

PEER-REVIEW REPORT

Name of journal: *World Journal of Clinical Cases*

Manuscript NO: 77544

Title: The combined use of lactoferrin and vitamin D as a preventive and therapeutic supplement for SARS-CoV-2 infection: current evidence

Provenance and peer review: Unsolicited Manuscript; Externally peer reviewed

Peer-review model: Single blind

Reviewer's code: 05771605

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: Saudi Arabia

Author's Country/Territory: Brazil

Manuscript submission date: 2022-05-05

Reviewer chosen by: AI Technique

Reviewer accepted review: 2022-05-20 03:28

Reviewer performed review: 2022-05-20 03:51

Review time: 1 Hour

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 Grade E: Do not publish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 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



**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>

**Peer-reviewer
statements**

Peer-Review: ☒ Anonymous ☐ Onymous

Conflicts-of-Interest: ☐ Yes ☒ No

SPECIFIC COMMENTS TO AUTHORS

This is an interesting hypothesis and with recent studies suggesting low vitamin D levels to be associated with Covid severity, the potential of lactoferrin in enhancing vitamin D's immunomodulatory effects, besides lactoferrin's proposed beneficial effects, needs to be investigated.

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Reviewer's code: 04019926

Position: Peer Reviewer

Academic degree: MD

Professional title: Doctor

Reviewer's Country/Territory: China

Author's Country/Territory: Brazil

Manuscript submission date: 2022-05-05

Reviewer chosen by: AI Technique

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Reviewer performed review: 2022-05-26 02:01

Review time: 1 Hour

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
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Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

This review proposed LF as a potential treatment for COVID-19, which is an interesting topic. However, the follow points need to be refined. 1. the mechanism of LF on preventing COVID-19 were not specific on SRAR-Cov-2. Its anti-virus function were general instead of specific. 2. The issue also exists for Vit D. 3. LF induced neonatal MDSC, which alleviated the necrotizing enterocolitis in neonates. Besides, LF induced MDSC relieved inflammatory complications of certain medicines. LF induced MDSC presented anti-infection function, which was opposite to MDSC in pathologic conditions. Meanwhile, MDSC was found to hazard the prognosis of COVID-19 patients. This should be discussed. 4. LF was the major ingredients of breast milk. Does LF protected infants? 5. The physiological and pathological role of LF shall be mentioned.

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Reviewer's code: 05483448

Position: Peer Reviewer

Academic degree: MBBS

Professional title: Doctor, Senior Lecturer

Reviewer's Country/Territory: Malaysia

Author's Country/Territory: Brazil

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Review time: 9 Days and 22 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 checked="" type="checkbox"/> Minor revision <input type="checkbox"/> Major revision <input type="checkbox"/> Rejection
Re-review	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No



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Peer-reviewer statements	Peer-Review: [<input checked="" type="radio"/>] Anonymous [<input type="radio"/>] Onymous Conflicts-of-Interest: [<input type="radio"/>] Yes [<input checked="" type="radio"/>] No
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SPECIFIC COMMENTS TO AUTHORS

This is a review paper, highlighting the use of lactoferrin and vitamin D as a preventive and therapeutic supplement for SARS-CoV-2 infection. Therefore, I suggest to revise the title to give clear view that this is a review paper. There were only 11 papers being cited in this manuscript. And only last 3 papers discuss on the use of combination of LF and vitamin D in SARS-CoV-2 (animal study). Thus, I suggest for the authors to define the method how the search for previous related published research being conducted. Usual format for review including narrative review is to start with introduction segment, followed by the discussion. I still suggest for the authors to follow the format.