Reviewer’s report

Title: Echocardiographic implications of pulmonary acceleration time and estimated vascular resistance for evaluating possible pulmonary hypertension.

Version: 1 Date: 1 February 2013

Reviewer: Piotr Lipiec

Reviewer’s report:

This is an interesting, well-conducted study and a well-structured manuscript. The paper has important practical implications. However, there is one issue, which should be addressed.

Major Compulsory Revision

In the current guidelines the definition of pulmonary hypertension is based on MPAP (measured during RHC), therefore this parameter is of great importance. MPAP has been shown to correlate negatively with AT (authors mention these references). Authors performed RHC in a subgroup of patients, so MPAP is available in this subgroup. Therefore, the analysis whether previously described correlation between MPAP and AT is also present in the current patient population seems feasible and would increase the manuscript’s clinical value. Additionally, the cut-off point of AT proposed by authors for detecting pulmonary hypertension should also be tested against MPAP in the subgroup of patients who had RHC.

Level of interest: An article of importance in its field

Quality of written English: Acceptable

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