

Name of Journal: *World Journal of Clinical Cases*

ESPS Manuscript NO: 54916

Association of metabolic biomarkers with long-term blood pressure variability among young male adults: The CHIEF study

Dear Editor:

Thank you very much for the opportunity to revise our manuscript. We have revised our paper using point-by-point response to the reviewers' comments and highlighted in red as follow.

#### PEER REVIEWER COMMENTS:

##### Reviewer 1:

**Specific Comments to Authors:** -This is a good study and impressive about the included population and study-period (2012-2018). -However, I am disturbed by the third restriction "we did not have data for amount and frequency of alcohol consumption and tobacco smoking of each subject, a potential modifier on the relationship between metabolic biomarkers and blood pressure, to examine the effect on the long-term BPV", due to the frequency and amount of alcohol consumption perhaps has an inverse association with BPV.

##### Response

Thank you very much for your kindly comments.

We have revised the sentence as "Third, we did not have data for the amount and frequency of alcohol consumption and tobacco smoking for each subject, which might be inversely associated with long-term BPV" as you suggested.

- In table 1, in characteristics the renal function by eGFR value is absent, despite it is reported that uric acid levels depend on urinary excretion.

##### Response

Thank you very much for your kindly comments.

We have provided the eGFR data in Table 1 and added the descriptions for the eGFR calculation from CKD-EPI equation.

*Science Editor:*

1 Scientific quality: The manuscript describes an observational study about the association of metabolic biomarkers with long-term blood pressure variability among young male adults. The topic is within the scope of the WJD. (1) Classification: Grade C; (2) Summary of the Peer-Review Report: The reviewer thinks this is a good study and impressive about the included population and study-period (2012-2018). However, there is no data for amount and frequency of alcohol consumption and tobacco smoking of each subject, due to the frequency and amount of alcohol consumption perhaps has an inverse association with BPV. In characteristics the renal function by eGFR value is absent, despite it is reported that uric acid levels depend on urinary excretion. (3) Format: There are 2 figures and 2 tables. A total of 36 references are cited, including 8 references published in the last 3 years. There are 2 self-citations. 2 Language evaluation: Classification: Grade B. The authors did not provide the language editing certificate. 3 Academic norms and rules: The authors did not provide the Signed Informed Consent Form and the STROBE Statement. The authors provided the Biostatistics Review Certificate and the Institutional Review Board Approval Form. The authors signed the Copyright License Agreement, but the Conflict-of-Interest Disclosure Form was submitted as a STROBE Statement. No academic misconduct was found in the CrossCheck detection and Bing search. 4 Supplementary comments: This is an invited manuscript. The study was supported by the Institutional Review Board of the Mennonite Christian Hospital in the Hualien City of Taiwan. The topic has not previously been published in the WJD. 5 Issues raised: (1) The authors did not provide original pictures. Please provide the original figure documents. Please prepare and arrange the figures using PowerPoint to ensure that all graphs or arrows or text portions can be reprocessed by the editor; (2) The "Article Highlights" section is missing. Please add the "Article Highlights" section at the end of the main text. 6 Re-review: Not required. 7 Recommendation: Conditional acceptance. ( Han Zhang )

**Response:**

Thank you very much for your kindly comments.

We have revised the manuscript and provided the documents you suggested.