



Stem Cells for Spinal Cord Injuries

Spinal cord injury results in loss of nervous tissue and motor and tissue function. There are no available current treatments that can effectively restore the loss of function; but Stem cells may support spinal cord repair.

Stem cells, particularly Embryonic Stem Cells (ESCs) and Mesenchymal Stem Cells (MSCs) can proliferate and adjust to function as other types of cells, such as neural cells that may support anatomical and functional recovery. ESCs and MSCs were found to survive well within the injured spinal cord, as well as Progenitor cells.

Different kind of stem cell therapies to treat spinal cord injuries:

Cell replacement

Axon Regeneration

Neuroprotection

The use of stem cells in treating paralysis already has a promising future. After the first spinal cord surgery using cell replacement with stem cells in 2011, the patient has reported regained feeling