

HBOT & Post Concussive Syndrome (TBI)

Hyperbaric Oxygen Therapy (HBOT): While no research study has yet demonstrated convincing evidence for the efficacy of HBOT in patients with chronic neurological disorders (CND), anecdotal studies have been supportive of its use in improving healing of the damaged brain.

Analysis by post-hoc t-tests showed that the younger group had higher blood flows, but not more improvement than the older group. The results provided the first statistical research data to show the effectiveness of HBOT in improving blood flow in CND. These results indicate that HBOT can be an effective part of the treatment for such clients.

Golden ZL, Neubauer R, Golden CJ, Greene L, Marsh J, Mleko A. Improvement in cerebral metabolism in chronic brain injury after Hyperbaric Oxygen Therapy. Int J Neuroscience 2002; 112:119-31

Hyperbaric Oxygen Therapy (HBOT) is used to improve functional outcome following brain injuries. A varying number of sessions of HBOT have been reported but the frequency of HBOT sessions in head injured patients has not been standardized. The authors concluded a minimum of 30 HBOT sessions should be considered in head injury patients to show improvement with HBOT. Progressive improvement in GCS scores, GOS, spasticity & mood swings was better seen with increased number of HBOT sessions.

Yadav A, Pawar M, Garg R, Banerjee N. The positive effects of multiple sessions of Hyperbaric Oxygen Therapy in neurological improvement in head injury patients. A prospective randomized trial. J Neuroanaesthesiol Crit Care 2015; 2;110-3.