Reviewer's report

Title: Gender-specific contribution of cardiometabolic index and lipid accumulation product to left ventricular geometry change in general population of rural China

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Reviewer: Xinping Zhang

Reviewer's report:

1. The selected topic of this paper is of value and the design is dedicated.

2. This finding is very interesting: Females with greater CMI and LAP were more likely to have higher LV mass coupled with a disproportionately smaller increase in LV diameter, which led to eccentric and concentric LVH with a concurrent decrement in their associations among males.

3. The results are also valuable which may add further impetus to translating CMI and LAP into a clinical and public health recommendations for reducing the burden of LVH.

4. One question is that what is the basis or evidence when you say "CMI and LAP represent a fundamental determinant of LV remodeling in general population of rural China", especially when you say it "fundamental"? Evidence or explanations are needed.

Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes
Are you able to assess any statistics in the manuscript or would you recommend an additional statistical review?
If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

**Quality of written English**
Please indicate the quality of language in the manuscript:

Acceptable

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