Reviewer’s report

Title: Cardiopulmonary exercise testing and echocardiographic exam: an useful interaction

Version: 0 Date: 16 Nov 2019

Reviewer: Andrea Barison

Reviewer's report:

The Authors wrote an interesting review about the integration of CPET with exercise stress echocardiography. The manuscript is well written and comprehensive. Please find below some comments:

- I would suggest to insert a schematic table with the typical CPET abnormalities (e.g. using arrows) for each different pathological condition (cardiac, pulmonary, metabolic, deconditioning, obesity, etc).

- In table 1, I would insert also the breathing reserve (VE/MVV), which represents the ratio between maximal ventilation during exercise (VE) and maximum voluntary ventilation (MVV) (estimated as forced expiratory volume in the first second [FEV1] x 40).

- Similarly to table 1, I would suggest to insert a table about the most important systolic and diastolic parameters that should be reported in a standard stress echo exam, with their normal values.

- I would suggest to cite in the text the importance of CPET for congenital heart disease, particularly for GUCH; this is an emerging field of application for both CPET and stress echo.

- I would insert subheadings in the paragraph "Integration of CPET and Echocardiography", similarly to what the Authors did in the preceding paragraph

- Please revise some typing errors throughout the text

- Page 8: "a VE/VCO2 slope< 33.3 showed a sensitivity of 97% and a specificity of 40 % in predicting mortality and cardiac-related hospitalization in patients left ventricular ejection fraction (LVEF)&gt; 50%" should be probably read as "a VE/VCO2 slope &gt;33.3".

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