

Hyperbaric Oxygen Treatment for Acute Ischemias

Acute ischemia, affecting the heart, brain, or limbs, can result in heart attacks, strokes, or tissue necrosis. Hyperbaric oxygen therapy (HBOT) enhances blood oxygen levels, mitigating tissue damage, promoting healing, and improving recovery outcomes.



How Hyperbarics Helps



Decreased Edema



Lowered Infection Risk



Enhanced Tissue
Oxygenation



Reduced Tissue Damage



Promotes Healing

A Promising Therapy for Reducing Inflammation and Enhancing Healing in Chronic and Refractory Conditions

Numerous studies have documented the benefits of hyperbaric oxygen therapy (HBOT) for healing acute ischemias. Both Medicare and many private insurance companies pay for the cost of hyperbaric oxygen therapy to heal acute ischemias.

Hyperbaric oxygen therapy (HBOT) provides an effective strategy for managing acute ischemia, a condition where reduced blood flow leads to insufficient oxygen supply in tissues

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Here's how HBOT helps in treating acute ischemia:

1. **Enhanced Tissue Oxygenation:** HBOT increases the oxygen concentration in the blood, improving oxygen delivery to ischemic tissues. This boost in oxygen levels supports cellular repair and survival, even in severely compromised areas.
2. **Reduced Tissue Damage:** By improving blood flow and oxygenation, HBOT helps mitigate the damage caused by ischemia. This can limit tissue necrosis and preserve affected organs or limbs.
3. **Promotion of Healing:** HBOT stimulates the production of collagen and supports angiogenesis—the formation of new blood vessels. These processes are vital for the repair of damaged tissues and the restoration of normal function.

4. **Decreased Edema:** Ischemic conditions often lead to significant swelling. HBOT reduces edema by constricting blood vessels and decreasing capillary permeability, which alleviates pain and prevents further tissue damage.

5. **Lowered Infection Risk:** The therapy creates an oxygen-rich environment that inhibits anaerobic bacteria, reducing the risk of infection. It also enhances the immune system's ability to combat pathogens, supporting overall recovery.

At Bay Area Hyperbarics, we collaborate with referring physicians to integrate HBOT into patient care plans for acute ischemia. Our comprehensive approach ensures higher satisfaction and improved recovery rates. Contact us today to discuss patient referrals or download our referral form. We are ready to assist your patients in their journey to recovery.

Research Studies

Journal of Surgical Research

The effect of hyperbaric oxygen on nitric oxide synthase activity and expression in ischemia-reperfusion injury

The effect of hyperbaric oxygen on nitric oxide synthase activity and expression in ischemia-reperfusion injury

Annals of Medicine & Surgery

Hyperbaric oxygen therapy in managing systemic inflammatory response syndrome caused by ischemia-reperfusion injury following hand replantation and long-term outcomes: A report of two cases

HBOT was able to treat SIRS in both patients. Favorable long-term hand function results signify successful extremity replantation.

Patient Experiences

Listen to what real patients have to say about their experiences.



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Lisa St John, the clinic director for Bay Area Hyperbarics, had chronic refractory osteomyelitis that lasted seven years with no relief. The infection induced severe fatigue and cognitive impairment that prevented her from working, and required her to sleep up to 18 hours per day. Finally, a physician recommended hyperbaric oxygen therapy with antibiotics, which after 60 treatments, healed her. Shortly after being healed, she sold her home to begin her first hyperbaric oxygen therapy clinic, which she has owned for almost 25 years!

Lisa, 44

After seven years of suffering, hyperbaric oxygen therapy healed her osteomyelitis.



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Jennifer had osteomyelitis of the lower jaw (mandible), which proved difficult to heal. Her teeth were becoming loose, and her doctor thought she would need surgery. However, he prescribed hyperbaric oxygen therapy before the surgery, and after 60 treatments, her chronic refractory osteomyelitis healed completely, regrowing bone in her mandible. Jennifer was able to keep her teeth, and was able to return to her active lifestyle, hiking regularly with her husband.

Jennifer, 68

Hyperbaric oxygen therapy eliminated the need for surgery to heal her bone infection.

Patients: Get Started with Hyperbarics

Its easy to get started with Hyperbarics. Just follow these simple steps.

1 Give us a call

Did a physician refer you? If so, they can download and fax us back a patient referral form. If not, our medical staff will discuss whether hyperbarics is right for you.

2 We talk with your insurance

Our medical staff contacts Medicare or private insurance to receive authorization and create a plan with you.

3 Patient starts HBOT

Our medical staff meets with the patient to ensure that HBOT is appropriate, and contacts Medicare or private insurance to receive authorization.



Physicians: Refer a Patient

Refer a patient in three easy steps.

1 You submit patient's information

As a provider, your office fills out and faxes back the Patient Referral Form. Have questions? Call us!

2 We get authorizations

We make sure the patient understands treatment and then follow the prescribed protocol to get the patient on the road to recovery!

3 Patient starts HBOT

Our medical staff meets with the patient to ensure that HBOT is appropriate, and contacts Medicare or private insurance to receive authorization.



Reach out to us

We're here to help.

Contact us today to learn more about how hyperbaric oxygen therapy can help you.



Call Us: (408) 356-7438

FOR PATIENTS



Scan for free
consultation

FOR PHYSICIANS



Scan for Patient
Referral Form