



PEER-REVIEW REPORT

Name of journal: World Journal of Cardiology

Manuscript NO: 58028

Title: Psychological stress and long-term blood pressure variability of military young males: The cardiorespiratory fitness and hospitalization events in armed forces study

Reviewer's code: 00397579

Position: Editorial Board

Academic degree: FACC, MD, PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: Taiwan

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Reviewer chosen by: Le Zhang

Reviewer accepted review: 2020-09-08 02:39

Reviewer performed review: 2020-09-20 18:33

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|---------------------------------|---|
| 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 Grade E: Do not publish |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 checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input 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 |



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SPECIFIC COMMENTS TO AUTHORS

The manuscript by Lin et al is an excellently written one. Although the results were negative for association between psychological stress and long-term blood pressure variation, it will contribute to the literature by publishing this manuscript. I have the following few comments for the authors to consider before publishing: a) The study cohorts were well defined. However, the blood pressure measurements were rather infrequent (every two years in interval). The authors should discuss whether this might affect the outcomes. b) I was not clear whether BSRS score and BP were measured with each visit for all participants. If so, were there any changes of BSRS score for individual participants from one visit to the other? were there changes of SBP, DBP, MAP from one visit to the other correspondingly? c) It was pretty widely accepted concept that chronic psychological stress may affect blood pressure. This study revealed a null association between chronic stress and long-term BPV in young adults. It would be important to clearly state that the interval of BP measurement were long (years) instead of months. So it may promote further studies to either confirm or dispute the conclusions d) The association of less physical activities, higher tobacco smoking with chronic mental stress were interesting. Further discussion would be helpful.