



# CEREBRAL PALSY & HYPERBARICS



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# CEREBRAL PALSY HYPERBARICS

Cerebral Palsy (CP) affects 1 in 303 children in the U.S. (8,000 new cases every year) making it the most devastating motor disability in childhood. This tragic disorder affects movement, posture and other motor skills and may result in the need for life-long care. Hyperbaric oxygen therapy (**HBOT**) has been shown to help ameliorate the effects of CP. Many forms of CP result from a lack of oxygen to the brain at birth. The affected brain tissue, or penumbra, can be recovered or improved by introducing increased levels of oxygen. HBOT has been shown to be a promising treatment with multiple studies reporting improvements with its application. Studies have demonstrated the benefits of HBOT for CP with the following:

## ENHANCE NEUROLOGICAL REPAIR & REGENERATION WITH HBOT

- Attenuates the Effects of Hypoxia on the Neonatal Brain
- Promotes Neurogenesis
- Moderates Mitochondrial Disorders
- Enhances Stem Cell Mobilization and Proliferation
- Increases Penumbra Tissue Recovery
- Escalates Neuroplasticity

## IMPROVE OVERALL FUNCTION WITH HBOT

- Advances Cognitive Function
- Improves Gross/Fine Motor Skills
- Enhances Speech & Language
- Alleviates Spasticity
- Lessens Frequency of Seizures
- Stimulates Better Eye Contact
- Improves Balance & Walking



## Study: Motor Function Improved with HBOT



Scan QR Code to learn more and download related studies

In 2014, a controlled longitudinal study was published and assessed the effects of intensive rehabilitation combined with HBOT on gross and fine motor function in 150 children with cerebral palsy. This eight-month study involved every child Scan QR Code receiving standard rehabilitation, with three groups to learn more also including HBOT into their regimen. The control and download related studies group consisted of children who did not undergo hyperbaric treatments and participated in standard rehabilitation only. All HBOT groups received 40 one hour sessions, six days a week. The first HBOT group was treated at 1.3 atmospheres absolute (ATA) with compressed air. The second HBOT group was treated at 1.5 ATA with 100 percent oxygen delivered through a hood system and the third HBOT group was treated at 1.75 ATA, also with 100 percent oxygen delivered through a hood system. After the eight-month follow up, all four groups improved. However, the HBOT groups' gross and fine motor function variations were on average three times higher than the control. The study concluded that there was no significant statistical difference between the improvements observed within the three HBOT groups.

**Arun Mukherjee, Maxime Raison, Tarun Sahni, Anand Arya, Jean Lambert, Pierre Marois, Philip B. James, Audrey Parent, Laurent Ballaz. Intensive rehabilitation combined with HBO2 therapy in children with cerebral palsy: A controlled longitudinal study. UHM 2014, Vol. 41, No. 2**

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