

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

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Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-04-21 12:13

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Review time: 5 Days and 10 Hours

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 Grade E: Do not publish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 type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input checked="" type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" 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

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.