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**Name of Journal:** *World Journal of Stem Cells*

**Manuscript No:** 56572

**Manuscript type:** OPINION REVIEW

Off-the-shelf <sup>1</sup>mesenchymal stem cells from human umbilical cord tissue can significantly improve symptoms <sup>in</sup> COVID-19 patients: An analysis of evidential relations

Pham PV *et al.* <sup>12</sup>Mesenchymal stem cells for COVID-19

Phuc Van Pham, Ngoc Bich Vu

### Abstract

Coronavirus disease-2019 (<sup>15</sup>COVID-19) has affected more than 200 countries across the world. This disease has hugely affected healthcare systems as well as the economy to an extent never seen before. To date, COVID-19 infection has led to about 165000 deaths in 150 countries. At present, there is no specific drug or efficient treatment for this disease.



Off-the-shelf mesenchymal stem cells from human uml



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CDC: **Patients** Contaminated by Allograft **Umbilical Cord** Products William Donovan • Thu, January 24th, 2019 . If your practice treated **patients** with certain allograft **umbilical cord** products which purport to have “**stem cells**” from a San Diego, California, company called Genetech, Inc.\* in the past year, distributed through a Yorba Linda, California company called Liveyon, LLC, you stood ...

**Author:** Jayme Johnson

## Medscape | PLoS One - Publication Information

[https://reference.medscape.com/viewpublication/48585\\_28](https://reference.medscape.com/viewpublication/48585_28) ▼

IGFBP2 enhances adipogenic differentiation potentials of **mesenchymal stem cells** from Wharton's jelly of the **umbilical cord** via JNK and Akt signaling pathways. August 31, 2017 [ MEDLINE Abstract]  
Correction: Insecticide resistance to permethrin and malathion and associated mechanisms in Aedes aegypti mosquitoes from St. Andrew Jamaica.

## EAP 2019 Congress and Master Course

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7086733>

Nov 23, 2019 · Conclusions: LC services **can significantly improve** the provision of breast milk within the first 12 hours of life for very preterm neonates, and **improve** maternal access to education and support. Further research is required to assess the effect of LC's on improving long term breast feeding rates.

## Chasing Chimeras – The elusive stable chondrogenic phenotype

<https://www.sciencedirect.com/science/article/pii/S0142961218307919>

The choice of the best-suited cell population for the regeneration of damaged or diseased cartilage depends on the effectiveness of culture conditions (e.g. media supplements, three-dimensional scaffolds, mechanical stimulation, oxygen tension, co-culture systems) to induce stable chondrogenic phenotype.

**Cited by:** 4

**Author:** Valeria Graceffa, Claire Vinatier, Jerome...



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Are Mesenchymal Stem Cells a Promising Treatment for COVID-19?  
<https://www.the-scientist.com/news-opinion/are...>  
Apr 09, 2020 · Z. Leng et al., "Transplantation of ACE2-mesenchymal stem cells improves the outcome of patients with COVID-19 pneumonia," Aging and Disease, 11:216–28, 2020. B. Liang et al., "Clinical remission of a critically ill COVID-19 patient treated by human umbilical cord mesenchymal stem cells," ChinaXiv, 202002.00084, 2020.

(PDF) Umbilical Cord Mesenchymal Stem Cell Treatment for ...  
<https://www.researchgate.net/publication/319531335...>  
Sep 07, 2017 · Umbilical cord mesenchymal stem cells (UC-MSCs), as a population of multipotent cells, are abundant in human tissues, providing several possibilities for their effects on skin scar tissues ...

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Cited by: 5 Author: Valeria Graceffa, Claire Vinatier, Jerome Gu...  
Publish Year: 2019

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1. Introduction. Heart valves provide the critical function of ensuring one-way blood flow through the cardiovascular system. The four heart valves in the human heart are divided into the atrioventricular or inflow (mitral and tricuspid) and semilunar or outflow (aortic and pulmonary) valves, which could alternatively be characterized as left (mitral and aortic) and right (tricuspid and ...

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human amnion current: Topics by Science.gov  
<https://www.science.gov/topicpages/h/human+amnion+current>  
Jun 02, 2018 · Human amnion mesenchymal stem cells promote proliferation and osteogenic differentiation in human bone marrow mesenchymal stem cells. PubMed. Wang, Yuli; Yin, Ying; Jiang, Fei; Chen, Ning. 2015-02-01. Human amnion mesenchymal stem cells (HAMSCs) can be obtained from human amniotic membrane, a highly abundant and readily available tissue. HAMSC ...

Science.gov  
[www.science.gov/topicpages/r/regenerative+medicine+drug.html](http://www.science.gov/topicpages/r/regenerative+medicine+drug.html)  
Engineering mesenchymal stem cells for regenerative medicine and drug delivery. PubMed. Park, Ji Sun; Suryaprakash, Smruthi; Lao, Yeh-Hsing; Leong, Kam W. 2015-08-01 ...

Science.gov  
[www.science.gov/topicpages/m/medicinal+products+atmps.html](http://www.science.gov/topicpages/m/medicinal+products+atmps.html)  
Mar 21, 2018 · Marketing Regulatory Oversight of Advanced Therapy Medicinal Products (ATMPs) in Europe: The EMA/CAT Perspective. PubMed. Salmikangas, Paula; Schuessler-Lenz, Martina; Ruiz, Sol;

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WJSCWorld Journal of **Stem Cells** Contents Monthly Volume 12 Number 6 June 26, 2020 REVIEW 406

Defining lung cancer **stem cells** exosomal payload of miRNAs in clinical perspective Ara

## [Stem Cell Treatments – Page 2](#)

<https://www.stemcells.tv/page/2> ▾

Darnells team called the newfound cell type a PRIME cell, for pre-inflammation **mesenchymal** cell. (**Mesenchymal cells** are a type of **stem** cell that **can** develop into bone or cartilage.) In the **patients**, PRIME **cells** accumulated in the bloodstream a week before the flare but disappeared during the flare.

## [Aortic valve disease and treatment: The need for naturally ...](#)

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Apr 30, 2011 · 1. Introduction. Heart valves provide the critical function of ensuring one-way blood flow through the cardiovascular system. The four heart valves in the **human** heart are divided into the atrioventricular or inflow (mitral and tricuspid) and semilunar or outflow (aortic and pulmonary) valves, which could alternatively be characterized as left (mitral and aortic) and right (tricuspid and ...