



INFO DOC

Can stem cell infusion therapy help **spinal cord injury**?

Yes, stem cell infusion therapy shows promise in helping spinal cord injury (SCI) by improving motor and sensory function, though it is still an evolving field. Early clinical studies, such as one by the Mayo Clinic, have demonstrated that the treatment is safe and can lead to functional improvements, including better motor control and sensation. However, its effectiveness can vary, with some trials showing modest or significant benefits and others being inconclusive, highlighting the need for more focused research and large-scale, collaborative trials to fully understand its potential and transform it from an uncertain scientific vision to a life-changing reality. [1, 2, 3, 4, 5]

WATCH: Mel Gibson: On Joe Rogan (episode 1066 - Jan 2018) w/ Dr Neil Riordan. How Stem Cell Infusion Therapy saved his 92 year old Dad's life

<https://yourbesthealthy.life/page-2.php?nid=6>

MAYO CLINIC: Study finds stem cell therapy is safe and may benefit people with spinal cord injuries <https://yourbesthealthy.life/page-2.php?nid=63>

How it works

- **Cellular support and regeneration:** Stem cells may help the healing process by differentiating into supportive cells, like Schwann cells, which can aid in nerve regeneration. [1, 6, 7, 8]
- **Reduced inflammation:** Stem cells can modulate the inflammatory response at the injury site by decreasing levels of pro-inflammatory cytokines, creating a more favorable microenvironment for recovery. [6, 9]
- **Improved microenvironment:** Stem cells can enhance the nutritional support of the injured area, which is crucial for functional recovery. [9, 10]

Potential benefits observed in trials

- **Improved motor function:** Studies have shown improvements in walking ability, hand, and finger strength. [2, 11, 12]
- **Regained sensation:** Patients have experienced improvements in the sense of touch and movement. [2, 13]
- **Transition from complete to incomplete injury:** In some cases, patients with a complete SCI have shown a transition to an incomplete state, regaining some sensation or function. [5]

Current limitations and future direction

- **Varying effectiveness:** The magnitude of patient response can differ significantly, with some having little or no benefit. [1, 5]
- **Inconclusive results:** While promising, the therapeutic effects still require further confirmation in larger, more rigorous clinical trials. [1, 9]
- **Ongoing research:** Future studies will focus on optimizing treatment timing, understanding the underlying mechanisms, and exploring combinational therapies to improve efficacy. [1, 9]

MORE INFO:

Dr Neil Riordan - Stem Cell Institute:

<https://www.cellmedicine.com/meet-neil-riordan-founder-stem-cell-institute/>

STEM CELL THERAPY TREATMENTS IN THE USA:

<https://advancedmedicalsolutions.org/stem-cell-therapy/>

REFERENCES:

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[3]

<https://newsnetwork.mayoclinic.org/discussion/study-documents-safety-improvements-from-stem-cell-therapy-after-spinal-cord-injury/>

[4]

<https://www.mayoclinic.org/medical-professionals/neurology-neurosurgery/news/study-finds-stem-cell-therapy-is-safe-and-may-benefit-people-with-spinal-cord-injuries/mac-20567444>

[5] <https://www.youtube.com/watch?v=0kuWR-DscPk>

[6] <https://www.sciencedirect.com/science/article/pii/S2352320424001354>

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[11]

<https://news.yale.edu/2021/02/22/yale-scientists-repair-injured-spinal-cords-using-patients-own-stem-cells>

[12] <https://www.youtube.com/watch?v=RxFLLnC4VS0>

[13]

<https://www.facebook.com/MayoClinic/videos/study-documents-safety-improvements-from-stem-cell-therapy-after-spinal-cord-inj/356964570026119/>