

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 73543

Title: Change and impact of left ventricular global longitudinal strain during transcatheter aortic valve implantation

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06129108

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: China

Manuscript submission date: 2021-11-24

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-11-28 01:50

Reviewer performed review: 2021-12-06 10:34

Review time: 8 Days and 8 Hours

Scientific quality	☐ Grade A: Excellent ☐ Grade B: Very good ☒ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Language quality	☐ Grade A: Priority publishing ☒ Grade B: Minor language polishing ☐ Grade C: A great deal of language polishing ☐ Grade D: Rejection
Conclusion	☐ Accept (High priority) ☐ Accept (General priority) ☒ Minor revision ☐ Major revision ☐ Rejection
Re-review	☒ Yes ☐ No

**Peer-reviewer
statements**

Peer-Review: ☒ Anonymous ☐ Onymous
Conflicts-of-Interest: ☐ Yes ☒ No

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.

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**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
https://www.wjgnet.com

Peer-reviewer statements	Peer-Review: [☒] Anonymous [☐] Onymous Conflicts-of-Interest: [☐] Yes [☒] No
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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.