

TBI/PTSD Hyperbaric Treatment Protocol

Indiana HBOT Pilot Study

15 October 2019

PTSD/TBI Pilot Program participants will receive treatment in a monoplace chamber at 1.5 ATA (7.35 psig, 152 kPa), >99% O₂ x 60 minutes. Compression/Decompression (descent/ascent) at a rate of 1.0-1.5 psi/min. Treatments are once a day, 5 days a week (Monday – Friday) for 40 treatments. Door closed to door open 70-75 min max.

1. Pre-and-Post Vital signs including BP, Heart Rate/pulse, Respirations and Temperature will be checked daily. This will also include auscultation of breath sounds and evaluation of ear tympanic membranes. Blood Glucose checks Pre (and Post PRN) HBO treatment of patients with history of diabetes.
2. Due to the potential fire hazard inside the hyperbaric chamber, the hyperbaric technician will strictly control the items allowed in the chamber and remove any prohibited item. The hyperbaric technician will prohibit any substances that may be on the skin. Those who cannot or will not comply with these restrictions will be excluded from the study.

All patients under consideration for hyperbaric oxygen therapy will be thoroughly assessed according to the established guidelines of CMS and the UHMS. An MD or DO credentialed by the hospital for hyperbaric medicine will evaluate and admit patients to the program following individualized patient assessment.

1. Trained emergency response team and ICU services are available to ensure the patient's safety if a complication occurs. The supervising HBO physician is skilled in the management of hyperbaric complications and is readily available during treatment.
2. All patients must be educated to the risks, benefits, and side effects of hyperbaric oxygen therapy (HBOT) PRIOR to signing education/consent form(s).
3. The hyperbaric program will provide its patients a secure location to leave property while undergoing therapy. A trained/credentialed Hyperbaric Technologist/Technician will be in the treatment room and readily available at all times during patient treatment.

Reference

Indiana Veteran Recovery Pilot Study (pg. 10)

Journal of Neurotrauma 28.1 (XXXX 2011) A Phase I Study of Low-Pressure Hyperbaric Oxygen Therapy for Blast-Induced Post-Concussion Syndrome and Post-Traumatic Stress Disorder