

**B**oth Neurofeedback and Hyperbaric Oxygen Therapy have a substantial body of scientific evidence supporting their use independently with many disorders.

While Hyperbaric Oxygen contributes to healing of the damaged brain structure, Neurofeedback encourages the optimum function of brain activity.

Neurofeedback and Hyperbaric Oxygen Therapy have an established history in the healing of injured brain tissue and recovery of proper neuron function.

Highlander and Canadian Hyperbarics have teamed up to provide these therapeutic services to select clients with the following concerns:

- Traumatic Brain Injury
- Stroke
- Autism
- Attention Deficit Disorder
- Cerebral Palsy
- Post Traumatic Stress Disorder
- Addictions

Please contact us for additional information.

**CALL FOR AN APPOINTMENT**

780-903-3961



**Edmonton General Hospital**  
Room 3B07  
11111 Jasper Avenue  
Edmonton, Alberta  
T5K 0L4

**Centre Square Building**  
300 King Street  
Spruce Grove, Alberta  
T7X 3A2

780-962-6313

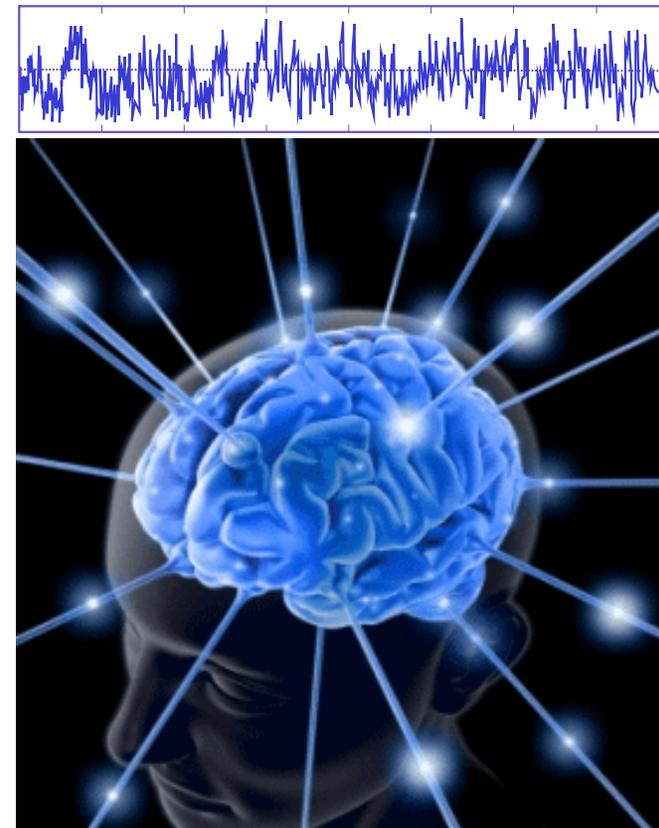
[www.highlander-counselling.com](http://www.highlander-counselling.com)



**Edmonton General Hospital**  
Room 3B10  
11111 Jasper Avenue  
Edmonton, Alberta  
T5K 0L4

780-482-8934

[www.hyperbarics.ca](http://www.hyperbarics.ca)



# Brain Regulation Recovery Programs

Enhanced Recovery Through An  
Interdisciplinary Approach

# NEUROFEEDBACK

Neurofeedback is a variation of established biofeedback that facilitates changes in brain wave patterns and regional cerebral blood flow activation; both of these responses are direct stimulants to healing.

Neurofeedback is a comprehensive training system that promotes growth and change at the cellular level of an injured brain. It can encourage, enable and establish neuronal pathways that have been damaged or disrupted.

Founded upon computer-assisted tools, Neurofeedback uses auxiliary equipment that can measure the metabolic activity of the brain and render a real-time reaction that is measured to target the impaired function.

The Neurofeedback technique monitors brainwave activity and allows precise inputs to be presented and induce conditioning of appropriate brain signal pathways.

The Neurofeedback training focuses on the rehabilitation of the actual and specific injured areas of the brain.

Neurofeedback empowers the patient to use their mind as a tool for personal healing.



For more than 30 years, Neurofeedback has transformed the lives of those consigned to unresponsive brain injury.

# Combined Effective



The therapeutic recovery from a brain injury, no matter what was the cause, is a complicated and often prolonged journey. The process can involve difficult and intense therapies that produce little in the way of functional recovery.

There are few therapies that actually target and effectively reach the original site of injury and the focal point of the disability, which is the damaged tissue inside the brain.

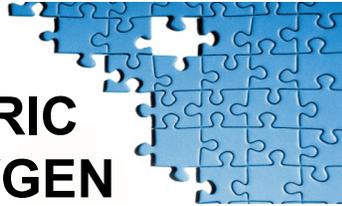
In most therapies and rehabilitation programs, treatments will focus on the results or symptoms of the injured brain such as reducing spasticity, use of adaptive equipment and life-style changes to accommodate the disability.

Neurofeedback and Hyperbaric Oxygen are, at present, the only known therapies that target the original site of the brain injury and reach into where the disability begins. These therapies incorporate a comprehensive diagnostic protocol that can help understand and address the root cause(s) of the dysfunction.

Neurofeedback and Hyperbaric Oxygen target and reach both the structure and function of the injured brain, sourcing the cause of the disability and not just the results or symptoms.

Neurofeedback and Hyperbaric Oxygen can be a powerful addition to any treatment plan without causing harmful side-effects.

# HYPERBARIC OXYGEN



Hyperbaric Oxygen is a proven and effective therapy for the treatment of numerous life and limb threatening medical conditions.

There are many conditions where treatment is covered by insurance. These conditions are critical care where it is critical to deliver high concentrations of oxygen to keep the patient alive.

This therapy is also beneficial in cases of recent or previous brain injury from stroke, disease or accident.

Hyperbaric Oxygen is well recognized for controlling the amount of oxygen being delivered to tissue. It is capable of delivering increased amounts of oxygen to damaged brain tissue. Oxygen to the brain is proven to be the most significant issue for all processes, including survival, healing and function.

Hyperbaric Oxygen increases the amount of oxygen carried to the tissues by forcing oxygen into the plasma, lymph and cerebrospinal fluids.

Extra oxygen nurtures brain tissues, induces healing processes and promotes function of damaged brain cells.

Bathing damaged and impaired brain tissue with oxygen has long been known to be an effective intervention to promote healing. Hyperbaric Oxygen is like a rain breaking a drought.

It really is a breath of fresh air.