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PEER-REVIEW REPORT

Name of journal: World Journal of Clinical Cases

Manuscript NO: 68853

Title: Development of a random forest model for hypotension prediction after anesthesia induction for cardiac surgery

Reviewer's code: 06081561
Position: Peer Reviewer
Academic degree: MD
Professional title: Doctor
Reviewer's Country/Territory: Italy
Author's Country/Territory: China

Manuscript submission date: 2021-06-06
Reviewer chosen by: AI Technique
Reviewer accepted review: 2021-06-07 07:47
Reviewer performed review: 2021-06-21 23:07
Review time: 14 Days and 15 Hours

Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [ ] Accept (General priority) [Y] Minor revision [ ] Major revision [ ] Rejection
Re-review	[Y] Yes [ ] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

This is an interesting study of random forest model for hypotension prediction after induction of anesthesia in cardiac surgery. The prediction model based on random forest has been applied in many fields of clinical medicine. However, few studies have applied Random Forest to predict postinduction hypotension in patients who underwent cardiac surgery. In this study, Random Forest algorithm was used as a powerful tool to learn feature representations to establish a prediction model for postinduction hypotension in patients who underwent cardiac surgery. This study is overall well designed and the results are very interesting. Data in tables are good, and the figures are informative. After a minor revision, it can be accepted for publication. Comments: 1. The manuscript requires a minor editing for both the language and format. 2. x ± s in the statistical analysis should be changed to mean ± SD. 3. The bars in figures should be changed to other color from red.