

## 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"

## Elham Jamshidi1

1 Johns Hopkins University

Potential competing interests: No potential competing interests to declare.

- 1. Please provide more details on the clinical outcomes from the completed trials using stem cell-based therapies for COVID-19 patients. What specific improvements were seen in measures like oxygenation, radiographic findings, length of ICU/hospital stay, duration of mechanical ventilation, etc.? This will help strengthen the evidence presented.
- 2. In the section on induced pluripotent stem cells, please elaborate more on the in vitro disease models that have been created using iPSC-derived cell types to study COVID-19. What have these models shown regarding SARS-CoV-2 infection and pathology?
- 3. When discussing mesenchymal stem cells, please provide more specifics on the mechanisms by which MSCs provide benefits in COVID-19 - what anti-inflammatory cytokines do they secrete, how do they modulate immune cell responses, what growth factors do they release, etc.? Expounding on this will improve the depth of this section.
- 4. Please include a brief discussion of any safety concerns and potential risks associated with the administration of the various stem cell products described to COVID-19 patients.

Qeios ID: JBIZCR · https://doi.org/10.32388/JBIZCR