Reviewer's report

Title: Left atrial volume index and aortic stiffness index in adult hemodialyzed patients - link between compliance and pressure mediated by endothelium dysfunction; a cross-sectional study

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Reviewer: Jitka Seidlerová

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LAVI and ASI in adult hemodialyzed patients – link between compliance and pressure mediated by endothelium dysfunction: a cross-sectional study

This is an important study showing an association between aortic stiffness and diameter of left atrium in HD patients and possible influence of endothelial dysfunction. However, the study has several shortcomings.

Major compulsory revisions:
1. The number of subjects is relatively small and it is of cross-sectional design
2. Control group has similar age, but some difference in echocardiographic parameters probably might be explained by difference in systolic and mean arterial pressure. I also miss information about predictors or correlates of echocardiographic parameters of control group.
3. Missing paragraph about limitation of the study
4. It is not mentioned how BP was measured except vague sentence that electronic sphygmomanometer was used.
5. Writing should be improved.

Minor essential revisions:
1. In the abstract abbreviation LAV is used but without explanation.
2. Table 3 – it is not clear from which population these data came from.
3. Table 5 – how much of variance these variables explained?

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

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

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.