Reviewer's report

Title: Assessment of Measurement Properties of Peak VO2 in Children with Pulmonary Arterial Hypertension

Version: 2 Date: 29 May 2012

Reviewer: Ageliki Karatza

Reviewer's report:

Dear sir,

this is an excellent study conducted by Joseph C Cappelleri, Lie-Ju Hwang, Jack Mardekian and Marko A Mychaskiw regarding the Assessment of Measurement Properties of Peak VO2 in Children with Pulmonary Arterial Hypertension.

The authors reported good reliability of Peak VO2 measurements and Peak VO2 improvements with improvements in WHO FC and a physician global assessment.

Major Essential Revisions: NONE

Minor Essential Revisions

1. In the abstract section it is suggested that the first sentence is rephrased so as to be clear that in children the 6-minute walk test may not be appropriate for reasons of compliance or reliability

2. In the methods section, 3rd paragraph it is suggested that the appropriate reference is added relating maximum plasma sildenafil levels with dosage of Sildenafil

3. In the methods section, 6th paragraph there is a discrepancy between the number of patients randomised (n=234) and the number of patients randomised in the original paper by Barst RJ et al in Circulation 2012 (reference 8, n=235 patients)

Discretionary Revisions

1. In the methods section, the 6th paragraph may be deleted apart from the first sentence. This paragraph is confusing to the reader and the results presented (reference 8) are not relevant to the purpose of the current study

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.
Declaration of competing interests:

'I declare that I have no competing interests'