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
[ ] 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[ ] Grade D: Fair  [ ] Grade E: Do not publish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
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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Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

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

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Review time: 1 Day and 1 Hour

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<th>Scientific quality</th>
<th>] Grade A: Excellent [ Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish</th>
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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.