

Review of: "A Narrative Review on the Management of Severe COVID-19 Infection Using Stem Cell-based therapies with a Focus on the Registered Clinical Trials"

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Potential competing interests: No potential competing interests to declare.

This is a well-written, concise, and detailed overview of stem cell-based management of severe COVID-19 infection. The authors successfully address the current state-of-the-art on this matter, and the reviewer appreciates the authors' effort in addressing this relevant topic. Therefore, I support a positive consideration of this paper, and the manuscript could be considered for acceptance, but the following points should be addressed:

1. In my opinion, the authors should briefly mention the use of stem cell membrane-derived systems:

Stem cell membrane-coated abiotic nanomaterials for biomedical applications

<https://www.sciencedirect.com/science/article/pii/S016836592200596X?via%3Dihub>;

Unleashing the potential of cell membrane-based nanoparticles for COVID-19 treatment and vaccination:

<https://www.tandfonline.com/doi/full/10.1080/17425247.2021.1922387>

2. The writing can be edited to improve grammar (e.g., "Although, multiple"; "Although, Several");
3. The authors can improve the discussion of the drawbacks and provide some ways to resolve those drawbacks to enhance the quality of the manuscript.