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PEER-REVIEW REPORT

Name of journal: World Journal of Virology

Manuscript NO: 62506

Title: Association between population vitamin D status and SARS-CoV-2 related serious-critical illness and deaths: an ecological integrative approach

Reviewer's code: 05431343
Position: Peer Reviewer
Academic degree: PhD
Professional title: Research Scientist
Reviewer's Country/Territory: United States
Author's Country/Territory: Greece

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Reviewer accepted review: 2021-01-10 22:41
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Scientific quality	[ ] Grade A: Excellent [Y] Grade B: Very good [ ] Grade C: Good [ ] Grade D: Fair [ ] Grade E: Do not publish
Language quality	[ ] Grade A: Priority publishing [Y] Grade B: Minor language polishing [ ] Grade C: A great deal of language polishing [ ] Grade D: Rejection
Conclusion	[ ] Accept (High priority) [Y] Accept (General priority) [ ] Minor revision [ ] Major revision [ ] Rejection
Re-review	[ ] Yes [Y] No
Peer-reviewer statements	Peer-Review: [Y] Anonymous [ ] Onymous Conflicts-of-Interest: [ ] Yes [Y] No

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SPECIFIC COMMENTS TO AUTHORS

In this paper, data from the Worldometer has been analyzed to understand the role of vitamin-D European population status in the COVID-19 pandemic. Linear regression has been employed to find the correlation between published representative-standardized population vitamin-D concentrations and the number of total cases/M, recovered/M, deaths/M, and serious-critically ill/M from COVID-19 for 26 European countries. Life expectancy has also been analyzed with semi-parametric regression. Considering the ongoing pandemic situation, the presented results are suitable for publication and useful for public health systems to advise their populations to enhance their immune system by improving their vitamin D.