

## CELL THERAPIES IN NEUROLOGICAL DISEASES: IS IT POSSIBLE TO REVERSE BRAIN DEATH?

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**P**reliminary discoveries of the efficacy of cell therapy are currently being translated to clinical trials. There continues to be extraordinary anticipation that stem cells will advance the current therapeutic regimen for neurological diseases as well. Bone marrow-derived stem cells (BMSCs) and adipose tissue derived (ADSCS) are a promising strategy. Therapeutic angiogenesis and supply of progenitor and other multipotent stem cells along with growth factors promote structural and functional repair by changes in the brain microenvironment, endogenous neurogenesis, remyelination and rejuvenation of dormant neurons. We present the general overview of methods to isolate adipose and bone marrow stem cells and discuss early encouraging results of using adult stem cells to treat in Brain death situations Traumatic brain and Spinal cord injury, autism and cerebral palsy for which current therapies are limited.

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