

Stem cell therapy for stroke

[Stem cell therapy](#) for [stroke](#) has advanced from the laboratory to the clinic, but remains as an experimental treatment. Two lines of transplant regimens have emerged, namely the “early bird” peripheral injections in subacute stroke patients and the “late night” direct intracerebral treatments in chronic stroke patients. Autologous bone marrow-derived stem cells, which only required minimal manipulations during graft cell preparation, gained fast-track entry into the clinic, while gene modified stem cells necessitated overcoming more stringent regulatory criteria before they were approved for clinical use. Safety of the stem cell therapy can be declared from these clinical trials, but efficacy warrants further investigations.

Napoli et al., offer insights into the translation of cell therapy from the laboratory to the clinic, in the hopes that highlighting the lessons we learned from this experience will guide the optimization of functional outcomes of future clinical trials of stem cell therapy for stroke ¹⁾.

¹⁾

Napoli E, Borlongan CV. Stem Cell Recipes of Bone Marrow and Fish: Just What the Stroke Doctors Ordered. Stem Cell Rev. 2017 Jan 7. doi: 10.1007/s12015-016-9716-y. [Epub ahead of print] Review. PubMed PMID: 28064388.

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