

# **The effect of Hyperbaric Oxygen Treatment on Functional Outcomes in Children with Cerebral Palsy: A Single Case Description**

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The author describes a case study of a 15 month old diagnosed with Level V (Severe) spastic quadraparetic cerebral palsy, cortical vision impairment, and seizure disorder.

The boy was treated with Hyperbaric oxygen at 24 mmHg for one hour for 33 treatments. Immediately following HBO, the subject appeared to have gained the skills of lifting his head up in sitting and prone on elbows, and the ability to sit with minimal assistance. Other changes noted by parent and therapist include an increase in endurance (child now holding up head in prone on elbows greater than 10 minutes) and head righting (child no longer gets stuck in cervical extension, but can right his head independently).

The subject is, at this time, 3 months post HBO and reportedly continues to make gains. He is vocalizing more, is more alert, has improved passive and active range of motion, is more responsive visually, and opens his hands when reaching.