HYPERBARIC CHAMBER THERAPY

NOT ONLY FOR DIVING ANYMORE!

HYPERBARIC OXYGEN THERAPY

CONTACT US
Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
## Chambers To Choose From

*Click on the Picture to Go To the Detailed Page*

*Free Shipping on all chambers w/in the USA*

<table>
<thead>
<tr>
<th>Chamber Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>23&quot; inch</td>
<td>$5,495.00</td>
</tr>
<tr>
<td>28&quot; Chamber</td>
<td>$9,495.00</td>
</tr>
<tr>
<td>28&quot; Military</td>
<td>$5,495.00</td>
</tr>
<tr>
<td>40 inch</td>
<td>$14,995.00</td>
</tr>
<tr>
<td>40 inch Vertical</td>
<td>$9,995.00</td>
</tr>
<tr>
<td>60 inch Vertical</td>
<td>$13,995.00</td>
</tr>
</tbody>
</table>

CONTACT US

Balanced Health Today

http://www.BalancedHealthToday.com

info@BalancedHealthToday.com

888.277.4980
Table of contents

1) Autism and Hyperbaric Chambers
2) Cerebral Palsy and hyperbaric Chambers
   http://www.youtube.com/watch?v=LlgHrVbp2DI
   http://www.youtube.com/watch?v=ReHW_4g3utw
3) Wounds & Hyperbaric
   http://www.youtube.com/watch?v=7V3ypufrc0s
4) Diabetics & Hyperbaric
   http://www.youtube.com/watch?v=7V3ypufrc0s
5) Lymes Disease and HBOT
   http://www.youtube.com/watch?v=AdCuKJHid4w
6) Stroke & HBOT
   http://www.youtube.com/watch?v=5mIpOkHqWic
7) Athletes & HBOT
   http://www.youtube.com/watch?v=fhAs2RSCGq8
8) Alzheimer’s and Hbot
9) PTSD Disorder and Hyperbaric Chambers
10) Pricing, warranty and contact information
11) How the chamber works—this chapter will just be videos
Introduction to HBOT

Hyperbaric medicine, also known as hyperbaric oxygen therapy is the medical use of oxygen at a higher than atmospheric pressure. Hyper means increased and baric relates to pressure. Hyperbaric oxygen therapy (HBOT) refers to intermittent treatment of the entire body with 100-percent oxygen at greater than normal atmospheric pressure. The earth's atmosphere normally exerts about 15 pounds per square inch of pressure at sea level. That pressure is defined as one atmosphere absolute (1 ATA). In the ambient atmosphere we normally breathe approximately 20 percent oxygen and 80 percent nitrogen. While undergoing HBOT, pressure is increased up to two times (2 ATA) in 100% oxygen.

This increased pressure, combined with an increase in oxygen to 100 percent, dissolves oxygen in the blood plasma and in all body cells, tissues and fluids at up to 10 times normal concentration—high enough to sustain life with no blood at all (from 20% to 100% oxygen is an increase of 5 times, from 1 ATA to 2 ATA can double this to a 10-fold increase).

The use of increased atmospheric pressure for medical therapy has intrigued many physicians and scientists for hundreds of years. Though not new, HBOT has recently gained importance for treatment of chronic degenerative health problems. HBOT is very effective due to its three fold effect:

It increases oxygen delivery to tissues and organs.
It is a strong anti inflammatory.
It reduces swelling and edemas.

Hyperbaric Oxygen Therapy dissolves much greater amounts of oxygen into your cells -> tissues -> organs. Hyperbaric Oxygen dissolves increased oxygen into your blood plasma and cerebrospinal fluid. One of the most important facts to understand is that the health and functioning of your brain, one of your many organs, is most sensitive to oxygen deficiencies. The brain is also the most responsive organ to oxygen super-saturation. This is the reason stroke victims, as well as other patients who have brain and nervous system-related conditions, and those with cognitive difficulties, respond so well to Hyperbaric Oxygen Therapy.
Chapter 1  Autism And Hyperbaric Chambers – A Winning Combination

Evidence shows that HBOT increases the production of an important form of cells from human bone marrow, which may help in recovery from neurodegenerative diseases. On the basis of this, hyperbaric oxygen therapy is being used increasingly to permanently improve both symptoms and the quality of life in children with autism.

Autism is a very fast growing developmental disability. It is a brain development disorder that is getting diagnosed more frequently in young children. It causes behavioral abnormalities, such that a child may not function well socially and may only be able to grow up codependent on others. Autism is a mysterious disease-condition-behavior disorder which causes a complex neurological disorder that typically occurs within the first 3 years of life that results in developmental disabilities.

Basically, he or she will find it difficult to understand what they’re seeing, hearing and sensing. This naturally leads to troubles in social interaction and communication issues. In other words, children with Autism, which is also known as Autistic Spectrum Disorder (ASD), will not experience growth and development to the same extent of another healthy child. Depending on individual circumstances, autism can be either mild or severe.

Children will seemingly develop normally until 18 -24 months at which time an alarming regression in their development occurs and they may stop speaking and begin to lose interest in their surroundings and interactions with other people. Autism occurs two to four times more frequently in boys than in girls.

Symptoms of autism can be identified by following the “triads of impairment”. These three are; social relationships, communication & imagination, and planning. A child identified with autism will have problems in all the above 3 areas. Generally, parents have the opportunity to notice these symptoms within the first 2 years of the child’s life. The unfortunate aspect of Autism is that there is no exact cure for it that will make the child’s life absolutely normal. However, early intervention can help immensely in building up child’s ability to exercise self care and also to improve communication skills to a great extent.

There are many theories as to the cause of Autism such as abnormal cerebral blood flow to areas of the brain, high fevers, birth trauma, brain injury, infections, reactions to vaccines (some reports implicate MMR) or lack of oxygen before, during or after delivery. Other theories suggest mineral deficiencies such as calcium, iron and zinc either in uterus or after birth or fat and protein deficiencies.

CONTACT US
Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
Some medical professionals believe autism may be caused by a toxic level of mercury, a heavy metal along with aluminum and arsenic in the body. Heavy metals in the brain interfere with neuron transmission. Increasing the supply of oxygen to the brain could stimulate neural growth and repair and this can be effectively done by the hyperbaric oxygen chamber.

Though autism does not technically intensify after it develops (usually within a child’s first two years), as a child gets older it may be harder and harder for him to act normally. The child’s life can be very difficult without some kind of effective treatment, which is why autism and hyperbaric oxygen chambers (HBOT) often go together. All over the world, medical researchers are discovering promising results with hyperbaric therapy on persons with Autism.

HBOT delivers greater oxygen levels to the brain and vital organs and stimulates tissue regeneration. With autistic patients, hyperbaric oxygen therapy treatment has been known to improve verbal communication, direct eye contact, reasoning ability, motor skills and balance and reduce aggressive behavior.

Many people, including the well known DAN! doctor, Dan Rossignol, believe that autism is characterized by damaged cells due to oxidative stress, brain and gut inflammation, reduced oxygen delivery to the brain and damage to the central nervous system and brain. HBOT combats oxygen starvation, increases oxygen delivery and promotes healing and repair, hence it is a great solution for autism.

The hyperbaric oxygen therapy (HBOT) for autism has been used in many countries worldwide. The results are varied and the individual reports from families and health professionals are encouraging. There are many testimonies on the net from families who have taken HBOT for their autistic child with varied results, mostly very encouraging.

The following study, testimony and article is just an example of the information one can obtain from the internet. The testimony is from one of the patients treated at Reimer Hyperbaric.

CONTACT US
Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
Hyperbaric Oxygen Therapy (HBOT) adjunctive role in the treatment of Autism — Trish Planck, Hyperbaric Clinical Director

Autism is a complex neurological disorder that typically occurs within the first three years of life that results in usually severe developmental disability. Its incidence in the population is estimated to be 1 in 500 with a prevalence of boys to girls of 4 to 1. The ensuing effects of the disease result in severe impairment in areas of social interaction and communication and in some individuals self-injurious behavior may occur.

Presently there are no effective cures for this disease as little is known as to the etiology. Diet, psychotropic medications and other regimens have been tried with mixed and often disappointing results. Recently a therapy that has been in and out of favor has been shown to be of possible benefit in the treatment of this disease.

Initial results were objective improvements in a variety of diverse phenomenon. Each child demonstrated global reduction in aggressive behavior. Parental summaries all stated substantial decrease in tendency to rage or exhibit tantrums. All children were reported to be easier to engage when the parent wished to initiate communication with marked improvement of direct eye contact.

All three children enrolled in a school program displayed higher achievement with better performance and less instruction in classroom assignments. All children were improved with regard to understanding verbal commands. Reasoning abilities were noticeably enhanced in all individuals.

Clinical improvement was substantiated by pre and post treatment SPECT SCAN brain imaging which displayed enhanced neurophysiologic function in at least one of the members of this study.

The aim of hyperbaric oxygen therapy as an adjunct therapy was to evaluate the efficacy of the treatment in a series of 40 initial treatments, once or twice daily at 1.3 ATA to 1.5 ATA using a Monoplace Sechrist chamber on 100% oxygen for a total time of 60 minutes per treatment.

Patients were treated for 5 days consecutively with two days off. HBOT has been demonstrated to exert positive objective changes on a limited cohort of autistic children as evidenced by subjective and objective parameters. HBOT would seem to be useful and safe adjunctive therapy in the treatment of Autism.

HBOT increases the oxygen tissue concentration which increases cerebral blood flow to an area thus enabling...
the body to restore brain tissue metabolism of oxygen and nutrients, helping restoration of any areas which are suffering from hypoxia. New blood and oxygen begin to stimulate an area, especially one that has viable, recoverable brain cells that are "idling neurons" not knowing what to do instead of function normally.

HBOT reduces swelling or excess fluid in the brain that might be pressing on centers of the brain which cause "confusion" in their function ability. HBOT has been demonstrated to exert positive objective changes from a safe, adjunctive therapy that has been overlooked by most healthcare professionals. Parents are encouraged to educate themselves on this new dynamic use of HBOT so they can make informed decisions for the future of their child.

Portable hyperbaric home oxygen chambers and courses of HBOT treatment are also being offered by many practitioners with subjective outcomes. The pods or chambers are comfortable and relaxed. The increased pressure allows extra oxygen to get into tissues and the experience can be made into a game or adventure for the child.

The use of these chambers is quite simple; patients usually breathe very deeply before taking a test or giving a speech, because with more oxygen in the brain, there is less swelling and buildup of fluid. The brain can work more efficiently with more oxygen, so the same idea can be applied to a hyperbaric oxygen chamber. With the treatment, children start to behave more normally in social situations, responding to questions and commands and even communicating with parents. Some also respond with positive results improved physical movement and less aggressive behavior. Children who were in school showed that they were performing better academically and socially with their peers.

The advantages of Hyperbaric Oxygen Chamber Therapy are many but there are a few risks associated with it too. Pressure changes can cause a "squeeze" or barotrauma in the tissues surrounding trapped air inside the body, such as the lungs, behind the eardrum, inside paranasal sinuses, or under dental fillings.
Thus, it has to be used with care and caution. The proper protocol has to be understood and maintained. Following an appropriate protocol can reduce HBOT risks to minimum levels.

Low-pressure HBOT at 1.3 or 1.5 ATA is very different from high-pressure HBO at 2.0 ATA or higher. In children with autism, the use of hyperbaric treatment using pressures up to 1.3 ATA and 100% oxygen has been shown to be safe and well-tolerated. All clothes must be 100% cotton.

Hyperbaric oxygen therapy used with proper protocols appears to be a promising treatment for children with autism. Many parents all over the world have seen amazing results in their children after an HBOT program.

Do not misunderstand and assume that Hyperbaric Oxygen Chamber Therapy Treatment can make your child become 100% normal, but instead it enables your child or loved one, to become increasingly independent so that he or she will be able to take care of day to day tasks without the support of another party. This is indeed a great development, in the sense that almost all autistic patients are simply not capable of living an independent life; hence have to always rely on outside support for simple tasks in life.

Through reduced dependence on others, Hyperbaric Oxygen Chamber Therapy Treatment can surely improve the quality of life of you and your child.

Hyperbaric therapy is not just used for children or those with autism. Athletes, diabetics, those who have had a stroke and some with ADD or ADHD have found them useful, among others. Some have even used them as simply a general health booster, similar to taking advantage of a very concentrated oxygen bar.

Though the hyperbaric oxygen chambers are used to cure or help treat many diseases or disorders, their results for those with autism may be the most profound. For parents of an autistic child, it’s heartbreaking to watch a child suffer statically, not improving or regressing, so HBOT can be a dream come true. Finally, there is a method that will show results and possibly go the farthest in helping heal the afflicted.
Chapter 2  Hyperbaric Oxygen Chambers Deliver Positive Results For Cerebral Palsy Patients Too

Another very prevalent chronic degenerative health problem which can be helped by HBOT with amazing results is Cerebral Palsy.

Cerebral Palsy is a broad term used to describe a group of chronic movement or posture disorders. “Cerebral” refers to the brain, while “Palsy” refers to a physical disorder, such as a lack of muscle control. Cerebral Palsy is not caused by problems with the muscles or nerves, but rather with the brain’s ability to adequately control the body. Cerebral Palsy can be caused by injury during birth, although sometimes it is the result of later damage to the brain. Symptoms usually appear in the first few years of life and once they appear, they generally do not worsen over time. Disorders are classified into four categories:

- Spastic (difficult or stiff movement)
- Ataxic (loss of depth perception and balance)
- Athetoid/Dyskinetic (uncontrolled or involuntary movements)
- Mixed (a mix of two or more of the above)

More than half a million Americans have Cerebral Palsy, and an additional 4,500 infants and children are diagnosed yearly. Some of these cases may be preventable.

The exact cause of the disease is usually difficult to pinpoint but can be due to trauma or injury to the brain before, during, or shortly after birth. Cerebral Palsy is a lifelong disease without a cure, but it is non-progressive, meaning that the symptoms do not get worse over time. There are several options for therapy and treatments for the cerebral palsy patient.

One cerebral palsy therapy that has seen some measure of success is called hyperbaric oxygen therapy (HBOT) treatments. HBOT has long been used in treating scuba divers for the “bends,” a potentially life-threatening event caused by ascending to the surface too quickly. More recently, hyperbaric oxygen therapy has seen results in treating cerebral palsy sufferers.

During the treatment the patient enters a tank, either individually sized or group sized. The tanks usually have comfortable seating, and sometimes even television or radio. In the tank, the patient breathes 100% oxygen under pressure. Normal outside air usually only contains about 20% oxygen. This type of therapy is seen as infusing oxygen into the blood and organs, causing a regeneration and enhancement of certain tissues, organs, and bone structures.
Hyperbaric oxygen treatment is only given by prescription. Both the American Medical Association and the Food and Drug Administration approve HBOT. Many insurance companies cover all or some of the costs for hyperbaric oxygen treatment. Hyperbaric oxygen treatment is often part of a therapy combination treatment. Overall, treatments often depend on the particular manifestation of a person’s cerebral palsy and can include HBOT, physical therapy, medication, adaptive equipment, surgeries, and other elements.

The treatment consists of heightening pressure in the environment depending on which type of disease or illness is to be treated. In general, hyperbaric oxygen treatment for cerebral palsy relies on the severity of the pressure, duration of the time spent in the chamber, and the frequency of visits needed. Side effects are very slight and rare, and the patient can leave immediately following HBOT. The patient can also wear their own comfortable clothes and often there are things they can do to relax during treatment, like read or watch television.

In cerebral palsy patients, HBO can reduce pressure and swelling in the brain. Hyperbaric oxygen therapy can also detoxify substances and blood in the brain and the body and can encourage the regeneration of damaged or dead blood vessels.

Cerebral palsy is an unfortunate neurological condition affecting more and more people that can cause developmental disabilities. It usually occurs in children while in the womb, up to age three. Like many other conditions, such as autism, cerebral palsy is usually very stagnant, not getting better or worse on its own over time. This makes it very frustrating to deal with, and very discouraging when one is trying to find a cure. The term "cerebral palsy" is not a specific diagnosis, but is now generally applied to children who experience some forms of brain trauma either at the time of birth or shortly before. Typically, these children manifest some degree of cognitive impairment as well as physical impairment, often with weakness and spasticity of arms and legs. Typically treatment for children with cerebral palsy has been directed at the physical manifestations of the underlying problem. Most efforts are directed at increasing the ranges of motion, reducing spasticity, and increasing strength, along with specific therapies designed to enhance communication skills and academic performance.

But luckily, some people have found the magic in hyperbaric oxygen chambers.

We already know that hyperbaric oxygen chamber treatment (HBOT) can assist many diseases and disorders, as well as helping those who may just want to be a little healthier. In a hyperbaric chamber, pure oxygen is pressurized higher than normal atmospheric pressure, so oxygen enters the bloodstream and bodily tissues more easily. The connection between cerebral palsy and hyperbaric chambers is in the way the concentrated oxygen reduces excess fluid and swelling in the brain.

CONTACT US
Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
The area of the brain affected by palsy is the cerebrum, which controls physical movement, so people with cerebral palsy often have very limited motor skills. Experts believe that the use of hyperbaric chambers for cerebral palsy is beneficial because the oxygen treatment can restore cells to the brain, possibly helping patients regain the ability to function normally.

Evidence from other countries is now providing strong support for the use of hyperbaric oxygen therapy to improve the underlying problem in children with cerebral palsy. Hyperbaric oxygen actually targets the abnormalities of brain function. This offers an exciting new approach for treatment.

Studies show that the effectiveness of hyperbaric oxygen therapy in children with cerebral palsy is linked to its enhancing the function of previously damaged neurons (brain/nerve cells). These neurons have been called “idling neurons” in that while they are still alive, they have been damaged to the extent that their function is compromised. Hyperbaric oxygen facilitates the restoration of these damaged neurons which improves brain function and the nervous system. The use of hyperbaric oxygen to help children with cerebral palsy is becoming more widespread in the United States.

In studies conducted on the effectiveness of hyperbaric chambers on cerebral palsy, the HBOT lasted longer and were more successful in restoring motor function skills. Two trials were conducted around 2001 that found that the two groups of children with cerebral palsy who were studied were more positively affected by the hyperbaric chambers. Though some view the reports as controversial, the children did seem to be helped much more with HBOT than with other methods of therapy that were tried.

This success hasn’t just been for patients of cerebral palsy; athletes, patients with autism, some who had had a stroke, and others who suffer from various wounds have been helped by hyperbaric chambers. And not only are the results universal, but these chambers can be accessible to almost anyone. While some chambers are made for more than one person and are very heavy, others are completely portable and can be used in your own home. It’s also possible to rent the units for a period of time, instead of having to buy one or use one intermittently. This will give better results as well, since the treatments will be more consistent.

As with any type of treatment for an illness, whether used at home or a professional atmosphere, please consult your doctor before you or a loved one with cerebral palsy begins HBOT. He will be able to give you a schedule with the hyperbaric chamber that is best for you and your condition. And, who knows—perhaps he will make an example out of your success story!

CONTACT US
Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
Chapter 3  Effective Use Of Hyperbaric Oxygen Therapy For Healing Of Wounds

Life is brought into sharp relief when you or a loved one suffers from an injury that will take longer than usual to heal. These chronic wounds include ulcers and diabetic wounds, which are all extremely difficult to get rid of and frustrating to live with for a long time.

Oxygen is one of the most versatile and powerful agents available to the modern medical practitioner. The therapeutic use of oxygen under pressure is known as hyperbaric oxygen therapy (HBO₂) and has been used to assist wound healing for almost 40 years. HBO₂ has several specific biological actions which can enhance wound healing processes. Hyper-oxygenation of tissue, vasoconstriction, down regulation of inflammatory cytokines, up-regulation of growth factors, antibacterial effects, potentiation of antibiotics, and leukocyte effects of HBO₂ are discussed in relation to wound healing problems.
There are also some problematic wounds which fail to respond to established medical and surgical management. Such wounds usually develop in patients with multiple local and systemic factors contributing to poor tissue healing. These include diabetic foot ulcers, compromised amputation sites, vascular insufficiency ulcers (ulcers with poor circulation) and non-healing traumatic wounds. All share the common problem of tissue hypoxia (low tissue oxygen levels), usually related to impaired circulation.

Diabetic foot wounds are one of the major complications of diabetes and an excellent example of the type of complicated wound which can be treated with hyperbaric oxygen. Many diabetics have impaired arterial circulation in their feet and have great difficulty with wound healing of foot ulcers.

Hyperbaric oxygen is a powerful treatment for acute and chronic wounds, acting on injured and healing tissue in a number of ways. Hypoxic tissue, reperfusion injury, compartment syndrome, crush injury, failing flaps, chronic wounds, burns and necrotising infections have all been shown to respond favourably to HBO₂. As we learn more about how HBO₂ benefits wounds by up-regulating growth factors, down regulating cytokines, reducing oedema, and supporting angiogenesis and new tissue ingrowth, the potential benefits to wound healing become clearer.

More and more people have been finding that hyperbaric chambers are a healing relief for wounds. The elevation in tissue oxygenation which occurs in the hyperbaric chamber induces significant changes in the wound repair process that promote healing. When the hyperbaric chamber is used in conjunction with standard wound care, improved results have been demonstrated in the healing of difficult or limb threatening wounds.

You have already seen that hyperbaric oxygen therapy chambers work wonders on those with developmental illnesses such as cerebral palsy and autism, as well as other afflictions like Lyme disease and diabetes. And now, anyone with any sort of wound is using them. Athletes like football player Darren Sharper and cyclist Lance Armstrong have used the chamber to achieve an ideal level of fitness as well as to heal sports injuries. Sharper was first introduced to the chamber for healing a knee injury; the hyperbaric oxygen therapy (HBOT) was successful in healing the injury, and Sharper has used it ever since.

The chamber’s HBOT works internally by supplying more oxygen to the body’s plasma and blood, so that they are carrying more oxygen to the tissue and muscle. Oxygen is what helps heal torn or ruptured tissue, so when there is an abundance of it, the body can use more of it to heal more quickly. Also, oxygen in the cells is usually used to help fight bad bacteria, which means that when there is more of it, injuries and wounds are less likely to develop an infection. People with diabetes are sometimes likely to have poor circulation, so the added oxygen creates adequate levels for healing wounds, especially those that are a side effect of diabetes, such as foot wounds.

If the wound is such that it bleeds and causes excess blood loss, it can it turn
cause hemorrhage. When the body loses too much blood, it can result in seizures, unconsciousness, and even brain damage. Just as they are used for autism and cerebral palsy, hyperbaric chambers can be used for brain damage caused by hemorrhaging. However, with any wound, especially chronic wounds, action should be taken as soon as possible to prevent such events.

Some chambers are perfect for targeting specific wounded areas, such as on a particular limb. These chambers are smaller and can enclose only that limb. They are easier to travel with and use at home, though there are full-size chambers that are available for home use. Others at hospitals or clinics may be large enough to hold up to four people at a time. Wherever you decide to begin treatments with a hyperbaric chamber for wounds, please consult a doctor first to make sure this method will be the best solution for you.

The beneficial effects of HBOT do not end here. It can also be successfully used to help diabetic patients as you will discover in the next chapter.

According to the American Diabetes Association, diabetes is a disease in which the body does is not able to produce or properly use insulin. Insulin is a hormone that are bodies need to converts sugar, starches and other food into energy that we need for daily life. Although both genetics and environmental factors such as obesity and lack of exercise appear to play a role in having diabetes, the cause of diabetes continues to be a mystery.

There are about 23.6 million children and adults in the United States or 7.8% of the population who suffer from diabetes. While there are an estimated 17.9 million who have been diagnosed of diabetes, there are also 5.7 million people who are unaware that they have diabetes.

An example of how diabetes affects our bodies is diabetic foot wounds. Individuals who have diabetes suffer circulatory disorders that create inadequate levels of oxygen to support the healing of wounds. These wounds present major complications for modern health care and especially with the foot as it is a common site of infection. In Canada, there is an estimated 25% Canadians with diabetes who develop foot complications and 1 in 15 end up having a limb amputation during their lifetime.
Regardless of the type, diabetes is a frustrating and inconvenient disease to live with. But the complications can be extremely detrimental, and some are even fatal. Some of these symptoms are kidney and heart disease, nerve disease, blindness, impotence, and diabetic neuropathy. Under the worst conditions, some patients even have lower limbs amputated.

Is diabetes a hopeless case? What could help in the cure for diabetes and wound healing? The answer to the first question is that diabetes is not a hopeless case, the answer to the second would be oxygen. This therapeutic use of oxygen under pressure is called hyperbaric oxygen chamber therapy (HBOT) and in the following paragraphs are its specific biological actions which can enhance diabetes and wound healing.

Internal wounds to the organs are most helped by hyperbaric oxygen therapy (HBOT). HBOT replenishes the oxygen supply in the blood, so that the blood and plasma can carry more blood to the muscles and organs. Oxygen can heal almost any kind of wound by building up healthy new tissue at the wound site, and the pressurized oxygen inters the body to do just that. Some “topical” hyperbaric chambers are so small that they are meant to concentrate the pressurized oxygen on only one limb; others are traditional and meant for the patient to climb in, but are portable and can be used in the patient’s own home; others can only be used at a hospital, and some of these can accommodate up to four people at a time.

With increased oxygen levels, blood vessels function better as well. This, along with faster-healing tissue, is beneficial for a diabetic patient because some people are at risk for irradiated tissue and skin graft or flap compromise. Hyperbaric chambers also enable diabetics to be much less subject to infection of the tissue or wounds, which in turn makes any further complications much less likely. Infections can occur from street drugs or surgery, and people with diabetes are more susceptible because of weakened antibodies.

Results from tests on the reaction of diabetic patients with foot ulcers to hyperbaric chambers were very positive; the therapy was given for two weeks, and during that time the rate of healing was significantly improved. Hyperbaric chambers may also help diabetics with hypoglycemia, a common side effect that occurs when there is not enough glucose in the blood. Because the blood cannot deliver enough glucose to the brain, hypoglycemia can result in temporary unconsciousness or seizures. If these persist, a patient could suffer brain damage.

But hyperbaric chambers have been found to help people with autism and cerebral palsy, so why not those who have lasting brain damage from hypoglycemia? Most sources also say that HBOT can regulate blood flow in the cerebrum, which is weakened in patients with diabetes.

If left untreated for too long, diabetes and its connected complications can worsen and even be linked to subsequent stroke. However, hyperbaric oxygen therapy has been able to prevent stroke and even significantly help people recovering from stroke. Though anyone interested in using a hyperbaric chamber for diabetes and any other ailment is encouraged to consult a doctor first, most hard studies have shown that the therapy is helpful in any stage of a disease.

HBOT can be used successfully in hypoxic or ischemic wounds such as diabetic wounds, venous static ulcers, failing flaps and grafts, refractory osteomyelitis and necrotising soft tissue infections. In wound healing, hypoxia delivers an insufficient supply of oxygen which prevents normal healing processes.

HBOT combats clinical infection such as gas gangrene by directly acting on the anaerobic bacteria, enhancing leukocyte and macrophage activity while potentiating the effects of antibiotics.

CONTACT US
Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
HBOT provides the oxygen needed to support and stimulate wound healing. HBOT is safe, non-invasive and a non-toxic therapy.

HBOT is also very much accessible. Single bag hyperbaric chambers are sold at $12,900 and double bag chambers are at $16,900. Single bag hyperbaric chambers can also be rented at $2,000 a month and $2,675 for double bag chambers. Both hyperbaric bag chambers measure over 34 inches in diameter and 105 inches long. These chambers can easily fit both adult and child at the same time.

Thus, we can see how versatile Hyperbaric Oxygen Therapy is! Read on to find out how much more it can do!

Chapter 5 The Wonders HBOT Can Work On Lymes Disease

The amazing benefits of Hyperbaric chambers extend to Lyme disease too.

Like many serious diseases, Lyme disease causes an oxygen deficiency. One very distressing symptom is often called "air hunger," and it can make you feel like a fish out of water. No matter how deeply you breathe, you just can't seem to get enough air.

Increasing the available oxygen is a must for healing. Any sort of exercise that increases your oxygen intake seems to be invaluable for beating Lyme, and most of the people who are healing or healed from Lyme engage regularly in physical exercise, activities ranging from brisk walking, running to swimming and vigorous biking.

Some people use Hyperbaric Oxygen Therapy as an adjunctive Lyme treatment. HBOT administers oxygen at high atmospheric pressure, saturating the body with oxygen and increasing the total available amount. To receive a treatment, you climb into a chamber where pure oxygen is delivered at three times the normal atmospheric pressure.

Among US doctors, HBOT is controversial, although it has been commonly used for many years to treat burns, injuries from car accidents, carbon monoxide poisoning, smoke inhalation and other sorts of trauma. It has also proven valuable in treating people with AIDS and HIV, and others who suffer from opportunistic infections resulting from immuno-suppression.
HBOT is widely used in Europe and other countries to treat people suffering with multiple sclerosis, those who are recovering from strokes, and people suffering from drug and alcohol addiction. Although HBOT is still controversial in the US, it is gaining acceptance and used by conventional and alternative doctors.

Lyme disease may not be as mysterious as some other long-term diseases, but in some cases it can be just as heartbreaking to live with and just as difficult to treat. It is carried by ticks, making anyone susceptible; the symptoms vary and usually worsen over time. In the past few decades, Lyme disease has spread and has increased in incidence some ten fold. Lyme infection may produce muscle and joint pain, immune system dysfunction, nervous system abnormalities, cardiac problems, and fever.

Sometimes, if aggressive antibiotic therapy is initiated early in the course of the illness, successful treatment can be achieved. Unfortunately, many patients do not adequately respond to antibiotic therapy. And, because Lyme Disease can mimic other conditions, it may take a long time before it is correctly diagnosed. Many people become essentially incapacitated by this illness.

WATCH VIDEO ON ONE WOMAN’S STRUGGLE WITH LYME'S DISEASE

There is now research showing the efficacy of hyperbaric oxygen therapy, offering hope to patients crippled by chronic Lyme disease. Dr. William Fife at Texas A & M University has published extensive research demonstrating profound improvements in Lyme disease patients treated with HBOT. These improvements include pain reduction, return of clarity of the mind, and reduction of depression.

One woman, Julie Payne, has become a kind of spokeswoman for the healing power of hyperbaric oxygen treatment (HBOT). She has said that she had Lyme disease for about two years before she even knew anything about

CONTACT US
Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
Some common symptoms for people with Lyme disease are weakened immune system, fever, fatigue, depression, and a unique skin rash. These usually help doctors to diagnose the disease, but occasionally it isn’t so distinguishable. But left untreated, Lyme disease patients can have worsening or recurring symptoms. Some people with the disease have gone on regimented antibiotic schedules for months or years and then declared cured, only to have a relapse a short time later. For various reasons, doctors may not specifically recommend hyperbaric chambers for Lyme disease, but it’s becoming very clear that they can be a tried-and-true cure.

Patients can lie comfortably in a home hyperbaric oxygen chamber while the capsule becomes pressurized with pure oxygen. This replenishes the oxygen in red blood cells, making it easier for these cells to carry the oxygen to the body’s tissue and organs. The plasma can also carry the increased oxygen in the body. This makes the treatment very effective for healing bodily wounds as well as internal functioning. This makes hyperbaric chambers useful for Lyme disease as well as for cerebral palsy and some autism patients.

The length of the individual treatments and the duration of the overall hyperbaric treatment differ with each person. Julie Payne had only experienced three treatments before the doctors informed her that the HBOT was working, and only eleven before she felt a complete turnaround herself. She said that her senses were heightened, she felt more energetic and less lethargic, and she was healthier in general. She never thought that after having to live so long with Lyme disease, the hyperbaric chamber would deliver such amazing results.

Though there are many success stories like this, no clinical studies have yet been conducted. However, HBOT is becoming more popular and understood among doctors, so they are more likely to recommend it. Like those who have to live with autism or cerebral palsy, many patients of Lyme disease and their families have started to believe that there is no cure; however, hyperbaric oxygen chambers are proving them wrong!
Chapter 6  Hyperbaric Oxygen Chambers Are Healing And Can Prevent Stroke

Some say that the loss of memory and brain function caused by the experience of having a stroke is akin to what happens to the brain in cases of near drowning. This connection has been quite lucky, medically speaking, because from it we have discerned that hyperbaric oxygen chambers may be used for stroke victims.

In fact, the first hyperbaric chambers were used by navies and diving organizations, so that people might get used to living on less oxygen and have a method of treatment that would work in case anything went wrong. Today, there are many people besides those who have had a stroke who also use hyperbaric chambers. Patients with autism and cerebral palsy, diabetics, and even athletes are seeing positive results from hyperbaric chambers.

Hyperbaric oxygen treatment (HBOT) works by pressurizing the chamber with pure oxygen, much more concentrated than the approximately 20% that we breathe in normally pressurized conditions. The oxygen supply in red blood cells and plasma is replenished, maximizing the amount of oxygen these can carry to muscles and tissue. Oxygen tends to heal injured tissue and organs in the body, restoring internal health. It also leads to better brain function by reducing swelling in the brain and removing excess fluids, making hyperbaric chambers ideal for stroke patients.

Stroke is said to be caused by lack of blood flowing to the brain, which can be in turn due to thrombosis, which is blood clotting due to a lack of oxygen in the blood. Treatments in hyperbaric chambers can reinstate healthy levels of oxygen in the blood, which can help stroke victims recover and, if a patient is susceptible to stroke, prevent it. Stroke may also be caused by air embolism, which can be the migration of gas or air bubbles in the body blocking the flow of blood. In a hyperbaric chamber, this air gets converted to oxygen and dispersed throughout the blood, making air embolism much less likely.
As you read earlier, cases of patients of neurological disorders like cerebral palsy and autism, who have been diagnosed with an unlikely recovery, have also found relief from hyperbaric chambers. After just a short period of time, children with autism had better communication skills, and children with cerebral palsy had better balance and more speaking abilities. Luckily, more is known about stroke than either of these developmental disabilities, so experts can make more connections in the benefits of hyperbaric chambers for stroke victims.

A case in point is this testimony from Marge H.

“My husband suffered strokes in August 2006 that resulted in total loss of short-term memory, slurred speech, and difficulty walking. The doctors said he may never recover, and if he did it would take at least two years. Now, after only two months of hyperbaric therapy his memory is back and his speech and walking are normal. His energy has improved.”

Conditions that harm the brain have a wide reach. Whether from a stroke (vascular accident) or a traumatic brain injury, the results impair the whole family.

The loss, or potential loss, of hopes, dreams, and expected joys and accomplishments is a loss suffered by all of those who care.

Hyperbaric Oxygen Therapy is not a cure . . . but it can often help.

Even though science now knows better, the “old-school” idea still often remains: that once an area of the brain has been damaged by a stroke, TBI (traumatic brain injury), or near drowning, that nothing or very little can be done to restore the function of that area.

Recent scientific research has demonstrated that while the core-area of the damaged brain tissue may be irreversibly damaged, there is an area surrounding this tissue that hyperbaric oxygen therapy can restore and these neurons (brain/nerve cells) can re-establish their function.

The majority of stroke and brain injuries are caused by blood vessel obstructions, such as a blood clot, that cuts off blood flow and oxygen to parts of the brain. This results in the death of nerve cells within a very short time. These dying brain cells begin to swell due to their cell walls breaking down, allowing fluid to move into the cells. As these cells swell, they begin to expand into the surrounding tissues. This causes constriction of the
blood vessels in the surrounding tissues, which then causes a lack of oxygen to these previously normal cells. These surrounding cells then begin to swell as well. This gradually increasing, damaged, hypoxic tissue surrounding the original injury is called the "ischemic penumbra," and contributes up to 85% of the disability resulting from a stroke. The cells in this secondary area have the potential of being restored to near-normal, and sometimes normal function.

The neuroscientist Dr. Cyril B. Courville wrote, "crippled nerve cells may persist in the margins of wounds of the brain for many years." Astrup, Siesjo and Symon suggested that within these damaged margins, idling neurons are present. They are metabolically lethargic and are non-functional, because of low oxygen levels and secondary damage. But they remain viable and are subject to being revived with hyperbaric oxygen therapy.

Proof of this dormant life of the brain’s cells has been demonstrated with the use of SPECT brain scans done before and after a series of hyperbaric oxygen therapy. In the journal Stroke, Dr. Richard Neubauer, a pioneer in the use of this therapy for treating various neurological diseases, reported outstanding results in a group of 122 stroke patients treated with HBOT. In one case, significant functional improvement was noted when Hyperbaric Oxygen Therapy was used 14 years after the initial stroke.

These studies by Dr. Richard Neubauer conclusively demonstrate the development of new blood vessels to the rim of tissue surrounding the area of the brain that had been damaged. These newly formed blood vessels resulting from the hyperbaric oxygen therapy can then bring fresh blood (oxygen) and nutrients to the damaged tissue. The tissue begins to repair itself and returns to normal or near-normal. These "resuscitated" neurons gradually reconnect to the rest of the brain. These revived neurons and their connections help to return the use of lost cerebral and bodily functions.

Hyperbaric therapy does not resurrect dead brain tissue, but it can facilitate the functioning of those dormant, idling nerve cells that have suffered secondary damage by stroke due to diminished oxygen. Oftentimes, the brain area suffering secondary damage is a larger part of the brain than that which suffered the primary damage. This area of secondary damage to the brain (the ischemic penumbra) is the area that HBOT helps.

Improvements have been achieved, gains have been made, even with patients who are more than a decade post-stroke. Day after day, patients are overcoming the bleak forecasts about recovery from their stroke or traumatic brain injury, using Hyperbaric Oxygen Therapy

HBOT is an excellent solution for you or your loved one who has had a stroke. Please talk to your doctor before acquiring your own hyperbaric chamber or beginning treatments to make sure it is right for you. Then witness the result and see the difference a hyperbaric oxygen chamber makes for someone who has had a stroke or is at risk.

CONTACT US
Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
Chapter 7  Athletes Use Portable Hyperbaric Oxygen Chambers for Fast Fitness Results

Now athletes too have started using Hyperbaric Oxygen Therapy for fast fitness results. As portable hyperbaric oxygen chambers get a better reputation in the medical world, they also are being more widely used for those who simply want to be more healthy or fit. Athletes who have access to the chambers have made hyperbaric oxygen therapy (HBOT) a sort of trend.
Pro football star Darren Sharper has his own chamber and uses it in his own home. His is portable, so he is able to take it along on his travels. The set includes the foldable, zip-up chamber and an attached generator that pumps pure oxygen into it. Sharper has said that he uses it daily for between two and three hours and feels better because of it, more relaxed and more rested each morning. The athlete first used the hyperbaric chamber because of a knee injury, and has continued the HBOT ever since.

Hyperbaric therapy increases the ability of red blood cells and plasma to carry oxygen to the tissue in the body, healing any ruptures or tears and generally restoring the body to excellent condition very quickly. After time, muscle can be repaired and the brain will function better. Some athletes also use the hyperbaric chamber as an alternative to altitude training or blood replacement.

Lance Armstrong, the seven-time Tour de France winner who recently made a comeback and placed third in another Tour, has also used a portable hyperbaric oxygen chamber. Many cyclists train at higher altitudes, where there is less oxygen, so that the body feels like it has more than enough at regular elevations. Sometimes this makes an athlete’s lung capacity greater, as well as simply enabling the red blood cells to carry more oxygen. Other athletes get blood taken out of their body and train with this deficiency, so that the body is used to working with less blood and oxygen, then get the blood replaced before a race or game. There are medications that replenish the oxygen supply in the blood, but these drugs are banned from most events, and hyperbaric chambers remain one of the most effective and well-regarded methods for athletic training.

Armstrong’s career has been fraught with battles against cancer, but though doctors have experimented with hyperbaric chambers for cancer treatment, most experts agree that Armstrong was using the chamber for athletic reasons. It is already clear that HBOT has delivered positive results for patients of strokes, autism, cerebral palsy, and many other diseases and afflictions. Not all doctors are ready to endorse HBOT in all cases, just because its effects could be different for any patient. But as its success rate climbs higher and higher, doctors are more readily recommending it for patients with diseases as well as athletes and anyone interested.
Here is a list of athletes and sports professionals who own, use, or have used portable hyperbaric chambers.

**Portable Hyperbaric Chamber & Professional Athletes**

**That use it**

Have you heard about the healing benefits of Portable Hyperbaric Oxygen Chambers. What about how Portable oxygen chambers speed up recovery from injuries, enhances athletic performance, relieves fatigue, and has potent anti-aging benefits. However, you’ve not yet purchased your own portable hyperbaric chamber. The portable hyperbaric chambers are perfect for use in training camp or at home.

**PROFESSIONAL ATHLETES:**

These athletes and sports professionals own, use, or have used portable hyperbaric chambers.

**BASEBALL**

Brian Jordan, Atlanta Braves  
John Smoltz, Atlanta Braves  
J.D. Drew, Boston Red Sox  
Jimmy Rollins, Philadelphia Phillies  
Ryan Klesco, San Diego Padres

**BASKETBALL**

**CONTACT US**
Balanced Health Today  
http://www.BalancedHealthToday.com  
info@BalancedHealthToday.com  
888.277.4980
Nick Anderson, Memphis Grizzlies
Kendall Gill, Milwaukee Bucks
Charlie Ward, Houston Rockets, '93 Heisman Trophy Winner

BICYCLING

Lance Armstrong, Tour de France Winner

BODYBUILDING

Roc Shabazz, Professional Bodybuilder
Tammy Leady, Women's Fitness Pro

BOXING

Evander Holyfield, Boxer

CONTACT US
Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
FOOTBALL

Eric Beverly, Atlanta Falcons
Keion Carpenter, Atlanta Falcons
Ed Hartwell, Atlanta Falcons
Michael Vick, Atlanta Falcons
Todd Weiner, Atlanta Falcons
Dan Morgan, Carolina Panthers
Bryan Robinson, Cincinnati Bengals
Kenny Watson, Cincinnati Bengals
Madieu Williams, Cincinnati Bengals
Kevin Burnett, Dallas Cowboys
Terrell Owens, Dallas Cowboys
Kalimba Edwards, Detroit Lions
Dexter McClean, Kansas City Chiefs
Zach Thomas, Miami Dolphins
Gibril Wilson, New York Giants
Plaxico Burress, New York Giants
Jeremy Shockey, New York Giants
Bill Flowers, Ole Miss
Brian Westbrook, Philadelphia Eagles
Verron Hayes, Pittsburgh Steelers
Travis Hall, San Francisco 49ers Tony Parrish, San Francisco 49ers
Jamie Winborn, San Francisco 49ers Jerome Pathon, Seattle Seahawks
Farris, Washington Redskins Rod Gardner, Washington Redskins
Shawn Springs, Washington Redskins
Derrick Tinsley, University of Tennessee
Karon Riley, Former Atlanta Falcon
Jimmy Brumbaugh, Former GA Force player
Michael Lawson, Former GA Force player
Trace Armstrong, Former NFL Player
Bill Romanowski, Former NFL Player

HOCKEY

CONTACT US
Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
Garnet Exelby, Atlanta Thrashers Mario Lemieux, Pittsburgh Penguins Yannick Tremblay, Former Atlanta Thrasher

**RACING**

John Sipple, Palmer Chiropractic

**TRACK**

Sharon Seagrave, Olympic Runner
Karen Shinkins, Olympic Runner

**COACHES: FOOTBALL**

Bobby Lankford, U. of Georgia Coach, former NFL Coach
Tim Adams, Former Oakland Raiders Coach Robert Lyles, Former GA Force Coach

**HOCKEY**

Brad McCrimmon, Atlanta Thrashers Coach, former NHL Player
Greg Stathis, Georgia Tech Ice Hockey Coach

**SOCCER**

Iggy Moleka, Atlanta Silverbacks Coach

**OTHER SPORTS PROFESSIONALS:**

**FITNESS CENTER**

Loren Seagrave, Velocity Sports Performance

---

**CONTACT US**

Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
The hyperbaric chamber could be perfect for you as an athlete, or just as someone who wants to maximize well being.

Chapter 8  Now There Is Hope For Alzheimer’s With Hyperbaric Oxygen Therapy

Hyperbaric oxygen therapy or HBOT is a painless procedure in which patients are exposed to increased pressure, allowing greater absorption of oxygen throughout body tissues that will result in many healing and therapeutic effects. It floods oxygen in areas in our body where it is oxygen starved thereby stimulating regeneration and cell growth.

HBOT is a US FDA approved treatment for 13 indications and is now widely used in the USA, UK and China. It is used for the treatment of neurological disorders like Cerebral Palsy, Autism, Stroke, Alzheimer's disease, ADD/ADHD, immune dysfunction, spinal cord injury, anoxic brain injury, near drowning and other off-label indications.

HBOT started out as a medical treatment to speed up and enhance the body's natural ability to heal. Today it is now an approved modality that is most often used as an enhancement therapy for wide variety of medical conditions. It is a non-invasive method. It uses 100% oxygen under increased atmospheric pressure in a controlled hyperbaric chamber.

Alzheimer's disease, Senile Dementia of the Alzheimer Type (SDAT) or simply known as Alzheimer's, is the most common form of dementia. This incurable, degenerative and terminal disease was first described by German psychiatrist and neuropathologist Alois Alzheimer in 1906 and was named after him. Generally it is diagnosed in
people over 65 years of age, although the less-prevalent early-onset Alzheimer’s can occur much earlier. An estimated 26.6 million people worldwide had Alzheimer's in 2006; this number may quadruple by 2050.

At present, there is no definitive evidence to support that any particular measure is effective in preventing Alzheimer’s. Global studies of measures to prevent or delay the onset of Alzheimer’s have often produced inconsistent results. However, epidemiological studies have proposed relationships between certain modifiable factors, such as diet, cardiovascular risk, pharmaceutical products, or intellectual activities among others, and a population's likelihood of developing Alzheimer’s.

But now there is hope for this dreadful disease too. No one would want the number of people suffering from Alzheimer’s to quadruple in 2050. And HBOT maybe the answer to make those numbers dwindle.

Chapter 9  Hyperbaric Chambers and PTSD Disorder

INTERPRETATION OF HARCH JOURNAL OF NEUROTRAUMA STUDY ON HBOT IN VETERANS WITH BLAST-INDUCED TBI AND PTSD

Fri, 12/02/2011 - 18:33 | Edward Lucarini

INTERPRETATION OF HARCH JOURNAL OF NEUROTRAUMA STUDY ON HBOT IN VETERANS WITH BLAST-INDUCED TBI AND PTSD
Ground-Breaking Study on Treatment of U.S. War Veterans with TBI and PTSD Published

On November 22, 2011 the long-awaited preliminary results of the LSU Pilot Trial of hyperbaric oxygen therapy in chronic blast-induced mild-moderate traumatic brain injury (TBI)/post-concussion syndrome (PCS) and post-traumatic stress disorder (PTSD) were published online. And, the results are stunning. The article appears in the prestigious peer-reviewed Journal of Neurotrauma as a Fast Track article under the Open Access Option at: liebertonline.com. The study, originally designed to test safety and feasibility, reinforced the historical safety and feasibility of the protocol, but at the same time significantly improved the veterans, their disabling symptoms, and quality of life.

The study was conducted by Dr. Paul G. Harch and colleagues at LSU School of Medicine New Orleans, the University of North Dakota School of Medicine, and the University of California, Irvine, School of Medicine and Amen Clinics. Sixteen active duty and retired U.S. veterans were treated with hyperbaric oxygen therapy nearly three years after brain injuries and PTSD caused by improvised explosive device (IED) and rocket-propelled grenade explosions. All of the veterans had been diagnosed by military and/or civilian specialists with PCS and PTSD before coming to New Orleans to enter the study. These diagnoses were confirmed by the study authors before treatment. All veterans were significantly affected by a variety of classic PCS and PTSD symptoms and had abnormal neurological exams and cognitive testing.

After forty low pressure hyperbaric oxygen treatments in one month the veterans achieved substantial improvements in symptoms, physical exams, cognitive testing, quality of life, and brain blood flow. The veterans achieved a nearly 15 point increase in IQ which is equivalent to the change from the average IQ of a clerical worker or construction worker to the IQ level of a college instructor or engineer. The magnitude of this increase, along with the significant improvements in short term memory, attention/concentration, and executive function was far greater than has been demonstrated in placebo controlled studies or in studies that documented improvements due to short-interval test/retest effects. These cognitive gains also strongly suggested the ability of these and similarly treated veterans to return to college level education or achieve higher salary employment.

The veterans also experienced a marked reduction in post-concussion symptoms, including headaches, the primary marker of blast-induced TBI, that was reflected in significant improvements in quality of life. Simultaneously, the veterans experienced an average 50% reduction in depression symptoms. Depression has been identified as one of the top veteran mental health afflictions in the Rand Report of 2008. Suicidal ideation was also significantly reduced in the study veterans and nearly two-thirds of the veterans on psychoactive medications were able to reduce or discontinue their doses of these medications. Off-label use of FDA blackbox labeled psychoactive medications in veterans with PCS and PTSD has been implicated by NPR/ProPublica in the record suicide rate in veterans. Total deaths from suicides have now exceeded combat deaths. The reduction in depression and suicidality in the Harch study has major implication for this suicide epidemic.

The symptomatic and cognitive findings in the study were fortified and made more compelling by the functional brain imaging performed on the veterans. Dr. Harch and colleagues used high resolution SPECT brain blood flow imaging before and after the first hyperbaric treatment (The Neubauer Effect, pioneered by Richard
Neubauer: Lancet, 1990) to test the effect of a single HBOT to predict symptomatic and blood flow improvements after a course of HBOT. The imaging was independently submitted for analysis to a researcher at the University of North Dakota School of Medicine (Dr. Fogarty) and psychiatrist and SPECT expert Dr. Daniel Amen and colleagues (Amen Clinics). Using two different methods of analysis Dr. Harch and colleagues were able to demonstrate significant improvements in brain blood flow after one and 40 HBOTs. The improvement in brain blood flow after the first HBOT involved a shift in the pattern of blood flow that Dr. Harch had used visually for 22 years to predict patients who would improve with repetitive HBOT. Drs. Harch and Fogarty were able to show that this visual pattern shift translated to a statistically significant mathematical change in the blood flow pattern. The researchers were able to also show that the areas of brain with improved blood flow after one treatment overlapped with the areas that showed improvement after 40 HBOTs (the Neubauer Effect).

Most importantly, the imaging analysis was able to prove that the blood flow improvements, and derivatively cognitive improvements, could not be explained by a placebo effect. In SPECT brain imaging placebo studies at most five areas of the brain have been identified to be responsible for placebo effects. After the first HBOT over 85 areas of the veterans’ brains showed highly significant increases in blood flow. After 40 HBOTs additional areas of the brain showed significant improvements in blood flow. These widespread improvements are consistent with the diffuse nature of traumatic brain injury and the known reparative effects of HBOT on chronic wounds. The findings obviated the need for a control group.

The researchers further demonstrated the specific targeting of HBOT to injured areas of brain with highly sophisticated computer techniques. The hippocampus is well known as the region of the brain responsible for short-term memory. It is the first area of the brain injured in a variety of different types of brain injury. Using advanced computerized imaging and statistical parametric mapping Dr. Amen and Derek Taylor, data analyst, were able to anatomic separately the hippocampus from the rest of the brain. In pictures produced in the journal article the researchers were able to show that the hippocampus demonstrated significant improvements in blood flow after the first HBOT with even greater improvements after 40 HBOTs consistent with the significant improvements in memory.

Importantly, the findings in the study duplicated the 22 year concentrated experience of Dr. Harch in the hyperbaric treatment of neurological conditions. This experience was reinforced by the application of the same veterans dose at 1.5 ATA (atmospheres absolute) in an animal model of chronic traumatic brain injury (Brain Research, 2007, www.sciencedirect.com/science/article/pii/S0006899307015612). Dr. Harch and colleagues were able to show an improvement in spatial learning and memory and increased blood vessel density in the injured hippocampus. This animal proof of HBOT in chronic TBI was the first improvement in chronic animal brain injury in science. The findings are nearly identical to the improvements in memory and blood flow in the current veteran TBI study.

The dose of HBOT 1.5 ATA (atmospheres absolute) was first identified by German researchers in acute brain injury, later pioneered by Dr. Richard Neubauer in chronic brain injury, and refined by Drs. Harch, Van Meter, and Gottlieb in sequential 40 treatment blocks for multiple chronic neurological conditions. Beginning in early 2008 Dr. Harch applied this dose to veterans with blast-induced brain injury. The first application to combined PCS and PTSD was published in 2009 by Dr. Harch in BioMed Central’s Cases Journal (http://www.casesjournal.com/content/2/1/6538).
The surprising finding was the unexpected improvement in PTSD which was manifest by the 25th HBOT. In the current study the veterans experienced a 30% reduction in PTSD symptoms in one month, a rate of change not seen in PTSD studies with standard of care therapies.

In summary, Dr. Harch and colleagues have shown with just 16 U.S. veterans that HBOT 1.5 is safe, feasible, and remarkably effective in treating the chronic effects of mild blast-induced TBI and PTSD. Headaches, post-concussion symptoms, abnormal neurological exam findings, cognition, quality of life, and brain blood flow were significantly improved after a one month course of HBOT. At six month phone follow-up the great majority of veterans sustained their symptomatic improvements. Many of the veterans sought additional HBOT for further improvement. In comparison to standard of care treatments the Harch study argues strongly for the immediate application of HBOT 1.5 to the hundreds of thousands of veterans with persistent post-concussion syndrome with or without post-traumatic stress disorder.
Chapter 10
Pricing, Warranty & Contact Information

WARRANTY

All chambers are guaranteed to be free from defects in materials or workmanship for one year from the date of delivery. Within this period, the manufacturer, in its sole discretion, repair or replace the camera or components that are not functioning properly. These repairs and customers will be responsible for transportation costs for the manufacturer in Minnesota, or your nearest international. This warranty does not cover failures due to abuse, misuse, accident or unauthorized alterations or repairs.

The warranties and remedies contained herein are exclusive and in lieu of all other warranties, where expressed, implied or statutory, including any liability arising under any warranty of merchantability or fitness for a particular purpose, legal or otherwise. This warranty gives you specific legal rights, which vary from state to state. In no event will the manufacturer be liable for incidental, special, indirect or consequential damages resulting from the use, misuse or inability to use the product, or product defects. Some states do not allow the exclusion of incidental or consequential damages, so the above limitations may not apply to you.

The manufacturer reserves the exclusive right to repair or replace the product or offer a full refund of the purchase price at its sole discretion. Such appeal shall be your sole and exclusive remedy for breach of warranty. Note: Repairs have a 90 day warranty. If the unit is still sent in the original warranty, then the new warranty is 90 days or until the end of the original one-year warranty, whichever is greater.

We offer a one year warranty on parts and labor which is extensible. With hyperbaric chambers there is a money back refund 7 days on all cameras, depending on the circumstances. You pay shipping back to installation using our courier.

Extended Warranties

<table>
<thead>
<tr>
<th>Model</th>
<th>Additional One Year</th>
<th>Additional 2 Years</th>
<th>Additional 5 Years</th>
</tr>
</thead>
<tbody>
<tr>
<td>23” Chamber</td>
<td>$350</td>
<td>$450</td>
<td>$650</td>
</tr>
<tr>
<td>28” Chamber</td>
<td>$450</td>
<td>$550</td>
<td>$850</td>
</tr>
<tr>
<td>28” Military Chamber</td>
<td>$350</td>
<td>$450</td>
<td>$650</td>
</tr>
<tr>
<td>40” Grand Chamber</td>
<td>$650</td>
<td>$750</td>
<td>$950</td>
</tr>
<tr>
<td>46” Vertical Chamber</td>
<td>$450</td>
<td>$550</td>
<td>$850</td>
</tr>
<tr>
<td>60” Vertical Chamber</td>
<td>$750</td>
<td>$850</td>
<td>$1200</td>
</tr>
</tbody>
</table>

CONTACT US
Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
Oxygen is our life-force. Nothing can survive on our Earth without oxygen. Hyperbaric Oxygen Therapy harnesses this amazing power and healing properties of oxygen with fantastic results. As you have seen, it can work wonders for a lot of different diseases and ailments. It is also convenient and easy to administer and you even have the choice of home treatment. So join the oxygen revolution and try this groundbreaking new treatment!

This safe and painless therapy helps to accelerate healing, reduce swelling and inflammation, detoxify your body of harmful toxins and increase production of vital stem cells. It can just be used to improve your overall general health too. All in all a win-win situation!

Chambers To Choose From

Click on the Picture to Go To the Detailed Page

Free Shipping on all chambers w/in the USA

<table>
<thead>
<tr>
<th>Chamber Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>23” inch Chamber</td>
<td>$5,495.00</td>
</tr>
<tr>
<td>28” Chamber</td>
<td>$9,495.00</td>
</tr>
<tr>
<td>28” Military Chamber</td>
<td>$5,495.00</td>
</tr>
<tr>
<td>40 inch Chamber</td>
<td>$14,995.00</td>
</tr>
<tr>
<td>40 inch Vertical</td>
<td>$9,995.00</td>
</tr>
<tr>
<td>60 inch Vertical</td>
<td>$13,995.00</td>
</tr>
</tbody>
</table>

CONTACT US
Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
CONTACT INFORMATION
Balanced Health Today
355 Hukililke Street (Suite 206)
Kahului, Hi 96732

http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
Paul Fitzgerald: 888.277.4980
Chapter 11
How The Chamber Works

Videos on how the chamber works.
Click on the following pictures to watch the video.

Hyperbaric Chambers Overview Video
https://vimeo.com/33229484

…More Videos Follow…
Shallow Dive 23 Inch Training Video
https://vimeo.com/33987359

Military Dive 28 Inch Promo Video
https://vimeo.com/36526523

CONTACT US
Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
Hyperbaric Chamber Wheel Chair Video
https://vimeo.com/68237188

Grand Dive 40 Inch Promo Video
https://vimeo.com/34008083

CONTACT US
Balanced Health Today
http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
888.277.4980
Feel free to contact us to learn more about Hyperbaric Chambers.

CONTACT US
Balanced Health Today
355 Hukililke Street (Suite 206)
Kahului, Hi 96732

http://www.BalancedHealthToday.com
info@BalancedHealthToday.com
Paul Fitzgerald: 888.277.4980