

PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 74243

Title: Relationship of Quality of Life with Adolescent Glycolipid Metabolism Disorder:
A Cohort Study

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05550091

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: South Africa

Author's Country/Territory: China

Manuscript submission date: 2021-12-20

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-02 14:40

Reviewer performed review: 2022-02-10 09:16

Review time: 7 Days and 18 Hours

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 Grade E: Do not publish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 type="checkbox"/> Grade A: Priority publishing <input type="checkbox"/> Grade B: Minor language polishing <input checked="" 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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

The authors investigated the determinants of glycolipid metabolism disorders in adolescents through looking at gestetional parametets, qaulity of life and marital status amongs other things. This study proposes that glucolipid metabolism disorders are associated with gestational hypertension, maternal weight gain, obsesity, rural residence.

I also feel the authors should have investigated the diets of the participants. I think this would have solidified their arguments when comparing rural and urban participants. Also, I think it may be important to consider the participants physical activity as well moving forward.

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03592619

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: Turkey

Author's Country/Territory: China

Manuscript submission date: 2021-12-20

Reviewer chosen by: Xin Liu

Reviewer accepted review: 2022-02-24 21:14

Reviewer performed review: 2022-02-24 21:53

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 type="checkbox"/> Major revision <input checked="" type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" 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

Dear editor, I would like to thank authors for their efforts . However, there are major concerns in the method of the study. I do not think that filling out the questionnaires by the teacher is reliable for a study. The authors stated that “The validity and reliability of the questionnaire were checked, and were described in detail in a previous publication (Liang et al., 2019b). The questionnaire was completed by the parents or guardians of the children after standard training by the research group. ” This sentence is not clear. Which questionnaire? Who did measure the blood pressure? Who did take blood for biochemical markers? Where were these measurements taken? The authors stated that “The QoL questionnaire for adolescents consists of 49 items”. It is not clear for the readers. Which QoL questionnaire was used? I think “The Chinese version of Eysenck’s personality questionnaire” is not suitable for this study hypothesis? Why did the authors use this scale? The authors stated that “This study is the first prospective cohort study that involves QoL and personality traits, in addition to perinatal, SES and physical measurements over an average 12-year follow-up from” However there is no follow-up for 12 years, authors presented that they had measured children for twice. And also some information was collected retrospectively. Tables are so long and difficult to understand. What is the result of this study? The authors aimed to explore the prevalence of and risk factors for glycolipid metabolism disorder (GLMD) from prenatal to childhood and adolescence. However there is no statistical analysis to present risk factors for GLMD. The aim, method and results of the study were not presented in a coherent manner. The results of the study should be interpreted The discussion section is not enough should be rewritten.

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Title: Relationship of Quality of Life with Adolescent Glycolipid Metabolism Disorder:
A Cohort Study

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03769070

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Brazil

Author's Country/Territory: China

Manuscript submission date: 2021-12-20

Reviewer chosen by: Xin Liu

Reviewer accepted review: 2022-02-26 12:17

Reviewer performed review: 2022-03-08 03:13

Review time: 9 Days and 14 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="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

The study is relevant and certainly a large amount of data was obtained. In order to contribute to the improvement of the manuscript, some questions and suggestions are proposed:

1. It's important to follow the Journal formatting rules. Please note that the manuscript must be prepared using 12 pt Book Antiqua font. There are other discrepancies as abstract structure, type of citations in the text, positioning tables, structural topics; in addition, some topics and information, such as core tip, are missing
2. In "Keyword", please check the typing error
3. The English language must be consistent throughout the manuscript, e.g.: "dyslipidaemia" or "dyslipidemia"; "caesarean" or "caesarean"
4. Table 2 is too long and made the analysis difficult. I understand that it is complicated to summarize a lot of information in a table, perhaps it can be considered the possibility to reduce the amount of data or separate the data into additional tables
5. About the Discussion, it is important to try to relate some study results through metabolic pathways to make the manuscript more robust. It is possible, e.g., to propose hypotheses that relate data on lipoproteins and HbA1c. Metabolic syndrome is very relevant, and it could have been better explored.

Best regards

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A Cohort Study

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 02976336

Position: Editor-in-Chief

Academic degree: DPhil, PhD

Professional title: Full Professor

Reviewer's Country/Territory: Spain

Author's Country/Territory: China

Manuscript submission date: 2021-12-20

Reviewer chosen by: Xin Liu

Reviewer accepted review: 2022-03-01 06:36

Reviewer performed review: 2022-03-12 06:38

Review time: 11 Days

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 type="checkbox"/> Grade B: Minor language polishing <input checked="" 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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input type="checkbox"/> Yes <input checked="" 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 (ID: 74243), "The impact factors of children and adolescent abnormal glucolipid metabolism: from a prospective cohort study", has been reviewed carefully. This manuscript observed low QoL status, unstable and psychotic personality traits were associated with increased GLMD risk independent of obesity. This manuscript deals with the correlation between spirit and environment and glucose and lipid metabolism disorders. Some of these studies have been reported (DOI: 10.1016/j.ajp.2022.103003 ; DOI: 10.1007/s11892-015-0704-4), but the manuscript also involves the population information of other factors, which can be used as an important supplement in this field. Moreover, there are some problems in this manuscript. The major drawbacks of the manuscript are as follows: 1. Please modify the format of references. There are some missing contents, such as on "Liang, X... European journal of clinical nutrition.; Liang, X,... Journal of hypertension; Liang, X,... Journal of human hypertension.". 2. Why are two methods of significance comparison used in Table 2 ("a, b, c" and "p value"). 3. Data on GH and diabetes may recall bias existed. Moreover, the limit of collecting manner on QoL and personality traits makes it difficult to draw conclusions regarding causality relationships of QoL and personality traits with GLMD. 4. It is suggested to provide some prospects of this research or the direction of further research in the discussion part.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

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Manuscript NO: 74243

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Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 03769070

Position: Editorial Board

Academic degree: PhD

Professional title: Professor

Reviewer's Country/Territory: Brazil

Author's Country/Territory: China

Manuscript submission date: 2021-12-20

Reviewer chosen by: Jia-Ru Fan

Reviewer accepted review: 2022-05-12 21:05

Reviewer performed review: 2022-05-14 19:25

Review time: 1 Day and 22 Hours

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 type="checkbox"/> Accept (High priority) <input checked="" type="checkbox"/> Accept (General priority) <input type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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statements

Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The results of the manuscript are quite relevant mainly because it is a cohort study. Suggestions for improvement were accepted and I believe that the article can be published and contribute to the scarce literature on metabolic health of adolescents