

Reviewer #1:

Specific Comments to Authors: The topic of this review is interesting. I have some suggestions for the authors.

1. The Introduction is very short. It should highlight the importance of left intraventricular pressure differences and contain the aim of the review.

The introduction has been revised according to the review expert's opinion.

2. The manuscript needs English editing. I suggest to ask a native English-speaking colleague to revise the manuscript. Please also correct the punctuation errors.

The English has been polished by a native English speaking colleague and punctuation errors have been corrected.

3. If the authors consider a study relevant for their review, they should mention the author and the study type (cohort study, etc), for example: "[4].

The study also shows that there are regional pressure differences in both diastole and systole. Measurements of intraventricular pressure gradients throughout the cardiac cycle have provided insight into the complex interplay between LV filling and cardiac function[2]."

[2] and [4] are both prospective studies with randomized controlled experiments on animals, which have been described in the article.

4. I think the manuscript would be easier to understand if the authors would highlight better the phases of the cardiac cycle. They could number them - Paragraph 2, page 2.

The serial number has been used to highlight better the phases of the cardiac cycle.

5. Conclusions are too long.

The conclusions have been revised to make them more concise and focused.

Reviewer #2:

Specific Comments to Authors: The authors present a review of differential pressure and relative pressure imaging techniques in echocardiography to assess LV relaxation and diastolic dysfunction. This technique is evolving and certainly a great avenue for future studies to further explore and validate its role in assessment of left ventricular function. The authors have described the techniques and reviewed the current evidence well.

The reviewer's evaluation is good and no corresponding reply is required.