

Autologous stem cell therapy for cerebral palsy

Dr. Sagar Jawale

Jawale Institute of Pediatric Surgery
India



Abstract

Introduction: 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 the 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. In autologous stem cell therapy, we harvest stem cells from other healthy organs like fat and bone marrow which have abundant stem cells and put them into the diseased organ. Adult stem cells differentiate into neurons in vitro when added with nerve growth factor which is present in every nerve tissue. Our stem cell research was done by following all the guidelines set at national and international level. In India the incidence of cerebral palsy is around 5/1000 live births. In cerebral Palsy the upper motor neuron is weak, hence the lower motor neuron becomes hyper active leading to spasticity. The treatment involves mainly physiotherapy and prognosis is poor. Physiotherapy is a palliation and does not repair damage in the brain. The conventional therapy has failed to give any satisfactory results in these children hence something new needs to be done.

Conclusions: Since Stem cell therapy is safe and effective in the treatment of Cerebral Palsy. We have developed world's cheapest stem cell therapy for Cerebral Palsy. Our research creates a lot of hope for millions of patients worldwide.

Biography:

Dr. Sagar Jawale is a pediatric surgeon turned into a scientist. He has more than 100 inventions done till date, 85 of which are in biomedical research and 20 in spirituality. He has 40 patents registered in Mumbai office. 25 of his inventions are for the first time in the history of medical sciences. He has developed 15 new operations and 30 new therapies in medicine which are under trial. Most of his research work is unique and reported for the first time in medical literature.

Speaker Publications:

1. "Rigid ventilating video bronchoscope with forceps for bronchoscopic foreign body removal in children"
2. "Urethral pull-up operation for distal and mid-penile hypospadias: a new safe method"
3. "Lifetron therapy-therapy with electrons necessary for the life- theoretical considerations"
4. "intravenous-c-band-ultraviolet-light-therapy-ivuvlt-as-a-treatment-for-bacterial-and-viral-infections-including-covid-19"

[14th World Pediatric Congress](#); Webinar – December 11, 2020.

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