Reviewer's report

Title: Relationship between Tei Index and left ventricular geometric patterns in a hypertensive population: a cross-sectional study.

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Reviewer: Lori Blauwet

Reviewer's report:

This study investigates the relationship between Tei index and LV geometric patterns in hypertensive patients as assessed by 2D and Doppler echocardiography. The hypothesis of this study is intriguing and worthy of investigation. This study is well conceived and well written.

I find it quite interesting that TI was dependent on heart rate with a negative correlation. It would be interesting to do a comparison of the TI in individual subjects as the heart rate differs to see if this relationship holds true.

Discretionary revisions: I think that it would be helpful to to add the the mean +/- SD value (for all patients) in the methods section (perhaps paragraph 3) to clarify that the patients were suboptimally treated. From the statement "All the recruited subjects were hypertensive on treatment," it sounds as if their blood pressure was normal, but a review of Table 1 indicates that the mean SBP and DBP of both groups was elevated.

Overall, this is a nice succinct paper which focuses on a narrow topic of interest. You are to be congratulated for your work.

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

Quality of written English: Acceptable

Statistical review: No, the manuscript does not need to be seen by a statistician.

Declaration of competing interests:

No competing interests