

Dear editor:

Thanks for your work and suggestions. We revised our manuscript carefully according to your and reviewers' suggestions, and all changes were highlighted in the revised manuscript.

The following is the reply to all comments.

## SCIENTIFIC QUALITY

### Reviewer #1

1. The English need improvement since there are few grammatical and syntax errors in the manuscript

Reply: Many thanks for your comments. We have revised the grammatical and syntax errors in the manuscript.

2. There are some typing mistakes as well, and authors are advised to carefully proof-read the text

Reply: Thanks for your review. We have checked our manuscript for typing mistakes and made revisions.

3. Check the abbreviations throughout the manuscript and introduce the abbreviation when the full word appears the first time in the text and then use only the abbreviation

Reply: Many thanks for your comments. We have checked the abbreviations and revised according to the requirements of the journal.

4. The key words given with the abstract already exists in the title of the paper which can be derived from the other than the title. The keywords should assist computer searches to find your specific article.

Reply: Many thanks for your comments. We changed our keywords into "Diabetes Mellitus, Type 2;  $\beta$ -cell dysfunction; Insulin resistance; Adolescent; Homeostasis models" to assist computer searches to find the article.

5. When referring to SPSS versions beginning from 19, authors should cite 'IBM SPSS Statistics for Windows, version XX (IBM Corp., Armonk, N.Y., USA)'.  
And also the authors may reduce the content of statistical analysis.

Reply: Many thanks for your comments. We revised the content of statistical analysis and made it more reader friendly. We also revised the citation of SPSS.

6. The authors should follow one pattern in writing digits and units (For example, %).

Reply: Many thanks for your comments. We have checked our manuscript again for the pattern of digits and units and have necessary revisions.

7. The authors should check the reference properly mentioned in the text is matched with the back references. For example, in page number 13, the authors begin with Wang et al. and the reference number 18 (Kelsey, 2016) given is not matched properly. When numbering reference the authors may include after et al. wherever applicable.

Reply: Many thanks for your comments. We have checked all the reference and have made necessary revisions. We also added reference in page number 13 after Wang et al.

8. In the result table, the authors should include the standard deviation with  $\pm$  sign. And also, the significant find should be \* or \*\* or \*\*\* sign wherever applicable.

Reply: Many thanks for your comments. We revised the result tables according to the suggestions.

## **LANGUAGE QUALITY**

Many thanks for your comments. Our manuscript was revised by native speakers for grammar, sentence structure, word usage, spelling, capitalization, punctuation, format, and general readability. We also checked our manuscript again according to review

comments.

## **ABBREVIATIONS**

Many thanks for your comments. We checked the abbreviations in the manuscript according to the requirements.

## **EDITORIAL OFFICE'S COMMENTS**

### **Issues raised:**

(1) The title is too long, and it should be no more than 18 words;

Reply: Many thanks for your comments. We changed the title as “Association of  $\beta$ -cell function and insulin resistance with pediatric type 2 diabetes among Chinese children”, which was 15 words.

(2) The authors did not provide the approved grant application form(s). Please upload the approved grant application form(s) or funding agency copy of any approval document(s);

Reply: Thanks for your comments. We upload the grant application form along with the revised manuscript.

(3) 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;

Reply: Thanks for your comments. We upload the original pictures by PowerPoint along with the revised manuscript. The eps files of each picture and their separated part was also uploaded.

(4) The “Article Highlights” section is missing. Please add the “Article Highlights” section at the end of the main text.

Reply: Thanks for your comments. The “Article Highlights” section was added at the end of the main text.

Fei-Hong Luo

## Answering reviewers for Re-Review

Reviewer #1:

The following corrections should be taken into consideration during proof-reading the manuscript. For example, the word “Pediatric ,” may be as “Pediatric,”; “principal Investigators” as “Principal Investigators of principal investigators”; “glucotoxic” as “glucotoxicity”; “single center” as “single-center”; “an T2DM” as “and T2DM”; “among Chinese” as “among the Chinese”; “high risk” as “high-risk”).

Reply: We revised our manuscript carefully according to your and reviewers’ suggestions, and all changes were highlighted in blue in the revised manuscript