

Reviewer's code: 06129108

SPECIFIC COMMENTS TO AUTHORS

Echocardiography is the most widely used method to evaluate LV function before and after the operation. Traditionally in echocardiographic measurements, LV systolic function is measured through left ventricular ejection fraction referring to the fraction of LV end-diastolic volume ejected during systole. Left ventricular global longitudinal strain, which is derived from speckle tracking echocardiography, is introduced to quantize subtle myocardial dysfunction. This study detected how the baseline and changes of left ventricular global longitudinal strain during the operation affecting the perioperative outcomes. The manuscript is well written. The results provide new insights into the understanding of LV mechanics and pathophysiology in patient with sever aortic stenosis and play an important role in intraoperative monitoring. A minor editing should be made. Some minor language polishing should be corrected. And the tables should be moved to the end of the text.

Answer: Thank you very much. We have revised the manuscript carefully according to your comments.

Reviewer's code: 06129162

SPECIFIC COMMENTS TO AUTHORS

Interesting study about the change and impact of left ventricular global longitudinal strain during transcatheter aortic valve implantation. This study is worthy for publication after a minor editing.

Answer: Thank you very much. We have revised the manuscript carefully according to your comments