

# Hyperbaric Oxygen Therapy - Effective Treatment of Silent Injuries from Combat

## Review of DOD Studies

compiled by T.Fox MAS,MS,CHT

Study	DOD and VA representation	Published Results
<p>Wolf,Cifu et al (2012) <i>Impact of Hyperbaric Oxygen on Mild Traumatic Brain Inj</i></p>	<p><b>No Benefit from HBO in Mild Traumatic Brain Inj</b></p> <p>Undersea and Hyperbaric Society <i>Annual Mtg</i> 2013</p>	<p><b>PCL-M composite scores and ImpACT revealed <b>significant improvement</b>. Average 30% Reduction in symptoms</b></p> <p><b>Serious side effects extremely Rare</b> Wolf Nov2012 <i>J Neurotrauma</i></p>
<p>Boussi-Gross et al 2013 <i>Hyperbaric Oxygen Therapy Can Improve Post Concussion Syndrome Years after MildTraumatic Brain Injury PLOS</i> Nov 2013</p>	<p><b>No improvements during no HBOT/Crossover, but improvements in cognition (quality of life) and SPECT</b></p> <p>Cifu,D X <i>The Use of HBO for Persistent Symptoms after Mild TBI</i> VA website 2016</p>	<p><b>“HBOT can induce neuroplasticity leading to <b>repair of chronically impaired brain functions and improved quality of life in mTBI patients with prolonged PCS at late chronic stage.</b>” s= 46</b></p> <p>Boussi-Gross et al <i>PLOS one</i> Nov 2013</p>
<p>Cifu <i>The Effect of Hyperbaric Oxygen over Persistent Post Concussion Symptoms, Trauma Rehab</i> Feb 2014,</p>	<p><b>“We have three well done Studies, validated, peer reviewed, It does not work!</b></p> <p>Cifu DX <i>ESPN interview</i> July 14, 2015</p>	<p><b>The <b>significant improvement</b> on the PCL-M total score in the 2.0ATA equivalent group is of interest, but its implications are unclear. Improvements seen can be best explained by factors other than HBO???</b></p> <p>Cifu <i>J Head Trauma Rehab</i> Feb 2014</p>
<p>Miller, RS <i>Effects of Hyperbaric oxygen on Symptoms and QOL of Service members with PPCS</i> <i>JAMA IntMed</i> Nov2014</p>	<p><b>Hyperbaric oxygen treatment does not work (????) but the ritual of the intervention does</b></p> <p>Hoge ,Jonas Editorial <i>JAMA IntMed</i> 17Nov 2014</p>	<p><b>Both groups treated in chambers in the study by Miller et al had <b>significant improvements in post-concussion symptoms and secondary outcomes</b> compared to the “control group”, both treatments were effective.</b></p> <p><b>Miller et al <i>JAMA Int Med</i> 17 Nov 2014</b></p>
<p>Hoge, Jonas Invited Commentary <i>The Ritual of Hyperbaric Oxygen and Lessons for Trx of Post Concussion Symptoms</i> <i>JAMA IntMed</i> Nov2014</p>	<p><b>Daily ritual visitations fostered narrative processes consistent with effective PTSD and depression psychotherapy</b></p> <p><i>JAMA Int Med</i> 17 Nov 2014</p>	<p><b>Significant improvements in post concussion symptoms and secondary outcomes, including PTSD(which most participants had), depression, sleep quality, satisfaction with life and physical, cognitive and mental health function.</b> <i>JAMA IntMed</i> Nov2014</p>
<p>Overview</p>	<p><b>Regardless of anecdotal stories that hyperbaric oxygen chambers can be utilized to deal with concussions, robust proof is mounting that they do not.</b> <i>Huff Post</i> 24 Aug 2015</p>	<p><b>"People did get better and we can't ignore those results,"</b></p> <p>Col Scott Miller MD US Department of Veterans Affairs 21 Jan 2015</p>