

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 69940

Title: Evaluation of intracoronary function after reduction of ventricular rate by esmolol in severe stenotic myocardial bridge: A case report

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 06124643

Position: Peer Reviewer

Academic degree: MBBS

Professional title: Academic Fellow, Doctor, Surgeon, Teacher

Reviewer's Country/Territory: India

Author's Country/Territory: China

Manuscript submission date: 2021-07-17

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-08-31 04:04

Reviewer performed review: 2021-09-04 10:29

Review time: 4 Days and 6 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input checked="" type="checkbox"/> Grade B: Minor language polishing <input type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
Conclusion	<input type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

**Peer-reviewer
statements**Peer-Review: [☒] Anonymous [☐] OnymousConflicts-of-Interest: [☐] Yes [☒] No**SPECIFIC COMMENTS TO AUTHORS**

It is a well written manuscript of academic interest. Minor grammatical/spelling errors should be corrected. Also the flow of the case report is erratic. A chronological order of events is required for better understanding. Kindly remove 'advanced age' from history. Physical examination should highlight the arrhythmia with better characterization. Also ECG image of the arrhythmia should be presented. Correct the name of the drugs[eg. Atto vastatin, nitroside]

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Reviewer's code: 05347364

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Italy

Author's Country/Territory: China

Manuscript submission date: 2021-07-17

Reviewer chosen by: Xin Liu (Online Science Editor)

Reviewer accepted review: 2021-11-22 12:58

Reviewer performed review: 2021-11-23 20:54

Review time: 1 Day and 7 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input checked="" type="checkbox"/> Grade C: Good <input type="checkbox"/> Grade D: Fair <input type="checkbox"/> Grade E: Do not publish
Language quality	<input type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" type="checkbox"/> Grade C: A great deal of language polishing <input type="checkbox"/> Grade D: Rejection
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Peer-reviewer statements	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous
	Conflicts-of-Interest: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SPECIFIC COMMENTS TO AUTHORS

In the paper "Evaluation of intracoronary function after reduction of ventricular rate by esmolol in severe stenotic myocardial bridge: a case report" the authors describe an interesting case of myocardial bridge and the acute effect of esmolol infusion on coronary blood flow reserve. Title and abstract are clear and reflect the argument. Key words are correct. Background is correct. In the result is logically exposed the case. The case is very interesting due to the physiological evaluation of a relative rare case. The major problem is that the case is written in barely sufficient English and should be reviewed by a native speaker. Other major remarks concern some concept exposed in the discussion:

- The period "the reason may be that the distal pressure (Pd) and the measured FFR of coronary stenosis caused by systolic myocardial bridge milking were higher than those of fixed stenosis" is not clear. Moreover, you can guess that the authors speculate that the different changes after esmolol injection of FFR and iFR are caused by a theoretical different effect of the bridge respect to fixed stenosis. This is totally speculative and it has not any base of evidence. The two methodologies are different and it is logical that they have different degree of effect from the esmolol infusion.
- "In short, under the same degree of stenosis, the ischemic state of coronary artery caused by myocardial bridge was more serious than that of fixed stenosis": a dynamic stenosis is not comparable to a fixed one. This idea is not sustainable.

Minor remarks:

- "Atto vastatin calcium" should be changed into "atorvastatin calcium".
- "When the critical value was less than the critical value" should be rephrased.
- other minor spelling errors.

Thank you for the opportunity to review the paper.