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PEER-REVIEW REPORT

Name of journal: *World Journal of Cardiology*

Manuscript NO: 87075

Title: Establishment of a prediction model for prehospital return of spontaneous circulation in out-of-hospital patients with cardiac arrest

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02446043

Position: Editorial Board

Academic degree: FACC

Professional title: Lecturer

Reviewer's Country/Territory: Malaysia

Author's Country/Territory: China

Manuscript submission date: 2023-07-23

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-08-31 06:24

Reviewer performed review: 2023-09-01 06:03

Review time: 23 Hours

Scientific quality	☐ Grade A: Excellent ☒ Grade B: Very good ☐ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Novelty of this manuscript	☒ Grade A: Excellent ☐ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No novelty
Creativity or innovation of this manuscript	☒ Grade A: Excellent ☐ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No creativity or innovation

Scientific significance of the conclusion in this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No scientific significance
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

This is a good, well thought study with robust statistical analysis. However authors need to address the points below Authors should note that

1. Many abbreviations are used in this article. All abbreviations in the Text, Abstract and Figure/Legend should be preceded by their spelling in full on a prior occasion.
2. The Abstract and Text are considered separately, so in both areas this rule has to be followed independently.
3. Many abbreviations are used in the text which makes reading difficult (especially when they are not preceded by their full spelling). To make for easier reading, authors should include a list of all abbreviations and their full spelling at the beginning of the Text, before the Introduction
4. Legend for the Figure must explain fully what the figure shows, so that the Figure can be understood without looking at the Text. All abbreviations in Legend must be explained with full spelling eg ROC receiver operating characteristic, mod=?
5. There are 2 Figure 1s: "Figure 1 Factor selection of P-ROSC via LASSO regression; Figure 1 A nomogram prediction model of P-ROSC"
6. There is no explanation about the nomogram in the text. Furthermore in the Legend, "the corresponding value of the total score was the predicted probability of P-ROSC"

needs to be phrased more clearly. Does this mean 0.9 is 90% probability? 7. There are 3 lines in the graph of Fig 3, but only one is labelled in the graph

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Reviewer's code: 03497479

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Full Professor

Reviewer's Country/Territory: Croatia

Author's Country/Territory: China

Manuscript submission date: 2023-07-23

Reviewer chosen by: Geng-Long Liu

Reviewer accepted review: 2023-08-31 04:33

Reviewer performed review: 2023-09-03 07:09

Review time: 3 Days and 2 Hours

Scientific quality	☐ Grade A: Excellent ☒ Grade B: Very good ☐ Grade C: Good ☐ Grade D: Fair ☐ Grade E: Do not publish
Novelty of this manuscript	☐ Grade A: Excellent ☒ Grade B: Good ☐ Grade C: Fair ☐ Grade D: No novelty
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	Conflicts-of-Interest: ☐ Yes ☒ No

SPECIFIC COMMENTS TO AUTHORS

I read with interest the article "An Analysis on Factors Influencing the Pre-hospital Return of Spontaneous Circulation in Out-of-hospital Patients with Cardiac Arrest and the Establishment of a Nomogram Prediction Model". It is a complex statistical analysis of clinical data with the purpose of developing a nomogram prediction model for the outcome of patients with out-of-hospital arrest. The authors singled out several important clinical variables related to the outcome of these severe patients; age, bystander CPR, initial rhythm, CPR duration, ventilation mode and pathogeny. I find the article valuable and I have no substantial objections. Before potential publication, I advise making minor changes; Pathogenesis means comorbidity? It is necessary to state the full name of a medical term with the abbreviation in parentheses at each first appearance in the text. Is there a cut-off value (values) in this model that indicate a significant chance of establishing spontaneous circulation vs. fatal outcome? Relatively small number of cited articles related to the topic - I advise to increase the number. Literary references Edit the article according to the WJC propositions