

## PEER-REVIEW REPORT

**Name of journal:** World Journal of Clinical Cases

**Manuscript NO:** 62446

**Title:** Dynamics of Host Immune Responses to SARS-CoV-2

**Reviewer's code:** 00039368

**Position:** Editorial Board

**Academic degree:** DA, PhD

**Professional title:** Academic Research

**Reviewer's Country/Territory:** Estonia

**Author's Country/Territory:** Iran

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**Reviewer chosen by:** Ya-Juan Ma

**Reviewer accepted review:** 2021-03-01 10:06

**Reviewer performed review:** 2021-03-09 12:45

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<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 Grade E: Do not publish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 statements</b>	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 very well written review paper which analyze the dynamics of host immune responses to COVID-19, the role of effector mechanisms of the immune systems as a possible contributing factor to developing severe forms of COVID-19. The authors pay special attention to discuss the possible role of immunologic phenomena including antibody-dependent enhancement, cytokine storm and original antigenic sin in severity of COVID-19. The authors give the extensive overview about the antibody-mediated immune responses to SARS-CoV-2, have analyzed very well the possible mechanisms of antibody-dependent enhancement of SARS-CoV-2 infection and its role in the severity and mortality of COVID-19. Very useful and precise is the list of abbreviations in the beginning of the manuscript and the Figure with schematic representation of antibody-dependent enhancement of viral infections. The authors have reviewed and analyzed a sufficient amount of literature (70 references). This paper makes a contribution to studies concerning the better understanding of the mechanisms of host immune response to COVID-19.