



PEER-REVIEW REPORT

Name of journal: *World Journal of Methodology*

Manuscript NO: 73824

Title: Hemostatic system and COVID-19 cross talks: a review of the available evidence

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05381893

Position: Peer Reviewer

Academic degree: MBBS, MD

Professional title: Doctor, Research Fellow

Reviewer's Country/Territory: United States

Author's Country/Territory: Egypt

Manuscript submission date: 2021-12-05

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-05 23:15

Reviewer performed review: 2021-12-06 01:01

Review time: 1 Hour

Scientific quality	<input type="checkbox"/> Grade A: Excellent <input type="checkbox"/> Grade B: Very good <input type="checkbox"/> Grade C: Good <input checked="" 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 Grade E: Do not publish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	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

The authors summarized coagulation disorders, management strategies, Outcome, prognosis associated with COVID-19 coagulopathy, and anticoagulation therapy for COVID-19, a narrative review of COVID-19. However, similar papers have been published. However, this is an interesting and detailed review that collects some of the points explored in an attempt to understand the mechanisms and consequences of COVID 19 infection. Nonetheless, there are similar reviews in the literature already elsewhere (Thorax. 2021 Apr;76(4):412-420; Chest. 2021 Oct;160(4):1471-1480; Front Med (Lausanne). 2021 Aug 4;8:698935; Eur Heart J Cardiovasc Pharmacother. 2021 Sep 14:pvab070), and the Authors should make an extra effort to make it novel. Hence, the current review has not enough novelty to make it interesting. I have added a few recommendations to improve the manuscript: 1. The manuscript's language needs a lot effort and careful proofreading. Since few paragraphs were written without clear thoughts about the language, moreover, The format of the manuscript is broken; please modify it. 2. The manuscript's introduction is very lengthy, so the author should concentrate on current evidence and explain why the authors work on this manuscript and its aims. 3. The pathogenesis of the COVID-19 related thrombosis section was written poorly without adding enough evidence. a. Pulmonary intravascular coagulation suggests that it arises due to macrophage activation syndrome-like intrapulmonary inflammation that causes vessel wall damage. So, the authors need to explain the pathophysiology/pathogenesis of pulmonary intravascular coagulopathy (PIC) and thrombosis b. The authors may consider including a subsection to explain the Immunothrombosis effect in COVID-19 and COVID-19-associated hyper inflammation, endothelial dysfunction, cytokine deregulation, and interferon responses



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4. Epidemiology and clinical presentation of thrombotic events in COVID-19 section, authors may include a table to explain the currently available data and clinical events because the correlation between the different data by different researchers was not clearly written for better understanding. 5. Laboratory abnormalities and diagnostic workup section are very important for readers and clinicians. Considering the importance of this section, authors should consider including subsections about Coagulation Abnormalities and have the subsections for derangement of coagulation and bleeding manifestations (i.e., 1. Platelet counts, 2. PT, and APTT, 3. Fibrinogen and D-Dimer, 4. Viscoelastic Tests) 6. The management strategies section needs some improvements in terms of including a section to discuss current guidelines for managing the COVID-19 associated coagulopathy by different academic societies. The authors have already added the guidelines by ISTH. However, authors should include guidelines by the British Thoracic Society, American Society of Hematology, and expert panel reports by CHEST/AIPPD/AABIP. 7. The authors' manuscript lacks a conclusion.



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Reviewer's code: 06139511

Position: Peer Reviewer

Academic degree: PhD

Professional title: Assistant Professor

Reviewer's Country/Territory: India

Author's Country/Territory: Egypt

Manuscript submission date: 2021-12-05

Reviewer chosen by: AI Technique

Reviewer accepted review: 2021-12-19 01:45

Reviewer performed review: 2021-12-27 10:29

Review time: 8 Days and 8 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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Conflicts-of-Interest: [] Yes [Y] No

SPECIFIC COMMENTS TO AUTHORS

The review entitled "Hemostatic system and COVID-19 cross talks: a review of the available evidence" by Mohamed-Naguib Wifi is a comprehensive review of the hematological changes that occur in SARS CoV-2. This review is a comprehensive manuscript detailing a number of hematological parameters in other viral infections and also in the context of SARs CoV-2. However certain modifications are needed before the manuscript can be accepted. The entire manuscript requires thorough checking and editing for English and grammatical errors. There are many sentences which do not completely make sense. A list of abbreviations would be helpful. A figure or a box explaining the various hematological parameters that are assessed along with their implications with respect to severity of the pathology would be helpful in true appreciation of the manuscript. Example- an explanation of D dimer, how its levels could be affecting the pathology along with the various indicators of severity. A speculative model or table detailing the various parameters that are altered in SARS Cov-2 and their implications in COVID survivability and/ or prognosis would be helpful. References need to be updated. There are no citations from publications in 2021.