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: yanping liu

Reviewer's report:

Dr Tomasz Zapolski and colleagues investigated the relationship between ASI and LAVI in HD patients. They found that there was association between these two variables, which might be mediated by endothelial dysfunction.

Major Compulsory Revisions:
1) The author stated in Introduction that diastolic dysfunction of the left ventricle, which could be reflected by LAVI, was a common finding among ESRD patients. Besides LAVI, the author also measured other parameters, which can reflect diastolic dysfunction of LV, and some of them were more commonly used than LAVI. It was not clearly why the author only focused on the correlation between ASI and LAVI.

2) The author check the correlation between ASI and LAVI only in ESRD patients. Why did not the author check it in controls?

3) The covariables, which were considered to enter the multiple regression model, did not include blood pressure. Blood pressure was an important risk factor for artery stiffness.

Minor Essential Revisions
1) It was not clear how the author calculate body surface area.
2) Did the values presented in Table 3 only refer to HD patients or patients plus controls.
3) The author did not report the reproducibility of ASI measurement.

Discretionary Revisions
None.

Level of interest: An article of limited interest

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.