

Review of: "A brief overview on COVID-19 and its comparison with SARS, MERS, and H1N1"

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Potential competing interests: No potential competing interests to declare.

This article is a good attempt by Saeed Reza Hormozi Jangi to provide relevant information about COVID-19 and comparison to SARS, MERS, and H1N1. I found this article informative and valuable. However, I detected several issues with this article and want to provide suggestions to improve further. Following are the specific comments,

1. Abstract should provide ample information, like the causative agent of COVID-19.
2. In the abstract it has been written as COVID-19 infection. In my view, it should be SARS-CoV-2 infection that causes COVID-19.
3. Now it is established facts and mechanisms of SARS-CoV-2 infection and the use of the ACE2 receptor. It seems that the manuscript was written back in the early COVID-19 period and has not been updated since. Several pieces of information are outdated and warrant updating.
4. This article further warrants English language, grammar, and typo revisions.
5. please consider using abbreviations appropriately also on first use provide the full form along with the abbreviation so that it becomes easy to follow the article and understand properly.
6. Replacing 2019-nCoV with SARS-CoV-2 will update the manuscript. Avoid using these two names, select one, and use it everywhere.
7. Information repeated several times, revise, and remove repetitions. For example, the conclusion is just copy-pasted of the abstract. Try to rewrite the conclusions.
8. In page 3 It is mentioned that- The common symptoms of the disease in children infected with COVID-19 are fever and dry. I have two questions from this sentence, (a) Is this dry cough? Try to correct this. (b) Infected with COVID-19? COVID-19 is a disease caused by the infection of SARS-CoV-2, please correct this statement. Also in several other places, I found these anomalies, consider correcting all.
9. There is ample data available for the mechanism of action of SARS-CoV-2. Consider revisiting and updating with the latest relevant information.
10. In diagnosis of COVID-19, rRT-PCR, and PCR? Why this repetition? All test uses reverse transcriptase to convert the viral RNA into DNA, which is used as a template for PCR. So, correct this by revisiting PCR.
11. On page 5, "Among these techniques, the rRT-PCR has introduced as the standard testing method for the detection of 2019-nCoV by WHO ⁵⁷" But this reference 57 is by CDC, so not an appropriate reference for the WHO statement, correct this.
12. Also, read the above sentence carefully and see its detection of 2019-nCoV, this is correct but in the following very

sentence it is mentioned that “Typically, the rRT-PCR test for the detection of COVID-19 is performed” Again, COVID-19 is a disease and test methods rRT-PCR, detects the presence of SARS-CoV-2 in collected samples and detection of the viral RNA confirms COVID-19. So, kindly modify this here and in several other places.

13. Both the figures seem direct copy pasted from the original reference papers. Does prior permission was obtained for reuse, if not this may be a violation of copyright.
14. Also, consider providing some information in the legends of the figures as can be found in reference papers for better understanding of readers.
15. Comparison portion needs to be clarified and requires reformatting. Also, consider making a table with similarities and differences among these diseases and viruses causing respective diseases.
16. As mentioned above Conclusion is mere duplication of the abstract, kindly rewrite the conclusion section.