



PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 63951

Title: Diabetes and COVID-19: Role of insulin resistance as a risk factor for COVID-19 severity

Reviewer's code: 05315572

Position: Editorial Board

Academic degree: MD, PhD

Professional title: Chief Doctor, Professor

Reviewer's Country/Territory: China

Author's Country/Territory: India

Manuscript submission date: 2021-02-19

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2021-04-07 06:00

Reviewer performed review: 2021-04-07 11:24

Review time: 5 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 Grade E: Do not publish |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 checked="" type="checkbox"/> Minor revision <input 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="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

1.The effect and mechanism of COVID-19 influences the β - cell function and insulin resistance should be illustrated with pictures 2.The effects of covid-19 on the function of β - cells, including the direct effects, the specific mechanisms of blood supply reduction and the signal pathways which involved should be listed 3.At last, future research hotspots and directions should be described in detail



PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 63951

Title: Diabetes and COVID-19: Role of insulin resistance as a risk factor for COVID-19 severity

Reviewer's code: 05126185

Position: Editorial Board

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: South Korea

Author's Country/Territory: India

Manuscript submission date: 2021-02-19

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2021-04-07 06:37

Reviewer performed review: 2021-04-08 02:11

Review time: 19 Hours

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|---------------------------------|---|
| 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 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 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

This is a well-written manuscript with an important topic. I would like to suggest you to elaborate in the end of the manuscript how to improve this line of research.



PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 63951

Title: Diabetes and COVID-19: Role of insulin resistance as a risk factor for COVID-19 severity

Reviewer's code: 05249683

Position: Editorial Board

Academic degree: BSc, MSc, PhD

Professional title: Professor

Reviewer's Country/Territory: Egypt

Author's Country/Territory: India

Manuscript submission date: 2021-02-19

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2021-04-07 15:46

Reviewer performed review: 2021-04-14 09:45

Review time: 6 Days and 17 Hours

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|---------------------------------|---|
| 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 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="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 authors showed an important and advanced topic relating diabetes and Covid-19. The authors have to support their study by meta analysis. One figure in the present version is not enough to explain the review concept. The author have to revise their manuscript for sentence structure and language grammar e.g. page 8 has a lot of language mistakes. In addition, the authors have to revise their references specially reference numbers 3, 4, 25 & 28.



PEER-REVIEW REPORT

Name of journal: World Journal of Diabetes

Manuscript NO: 63951

Title: Diabetes and COVID-19: Role of insulin resistance as a risk factor for COVID-19 severity

Reviewer's code: 05085556

Position: Peer Reviewer

Academic degree: PhD

Professional title: Associate Professor

Reviewer's Country/Territory: United States

Author's Country/Territory: India

Manuscript submission date: 2021-02-19

Reviewer chosen by: Jia-Ping Yan

Reviewer accepted review: 2021-04-08 00:14

Reviewer performed review: 2021-04-27 02:45

Review time: 19 Days and 2 Hours

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|---------------------------------|---|
| 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 |
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| Re-review | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No |
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SPECIFIC COMMENTS TO AUTHORS

My recommendation for this MS is a major revision. This is an interesting review manuscript, which illuminated insulin resistance as a possible pathogenesis underpinning the severity of symptoms in patients with COVID-19. The authors reviewed the literature to link the mechanisms (particularly inflammatory pathways leading to thromboembolism) of insulin resistance associated with COVID-19 severity. This review concluded insulin resistance likely contributes to the severe symptoms of COVID-19. However, there are some concerns listed below.

1. The authors should provide summary tables: 1) For the clinical and biochemical markers of insulin resistance for evaluating diabetes status in patients with COVID-19, 2) The mechanisms associated with insulin resistance, for instance, insulin and vascular inflammation, and the factors associated with portal circulation, RAS system and inflammation reflecting special emphasis in COVID-19.
2. A figure legend in Figure 1 is missing. Words in Figure 1 are also hard to read. Increase the fonts.
3. In the introduction section the author mentioned "Epidemiological data has revealed that the fatality rate is higher in older population with common comorbidities". Please elaborate on the common comorbidities manifested in the older population.
4. Check and use the name of "COVID-19" across the manuscript (e.g. COVID19, COIVD19).
5. Define the gene names and then use the abbreviations (e.g. IL-2, IL-7, IL-10, G-CSF, TNF, MCP1).
6. There are several grammatical errors.
7. The title does not represent the model and conclusion.