

2. For all the experiments, the authors should include DMC alone as the control. It is important to know the background effect of DMC alone. Otherwise, the restoring effect of DMC against high fat diet will not be indicative. This is also applied to those experiments with ATV treatment that ATV must be treated alone as the background control.

3. In Fig 1E, the statistics in HF+DMC and HF+ATV are mis-leading. The stars should not be placed in order to avoid the confusion that HF and HF+DMC has statistical difference. This is the same as for HF+ATV.

4. In Fig 4B, the damage of endothelial cells is not obvious and indicative. The authors should illustrate it using better and high-magnification images. This is the same as in Fig 4C and 4D that the so-called recovery of endothelial cell is not indicative.

Level of interest: An article whose findings are important to those with closely related research interests

Quality of written English: Needs some language corrections before being published

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.