

Healing From Within

Hyperbaric Oxygen Therapy (HBOT) addresses healing at a deep, cellular level, and can be used to treat a wide range of brain injuries

TBI

CONCUSSION

POST-CONCUSSION SYNDROME

STROKE RECOVERY

PTSD

LONG COVID

DEMENTIA & COGNITIVE IMPAIRMENT

Effects of HBOT on the Brain

Hyperbaric Oxygen Therapy (HBOT) addresses healing at a deep, cellular level, and can be used to treat a wide range of brain injuries



**Modulates
Neuroinfla**



**Promotes
Neuroblas**



**Hyperoxyg
enates**

Inflammation

Neuroinflammation is the brain's immune response to injury or disease. By reducing inflammation, HBOT may help in mitigating the damage caused by conditions such as stroke, Concussion/TBI, or neurodegenerative diseases like Alzheimer's and Parkinson's.

Neuroplasticity

Neuroplasticity is the brain's ability to reorganize and form new neural connections, in response to learning, experience, or injury. HBOT has been suggested to promote neuroplasticity, thus aiding in recovery from brain injuries and improving cognitive function.

Tissue

HBOT boosts oxygen levels in the bloodstream and brain tissues, enhancing cellular metabolism, energy production, and brain repair. It can also help in areas with compromised blood flow, such as regions affected by stroke or TBI.

Traumatic Brain Injury

Traumatic Brain Injury , or TBI, encompasses a broad range of brain injuries that result from a forceful blow, bump or jolt to the head, causing disruption in brain function that can be severe or mild, temporary or permanent. Potential benefits of HBOT for those suffering from a TBI:

- Accelerates recovery & healing
- Regenerates neurologic tissue
- Reduces pain
- Creates new blood vessels
- Stimulates stem cell mobilization
- Reduces cognitive impairment



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Concussion

Concussions are a type of traumatic brain injury (TBI).

They are often caused by some type of external force, including those that penetrate the skull and closed-head injuries.

Professional and adolescent athletes, particularly those involved in contact sports, are at an increased risk.

Even a mild [concussion](#) can lead to significant health challenges, and symptoms can last for months, or even years without resolution. These often include:

- Headache
- Dizziness or Light headedness
- Sleep disturbances
- Memory loss
- Personality changes

The use of Hyperbaric Oxygen Therapy (HBOT) to care for concussions aims to relieve

symptoms and accelerate recovery by promoting repair of damaged tissue, increased oxygenation of tissue and angiogenesis, or blood vessel growth.

READ A HBOT CASE
STUDY ON
CONCUSSION

Post- concussion syndrome (PCS)

When symptoms resulting from a concussion last more than three months, this is defined as post-concussion syndrome (PCS).

Symptoms often include:





- Headaches or migraines
- Personality changes
- Depression
- Sleep disturbances
- Memory issues
- Sensitivity to light and/or sound
- Difficulties focusing
- Light-headed or dizziness

The use of HBOT to help treat PCS aims to relieve symptoms and accelerate recovery by promoting oxygenation, repair of damaged tissue and growth of new blood vessels (angiogenesis).

SEE IF HBOT IS RIGHT
FOR YOU

Stroke Recovery

A stroke is also known as a brain attack and occurs when the blood flow to an area of the brain is impaired. Brain cells and tissue deprived of oxygen and nutrients will begin to die within minutes. Depending on the location and size of oxygen deprivation in the brain, a stroke can lead to small or very large motor, cognitive, and/or sensory deficits.



The use of Hyperbaric Oxygen Therapy (HBOT) can:

- Reverse tissue oxygen deprivation in the acute setting and after the damage has occurred
- Help grow new blood vessels and regenerative nerve cells
- Induce neuroplasticity
- Reduce inflammation



PTSD

Post-traumatic stress disorder (PTSD) is a debilitating psychiatric condition that can develop following exposure to traumatic events, such as combat related blasts. As such, PTSD is very prevalent among veterans. Standard treatment options for PTSD include psychotherapy, medication, and cognitive-behavioral interventions.

However, if there is an underlying brain injury, which may not have been specifically diagnosed, individuals may not respond sufficiently to these approaches alone. In such cases, Hyperbaric Oxygen Therapy

(HBOT) can be used to repair damage to the brain. HBOT's mechanisms of action include:

- Increased tissue oxygenation
- Modulation of neuroinflammation
- Promotion of neuroplasticity, which contribute to its therapeutic effects on PTSD.

The use of HBOT to help treat PCS aims to relieve symptoms and accelerate recovery by promoting oxygenation, repair of damaged tissue and growth of new blood vessels (angiogenesis).

READ A HBOT CASE
STUDY ON PTSD



Long COVID

[New research treating brain](#)

[injuries](#), regardless of their cause. It not only addresses traumatic brain injuries (TBIs) and concussions but also shows promising evidence in the treatment of brain injuries caused by inflammation such as after COVID-19 infection.

LEARN MORE ABOUT
HBOT FOR LONG
COVID

Dementia & Cognitive Impairment

Alzheimer's and other forms of age



related dementia are progressive neurodegenerative disorders leading to memory loss, cognitive decline, and behavioral changes.

HBOT's potential benefits for dementia include:

- Reducing hypoxia (low oxygen)
- Reducing neuroinflammation
- Promoting neuroplasticity
- Enhancing cognitive function
- Slowing disease progression
- Improving quality of life for patients and caregivers

The use of HBOT to help treat PCS aims to relieve symptoms and accelerate recovery by promoting oxygenation, repair of damaged tissue and growth of new blood vessels (angiogenesis).

GET STARTED WITH
HBOT

Get Started In Your Recovery

Free 15 Min Info- Session

Speak with a Patient Care Coordinator to get all of your questions answered, see if you'd be a good fit for our brain health program and get pricing.

Begin your healing journey today.

SCHEDULE CONSULTATION

CALL US: 954-880-3170

Resources

 [A Phase I Study of Low-Pressure Hyperbaric Oxygen Therapy for Blast-Induced Post-Concussion Syndrome and Post-Traumatic Stress Disorder](#)

 [Case control study: Hyperbaric oxygen treatment of mild traumatic brain injury persistent post-concussion syndrome and post-traumatic stress disorder](#)

 [Hyperbaric Oxygen Therapy and SPECT Brain Imaging in the Treatment of Chronic Brain Injury](#)

 [Hyperbaric Oxygen Therapy Can Improve Post Concussion Syndrome Years after Mild Traumatic Brain Injury – Randomized Prospective Trial](#)

 [Case report: Treatment of Mild Traumatic Brain Injury with Hyperbaric Oxygen](#)

 [Hyperbaric oxygen: B-level evidence in mild traumatic brain injury clinical trials](#)

Case Study: TBI from Previous Sports Injuries

A 23 year old male came to our office with a history of multiple concussions and traumatic brain injuries (TBI), which he previously sustained while playing football and lacrosse. His most recent TBI occurred in 2019 which led to recurrent headaches, light sensitivity, brain fog, tinnitus, short term memory loss and occasional scotomas (blind spots)...

[Read more](#)

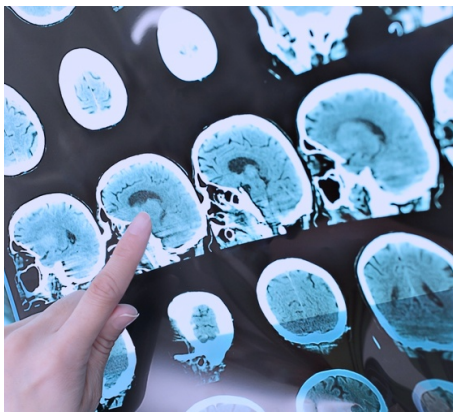
Read More About Brain Health & HBOT



5 Team Member Randy Parr Recognized for Work With Veterans

Physician assistant Randy Parr was recently honored for her work with veterans suffering post-traumatic stress disorder and traumatic brain injuries.

[Read More](#)



4 Types of Brain Injuries

There are many different types of brain injuries, including anoxic injuries, contusions, concussions, and infections.

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7 Causes of Anoxic Brain Injury

Some anoxic brain injury causes include stroke, cardiac arrest, low blood pressure, carbon monoxide poisoning, and choking.

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Are Concussions Really Risky?

Recent research shows that even a single concussion can have long-term effects on the brain.

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Conditions

COVERED (ON-LABEL)

[Radiation
Tissue Damage](#)
[Diabetic Foot
Ulcers](#)
[Crush Injury &
Other Acute
Traumatic
Ischemias](#)
[Necrotizing
Soft Tissue
Infections](#)
[Chronic
Refractory
Osteomyelitis](#)
[Failed Skin
Grafts and
Flaps](#)
[Sudden
Hearing Loss*](#)

For You

SERVICES

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RESOURCES

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For Physicians

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NON- COVERED (OFF-LABEL)

Concussion &
Traumatic
Brain Injury
Long Covid
Recovery
Surgical
Recovery
Cancer
(Treatment
Synergy)
Sports Injuries
Lyme disease
Ulcerative
Colitis
Multiple
Sclerosis
View All

Disclaimer:

While studies support the effectiveness of hyperbaric oxygen therapy when used to help treat various medical conditions, individual results may vary. There are no guarantees of outcome. Hyperbaric oxygen therapy may not be appropriate for every individual; it may not be applicable to your condition. Always ask your doctor about all treatment options, as well as their risks and benefits. Only your doctor can determine whether hyperbaric oxygen therapy is appropriate for your situation.



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