



HYPERBARIC OXYGEN THERAPY

STROKE & HYPERBARICS

Stroke is the fourth leading cause of death in the U.S. and has remained a leading cause of adult disability with 800,000 cases reported every year. Hyperbaric oxygen therapy (HBOT) has been shown to help prevent and treat stroke through a number of different mechanisms. HBOT can be used to precondition the brain by stimulating angiogenesis, thus producing more circulatory pathways throughout the brain and potentially decreasing the chance of stroke. Also, this has been shown to benefit post-stroke patients, as compromised blood flow to the affected brain tissue (penumbra) and its functionality are recoverable by introducing increased levels of oxygen. Studies have demonstrated the benefits of HBOT for stroke with the following:



STROKE PREVENTION WITH HBOT

- ✓ Stimulates Angiogenesis
- ✓ Ameliorates Atherosclerosis
- ✓ Decreases Oxidative Stress in the Brain
- ✓ Preconditions the Brain to Enable Neuroprotective Properties

STROKE RECOVERY WITH HBOT

- ✓ Faster Overall Recovery
- ✓ Improves Vision and Speech
- ✓ Reduces Paralysis
- ✓ Accelerates Gross/Fine Motor Skills
- ✓ Increases Penumbra Tissue Recovery
- ✓ Stimulates Angiogenesis for Faster Reclamation
- ✓ Promotes Neurogenesis
- ✓ Enhances Stem Cell Proliferation & Mobilization
- ✓ Escalates Neuroplasticity
- ✓ Alleviates Spasticity



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