

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 72405

Title: Predictors and Prognostic Impact of Post-operative Atrial Fibrillation in Patients with Hip Fracture Surgery

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05430761

Position: Peer Reviewer

Academic degree: MD

Professional title: Academic Fellow, Senior Researcher, Staff Physician

Reviewer's Country/Territory: United States

Author's Country/Territory: South Korea

Manuscript submission date: 2021-10-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-25 19:27

Reviewer performed review: 2021-10-25 21:52

Review time: 2 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 Grade E: Do not publish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 checked="" type="checkbox"/> Grade A: Priority publishing <input 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: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

The authors aimed to investigate the incidence, predictors, and hospital prognosis of POAF in HFS patients. They reviewed 245 patients without history of AF who underwent HFS. They concluded that POAF was frequently developed in elderly patients following HFS. Age, COPD and elevated E/e' ratio were found as significant predictors of POAF in HFS patients. Abstract well summarized and no comments. The methods and results are well presented. The author included all major cofounders. One of the factors they missed is frailty as it is a strong indication for mortality, ICU admission and even afib. Review this paper: The Association Between Body Mass Index, Frailty and Long-Term Clinical Outcomes in Hospitalized Older Adults If it is not possible to add frailty then mention it in limitations.

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Reviewer's code: 04907200

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Professor

Reviewer's Country/Territory: China

Author's Country/Territory: South Korea

Manuscript submission date: 2021-10-15

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-10-26 01:57

Reviewer performed review: 2021-10-27 03:34

Review time: 1 Day and 1 Hour

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 checked="" type="checkbox"/> Accept (General priority) <input 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: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

This study evaluates the predictors and prognosis of POAF following HFS in elderly patients retrospectively and find that age, COPD and elevated E/e' ratio were potential predictors of POAF in patients with HFS. Also, POAF was revealed as significant predictor of intensive care unit admission and incident CHF. These results indicate that physicians have to carefully observe the occurrence of AF after HFS in elderly patients. This study has clinical significance as it provides real-world observational results in elderly Korean patients with HFS as well as a guideline for perioperative care of those patients. Some comments are as following: Please check the punctuations in results part of abstract. Semicolon and comma were both used after OR and the following numbers, please keep consistent. The last sentence in the core tip (written as cor tip in the manuscript) part needs to be revised. A recently published paper by Rostagno et al. (DOI: 10.1007/s11739-020-02372-6) also studies the POAF in patients undergoing HFS. It would be better to make a comparison with the results in that paper and discuss about the difference. This manuscript includes several tables, which provides sufficient information and data. However, it would be better to also make some figures. Please refer to Rostagno's paper, which would be helpful.