### PEER-REVIEW REPORT

**Name of journal:** World Journal of Cardiology  
**Manuscript NO:** 67331  
**Title:** Patent hemostasis of radial artery: Comparison of two methods  
**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:** Greece  
**Manuscript submission date:** 2021-04-21  
**Reviewer chosen by:** AI Technique  
**Reviewer accepted review:** 2021-04-21 12:13  
**Reviewer performed review:** 2021-04-26 22:17  
**Review time:** 5 Days and 10 Hours

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[ ] Grade E: Do not publish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

This is a prospective, single center RCT, with 299 consecutive patients who underwent coronary angiography or percutaneous coronary intervention seeking to compare the pulse oximeter versus the traditional radial artery palpation for successful patent hemostasis. The authors concluded that the use of pulse oximeter increased the probability of achieving patent hemostasis compared to artery palpation and was associated with lower rates of artery spasm. This reviewer has the following concerns about this paper.  

Major: 1. The authors did not explain the reason of older adults as in an independent predictor of patent hemostasis of radial artery. They should speculate the reason in the discussion. 2. The difference between the present study and previous studies, which were also studied the patent radial patent hemostasis, was not clearly described. In other words, the authors should indicate the novelty of this RCT more clearly in the abstract and main manuscript. 3. As the authors have already suggested, there is a bias in the evaluation of 30-day follow-up results. Although they only analyzed 204 out of 299 patients, the authors did not show the reason of lacking data. This number can not be ignored. 

Minor 1. Page line 3 radial artery occlusion (RAO) 2. Page3 line 11 PROPHET study abbreviation should be explained in the first appearance. 3. Page 3 line 17 In PROPHET-II Trial (PROPhylactic Hyperperfusion Evaluation Trial) ipsilateral 4. Page 3 line 20 RACOMAP show the full spelling in the first appearance.