

PEER-REVIEW REPORT

Name of journal: *World Journal of Radiology*

Manuscript NO: 66579

Title: Chest radiological finding of COVID-19 in patients with and without diabetes mellitus: Differences in imaging finding

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05426937

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Romania

Manuscript submission date: 2021-03-30

Reviewer chosen by: Ze-Mao Gong

Reviewer accepted review: 2021-07-26 12:54

Reviewer performed review: 2021-08-05 13:49

Review time: 10 Days

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 Grade E: Do not publish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 checked="" type="checkbox"/> Accept (High priority) <input type="checkbox"/> Accept (General priority) <input 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 type="checkbox"/>] Anonymous [<input checked="" type="checkbox"/>] Onymous Conflicts-of-Interest: [<input type="checkbox"/>] Yes [<input checked="" type="checkbox"/>] No
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SPECIFIC COMMENTS TO AUTHORS

Diabetes mellitus (DM) is a risk factor associated with severe illness in SARS-CoV-2 infection. This article reviews current literature regarding chest imaging changes in patients with DM affected by COVID-19. This manuscript is well written and of clinical interest. The manuscript provides a comprehensive, systematic and in-depth summary of that, and summarizes as follow: DM predisposes to immune deregulation and reduced expression of the ACE2 receptor, leading to severe acute lung injury. Studies have proven a link between DM and more severe airspace consolidation based on chest x-ray findings. Furthermore, CXR evidence suggests DM is associated with higher mortality in COVID-19. The exact pathogenesis of this is unclear but may be related to microvascular immunothrombosis. There is now quantitative evidence to suggest poorly controlled DM is associated with more severe lung injury on CT. However, no large-scale studies have investigated a direct link between CT findings and mortality in DM. Although the incidence of PE is greater in critically ill patients with COVID-19, no link has been established between poorly controlled DM and the risk of PE. As new research into COVID-19 is produced and evidence emerges from autopsy studies, the understanding of pathobiology of the disease has evolved. The article also puts forward the current problems and future research directions. There remains scope for future research, particularly whether small pulmonary thromboses represent venous thromboembolism, immunothrombosis, or a combination of both. Furthermore, a direct link between DM and immunothrombosis may help to guide future management strategies. Therefore, I recommend publishing this manuscript.

RE-REVIEW REPORT OF REVISED MANUSCRIPT

Name of journal: *World Journal of Radiology*

Manuscript NO: 66579

Title: Chest radiological finding of COVID-19 in patients with and without diabetes mellitus: Differences in imaging finding

Provenance and peer review: Invited manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05848956

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Saudi Arabia

Author's Country/Territory: Romania

Manuscript submission date: 2021-03-30

Reviewer chosen by: Li-Li Wang

Reviewer accepted review: 2021-12-22 09:21

Reviewer performed review: 2021-12-22 09:41

Review time: 1 Hour

Scientific quality	[<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
Language quality	[<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
Conclusion	[<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
Peer-reviewer	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous



**Baishideng
Publishing
Group**

7041 Koll Center Parkway, Suite
160, Pleasanton, CA 94566, USA
Telephone: +1-925-399-1568
E-mail: bpgoffice@wjgnet.com
<https://www.wjgnet.com>

statements

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

SPECIFIC COMMENTS TO AUTHORS

1- Please consider to add space before the reference number. 2- Please apply one referencing style (numerical or by writing the author names)