



PEER-REVIEW REPORT

Name of journal: *World Journal of Diabetes*

Manuscript NO: 75860

Title: Insulin-resistance in paediatric age: Its magnitude and implications

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 00863327

Position: Peer Reviewer

Academic degree: MD, PhD

Professional title: Full Professor

Reviewer's Country/Territory: Taiwan

Author's Country/Territory: Egypt

Manuscript submission date: 2022-02-18

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-19 02:36

Reviewer performed review: 2022-02-20 13:28

Review time: 1 Day and 10 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 Grade E: Do not publish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
Re-review	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Peer-reviewer	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous



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

SPECIFIC COMMENTS TO AUTHORS

It is an interesting review article discussing the current magnitude, implication, diagnosis, and treatment of insulin resistance (IR) in children. In the manuscript, the authors stated that IR increases in pediatric population due to the lifestyle changes and the pandemic obesity, and there is a broad range of genetic and acquired causes of IR with a variable global prevalence. The manuscript is well-written in English and includes two tables and one figure. The content is directly relevant to the clinical application. There are only some suggestions to correct typographical errors as follows.

1. Since IR is an abbreviation for insulin resistance at the beginning of the article, the authors should use IR through their manuscript. 2. In “3. SIMPLE SURROGATE INSULIN SENSITIVITY/RESISTANCE INDEXES”, the formulae for QUICKI and HOMA should be in similar measurement unit. For HOMA, the formula should be $[\text{Fasting glucose (mg/dL)} \times \text{Fasting insulin } (\mu\text{U/ml})] / 405$ rather than $[\text{Fasting glucose (mmol/litre)} \times \text{Fasting insulin } (\mu\text{U/ml})] / 22.5$. 3. Non-uniform expression of small and capital letters was noted in the contents of Figure 1. For example, Dietary Intervention, Physical activity, etc.



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Reviewer's code: 05387405

Position: Peer Reviewer

Academic degree: MSc, PhD

Professional title: Research Scientist

Reviewer's Country/Territory: Hungary

Author's Country/Territory: Egypt

Manuscript submission date: 2022-02-18

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-21 11:41

Reviewer performed review: 2022-03-01 20:08

Review time: 8 Days and 8 Hours

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent <input 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
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Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

Authors presented a very well written review about insulin resistance in children. 1. There are a few small typos throughout the text, those should be checked prior publication. E.g.: 1.1. Page 5, line 2: "between 3.1 and 44%. of" 1.2. Page 9, line 2: Plus -> Alongside ?? 1.3. Page 9, line 8: MD ->DM 1.4. Page 13, line 16: stock -> stroke? 1.5. Page 15, lines 8-17: IGF-I = IGF-1?? 1.6. Page 19, line 16: good history -> good medical history 1.7. Page 27, line 28: DH -> DM ?? 2. Page 10, lines 12-22: should be a merged as a singles paragraph 3. Why was insulin written with italic style in a few sentences at the beginning of the article? Similarly, a few expressions were highlighted with bold style, while others not (e.g. in the medications section).



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Reviewer's code: 03199608

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Chief Physician, Director, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: Egypt

Manuscript submission date: 2022-02-18

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-02-19 12:04

Reviewer performed review: 2022-03-04 13:52

Review time: 13 Days and 1 Hour

Scientific quality	<input checked="" type="checkbox"/> Grade A: Excellent <input 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
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Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

This review is on insulin resistance increases in children due to lifestyle changes and the pandemic of obesity. There is association between obesity in children and adolescents and insulin resistance. Causes of insulin resistance might be from both genetic and acquired. Tests of evaluation and available treatment also are discussed.

