Reviewer's report

Title: Cardiac Fluid Dynamics meets Deformation Imaging

Version: 0 Date: 27 Dec 2017

Reviewer: Elisabetta Bianchini

Reviewer's report:

This study aimed to summarize recent advances in cardiac flow evaluation and its relationship with cardiac wall mechanism analysis.

Despite this manuscript addressed an interesting problem, it suffers some limitations (as reported in subsequent "Major Compulsory Revisions" section) and it should be considered for publication in "Cardiovascular Ultrasound" only after that major revisions will be correctly answered.

Major Compulsory Revisions:

1) More is needed in terms of clarity in the paper's structure. In particular I would suggest to adopt a more specific aim for the paper (i.e. is this a review of the literature or an original paper?). As a consequence two options in my opinion are available A) The "Lines of research in literature" might be shortened and points considered crucial by the authors might be ported into the discussion section. B) The "Lines of research in literature" session might be extended and become a review paper it self.

2) Sample Clinical Flow Analysis: Please report data regarding the reproducibility of the provided echocardiographic measurements.

Discretionary revisions:

1) Sample Clinical Flow Analysis, Page 8: I would suggest to remove the sentence "that details are omitted for brevity". Moreover, in my opinion a brief not detailed description for the method used to show flow forces might be appropriate.
Level of interest
Please indicate how interesting you found the manuscript:

An article of importance in its field

Quality of written English
Please indicate the quality of language in the manuscript:

Acceptable

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