

SPECIFIC APPLICATIONS

Some of the specific applications of Hyperbaric Oxygen Therapy indicated from published medical journals:

Stroke/Traumatic Brain Injury (TBI) - HBO has been used since 1961 to stimulate healing and induce brain cell function.

Near Drowning - With HBO, even more rapid correction of the anoxia ensues.

Neonatal Asphyxia - Hyperbaric oxygen has been shown to reduce the possibility of disability by a factor of 4.

Cerebral Palsy - HBO treatment is beneficial by improving the hypoxic or anoxic state of brain tissue and facilitates repair of damaged brain tissue.

Epilepsy - With additional oxygen delivered to the brain, normalization of function is common.

Autism/Add/ADHD - Provides oxygen to the identified areas of the hypoxic brain.

Multiple Sclerosis - No other treatment influence the long-term course of the disease.

Chronic Fatigue/ME - Correction of focal cerebral hypoxia can alleviate fatigue.

Migraine - HBO alters the brain electrical and metabolic activity, blood flow and tissue oxygen levels.

Rheumatoid Arthritis - The known effects of HBO for reducing edema limits the swelling.

Peripheral Neuropathy - Assists impaired nerve function and encourage new growth.

Sudden Deafness/Tinnitus - A Standard-of-Use in Europe and Asia for decades.

Immune System Building - The white blood cell is highly dependent on available oxygen to work. Increase oxygen increases immune system function.

Lyme Disease - Caused by an aerobic parasite, and increase of oxygen can kill or impair the organism.

Sports Injuries - HBO is preferentially used in the rehabilitation of high-profile athletes to shorten recover time.

Carbon Monoxide Poisoning† - For decades HBO has been acknowledged as a first line of treatment against death and severe retardation.

Non-Healing or Problem Wounds† - Used to avoid amputations more than 70% even after every other treatment has failed.

Non-Healing Amputations† - Promotes the full healing and avoids further amputations.

Healing of Skin Grafts and Flaps† - Increase oxygen will improve healing.

Crush Injury/Compartment Syndrome† - These are medical terms for common injuries such as whiplash-soft tissue injury from motor vehicle accidents, frostbite, burns and other soft-tissue injuries. HBO can reduce serious swelling; prevent significant tissue damage and promote natural healing.

Acute Traumatic Ischemias† - This is the medical term for soft tissue injury that impairs blood flow. HBO can stop or impair the injury processes that cause long-term disability.

Intracranial Abscess/Actinomyces† - A brain infection that is stopped by increase oxygen.

Burns† - Specifically identified as being its own category since HBO is effective in preventing disfiguring skin grafting.

Exceptional Blood Loss (Anemia) - It is actually possible to keep a human alive in the absence of blood. HBO is a viable substitute (with restrictions to blood transfusions).

Gas Embolism† - Air bubbles trapped in the body that are most commonly caused by treatment mistakes. Hyperbarics is the only known way to reduce bubble size.

Decompression Sickness† - Commonly known as the Bends, HBO is a standard treatment and the only treatment for divers.

Osteomyelitis† - Increase oxygen can impair or kill the infection and stimulate new bone growth, even after all other treatments have failed.

Gas Gangrene† - Impairs the bacteria infection, hyper-stimulates the immunization system and promotes growth and healing of new tissue.

Necrotizing Soft tissue Infections† - HBO can stop the Flesh-Eating Disease and effect new growth of tissue.

Delayed Radiation Injury† - Caused Cancer treatments, HBO not only heals but it can prevent radiation poisoning.

Used with Chemotherapy - Hyperbarics Oxygen improves the effectiveness of cancer drugs and significantly lessens the severe side effects of these drugs.

† Numerous conditions are covered by health insurance for treatment with Hyperbaric Oxygen Therapy. The above list is partial, brief and limited in description.



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WHAT IS HYPERBARIC OXYGEN (HBO)?

Hyperbaric Oxygen (HBO) is a non-invasive therapy that significantly increases the amount of oxygen in the body.

Oxygen is necessary for sustaining life; it is an essential ingredient for stimulation, preservation and growth of all tissues and cells. Oxygen is the primary ingredient that the body requires to promote and effect healing. It is necessary for life.

Hyperbaric Oxygen is a proven, accepted and recognized standard treatment to provide oxygen for a wide range of conditions and illness.

IS IT AN ACCEPTED FORM OF THERAPY?

Hyperbaric Oxygen Therapy (HBOT) is an accepted therapy for the correction and treatment of conditions associated with and inadequate amount of oxygen.

Hyper simply means and increase, while **baric** refers to pressure.

Hyperbarics is essentially the process of increasing the atmospheric pressure surrounding the body.

The technology was originally developed by the diving industry and advanced by the military for dealing with complications encountered by divers.

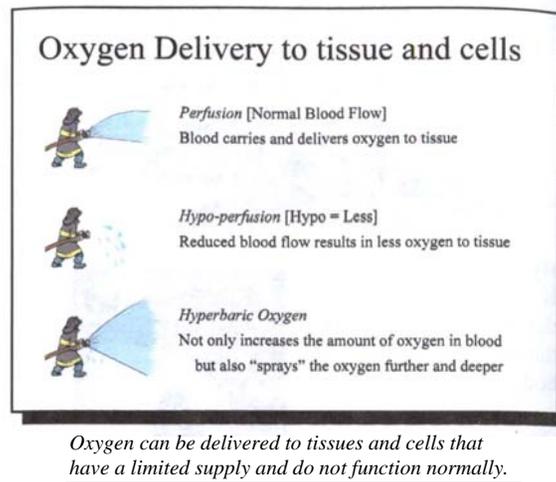
Using hyperbaric procedures while breathing 100% oxygen, it is a scientific and medical fact that a higher quantity of oxygen can be dissolved into body fluids...

...this is Hyperbaric Oxygenation

HOW CAN IT HELP?

The basic result of this procedure is that oxygen can be delivered further and deeper into damaged tissues and cells.

Damaged tissues and cells that are deprived of oxygen due to a traumas, disease, damage or physical limitations can then receive the necessary oxygen that is required for healing.



DISABILITIES & DISORDERS

Developmental Disabilities are a group of chronic impairments that impede development of one or more abilities, traits, skills or processes. As a generalized term it can include the diagnosis of Cerebral Palsy (CP), Epilepsy, Attention-Deficit/ Hyperactivity Disorder (ADD/ADHD) and Autism Spectrum Disorders.

Autism Spectrum Disorders (ASD) are a group of Developmental Disabilities that are caused by unusual brain development. Autism is a pervasive developmental disorder that appears as impaired or limited social skills, speech, language, communication and abnormal or obsessive repeated behaviour and routines.

While the key underlying neuro-biological anomalies remain unknown, functional imaging studies of the brain provide further insight. Findings from these studies demonstrate that there is a delayed maturation of the frontal lobes in the brain.

Neuroimaging studies (MRI, PET, SPECT) of autism have shown certain abnormalities in the brain. Analysis of blood flow in the brain has revealed a pattern of abnormal perfusion (blood flow) related to the behaviours observed in autism.

Ultimately, the body or brain does not care about blood flow or perfusion. Lack of blood flow means lack of oxygen delivery or Hypoxia. It is what's in the blood that counts... Oxygen.

RESEARCH & LITERATURE

Medical research and published literature has established that there are regions of ischemic tissue (deficiency of blood) in the autistic brain. This tissue is hypoxic... lacking oxygen.

European Journal of Nuclear Medicine (1999)
"... revealing focal areas of decreased perfusion."

Journal of Pediatric Radiology (2000)
"...bilateral hypoperfusion (inadequate blood flow) of the temporal lobes in autistic children."

Journal of Neuropsychobiology (2002)
"We found significant hypoperfusion in the prefrontal areas of autistic children."

J. Neuropsychiatry & Clinical Neuroscience (2002)
"Autistic patients had significantly lower perfusion."

AUTISM RESEARCH

Hyperbaric Oxygen (HBO) is a proven therapy for adding large concentrations of oxygen to tissue.

Since one of the significant factors know to be a part of Autism are portions of the brain that lack adequate oxygen deliver, putting the treatment to the illness should be rocket science. HBO is known as an effective treatment for brain disorders:

"Inadequate tissue oxygenations could be reversed by using hyperbaric oxygenation." **American Journal of Surgery** (1998)

"HBO can increase the oxygen supply ischemic brain and may improve oxidation metabolism." **Eighth ICHM*** (1984)

"Improved ischemic brain metabolism will improve reversible brain dysfunction." **Eighth ICHM*** (1984)

"Hyperbaric Oxygenation treatment is generally beneficial to these patients... that improving the hypoxic or anoxic state of the cells of the various organs including the brain tissue, and facilitates repair of damaged brain tissue." **Ninth ICHM*** (1987)

"HBO guarantees the sufficient oxygen delivery to potentially hypoxic brain areas." **Ninth ICHM*** (1987)

* (ICHM) International Congress on Hyperbaric Medicines