

From: **Advanced Hyperbaric Recovery** info@improvehealing.com
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To:

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Advanced Hyperbaric Recovery™
Hyperbaric Oxygen Therapy of Marin™

Hyperbaric Oxygen Therapy(HBOT) can help you regain quality of life.

With summer upon us and this years camping and hiking season in full swing we would like to give you some friendly reminders about the dangers of Lyme Disease to help you and your family stay safe this summer.

Lyme Disease & HBOT

What is Lyme Disease?

Lyme disease and its longer-term sequitur, Chronic Lyme disease, is one of the most challenging arthropod-borne infectious diseases to diagnose, study, and treat. Although named after the town in Southwest Connecticut in the United States where epidemiological cluster investigations were performed in the mid 1970s, the European medical literature predating this period suggests there was considerable knowledge of this disease prior to this date.

Signs of Lyme Disease:

Lyme often begins with flu-like symptoms, headaches, fatigue, swelling of the joints, muscle pain and gastrointestinal distress. As Lyme disease progresses, it can attack the nervous system, producing learning disabilities, mood swings, anxiety and depression, panic attacks, obsessive behavior, sudden rages and other psychiatric diagnoses. Most physicians have been taught to look for evidence of a tick bite and a red bull's-eye rash, yet fewer than half of all Lyme patients recall being bitten or develop tell-tale skin eruptions. As a result many are misdiagnosed with other disabling illnesses such as chronic fatigue, fibromyalgia, or MS.

How medical grade HBOT works against lyme:

As documented by Dr Glen Burkland in a "Retrospective Review of Lyme Patients who received Hyperbaric Oxygen," *Borrelia burgdorferi* cannot survive in an oxygen-rich environment, because it is an anaerobe. HBOT therapy increases the amount of oxygen in the body, which in turn causes Lyme spirochetes to die.

If the physician decides to combine antibiotics with HBOT, the effectiveness of antibiotics to kill the Lyme organism is increased as the medication is pushed deep into the body, attacking the spirochetes. However patients not on antibiotics report the same Herxheimer reactions during HBOT, as oxygen under pressure is antibacterial. HBOT also acts as an immune modulator and allows organ and gland functionality to normalize, reducing many debilitating Lyme symptoms.

Because the chambers pressurize the atmosphere, HBOT acts as a detoxifier as well. By forcing oxygen into the tissues through this slight pressure, toxins, chemicals and other impurities are forced out.

July 2014 Case Study:

A 16-year-old female had been diagnosed with Lyme disease 3 years prior to start of HBOT, although her medical records suggested recurring symptoms for 10 years or more. While there was no history of a bull's-eye rash or tick bite, she lived in a Lyme disease-endemic area, and received aggressive long-term antibiotic treatment with some short-term cessation of symptoms, which included fatigue, joint and muscle pain, mood swings, weight gain and loss, insomnia, encephalopathy, short-term memory problems, and headaches. These symptoms were aggravated by stress and she had been removed from high school. Her Western blot was equivocal. She was due to enter college but did not feel that her memory and physical health would allow her to compete academically. At the time of evaluation, all antibiotics had been discontinued due to severe adverse reactions.

After the third HBOT she complained of fever and headache akin to the JH reaction she had once experienced with antibiotics. After 4-5 treatments, her ability to read and comprehend without losing concentration increased from 30 minutes to 3 hours. Five months after cessation of treatment she continued to improve and became an honors student in college.

What our Patients have said Lyme Disease & HBOT:



**Do you know anyone that could benefit from
HBOT with us?**

Thank you for your interest in our newsletter and for partnering with us to help improve quality of life through Medical Grade Hyperbaric Oxygen Therapy. If you have any other questions please [contact us](#) for more information, or to schedule a free tour of our award winning facility. Please pass on this email to anyone that could benefit from it.

Thank you,

Zachary J. Thill, CHT
Technical Director

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and volunteer of the
H.O.P.E. For Healing Institute
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