

## Hyperbaric Oxygen Therapy (HBOT)

This noninvasive therapy is the most trusted way to increase oxygen levels to all organs of the body.

### What is HBOT?

HBOT is a medical use of oxygen in a pressurized environment, at a level higher than 1 atmosphere absolute (ATA). Increased pressure allows for oxygen to dissolve and saturate the blood plasma (independent of hemoglobin/red blood cells), which yields a broad variety of positive physiological, biochemical, and cellular effects.

Under hyperbaric conditions, the combination of increased pressure and high oxygen levels increases the amount of O<sub>2</sub> in the blood, therefore increasing the amount of oxygen being delivered to the tissues and brain.



A typical treatment lasts 60 minutes, during which the patient lies supine and breathes normally.



### Clinically Proven Benefits

- Increases oxygenation
- Induces neovascularization (formation of new blood vessels)
- Increases capillary density
- Releases BDNF (to support neuroplasticity)
- Induces synaptogenesis (increases number of neuronal connections)
- Anti-oxidative
- Anti-inflammatory
- Increases stem cell production



### Symptoms Addressed

- TBI sequelae
- Concussion/PCS sequelae
- Developmental delay
- Neurodegenerative disease
- Memory loss
- Cognitive deficits
- Hyper-inflammatory responses