

THE NORTHWEST WELLBEING HUB



HYPERBARIC OXYGEN THERAPY ATHLETES

KEY POINTS

- Enhanced recovery and reduced fatigue
- Reduced inflammation and swelling
- Enhanced injury healing and rehabilitation
- Improves bone regeneration
- Sport related traumatic brain injury (TBI)

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ATHLETES

Hyperbaric Oxygen Therapy (HBOT) is increasingly used by athletes to enhance performance, improve recovery, and aid in injury rehabilitation. Here are some key points highlighting the benefits of HBOT for athletes:

1. **Enhanced recovery and reduced fatigue:** HBOT can accelerate the recovery process by increasing oxygen levels in the body. This promotes tissue repair, reduces muscle soreness, and helps athletes recover faster from intense training sessions or competitions. It can also reduce fatigue by replenishing energy stores and optimizing cellular metabolism.
2. **Reduced inflammation and swelling:** Intense physical activity can cause inflammation and swelling in the muscles and joints. HBOT has anti-inflammatory properties and can help reduce swelling, thereby alleviating pain and promoting faster healing. This can be particularly beneficial for athletes dealing with sports-related injuries or conditions like tendonitis.
3. **Increased oxygen delivery to tissues:** HBOT significantly increases the amount of oxygen delivered to tissues, including muscles, tendons, and ligaments. This enhanced oxygenation supports cellular metabolism, aids in the production of ATP (the body's energy currency), and improves tissue health. Athletes may experience improved endurance, better performance, and a reduced risk of muscle fatigue during training and competition.
4. **Enhanced injury healing and rehabilitation:** HBOT has been found to accelerate the healing of various sports-related injuries, such as sprains, strains, fractures, and ligament tears. By promoting tissue repair, stimulating angiogenesis (formation of new blood vessels), and reducing inflammation, HBOT can aid in the rehabilitation process and shorten the overall recovery time.
5. **Neurocognitive benefits:** High-intensity training and physical exertion can impact cognitive function and lead to mental fatigue. HBOT has been shown to improve cognitive performance, including memory, attention, and reaction time. By enhancing brain function and oxygenation, athletes may experience better mental clarity, focus, and decision-making abilities.



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