

PEER-REVIEW REPORT

Name of journal: *World Journal of Biological Chemistry*

Manuscript NO: 80616

Title: Correlation of serum SARS-CoV-2 IgM and IgG serology and clinical outcomes in COVID-19 patients: Experience from a tertiary care centre

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05487696

Position: Peer Reviewer

Academic degree: MD, MSc

Professional title: Consultant Physician-Scientist, Doctor, Lecturer

Reviewer's Country/Territory: Egypt

Author's Country/Territory: India

Manuscript submission date: 2022-10-10

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-12-17 08:01

Reviewer performed review: 2022-12-17 15:26

Review time: 7 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 Grade E: Do not publish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="checkbox"/>] Anonymous [<input type="checkbox"/>] Onymous
	Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No

SPECIFIC COMMENTS TO AUTHORS

-Title: typo errors (centre) -Abstract: Grammar revision is recommended -Introduction:
1- "A strong association was observed between the magnitude of antibody response and patient survival, disease severity and fatal outcomes" Kindly add a source (several sources can be added such as <https://doi.org/10.3390/pathogens10050565>). 2- In introduction section you mention that the total number of patients is 493, is it OK?
-Methods: You should specify how did you get the serological (IgM IgG) results; Did you retrospectively retrieve the documented results (if so then you should mention in inclusion criteria that the patients only who had those results in the medical files) OR did you perform the serology tests in the stored serum samples? - Results: 1-In table 1 why do you record both mean and median in some values? 2- Some figures (eg, 5,6) could be replaced by table or tables to be more clear.

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Reviewer's code: 05527087

Position: Peer Reviewer

Academic degree: Doctor, PhD

Professional title: Assistant Professor, Associate Professor, Associate Research Scientist, Doctor, Lecturer, Research Associate, Research Scientist, Researcher, Science Editor, Senior Editor, Senior Researcher, Surgeon

Reviewer's Country/Territory: Morocco

Author's Country/Territory: India

Manuscript submission date: 2022-10-10

Reviewer chosen by: Dong-Mei Wang

Reviewer accepted review: 2022-12-23 10:21

Reviewer performed review: 2022-12-25 21:15

Review time: 2 Days and 10 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
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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
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SPECIFIC COMMENTS TO AUTHORS

Good manuscript with good scientific soundness, to be published