



PEER-REVIEW REPORT

Name of journal: *World Journal of Experimental Medicine*

Manuscript NO: 94022

Title: SARS-CoV-2 proteins show great binding affinity to resin composite monomers and polymerized chains

Provenance and peer review: Invited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05234412

Position: Peer Reviewer

Academic degree: MDS

Professional title: Reader (Associate Professor)

Reviewer's Country/Territory: India

Author's Country/Territory: Brazil

Manuscript submission date: 2024-03-10

Reviewer chosen by: Hong-Xin Jiang

Reviewer accepted review: 2024-09-03 03:42

Reviewer performed review: 2024-09-11 03:07

Review time: 7 Days and 23 Hours

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 Grade E: Do not publish
Novelty of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No novelty
Creativity or innovation of this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No creativity or innovation



Scientific significance of the conclusion in this manuscript	<input type="checkbox"/> Grade A: Excellent <input checked="" type="checkbox"/> Grade B: Good <input type="checkbox"/> Grade C: Fair <input type="checkbox"/> Grade D: No scientific significance
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 checked="" type="checkbox"/> Accept (General priority) <input 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

SPECIFIC COMMENTS TO AUTHORS

“SARS-CoV-2 proteins show great binding affinity to resin composite monomers and polymerized chains”, would like you to consider it for publication in the World Journal of Experimental Medicine. This investigation analyzed, by in silico approach, whether and how SARS-CoV-2 binds to resin composite, the most used dental material to restore decayed teeth, and mostly present in the mouth of individuals. Since amino acid residues of SARS-CoV-2 proteins were able to form hydrogen bonds and hydrophobic interactions with monomers and polymerized chains of resin composites, this virus might be firmly adhered to resin composite restorations. Thus, this study contributes to a better understanding of how SARS-CoV-2 may influence human health. This article describes a newer concept of “SARS-CoV-2 proteins show great binding affinity to resin composite monomers and polymerized chains”, which might give an insight into possible means of cross infection. Scientific quality is good. Novelty of this article is good. This manuscript describes a study of the new knowledge system. This manuscript reports a revolutionary innovation. This manuscript reports an unconventional innovation. Further Research regarding how it can be prevented can be done. . Further



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Research regarding Cross infection because of this affinity can be done. The research carried out in the above mentioned fields will give an insight into the protocols to be followed to prevent cross-infection. Hope this comment would help you to get a better vision on creating newer ideas and indulge in revolutionary and unconventional innovations that contributes to the betterment of the mankind. Minor language polishing can be done.