Reviewer's report

Title: hsTnT increase after exercise in patients with pulmonary arterial hypertension

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Reviewer: Michał Ciurzyński

Reviewer's report:

This is an interesting paper evaluating the clinical usefulness of hsTnT after exercise in patients with pulmonary arterial hypertension. The authors pointed out that hsTnT levels increase in PAH patients after exercise. The relative small number of patients is one of the limitation of this study so the confirmation of the results requires verification in a larger population sample.

Below are some of my major compulsory revisions:

1. Please add to the “results” section the serum level of hsTnT in 3 healthy controls. Why they released this biomarker? Are they really healthy? Please explain this in “discussion” section.

2. What was the exclusion criteria for healthy volunteers? Please explain it in “Methods” section. E.g. systemic hypertension, renal function (did the authors measure GFR?)

3. In table 1. There are the RHC parameters (e.g. PVR, mean RAP, mPAP). Please add RHC methods to “Methods” section

4. In “Methods” section the authors described echo, spirometry and plethysmography methodology but there were no results of this examination in “results” section. Please add this to “results” section.

5. The authors wrote in “results” section: Detectable hsTnT levels are associated with death and decreased right ventricle function in patients with PAH. Please explain this. How long was follow up. Which RV parameters the authors mean?

Below are some of my minor compulsory revisions:

1. Are there correlations between #hsTnT and PVR? If yes please add to the “result” section.

2. “Background” section: Several follow-up studies confirmed … The authors listed only one reference. Please complete.

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

Quality of written English: Acceptable
Statistical review: Yes, but I do not feel adequately qualified to assess the statistics.