Reviewer’s report

Title: Incremental value of three-dimensional echocardiography for evaluating left atrial function in patients with coronary slow flow phenomenon: a case control study

Version: 0 Date: 30 Nov 2019

Reviewer: Carla Contaldi

Reviewer's report:

General Remarks

The authors find:
- the LA reservoir and contractile function, evaluated by real time three-dimensional echocardiography (RT3DE), decrease in the patients with coronary slow flow phenomenon (CSFP) and correlate with coronary flow rate and with the number of arteries involved;
- the LA total ejection fraction by RT3DE can independently predict CSFP

Strength of the paper:
The authors demonstrate incremental value in evaluating left atrial phasic function using RT3DE, compared to two-dimensional echocardiography, for recognition of subclinical myocardial alternations related with CSFP

Minor Revisions:

1- Please, evaluate if there is difference in left atrial phasic function by RT3D between patients with CSFP and increased left ventricular filling pressures and patients with CSFP and normal left ventricular filling pressures (evaluated according to the latest guidelines of diastolic dysfunction);
2- Please, in the Discussion explain better the differences between the previous Xing's study and this study;
3- Please, change in section Methods, Intra- and Interobserver Variability: "reproducibility of LV function measurements by RT3DE", with "LA (left atrial) function measurements by RT3DE"

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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