



<b>Title</b>	<b>Hyperbaric Oxygen Therapy for Traumatic Brain Injury and Post Traumatic Stress Disorder</b>
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<b>Reference</b>	VA Technology Assessment Program Bibliography Update, January, 2010

## **Aim**

To determine the published, peer-reviewed evidence on the clinical use of hyperbaric oxygen (HBO<sub>2</sub>) in treating traumatic brain injury (TBI) and post traumatic stress disorder (PTSD) in veterans.

## **Conclusions and results**

For TBI, 7 systematic review articles and 6 Phase I or II clinical trials were found. Five of the 6 clinical trials were in progress. The systematic review articles concluded that the clinical value of HBO<sub>2</sub> in treating TBI is unknown due to insufficient evidence; individual case studies have reported positive results with this treatment. For PTSD, only one case report was found. Hence, no conclusions could be drawn.

## **Recommendations**

No recommendations can be made at this time. High-quality research is needed to determine the clinical efficacy of HBO<sub>2</sub> in treating TBI and PTSD.

## **Methods**

Literature searches were conducted for articles (published in English) from the following databases: ClinicalTrials.gov, MEDLINE, EMBASE, INAHTA, Cochrane Library, and Dialog Information. Existing reports or reports in progress were obtained via email queries to the INAHTA listserv.

## **Further research/ reviews required**

The US Department of Defense is conducting clinical trials addressing the need for randomized, double-blind, or controlled studies. Two clinical trials were scheduled for completion in 2010.