

## 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

<b>Scientific quality</b>	<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 Grade E: Do not publish
<b>Language quality</b>	<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
<b>Conclusion</b>	<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
<b>Re-review</b>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="checkbox"/> Anonymous <input type="checkbox"/> Onymous

statements

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

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

**Review time:** 8 Days and 8 Hours

<b>Scientific quality</b>	<input checked="" type="radio"/> Grade A: Excellent <input type="radio"/> Grade B: Very good <input type="radio"/> Grade C: Good <input type="radio"/> Grade D: Fair <input type="radio"/> Grade E: Do not publish
<b>Language quality</b>	<input checked="" type="radio"/> Grade A: Priority publishing <input type="radio"/> Grade B: Minor language polishing <input type="radio"/> Grade C: A great deal of language polishing <input type="radio"/> Grade D: Rejection
<b>Conclusion</b>	<input checked="" type="radio"/> Accept (High priority) <input type="radio"/> Accept (General priority) <input type="radio"/> Minor revision <input type="radio"/> Major revision <input type="radio"/> Rejection
<b>Re-review</b>	<input type="radio"/> Yes <input checked="" type="radio"/> No
<b>Peer-reviewer</b>	Peer-Review: <input checked="" type="radio"/> Anonymous <input type="radio"/> Onymous

statements

Conflicts-of-Interest: [ ☐ ] Yes [ ☒ ] 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: Pluss -> 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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**Peer-review model:** Single blind

**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

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**Review time:** 13 Days and 1 Hour

<b>Scientific quality</b>	[ <input checked="" type="radio"/> ] Grade A: Excellent [ <input type="radio"/> ] Grade B: Very good [ <input type="radio"/> ] Grade C: Good [ <input type="radio"/> ] Grade D: Fair [ <input type="radio"/> ] Grade E: Do not publish
<b>Language quality</b>	[ <input checked="" type="radio"/> ] Grade A: Priority publishing [ <input type="radio"/> ] Grade B: Minor language polishing [ <input type="radio"/> ] Grade C: A great deal of language polishing [ <input type="radio"/> ] Grade D: Rejection
<b>Conclusion</b>	[ <input checked="" type="radio"/> ] Accept (High priority) [ <input type="radio"/> ] Accept (General priority) [ <input type="radio"/> ] Minor revision [ <input type="radio"/> ] Major revision [ <input type="radio"/> ] Rejection
<b>Re-review</b>	[ <input checked="" type="radio"/> ] Yes [ <input type="radio"/> ] No
<b>Peer-reviewer</b>	Peer-Review: [ <input checked="" type="radio"/> ] Anonymous [ <input type="radio"/> ] Onymous



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statements

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.

