

## Review Form 1.7

Journal Name:	<b>Journal of Advances in Medicine and Medical Research</b>
Manuscript Number:	<b>Ms_JAMMR_97299</b>
Title of the Manuscript:	<b>VITAMIN D DEFICIT INCREASES THE RISK OF DEATH FROM COVID-19 IN BRAZIL</b>
Type of the Article	<b>Original Research Article</b>

### **General guideline for Peer Review process:**

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

(<https://www.journaljammr.com/index.php/JAMMR/editorial-policy> )

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### PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>Compulsory</b> REVISION comments</p> <p>1. <b>Is the manuscript important for scientific community?</b> (Please write few sentences on this manuscript)</p> <p>2. <b>Is the title of the article suitable?</b> (If not please suggest an alternative title)</p> <p>3. <b>Is the abstract of the article comprehensive?</b></p> <p>4. <b>Are subsections and structure of the manuscript appropriate?</b></p> <p>5. <b>Do you think the manuscript is scientifically correct?</b></p> <p>6. <b>Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</b></p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>Yes, due to the crisis and economic burden the COVID-19 pandemic made worldwide.</p> <p>Yes.</p> <p>Yes.</p> <p>No, a subtitle on virus assessment is needed. Additionally, another subtitle on how the cell types were identified is necessary.</p> <p>Yes.</p> <p>Yes.</p> <p>Abbreviations must be written in full for the first time (e.g., VDR).</p> <p>Aim of the study at the end paragraph of Introduction is not clear and must be replaced with something such as: The aim of the current study was to investigate associations of the patients' serum/blood vitamin D deficiency with exacerbation/severity of COVID-19 symptoms...</p> <p>In Study Design and Patient Enrolment, tachypnea <math>\geq 30</math> <u>beats/ml</u>?!</p> <p>All manufacturers of kits and devices must be addressed.</p> <p>In Materials and Methods, how the disease was verified (examinations, PCR results, CT reports etc) in patients and methodology of virus detection by RT-PCR must be described with some details.</p> <p>In statistical analysis, tachypnea <math>\geq 30</math> <u>beats/min</u>?!</p> <p>In statistical analysis, did the gender profile point out demographic/anthropomorphic information or just the sexes?</p> <p>In Table 1, if <i>p</i>-values are generated from differences between the treatment and control groups, so significant imbalances in the numbers of the two groups could make difficulties in statistical calculations.</p> <p>It seems that only 11 men and women controls were participated in the study. However, how did for example 40 people suffer from O<sub>2</sub> saturation of less than 95% in this group? Same for Tachypnea <math>\geq 30</math> rates/min and Evidence of bilateral diffuse pneumonia.</p> <p>Functions of the cytokines and their roles in COVID-19 physiopathology must further be described.</p> <p>In Table 4, how were the cell types identified (e.g., flow cytometry...)? The methodology must be added to Materials and Methods as well.</p> <p>Table 3 results are not as the same claimed below: "In Graph 01, Graph 2, Graph 3 and Figure 01, patients with Vitamin D deficit in the blood and in the range of 10-20 ng/ml were more likely to have worsening symptoms and <u>longer stay</u> in an Intensive Care Unit bed (Table 2, Table 03 and Table 04)".</p>	
<p><b>Minor</b> REVISION comments</p> <p>1. <b>Is language/English quality of the article suitable for scholarly communications?</b></p>	No, needs English revision.	
<p><b>Optional/General</b> comments</p>	<b>A Letter to Review must be written, including answers to questions. More, all changes must be highlighted in the revised text.</b>	

### PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p><b>Are there ethical issues in this manuscript?</b></p>	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

### Reviewer Details:

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