

HYPERBARIC CENTERS OF EXCELLENCE

Oxygen revolution in Bay County



“Big Blue”



Big Blue is a 12 man multi hyperbaric chamber.

What is hyperbaric

Hyper = over or above. (originating from the Greek language)

Baric = weight, especially that of atmosphere, or pressure. (originating from the Greek language)

Hyperbaric medicine is the medical use of oxygen at a level higher or above normal atmospheric pressure.

HBOT = Hyperbaric Oxygen Therapy

Hyperbaric History

The history of HBOT is over 400 years old and its earliest use was in the treatment of decompression sickness. This particular technology has been further developed by the U.S. Navy and continues to be a mainstay at naval bases around the world.

- 1612 the first hyperbaric chamber was created.
- 1800's clinical use of hyperbaric oxygen therapy began.
- 1930's the military developed and tested hyperbaric oxygen (HBO) for purposes specifically in the area of deep sea diving and aeronautics.
- 1960's studies began on a wide variety of indications for HBOT. Today research continues to improve and increase applications for hyperbaric oxygen therapy.

Hyperbaric Lingo

For many patients who have experienced hyperbaric treatments the terms “**Dive**” or “**Drops**” may have been used. To explain these slang terms one has to remember this technology was been developed by the U.S. Navy. Hyperbaric medicine is typically used, in the military setting, to treat decompression sickness from diving mishaps. Thus the terms dives or drops have been used to describe hyperbaric treatments. If you hear terms like “dive” or “drop”, make no mistake about the fact that a hyperbaric treatment is a real medical, scientific based, treatment to help you heal.

Types of chambers

- Monoplace chamber holds a single person



- Multiplace chamber holds multiple people



FDA vs. Off Label

- FDA Approved Conditions allows health insurance companies to pay for HBOT procedures. However, there are only 15 approved diagnoses. Scientific evidence has shown that HBOT is effective in treating so much more. The industry refers to the non-insurance covered diagnoses as “Off Label Treatments”.
- Off label diagnoses are not covered by insurance companies. However, it is legal for a doctor to prescribe HBOT to treat these conditions.

FDA-approved hyperbaric oxygen therapy treatments

- Air or gas embolism
- Carbon monoxide poisoning
- Enhancement of healing in diabetically derived illness such as diabetic foot, diabetic retinopathy, diabetic nephropathy
- Exceptional blood loss (anemia)
- Intracranial abscess
- Clostridal myositis and myonecrosis (gas gangrene)
- Crush injury, compartment syndrome, and other acute traumatic ischemias
- Decompression sickness
- Necrotizing soft tissue infections (necrotizing fasciitis)
- Osteomyelitis (refractory)
- Delayed radiation injury (soft tissue and bony necrosis)
- Skin grafts and flaps (compromised)
- Thermal burns
- Actinomycosis
- Cyanide poisoning



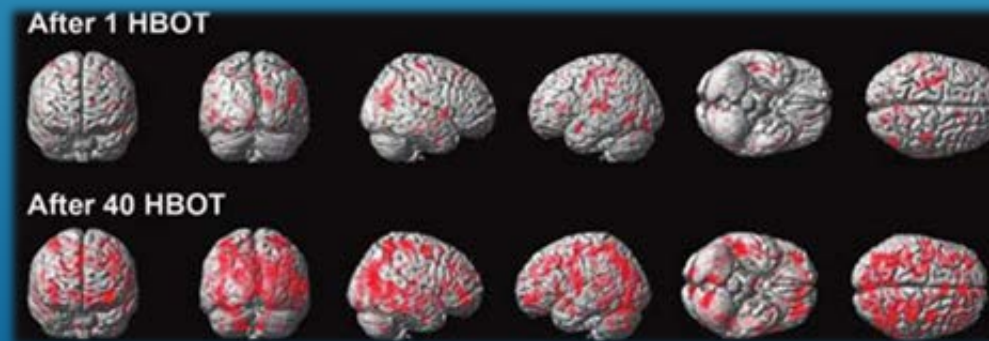
Off Label Treatments

- Traumatic Brain Injury
- Post Traumatic Stress Disorder
- Autism
- Stroke
- Lupus
- Cancer
- Cerebral Palsy
- Chronic Fatigue Syndrome
- Multiple Sclerosis
- Inflammation
- Parkinson's Disease
- Alzheimer's Disease
- Substance Abuse
- Vision loss
- Lyme Disease



Benefits of HBOT

- Generalized constriction of blood vessels that decreases edema or swelling
- Increasing the amount of oxygen intake to cells
- Rebuilding of small blood vessels, such as capillaries
- Activation of the immune system to fight and kill certain bacteria
- Stimulation of cells to rebuild tissues, such as bone tissue
- Inactivation of toxic materials produced by bacteria
- Increasing the diameter of blood vessels
- Assisting in cleansing the patient's body of toxins
- Enhancing white blood cell action
- Rejuvenating skin cells
- Increasing energy
- Increasing endurance
- Aiding in circulation



Why Choose Hyperbaric Oxygen Therapy

Healing! HBOT heals by saturating your body with the most important element we need to survive - Oxygen! A body enriched with oxygen is a healthy body.

Hyperbaric Centers of Excellence role in Bay County

- Educate people on how hyperbaric can speed healing.
- Provide HBOT to patients who need hyperbaric healing.
- Help for hero's- providing HBOT to wounded vet with PTSD or TBI.
- Aid in the research and development in HBOT for Autism and related disorders
- Providing a facility to treat emergency dive accidents
- Sports enhancement therapy

Difference between hospital hyperbaric and HBCE

Hospitals will only treat FDA approved Hyperbaric treatments such as diabetic wound care

HBCE will treat “Off Label” conditions such as PTSD, Autism and stroke.