

PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 52873

Title: Risk score for predicting abdominal complications after coronary artery bypass grafting

Reviewer's code: 04159375

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Attending Doctor, Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: Russia

Manuscript submission date: 2019-11-26

Reviewer chosen by: Ying Dou (Quit in 2020)

Reviewer accepted review: 2020-02-15 19:27

Reviewer performed review: 2020-02-17 12:55

Review time: 1 Day and 17 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 Grade E: Do not publish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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input type="checkbox"/> No
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

Comments to the authors This study was performed to develop a risk score for the prediction of early abdominal complications after coronary artery bypass grafting with cardiopulmonary bypass retrospectively data of 6586 patients in a single center. The leading risk factors for early abdominal complications after CABG with CPB included multifocal atherosclerosis, extracorporeal membrane oxygenation, intra-aortic balloon pump, atrial fibrillation, acute perioperative myocardial infarction, and the need for performing postoperative resternotomy. This reviewer has several concerns about this article. Major: 1. Although the authors found that the risk scores to predict the early abdominal complications retrospectively, they are recommended to verify the reliability and usefulness of this risk scores in another patients group (for example patients between 2017- 2020 etc.). 2. The authors are requested to describe the importance of early abdominal complications in the introduction, because the potential authors of this journal are not specialists in cardiology neither cardiac surgery. 3. Please define the “early” and “abdominal complications” in early abdominal complications in detail. Which symptoms/signs and clinical problems are included? 4. Please define the multifocal atherosclerosis, diabetes, the intra- and post-operative myocardial infarction and cerebrovascular accident. 5. What do you mean by 6. the use of “extracorporeal membrane oxygenation”? Was it used as PCPS/ECMO for cardiogenic shock/acute respiratory failure or just used during emergent on pump CABG? Minor: 1. The following is not necessary in the main manuscript. The statistical methods of this study were reviewed by Yu. V. Naymushina from the Department of Medical Statistics, South Ural State Medical University, Chelyabinsk, Russia.

PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 52873

Title: Risk score for predicting abdominal complications after coronary artery bypass grafting

Reviewer's code: 00608250

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Russia

Manuscript submission date: 2019-11-26

Reviewer chosen by: Ying Dou (Quit in 2020)

Reviewer accepted review: 2020-02-18 13:54

Reviewer performed review: 2020-02-25 17:32

Review time: 7 Days and 3 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input type="checkbox"/> No
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



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

SPECIFIC COMMENTS TO AUTHORS

Concerns and suggestions: 1. In the manuscript the Authors talks about early abdominal complications after cardiopulmonary by-pass but they do not specify to which kind of complication they refer! 2. In the text the Authors do not show data about clinical characteristics at baseline (before cardiac surgery). Thus we can not exclude that those patients with abdominal complications had already a worse clinical situation. For example, atrial fibrillation was a new onset AF or not? Moreover, which was the ejection fraction at baseline? We can not exclude that patients who were treated with ECMO or IABP had a higher risk of developing abdominal complications. 3. In the conclusions, the Authors state that their risk score, by stratifying patients, will be important for treatment an diagnosis in order to reduce perioperative mortality. The question is HOW they believe that this risk score might change the clinical and therapeutic approach for these patients. Once identified them, which is the next step?

PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 52873

Title: Risk score for predicting abdominal complications after coronary artery bypass grafting

Reviewer's code: 02511796

Position: Peer Reviewer

Academic degree: FRACP, FRCP (C), FRCPA, MBBS

Professional title: Doctor, Senior Lecturer

Reviewer's Country/Territory: Australia

Author's Country/Territory: Russia

Manuscript submission date: 2019-11-26

Reviewer chosen by: Ying Dou (Quit in 2020)

Reviewer accepted review: 2020-02-15 03:54

Reviewer performed review: 2020-02-25 23:30

Review time: 10 Days and 19 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input type="checkbox"/> No
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



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
https://www.wjgnet.com

SPECIFIC COMMENTS TO AUTHORS

Thank you for submitting this retrospective paper that targets a novel concept of scoring abdominal complications post CAVBG. The article is well structured and answers the questions it raised. More details: **FIRST:** This article identifies novel risk for abdominal complications. The hypothesis are briefly discussed but not as relevant as this work is not aimed at causation. However by providing associations we can plan postoperative care. **SECOND:** The quality is good in regards to numbers. However the retrospective nature suggests there are gaps in the knowledge which needs addressing. **THIRD:** lacks details in many areas **SPECIFIC QUESTIONS:** 1 Title. Does the title reflect the main subject/hypothesis of the manuscript? **GOOD** 2 Abstract. Does the abstract summarise and reflect the work described in the manuscript? **OK** 3 Key words. Do the key words reflect the focus of the manuscript? **OK** 4 Background. Does the manuscript adequately describe the background, present status and significance of the study? **INADEQUATE** 5 Methods. Does the manuscript describe methods (e.g., experiments, data analysis, surveys, and clinical trials, etc.) in adequate detail? **LACKS STRUCTURE** - Look at a methods paper for headings 6 Results. Are the research objectives achieved by the experiments used in this study? What are the contributions that the study has made for research progress in this field? **OK** 7 Discussion. Does the manuscript interpret the findings adequately and appropriately, highlighting the key points concisely, clearly and logically? Are the findings and their applicability/relevance to the literature stated in a clear and definite manner? Is the discussion accurate and does it discuss the paper's scientific significance and/or relevance to clinical practice sufficiently? Needs more interrogation 8 Illustrations and tables. Are the figures, diagrams and tables sufficient, good quality and appropriately illustrative of the paper contents? Do figures require labeling with arrows, asterisks etc., better legends? **OK** 9 Biostatistics. Does the



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

manuscript meet the requirements of biostatistics? Needs stats review 10 Units. Does the manuscript meet the requirements of use of SI units? Not sure 11 References. Does the manuscript cite appropriately the latest, important and authoritative references in the introduction and discussion sections? Does the author self-cite, omit, incorrectly cite and/or over-cite references? OK 12 Quality of manuscript organization and presentation. Is the manuscript well, concisely and coherently organized and presented? Is the style, language and grammar accurate and appropriate? OK 13 Research methods and reporting. Authors should have prepared their manuscripts according to manuscript type and the appropriate categories, as follows: (1) CARE Checklist (2013) - Case report; (2) CONSORT 2010 Statement - Clinical Trials study, Prospective study, Randomized Controlled trial, Randomized Clinical trial; (3) PRISMA 2009 Checklist - Evidence-Based Medicine, Systematic review, Meta-Analysis; (4) STROBE Statement - Case Control study, Observational study, Retrospective Cohort study; and (5) The ARRIVE Guidelines - Basic study. Did the author prepare the manuscript according to the appropriate research methods and reporting? Not sure 14 Ethics statements. For all manuscripts involving human studies and/or animal experiments, author(s) must submit the related formal ethics documents that were reviewed and approved by their local ethical review committee. Did the manuscript meet the requirements of ethics? NA

PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 52873

Title: Risk score for predicting abdominal complications after coronary artery bypass grafting

Reviewer's code: 02520738

Position: Peer Reviewer

Academic degree: MD

Professional title: Associate Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Russia

Manuscript submission date: 2019-11-26

Reviewer chosen by: Ying Dou (Quit in 2020)

Reviewer accepted review: 2020-02-21 22:46

Reviewer performed review: 2020-02-26 08:42

Review time: 4 Days and 9 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 checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input type="checkbox"/> No
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

the paper is good and well written

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Cardiology

Manuscript NO: 52873

Title: Risk score for predicting abdominal complications after coronary artery bypass grafting

Reviewer's code: 00608250

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Italy

Author's Country/Territory: Russia

Manuscript submission date: 2019-11-26

Reviewer chosen by: Jie Wang (Quit in 2020)

Reviewer accepted review: 2020-04-14 13:39

Reviewer performed review: 2020-04-14 14:12

Review time: 1 Hour

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 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
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



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

No further comment

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: World Journal of Cardiology

Manuscript NO: 52873

Title: Risk score for predicting abdominal complications after coronary artery bypass grafting

Reviewer's code: 04159375

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Attending Doctor, Doctor

Reviewer's Country/Territory: Japan

Author's Country/Territory: Russia

Manuscript submission date: 2019-11-26

Reviewer chosen by: Jie Wang (Quit in 2020)

Reviewer accepted review: 2020-04-14 12:24

Reviewer performed review: 2020-04-16 11:24

Review time: 1 Day and 22 Hours

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
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



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

Comments to the authors The authors partly responded to the concerns of this reviewer. However, there are problems yet. 1. The authors defined “early” abdominal complications as prior to discharge. The predictive variables they suggested include also treatments and events during the admission after surgery. Thus, there is a possibility that this risk score cannot substantially predict the complications prospectively. I think that the variable should be limited to ones just after the surgery 2. One table should be added which shows fundamental clinical data of the 6590 patients including the factors shown in the table 1 (mean±SD, range, incidence etc. in all variables) to reflect the patient characteristics. 3. The criteria (method of diagnosis) of the diseases such as DM, HT, CKD are not shown. 4. This reviewer requires the validation of this risk score by evaluating another patient group as already suggested in the previous review. This should be considered before going to the prospective study. 5. What is the target journal ? World journal of cardiology or world journal of gastroenterology? In the final manuscript journal name is WJE and WJC in answers to the reviewers.