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Introduction: **Stem cell transplantation** is a promising therapeutic strategy for the **treatment of stroke**. **Mesenchymal stem cells** (MSCs) are a potential cell source for clinical application because they can be easily obtained and cultivated with a high proliferative capacity.

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Author: Jung Yeon Lim, Chang Hyun Jeong, Jin Ae ...

Publish Year: 2011

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<https://www.clinicaltrials.gov/ct2/show/NCT04434768> ▾

Jun 17, 2020 · This study is a first-in-human assessment of safety of using **umbilical cord mesenchymal stem cells** (UCMSCs) in patients with **Acute Ischemic Stroke** via a combination of intra arterial (IA) and intravenous (IV) **stem cell** administration. The novelty of the current UMSC01 **treatment** study is the dual route of administration.

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Author: Marcin Majka, Maciej Bolkowski, Bogna ... Publish Year: 2018

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Cited by: 15 Author: Marion T. Turnbull, Abbas C. Zubair, James F., ... Publish Year: 2019

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Sep 11, 2018 · In addition, preclinical studies suggested that combined treatment with hypothermia and human umbilical cord blood-derived mesenchymal stem cells (UCB-MSCs) transplantation might be a

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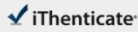
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**Treatment of acute ischemic stroke by minimally manipulated umbilical cord-derived mesenchymal stem cells transplantation: A Case Report**

Ahn H *et al.* MSCs treatment of acute ischemic stroke

Hyunjun Ahn, Sang Yeon Lee, Won-Ju Jung, Kye-Ho Lee

**Abstract**

BACKGROUND

Stroke is one of the major causes of disability and death worldwide. Some treatments for stroke exist, but existing treatment methods have limitations such as difficulty in the regeneration of damaged neuronal cells of the brain. Recently, mesenchymal stem cells (MSCs) have been studied as a therapeutic alternative for stroke, and various preclinical and case studies have been reported.

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Publish Year: 2019

### Implantation of human umbilical cord-derived mesenchymal ...

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In the present study, we examined the neuroprotective effects and mechanisms of implanted human umbilical cord-derived mesenchymal stem cells (hUC-MSCs) in ischemic stroke...

### Placenta-Derived Cells for Acute Brain Injury

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6434489>

Mar 22, 2018 · The Rationale for Using Placenta-Derived Cells for Acute Brain Injury. Acute brain injury.