



# Perspectives on mesenchymal stem/progenitor cells and their derivatives as potential therapy in lung damage caused by COVID-19

Klimczak A *et al.* MSC therapy, lung damage and COVID-19

Aleksandra Klimczak

## Abstract

The new coronavirus, severe acute respiratory syndrome coronavirus-2 (SARS-CoV-2), which emerged in December 2019 in Wuhan, China, has reached world-wide pandemic proportions, developing the coronavirus disease 2019 (COVID-19). The clinical manifestations of COVID-19 vary from an asymptomatic course of the disease to the clinical symptoms of the acute respiratory distress syndrome and severe pneumonia. The lungs are the primary organ affected by SARS-CoV-2, with a very slow turnover for

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### [Mesenchymal Stem Cells | Coronavirus Disease COVID-19](#)

<https://www.covid19treatmentguidelines.nih.gov/.../mesenchymal-stem-cells> ▾

Jul 17, 2020 · **Mesenchymal Stem Cells**. Last Updated: July 17, 2020. Recommendation. The **COVID-19** Treatment Guidelines Panel recommends against the use of **mesenchymal stem cells** (MSCs) for the treatment of **COVID-19**, except in a clinical trial (All).; Rationale for Recommendation. MSCs are investigational products that have been studied extensively for broad clinical applications in ...

### [Mesenchymal Stem/Progenitor Cells Derived From Articular ...](#)

<https://pubmed.ncbi.nlm.nih.gov/28721683>

**Mesenchymal Stem/Progenitor Cells** Derived From Articular Cartilage, Synovial Membrane and Synovial Fluid for Cartilage Regeneration: Current Status and Future **Perspectives Stem Cell Rev Rep** . 2017 Oct;13(5):575-586. doi: 10.1007/s12015-017-9753-1.

**Cited by:** 27

**Author:** Yi zhou Huang, Hui qi Xie, Antonietta Silini, ...

**Publish Year:** 2017

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## [Mesenchymal stem cells as a potential therapy for COVID-19](#)

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**Mesenchymal stem cells** as a **potential therapy** for **COVID-19** ... while specific treatment options are scarce. The main pathologic features of severe or critical **COVID-19** were consistent with acute **lung** injure (ALI)/acute respiratory distress syndrome (ARDS), characterized by cellular fibromyxoid exudates, extensive pulmonary inflammation ...

**Cited by:** 6 **Author:** Shan Liu, Danyi Peng, Huijun Qiu, Ke Ya...

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<https://www.nature.com/articles/s41418-020-0530-3>

Mar 23, 2020 · Although various clinical sites in China have announced the use of **mesenchymal stromal/stem cells** (MSCs) in severe cases with **COVID-19** infection, solid results have yet to be seen.

**Cited by:** 361 **Author:** Yufang Shi, Yufang Shi, Ying Wang, Chan...

**Publish Year:** 2020

## [Stem cell therapy: a potential approach for treatment of ...](#)

<https://stemcellres.biomedcentral.com/articles/10.1186/s13287-020-01699-3>

May 24, 2020 · Recently, **stem cell therapy** has been widely used in the treatment of various diseases, including ALI. In this review, we detail the present **stem cell**-based therapeutics for **lung injury caused** by influenza virus and the outlook for the future state of **stem cell therapy** to deal with emerging influenza and coronaviruses.

**Cited by:** 3 **Author:** Jiang Du, Han Li, Jie Lian, Xinxing Zhu, L...

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