

A GUIDE FOR PATIENTS

LITERATURE

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❖ Stem Cell Therapy for Cerebral Palsy

➤ Treatment of Cerebral Palsy with Stem Cells: A Report of 17 Cases

Cerebral Palsy (CP) is a disabling condition that affects a child's life and his/her family irreversibly. It is usually a non-progressive condition but improvement over time is rarely seen. The condition can be due to prenatal hypoxia, metabolic, genetic, infectious, traumatic or other causes. It is therefore a heterogeneous group that results in

functional motor disability associated with different degrees of cognitive abnormalities. There are no treatments that can cure or even improve CP and the best available approach aims at functional, social and nutritional supportive care and counseling. In this paper, we report 17 sequential patients with CP treated with intrathecal administration of Bone Marrow Mononuclear Cells (BMMC). All patients had an uneventful post-injection course with 73% of the evaluable patients treated having a good response using the Gross Motor Function Classification System (GMFCS). The average improvement was 1.3 levels on the GMFCS with cognitive improvements as well.



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➤ Stem cell treatment and cerebral palsy: Systemic review and meta-analysis

Perinatal complications may result in life-long morbidities, among which cerebral palsy (CP) is the most severe motor disability

Once developed, CP is a non-progressive disease with a prevalence of 1-2 per 1000 live births in developed countries. It demands an extensive and multidisciplinary care. Therefore, it is a challenge for our health system and a burden for patients and their families. Recently, stem cell therapy emerged as a promising treatment option and raised hope in patients and their families.

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➤ **The Role of Stem Cells in the Treatment of Cerebral Palsy: A Review**

Cerebral palsy (CP) is a neuromuscular disease due to injury in the infant's brain. The CP disorder causes many neurologic dysfunctions in the patient. Various treatment methods have been used for the management of CP disorder. However, there has been no absolute cure for this condition. Furthermore, some of the procedures which are currently used for relief of symptoms in CP, cause discomfort or side effects in the patient. Recently, stem cell therapy has attracted a huge interest as a new therapeutic method for treatment of CP.

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➤ **Autologous Stem Cell Therapy for Cerebral Palsy**

We describe treatment of Cerebral Palsy with adult stem cells derived from bone marrow and fat of the same patient. Adult stem cells are of two types, the mesenchymal and haemopoietic stem cells which have potential to duplicate, indefinitely produce 50 types of growth factors that repair and regenerate tissues in an epigenetic manner.

Every organ has its own stem cells, for example kidney stem cells, liver stem cells, etc. When specialized cells in an organ get damaged, the local stem cells come forward and get differentiated into specialized cells and the tissue damage is replenished. But when the stock of this reserve of local stem cell is over, the organ starts failing

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