Reviewer’s report

Title: High-sensitive C-reactive protein and risk of incident type 2 diabetes: a case-control study nested within the Singapore Chinese Health Study

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Reviewer: Indulekha Karunakaran

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Title: High-sensitive C-reactive protein and risk of incident type 2 diabetes: a case-control study nested within the Singapore Chinese Health Study

Journal: BMC Endocrine disorders

Comments

1. The authors have used self reported BMI which might not accurately reflect the actual BMI. This should be acknowledged as a limitation of the study.

2. The intra and inter assay co-efficients of variation of the blood lipids should be provided in the methods section.

3. The BMI cut points used in the study were <20.0, 20.0-23.9, 24.0-27.9, ≥28.0 kg/m². The methods section should include details on which international criteria has been adopted to categorize the subjects.

4. In Table 1, the subjects are age, gender and dialect matched. Then, there is no necessity to adjust for these factors in table 2. Model 2, 3 and 4 would suffice.

5. In table 2, model 3, the BMI cut points used were <20.0, 20.0-23.9, 24.0-27.9, ≥28.0 kg/m². However, the average BMI of the cases and controls are 24.8 ± 3.6 and 22.8 ± 3.3 kg/m² respectively. Hence, using the cut point of < 23 and ≥ 23 kg/m² would be more appropriate.

6. In tables 3, 4 and 5 also, only Models 2, 3 and 4 need to be retained and the 2 BMI categories used.

7. The method of measurement of LDL cholesterol is not provided in the methods section. Was it calculated using Friedewald formula?

8. A flow diagram on the phases of the study and participant selection could increase clarity of the study design.
Are the methods appropriate and well described?
If not, please specify what is required in your comments to the authors.

Yes

Does the work include the necessary controls?
If not, please specify which controls are required in your comments to the authors.

Yes

Are the conclusions drawn adequately supported by the data shown?
If not, please explain in your comments to the authors.

Yes

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If an additional statistical review is recommended, please specify what aspects require further assessment in your comments to the editors.

I am able to assess the statistics

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