

Guillermou

A report of great interest for multiple pathologies. HBOT can be useful in infections, it has antimicrobial activity and upregulates HIF that induces the expression of nitric oxide synthase and virus-killing peptides (defensins and cathelicidins). HBOT could also be applied in the regulation of inflammatory responses and their derived complications. Among the immunomodulatory effects, HBOT could be used in a wide variety of conditions that present an altered immune system as part of their pathogenesis, such as the management of autoimmune diseases. The use of HBOT has also shown its efficacy in rheumatoid arthritis to other inflammatory conditions. For example, HBOT provides an anti-inflammatory response in colitis.

Through direct effects on HIF, HBOT induces expression of antioxidants and downregulation of proinflammatory cytokines such as IL-6, thereby reducing the inflammation of the colon HBOT could be considered an interesting alternative to attenuate the inflammation and the exercise-induced muscle growth. HBOT has been proposed as an adjunct to clinical practice in critically ill patients, and also for recovery after SARS-CoV-2 infection. Results from clinical trials have already demonstrated the potential uses of this therapy to redirect hypoxemic-prevented O₂ diffusion and its ability to remove inflammatory cytokines.

However, not only hyperbaric O₂ can be useful for seriously ill patients, but also to treat the so-called "silent" hypoxemia in those patients who do not yet have a poor clinical course. Accumulating evidence supports a role for HBOT in inhibiting tumor growth, by three main mechanisms: (1) limiting cancer-associated hypoxia, (2) through ROS generation, and (3) restoring immune function. Current research shows the promising role of HBOT in a wide variety of malignancies, including breast cancer, prostate cancer, head and neck cancer, colorectal cancer, leukemia, brain tumors, neck cancer uterine and bladder cancer.

Guillermou

Different studies have shown the importance of this procedure as a prophylactic approach to sequester the inflammation inherent to stroke and head trauma, preventing neuronal death. The use of HBOT could potentially be extended to novel fields such as ageing, the effect of hyperbaric oxygen in preventing telomere shortening, and immunosenescence by killing senescent immune cells. In Figure 2, the main consequences of HBOT and its related hyperoxemia and hyperoxia in the human body could be related to potentiation of angiogenesis, antimicrobial properties, and immunomodulatory effects. Possible contraindications and side effects are also mentioned.

www.mdpi.com/.../htm (2021)

Fibromyalgia syndrome is a persistent and debilitating disorder that is estimated to affect the quality of life of 2 to 4% of the population, with an incidence ratio of 9:1 between women and men. FMS is the second most common disorder, after osteoarthritis, seen by rheumatologists. a persistent disorder with symptoms that have a devastating effect on people's lives, with difficulties in maintaining normal relationships with family, friends and employers. These limitations can lead to the onset of anxiety and depression in many FMS patients. HBOT appears to be feasible and safe for people with FM. Many physical and/or emotional stressors can trigger or aggravate symptoms. These have included certain infections, such as a viral illness or Lyme disease, as well as emotional or physical trauma

Posted On 04/24/2022

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HBOT can initiate vascular repair mechanism and improve cerebral vascular flow, induce axonal white matter regeneration, stimulate axonal growth, promote blood-brain barrier integrity, and reduce inflammatory reactions and cerebral edema. At the cellular level, HBOT can improve cellular metabolism, reduce apoptosis, alleviate oxidative stress, and increase levels of neurotrophins and nitric oxide through improved mitochondrial function in both neurons and glial cells, and can even promote neurogenesis of endogenous neural stem cells. It is also associated with improved global functioning, reduced symptoms of anxiety and depression, and better quality of sleep that was maintained at the 3-month follow-up assessment.

Furthermore, it shows that HBOT can induce neuroplasticity and significantly rectify abnormal brain activity in pain-related areas of FMS patients. HBOT in patients with fibromyalgia significantly improves pain and fatigue management, as well as other aspects of the disease, such as quality of life. journals.plos.org/plosone/article?id=10.1371/journal.pone.0127012&.. (2015)
oxfordrecoverycenter.com/wp-content/uploads/2021/11/HBOT-and-Fibromyal.. (2020)
academic.oup.com/painmedicine/article-abstract/22/6/1324/6140166?login.. (2021)
www.spandidos-publications.com/.../wasj.2021.107 (2021)

Posted On 04/24/2022

juststeve

Having known several people who suffered bladder cancer who were treated by introducing, if the memory is working, tuberculosis in the bladder to kill the cancer. People and family had to be told watch out for TB. I would expect all would have preferred this treatment to have been used instead.

Posted On 04/24/2022

plastictekkie

My late wife, never a smoker, was diagnosed with stage IV lung cancer and given 6 weeks to live. IV Vitamin C (50 GRAMS = 50,000mg!) followed by HBOT an hour later helped turn that 6 weeks into nearly 8 years. 7 consecutive days on Vit C + HBOT reduced the tumors by 50% in volume. The small ones disappeared from the cat scans. Local docs were astounded. But we could not get anybody to use the same treatment locally, or she might still be around today. The cancer stayed dormant for a year and a half, no side effects, and quality of life was great.

When the cancer started growing again, the "Professionals" told us we could not repeat the same therapy since the cancer had now learned how to live with it. In hindsight, I think they lied. Several series of chemos nearly killed her. But then we again "bucked the system", and traveled 2000 miles to repeat the Vit C + HBOT for another week. Results were even better the second time around. When it did eventually start to grow again, chemo treatments made her too sick to travel back for another round, and she perished.

Posted On 04/24/2022

Alldogsgotoheaven

A few years ago I had a little dog who was very sick and was diagnosed with liver cancer. The vet could not get her liver values down. With my vet's blessing I tried hyperbaric oxygen treatment. I drove her for 10 days about a 200 mile round trip for treatment and then we had a few days break and then did a few more treatments. Her liver values dropped dramatically. The HBOT treatments and a keto diet designed for her and she lived about 4 or 5 more happy years and died very old. It was not a cure but it sure did give her quality of life back.

Posted On 04/24/2022

maltesefalcon

My dog was mauled by a pit bull. Massive injuries, especially to her face/head area. She went in for hyperbaric oxygen treatments. Brought her home one evening after a treatment and the inflammation around her eyes was gone. She was in treatments for 4 days and it saved her life. The healing was amazing.

Posted On 04/24/2022

JohnJohn20

Anti-parasitic drugs like ivermectin and fenbendazole cure cancer in dogs and people. Go to NHI PubMed website and type in the keywords ivermectin and cancer. Then type in fenbendazole and cancer. You will find a lot of abstracts that prove that these drugs and other anti-parasitic drugs cure cancer. The pharmacology companies have known this for a long time but have managed to keep this information suppressed. Go to YouTube and type in the name Joe Tippens and listen to his testimony.

Posted On 05/08/2022

Pete.Smith

This month a mother asked several times for help in the dr. Mercola comments, because her son had some brain damage after drowning. But sadly nobody answered her. Maybe this HBOT can help her son as it seems to improve brains after Traumatic Brain Injury and even Alzheimers. If anyone knows her, please contact her. She should read this article: Oxygen and hyperbaric oxygen therapy reverses brain damage in drowned toddler. www.sciencedaily.com/.../170717110422.htm (2017) Louisiana State University Health Sciences Center. Summary: Medical researchers report the case of the reversal of brain volume loss in a 2-year-old drowning victim unresponsive to all stimuli treated with normobaric oxygen (oxygen at sea level) and hyperbaric oxygen therapy.

Posted On 04/24/2022

Guillermou

Thanks Pete. Wish said mother a recovery from the traumatic drowning injury of her beloved son. Traumatic injuries can lead to other diseases such as diabetes and Alzheimer's. This study demonstrated the ability of HBOT preconditioning as a treatment for inflammation in stroke and traumatic brain injury, with transfer of mitochondria from astrocytes to reduce cell death. Along with the discussion of the study, this review also focuses on different treatments for stroke compared to HBOT. Studies have shown that HBOT can minimize neurological deterioration caused by stroke by increasing oxygen delivery and thus reducing ischemic injury.

HBO preconditioning has also been found to have direct and indirect effects on mitochondria that can result in activation of adenosine monophosphate 5'-activated protein kinase (AMPK), a major regulator of cellular metabolism. Changes in the activity of post-translational modifiers, SIRT1 and SIRT5, also contribute to general adaptive processes in cellular metabolism and mitochondrial function. Along with HBO, normobaric oxygen (NBO) therapy has been explored. HBOT can be an alternative method to other treatments for traumatic brain injury and stroke, such as invasive procedures such as cell transplants.

Astrocytic mitochondrial transfer to neurons acts as a mechanism of HBOT to provide protection against inflammation. www.ncbi.nlm.nih.gov/.../PMC6785945 (2019)

www.ncbi.nlm.nih.gov/.../PMC6126241 (2018) This review recommends the use of HBOT for the treatment of AD. This review explores future directions and recommends further research on a treatment protocol that will maintain the long-term cognitive health of AD patients.

content.iospress.com/articles/journal-of-alzheimers-disease/jad210157 (2021)

Posted On 04/24/2022

Guillermou

19 FACTORS THAT MAY INCREASE NEUROGENESIS NATURALLY selfhacked.com/.../ways-increase-neurogenesis (2019) . Neurogenic substances investigated include: Curcumin, Apigenin. Blueberry Ginseng. Resveratrol. Theanine. Coffee. Ashwaganda. Astaxanthin. Ginkgo biloba . A combination of blueberries, green tea, and carnosine was found to have neuritogenic and regenerative effects on stem cells in an animal model of neurodegenerative disease www.ncbi.nlm.nih.gov/.../PMC3014764 (2010). Turmeric is an example of a remyelinating compound, denoting a substance with proven nerve regenerating effects.

Both in vitro and in vivo data suggest that ar-turmerone induces NSC proliferation. Ar-turmerone therefore constitutes a promising candidate to support regeneration in neurological disease.

AROMATIC-TURMERONE INDUCES NEURAL STEM CELL PROLIFERATION IN VITRO AND IN VIVO

stemcellres.biomedcentral.com/articles/10.1186/scrt500?_hstc=63458864.. (2014) CURRY

POWER: TURMERIC COMPOUND BOOSTS GROWTH OF BRAIN'S STEM CELLS

www.newsweek.com/turmeric-compound-boosts-growth-brains-stem-cells-273.. (2016)

TURMERIC LINK TO BRAIN CELL REPAIR timesofmalta.com/articles/view/Turmeric-link-to-brain-cell-repair.5376.. (2014) TURMERIC HELPS YOUR BRAIN HEAL ITSELF: SPICE UP YOUR BRAIN POWER

WITH CURRY www.medicaldaily.com/turmeric-helps-your-brain-heal-itself-spice-your-.. (2014) The

researchers determined that Ginkgo is effective, in part, due to its ability to modulate neural stem cells (NSCs) into the type of cell that is needed in the specific region of the brain where BDNF proteins are active. pubmed.ncbi.nlm.nih.gov/25822771 (2015)

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Acetyl-L-carnitine-arginate is a patented form of carnitine that stimulates neurite growth in the brain.* Studies show that acetyl-L-carnitine-arginate stimulates new neurite growth by an astonishing 19.5% (as much as Nerve's own growth factor). Acetyl-L-carnitine-arginate works together with acetyl-L-carnitine to increase neurite outgrowth. Acetyl-L-carnitine alone stimulates neurite outgrowth after 5 days by 5.6%. Acetyl-L-carnitine-arginate, on the other hand, stimulates neurite outgrowth over the same time period by 19.5%... a more than threefold increase! www.lifeextension.com/.../acetyl (2022) The researchers found that taurine increased brain cell growth by activating "sleeping" stem cells.

Taurine also increased the survival of new neurons, which resulted in an increase in the creation of adult brain cells. Recent studies reveal that taurine has unique biochemical properties that promote the formation of new brain cells. www.lifeextension.com/.../grow-new-brain-cells (2016).. COGNITIVE DECLINE & MILD COGNITIVE IMPAIRMENT www.lifeextension.com/protocols/neurological/age-related-cognitive-dec.. (2022) ALZHEIMER'S DISEASE www.lifeextension.com/protocols/neurological/alzheimers-disease (2021)

Posted On 04/24/2022

Pete.Smith

Thanks Skupe and prof Gui . Yes, BDNF is also helpful for the brain, it plays a significant role in neurogenesis, BDNF is made from Sulforaphane, using the precursor glucoraphanin, found cruciferous vegetables like broccoli, kale, cabbage, cauliflower, Brussels sprouts, and watercress. Cut it half hour before cooking to activate the sulforaphane. The highest levels can be found in Broccoli sprouts. You can blend them with juice as the cutting (chewing) is important. Sulforaphane enhances neuronal BDNF expression and increases levels of neuronal and synaptic molecules pubmed.ncbi.nlm.nih.gov/27735126 (2017) BDNF levels naturally decline as you get older.

It is also in depression. 21 Ways to Increase BDNF for a Supercharged Brain naturalife.org/.../increase-bdnf Neurotrophins are a group of compounds that regulate brain growth, development, and repair. One of the most well-researched of these neurotrophins are BDNF (Brain Derived Neurotrophic Factor) which many scientists call "fertilizer for the brain". BDNF regulates the growth, protection, maintenance, and repair of neurons in our brain. More ways to get BDNF is going into the sun, and Curcumin, see also <https://feedabrain.com/bdnf/>

Gui, you talk about astrocytes, interesting is some autism spectrum disorder symptoms are linked to astrocytes. A recent study writes: Astrocyte abnormalities may be responsible for repetitive behavior or memory deficits, but not other symptoms like difficulties with social interactions." www.sciencedaily.com/.../220421141557.htm Brain astrocytes are also linked to Alzheimer's disease in this 2017 study, that writes: Astrocytes are important brain cells, as they support neurons in many different ways. Astrocytes are responsible, for example, for the energy production of the brain, ion and pH balance, and they regulate synapse formation, the connections between neurons. www.sciencedaily.com/.../171117103740.htm

Posted On 04/24/2022

forbiddenhealing

Very nice to see studies and this expansion on HBOT! One may also look at the factors leading upto acidic hypoxia and ultimately cancers. Cellular suffocation starts with electrolyte mineral imbalances (Mg/K/Na/bicarbonate), membranes built on damaged PUFAS/veg oils, excess sugar, metals, toxins, poor breathing habits, emotional stress, sedentary lifestyles, etc.etc. Vitamin C levels play a major role in HIF 1 where cells turn to anaerobic fermentation and angiogenesis to survive. While HBOT is pricey and not widely available; there are options. Skin/scuba/hookah diving provide air under pressure for increased O2 saturation and a form of EWOT (exercise while on oxygen therapy).

Hyperventilation/breath holding practices are at the heart of QuiGong, yoga and Wim Hof Iceman (see youtubes) breathwork providing that extreme pH swing between alkalosis and acidosis..Megadosing Vitamin C and the regular use of baking soda and ACV, metal detox and meditative/recreational stress reduction. Nebulizing H2O2 alternating with NAC improves lung function. Like a pool-shark, one must work all the angles! I wrote this post over 7yrs ago; "It's Always the Oxygen." greenmedinfo.com/.../its-always-oxygenreally ...or... zx4.bc9.myftpupload.com/forum-comments

Posted On 04/24/2022

Guillermou

Great link Randall. Oxygen is life. Oxygen is important to the human body. Cell survival and operations are dependent on oxygen. When the body becomes hypoxic, it affects organs, tissues, and cells and can cause irreversible damage. The internal environment of the body also became hypoxic due to some diseases (such as cancer, some lung diseases, etc.), even COVID-19). In addition to the disease itself, this hypoxia can also lead to changes in the gut microbiota. The clinical treatment of hypoxia focuses on improving the anoxic condition and increasing the oxygen saturation of the blood.

Under hypoxia, cells produce a transcriptional activator known as hypoxia-inducible factor 1 (HIF-1), HIF expression can help to keep the internal environment of cells and tissues stable under hypoxic conditions, to adapt to the state of hypoxia When the human body suffers, the intestinal barrier is the first affected. Some conditional pathogens have a chance to grow rapidly. These anaerobic bacteria destroy the intestinal microecological barrier, alter the intestinal microbiota and ultimately lead to systemic inflammation. Evidence shows that intestinal microecology plays an important role when the human body becomes hypoxic.

The intestinal microbial ecosystem can affect vascular physiology and even determine the degree of myocardial infarction. Imbalances in the gut microbiota reduce immune defenses in the respiratory tract, making it easier for respiratory viruses to invade the body. And patients with intestinal diseases are considered to be at high risk for SARS-CoV-2 infection. Dysbiosis causes inflammation and intestinal barrier, as well as damage to the blood-brain barrier. Neuromodulators of the dysbiotic gut can affect the central nervous system or the peripheral chemoreceptors of the carotid body causing silent hypoxia.

Posted On 04/24/2022

Guillermou

In most lung diseases, the oxygen saturation in the blood decreases as the lung disease worsens. In severe cases of COVID-19, people have shortness of breath, their lungs are damaged, and the oxygen saturation in the blood falls between 70 and 80% and below 50% in some cases. The lungs are severely damaged, and a lack of oxygen can damage other organs, such as the heart, kidneys, intestines, and brain, and then quickly turn into respiratory failure. Blood oxygen saturation in the body is decreased, the hypoxic phenotype is evident, and patients with new coronary artery disease experience respiratory distress. The gut microbial ecosystems of critically ill COVID-19 patients are disordered and prone to secondary infections.

Studies have shown that respiratory viral infections may be related to changes in the gut microbiota, making patients prone to secondary bacterial infections. Patients often die from secondary bacterial infections rather than from viral infection. In treating COVID-19 patients, intestinal microecological balance must be considered and intestinal bacteria must be adjusted to maintain homeostasis. The gut microbiota is vital in the lungs' defenses against respiratory infections. These strategies could include the use of SCFA-producing probiotics and prebiotics, such as high-fiber diets.

These procedures could strengthen the ability of the gut microbiota to proactively arm the immune system and also protect the microbiota against disturbances associated with viral infections. The alteration of the intestinal microbiota not only participates in intestinal disorders but also favors systemic damage and bacterial superinfections Superinfections. www.frontiersin.org/.../full (2021) www.sciencedirect.com/.../S246886732100081X (2021) link.springer.com/.../s00415-020-10067-3 (2021) www.nature.com/.../s41385-020-00361-8 (2021)

Posted On 04/24/2022

Guillermou

Anemia also causes poor oxygenation of organs and tissues. Compared with controls, individuals with pernicious anemia (vitamin B12 deficiency) were found to have an increased risk of non-cardiac gastric adenocarcinoma (OR, 2.18) and gastric carcinoid tumors (OR, 11.43). Additionally, people with pernicious anemia are at increased risk of developing tonsil cancer (OR, 2.00), hypopharyngeal cancer (OR, 1.92), squamous cell carcinoma of the esophagus (OR, 2.12), cancer small intestine (OR, 1.63), liver cancer (OR, 1.49), myeloma (OR, 1.55), acute myeloid leukemia (OR, 1.6) and myelodysplastic syndrome (OR, 2.87). www.sciencedirect.com/science/article/abs/pii/S1542356515007909 (2015)

Iron deficiency anemia patients have been found to have a longer hospital stay, along with a greater number of adverse events. Iron deficiency anemia (IDA) is a universal health problem and a risk factor for the development of cancer. IDA changes the microenvironment of the human body by affecting both the biological and the immune systems. It increases DNA damage and genomic instability by different mechanisms. IDA is one of the main causes of the imbalance between the different antioxidant enzymes, as well as the enzymes involved in DNA damage and the body's DNA repair systems. May affect microRNA biogenesis / expression. IDA disrupts the oxidative phosphorylation energy metabolism and intestinal cytochrome P450 systems.

www.tandfonline.com/.../01635581.2018.1460685 (2017) www.statpearls.com/.../23767 (2020)

Posted On 04/24/2022

forbiddenhealing

Thanks Gui as always...How medicine can overlook the essential symbiotic relationship in all animals boggles the mind. Not only wide strain probiotics, prebiotic fibers and starches, and dietary considerations should be primary standards of practice...virtually ignored by conventional healthcare. Since many pathogens are primitive and anaerobic, more O₂! makes perfect sense as do courses of oregano oil to knock them off. A diet rich in antioxidant polyphenols and mineral electrolytes is critical to maintain an oxygen friendly charge terrain and viable voltage...particularly in mitochondria. When O₂ meet acidic H⁺ you get water/not ATPs where ROS and lactic acid abound and do damage to all cell structures including DNA and telomeres. I posted a summation of the problem last week;

www.lewrockwell.com/.../doctor-doctor-mr-m-d

Posted On 04/24/2022

Capt: I concur with Gui and Barbara. Your comments are full of solid information & good links that help us avoid the modern medical web. The mention of scuba diving as a substitute for HBOT is valuable. It is inexpensive & easily available. All that is required is a body of water or deep swimming pool & scuba equipment which can be rented. I do not know what depth of water would be the equivalent of the pressure in a hyperbaric chamber, but it is not hard to calculate. There are diving clubs and /or shops everywhere that can provide services. For a novice of any age and ability a certified and experienced instructor can be provided to aid and calm. Anxiety and panic is the greatest danger when in deep water.

We all float. Aqua Tutus, water safety, in Latin is a non profit club. I got my dive instructor card, PADI, in 1980. They teach with volunteers so you get good instruction and have two experienced divers with you at all times. It is located in the East Bay aquatutus.org/content.aspx Related to your emphasis on vitamin C, one of its benefits is that at high oral doses of 3-4 g, 1 tsp, it acts like an antihistamine. If I don't take a teaspoon of vitamin C before diving, I can't equalize the pressure in my ears so can not go below about 12 ft. It also works for hay fever.

When I start sneezing from pollen, a dose of vitamin C powder stops the attack in its tracks. I buffer the sourness with glycine which is mildly sweet and helps counteract the damage of glyphosate. If you can do your diving in the ocean it is even better because, as Capt says we are bags of ocean. All 60 or so of the essential minerals are there. We absorb those minerals through our skin and I assume the pressure helps. I think the skin is a better moderator of dose than the gut, especially our Roundup ravaged guts. I have not heard of anyone getting diarrhea from lying in a supersaturated solution of MgSO4 in an isolation tank. Studies would be nice.

Posted On 04/24/2022

axkershaw

As you may or may not know Fidel Castro was a world class deep breath diver as well as a regular scuba diver. Quite possibly the high pressure oxygen environment he provided his body may have helped him survive the many poisoning attempts on his life. I wonder if he was aware of the benefits. I know Cuba treated with ocean therapy upwards of 40,000 children from Belarus and Ukraine after the Chernobyl disaster. Nuclear fission produces many radioisotopes of the essential minerals the body uses, such as cobalt, cesium, iodine, strontium and others. When they decay they are inside the cell so that energy creates much more damage than radiation from outside the body. Children are much more susceptible than adults. Ocean therapy has been known since antiquity. The Greeks and Romans had heated sea water pools. It was called Thalassotherapy

Posted On 04/24/2022

forbiddenhealing

axkershaw...@ 33 ft deep you are at 2 atmospheres pressure, so at only 16.5 ft you are at 1.5 atm..like a soft HBOT chamber....Though I'd spent 4-6 hrs/day at 6-15 ft exercised on hookah, I felt even better free diving to 20 ft..hyperventilation followed by breath hold just like Iceman, but with strenuous swimming. Pure oxygen can also be dangerous they say, so unless critically ill I would opt for diving or Iceman Wim Hof sets of 30 breaths. I also know of late stage cancer patients, though doing HBOT twice a week, remained terminal...On the other hand Joe Namath reversed his brain trauma at a Jupiter FL clinic after 140 "dives" and now does medicare help commercials every ten minutes!

Posted On 04/24/2022

JohnJohn20

Research ivermectin and fenbendazole to cure cancer.

Posted On 05/08/2022

forbiddenhealing

As important as growth factors attributed to hypoxia/growth-antioxidant stimulation factors is the buildup of CO2 after hyperoxygenation/alkalization...the pH swing from bicarbonate to carbonic acid provokes RBC to release that oxygen...the essence of hyperventilation followed by breath hold as with snorkeling or Iceman breathing exercises and a vote for baking soda...Gotta try it to believe it.

Posted On 05/08/2022

TheodoraBruin

I said this should have been used about two years ago, in the very beginning of covid, and no one took me seriously because I wasn't in the medical profession. I even mentioned it to a couple of doctors, who pretty much brushed me off and then said it would be too expensive. You can even buy your own for not that much money or insurance could cover it. A hospital certainly could have gotten one easily.

Posted On 04/24/2022

skupe59

Don't forget that doctors and hospitals in every country were already paid off to keep covid a secret from the world. Even if they could agree, they wouldn't. The two doctors I mentioned in my comment above have their own holistic centers, make their own rules and would never follow the gov't line.

Posted On 04/24/2022

Guillermou

Yes, HBOT has been proposed as an adjunct to clinical practice in critically ill patients, and also for recovery after SARS-CoV-2 infection. Results from clinical trials have already demonstrated the potential uses of this therapy to redirect hypoxemic-prevented O₂ diffusion and its ability to remove inflammatory cytokines. Not only hyperbaric O₂ can be useful for seriously ill patients, but also to treat the so-called "silent" hypoxemia in those patients who do not yet have a poor clinical course. www.mdpi.com/.../htm (2021)

Posted On 04/24/2022

meehan2661

I have to agree skupe. I have had the pleasure of witnessing what Hbot does to the body. My wife is currently being treated in Clearwater. The miracles of oxygen. Patients show up in walker or wheelchair and in a few weeks start to heal. He is a Godsend. The main stream would never allow this amazing treatment to be covered by insurance.(other than few already) No drugs just oxygen. I think hbot has been under the radar far too long. A quick local search just revealed a hbot 7 day clinic opened in VENICE AREA. WE as a consumer have to take control. This amazing clinic in Clearwater has opened my eyes to other treatments we are missing.

Posted On 04/24/2022

lin3741

Yes skupe, especially since they were being PAID to KILL PEOPLE, nevermind do ANYTHING to God forbid, try an actually HELP or SAVE someone. Nope, not if they cd make a dime off killing them. SICK! And those who had a hand in that WILL PAY.

Posted On 04/24/2022

MMaster

I had POA for a man who had a stroke. I tried to get HBOT for him, but it was impossible. Because he had to pay for it himself, and didn't have any money, HBOT was delayed for a year and a half. Even then, there was some improvement. He had use of his arm and hand but not fingers to begin with, but he began to regain the use of his fingers. It is CRIMINAL what they do to stroke patients, which actually DEPRIVES them of oxygen. I have personally had 26 treatments, and found them very helpful. I was cautioned not to take anti-oxidants while I was undergoing treatment, and that I needed to make sure I didn't become dehydrated.

Another person I know has MS, and has been able to lead a normal life due to HBOT. The people I worked with give free treatments to military personnel. It is very good for healing trauma injuries and even PTSD. One technician had been hit in the head by the door of his HumVee. The severe brain damage was all healed, and he was restored to normal. Every VA hospital should have a chamber and it should be in continuous use. Please do what you can to promote the placement and use of hyperbaric oxygen chambers in all VA hospitals!

Posted On 04/24/2022

mourningwarbler

Yes. The insurance will cover all sorts of junk that allows doctors to chum off the patient, each predator treating him like a piece of carrion along the way. After that you might have attorneys helping. The plan isn't about helping the patient. Guardianships are supposed to protect assets of incapacitated, but they also end up chumming the assets along with attorneys and local county courts. What a wonderful thing that he has a real advocate looking out for him. Some spas have hyperbaric oxygen chambers. We need a hooyer, though, and the neurologist has that. Plus our daughter must be able to swallow upon command in order to equalize pressure so her ears are not harmed; might need tubes such as little kids get to ease ear infections.

Posted On 04/24/2022

MaryRN

Very interesting article, most people are aware that the percentage of Oxygen in the atmosphere has decreased over time, so this could be getting us back to where we started and the amount of Oxygen our ancestors breathed. MMC88121

Posted On 04/24/2022

janetr

I worked here in Australia for a Natural Therapy Clinic for several years and we had a Hyperbaric Oxygen Chamber. I saw it help a lot of people. I totally believe in them. Thank you Dr. Mercola for this great article.

Posted On 04/23/2022

iro5345

This was an excellent presentation! We had to drive 2 hours to take my daughter to a wound care facility to receive hypericoxygen therapy. She had the bends after scuba diving and spent 5 hours in the chamber. She is fine now, but it was quite a challenge finding a center with a hard hyperbaric chamber. I was going to buy a soft one, but talking to the seller I realized this was an emergency. Thank you again for this fabulous talk!

Posted On 04/25/2022

badboy2

Receiving hyperbaric oxygen therapy (HBOT) treatment beginning at a young age can reduce your risk for brain cancer. HBOT can also improve cognitive function in survivors of brain tumors.

Posted On 04/25/2022

333mary

I thank each of you for your incredible comments .My computer is so slow, doing a like takes forever. Please consider your posts liked and appreciated immensely Grateful today and every day.

Posted On 04/24/2022

TimeZone

Surprised it wasn't mentioned, but BFRT (blood-flow restricted training aka Kaatsu) that Dr. Mercola is also big on has many parallels with the hypoxia effect it creates with benefits such as VEGF (vascular endothelial growth factor), and BDNF (brain-derived neurotropic factor) are both stimulated. I have heard of it healing bones faster for instance. I'm not saying this is an exact replacement, but many of the same benefits to some extent might be possible by wearing these bands. It is certainly much cheaper and more available than HBOT and would be worth a try if you can't do HBOT or in addition to it.

Posted On 04/24/2022

lin3741

I always agreed w this. I believe if gyms/spas offered it people wd definitely take to it and it wd catch on even more. Even if it was extra expense. The problem is availability to the general public.

Posted On 04/24/2022

Suzicreamcheese

If this kind of research were better funded instead of the vast amounts of cash that flow towards chemical answers for health problems, the general populations health would be much improved. Life on this planet is used to utilising, vitamins, minerals, oxygen, nitrogen, chlorophyll, proteins, fats, etc. to be healthy. It is not used to the Aluminium used in vaccines, nor the chemicals released by car exhausts of which we breath so much. Life is not well adapted to the Mercury, also used in vaccines and which now exists in over abundance in fish. It is not used to the chemicals in the pesticides sprayed on food crops. Our poor bodies have been attacked by the effluence of the modern mono- culture farming and city life we have created.

More and more verifiable knowledge is revealing how much better is exercise and a well balanced organic diet at keeping us in the healthiest, happiest condition, yet the profiteering powers that be still erroneously promote GMO's, highly processed, pesticide infused foods and encourage convenience and speed over taking the time and trouble to prepare ones own meals and walking to the shops to get what one needs...rather they promote one getting delivered hot, highly over processed chemically infused fast foods...Sooo convenient...allows the powers that be to keep all the people with their noses to the 9to5 grindstone making sure there is no time to really relax or to do any intelligent thinking. Time for change.

Posted On 04/24/2022

lin3741

Exactly **100**. And don't forget big pharma loves it that way. More profitable to keep everyone literally SICK and TIRED and keep the kids stupid and CONFUSED instead of being able to THINK STRAIGHT they have them all stressed out, confused, and worried about all the wrong things. This way they can profit off the mental health problems that we are about to (and already) have a TIDAL WAVE of. Big pharm a bunch of nasty grubbers who care about no one

Posted On 04/24/2022

JohnJohn20

The only good news about world pollution is that the elites, super rich, politicians, and greedy shakers and movers have to breathe the same air that we do and eat the same food we do. These scumbags get to suffer too.

Posted On 05/08/2022

caws

John John 20, You really think so? Just one example is former Governor Sanford; who pushed really hard for GMO crops in GA, had his family eat nothing but organic. They all have super air filtration systems indoors and quite sure they all had access to the antidote to every one of the so called recent "pandemics". Not only that but most of them like GOv Kemp & Senator Kelly Loeffler got caught selling off all their hotel and restaurant stocks to invest in PPE and Vaccines a full month before the Covid thing was even announced. Most of the rest of congress have jumped on board .

Why else do you think they are still pushing masks and vaccines that don't work? Follow the money. I think the only reason we are not in a situation like Shanghai is that Americans all still have guns. I also think if they try to shut down businesses again they will be up against a hard wall. The rich have already destroyed our economy and poisoned those unfortunate enough to get the shot [allowing big pharma to sell them more drugs till they die]. Many business owners [50K so far] are forming "private clubs" that will keep out the regulators & cops and keep their doors open to members only and there is nothing the govt can do about it.

The rich are also manipulating the weather with chemtrails and HAARP. [along with the air force which has been bragging about this for 25 years]. Create enough drought ,floods or fires and you can buy up all the land cheap and drive the poor into the microwave laden smart cities where they will eat Soylent Green and not be allowed to hunt in the King's Forest. We WILL NOT BE ASSIMILATED BY THE BORG!

Posted On 05/08/2022

Shasha

I do ozone instead of hyperbaric. It is cheaper and no panic. Raising oxygen in the brain/body may help make stem cells and kill microorganisms.

Posted On 05/08/2022

joe6623

I also believe that normal pressure O2 should be used daily, especially as we age. O2 has documented benefits for multiple issues. Supplemental O2 can help improve blood function. It has none to minimal side effects. I believe it has not received enough attention as a super body function enhancement. Possible because it is very beneficial and not a high fostering of big pharma. Would enjoy Dr Mercola commenting on this.

Posted On 05/08/2022

Lewis_Coleman

Hyperbaric treatments could be made vastly more effective by adding small concentrations of carbon dioxide to the oxygen gas in the hyperbaric chamber. Here's why: the hemoglobin in red blood cells is normally 100% saturated with oxygen when blood leaves the lungs. This cannot be improved. Thus, the therapeutic potential of hyperbaric oxygen is essentially limited to superficial wounds and infections, where the tissues are directly exposed to the increased partial pressure of oxygen in the hyperbaric chamber. The hyperbaric oxygen cannot effectively penetrate to organs and tissues deep within the body. However, carbon dioxide releases oxygen from red cells into tissues and organs deep within the body, so that breathing gas mixtures supplemented with small amounts of carbon dioxide can increase the release of oxygen from red cells into tissues and organs deep within the body.

Thus carbon dioxide offers perhaps the most potent, practical, safe, efficient, and inexpensive medical treatment yet discovered. Most people would be astonished to learn that Carbogen, a therapeutic mixture of 95% oxygen and 5% carbon dioxide in a pressurized tank was widely used to treat heart attacks, strokes, drowning, smoke inhalation, carbon monoxide poisoning, asthma, atelectasis, pneumonia, alcohol inebriation, and newborn babies with breathing problems.

It saved countless lives. The outrageous story of how this invaluable treatment was driven from medical practice by cunning politics, along with a review of CO₂ chemistry, can be found in my published paper called "Four Forgotten Giants of Anesthesia History" (www.ommegaonline.org/article-details/Four-Forgotten-Giants-of-Anesthes..). The hyperbaric chamber should make Carbogen even more effective, because it would exaggerate the partial pressure of carbon dioxide in organs and tissues deep within the body and increase the delivery of oxygen in poorly perfused and poorly oxygenated organs and tissues.

Posted On 05/08/2022

Awakenings11

There treatments are wonderful and have used them. Again, a great healing modality, though a bit costly.

Posted On 05/08/2022

mourningwarbler

Hoping our daughter who suffered a severe TBI doesn't have to have tubes put in her ears; the neurologist office says it's an outpatient procedure with an ENT, so maybe not so dramatic as when little kids have this procedure. The medical & legal systems are so corrupt, it's like a couple more nightmares on a nightmare. She had an adjustment at an EPIC clinic in Clearwater, FL; they practice a sort of atlas orthogonal chiropractice; turns out the local neurologist who we were already hoping to take her to for his hyperbaric oxygen therapy, sends some of his patients to this EPIC clinic. We're praying for a miracle.

Posted On 04/24/2022

badboy2

Hospitals would be making a better investment in purchasing an oxygen therapy chamber, than mammogram equipment. An oxygen therapy chamber, can run around \$39K, but a small tropical fish pump, air hose, and air stone can cost a small pittance in comparison. Place the air stone in a glass of water and drink the aeriated water shortly after. Does it put air into the water, it keeps the fish from suffocating. Is it as good as oxygen therapy chamber; not by a long shot. Since the waters off the coast of Norway is loaded with plankton which makes the air higher in oxygen, (can actually cause some people to have headaches at first), might be a nice trip this time of year, and you can get a lot more oxygen. Deep breathing especially in the middle of a bamboo forest can get you more oxygen. I was surprised to read a long time ago that a bamboo forest will actually put out more oxygen than an evergreen forest.

Posted On 04/24/2022

grulla

"bb2", " Deep breathing especially in the middle of a bamboo forest can get you more oxygen" In a similar vein, on a far lesser scale, I have found out that running a small fan at night to indirectly circulate and dissipate CO2 buildup from around my head and face, provides me with a far better night's sleep.

Posted On 05/08/2022

yad40897

We used HBOT on my husband after his stroke, it was expensive because insurance don't cover it, sadly to say, we didn't notice any improvements.

Posted On 04/24/2022

MMaster

How quickly after the stroke did you start the treatment? It matters. Also, it needs to be accompanied by effective rehabilitation treatment, such as exercises. One of the things we did was electrical stimulation with a fancy TENS unit, with electrodes placed at either end of a muscle, for 20 minutes a day. This was very effective. It would seem that most rehab hospitals don't provide state of the art treatment. The treatment they did give enabled him to walk again, after experiencing hemiplegia, and in the end, he was able to walk 1/4 mile a day without even a cane.

It should be noted that in the ICU, he was NOT given protein for several days. Extra protein is an absolute MUST after stroke. In addition, they gave him multiple medications (behind our backs and against our will) that severely depleted his ability to breathe. They did a trach, and the irritation caused mucus and he got pneumonia. There are so many factors involved. But the most important thing is that HBOT needs to start IMMEDIATELY (as soon as the the patient can clear his ears).

Posted On 04/24/2022

yad40897

My husband stroke happened 11 years ago, one day after his 41 bday, the only thing he complaining about before the stroke was headaches, I wasn't with him when he had the stroke. His stroke was on a Monday, he went to work as usual, he called me after work and told me he will be late because he needed to get a part for his car, 3 hours later the hospital is calling me to tell me he had a stroke. He never drink or smoke, no high blood pressure or high cholesterol, after so much testing they couldn't say why he had the stroke, the "think" that maybe he had an artery blockage when he was younger for playing sports.

His stroke affected his right side, his speech is gone, he can't use his right arm and has a limp when walking. He developed pneumonia while in the hospital. After being discharged is when we took him to HBOT, he was taking lots of medication maybe that was a factor, but he had HBOT for 8 weeks, we paid around \$6,000, he was also doing therapy OT, PT, and speech. We were so hopeful he will gain movement or at least his speech but hasn't happened yet. :(

Posted On 04/24/2022

Shasha

Spirulina may help. Fish oil thins the blood and Vit C may help blood vessels be stronger. Blueberries/coconut flakes/lecithin/Zn/Mg/evening primrose oil/coenzymated B vitamins/coenzyme Q10/Selenium/rhodiola/Olive oil/Vit A/Vit E may help. No gluten/dairy/soy/sugar/GMO/food with a label/heated oils..taking vitamins/good oils/minerals...probiotic...LDN....and eventually detoxing may help. Hair test shows good mineral levels/heavy metals. Selenium/rhodiola/coenzymated B vitamins raise oxygen. No gluten may help heal the gut lining so more nutrients absorb...then cells are made right to work right to burn oxygen. Gluten is in wheat/barley/rye..oats/corn/rice. Rice is low in gluten. Wild rice has no gluten...is a grass.

Posted On 05/08/2022

sunflowerjanis

I had HBOT treatments to help with my hip injury. Although it was very helpful for pain relief and did help with my overall health; it did not fix my hip joint damage problem. After seeing this article, who knows; i may go and get some more of these treatments to help speed along healing of my THR. One does need to be careful with your ears and use an ointment that you can find from the store in the medical aisles.

Posted On 04/24/2022

MiMito5

I have been touting the use of HBOT for years. I am not a professional but I research extensively. I have a neurological condition/ movement disorder and would appreciate studies.

Posted On 04/24/2022

katzpaw

I noticed that Dr. Sonners said it created stem cells or accelerated their growth, so this could really be the fountain of youth, the answer for many diseases. I believe that the earth was once more densely infused with oxygen before the flood and that is why everyone lived so long and didn't die of diseases, due to the oxygen content of the air. Also, animals grew larger as well as a result of this and perhaps that is why there were giants ,which became giants after their birth. anyway, i am so glad there is more attention being given to this therapy as it will prove to be the answer to many, even cancer, since these pathogens cannot live in oxygen rich environments, thus the bad cells will die and the good ones flourish perhaps.

Posted On 04/24/2022

Guillermou

Accumulating evidence supports the role of HBOT in inhibiting tumor growth through three main mechanisms: (1) limiting cancer-associated hypoxia, (2) through ROS generation, and (3) restoring immune function. Current research shows the promising role of HBOT in a wide variety of malignancies, including breast cancer, prostate cancer, head and neck cancer, colorectal cancer, leukemia, brain tumors, neck cancer uterine and bladder cancer. The use of HBOT could potentially be extended to novel fields such as ageing, the effect of hyperbaric oxygen in preventing telomere shortening, and immunosenescence by killing senescent immune cells. In Figure 2, the main consequences of HBOT and its related hyperoxemia and hyperoxia in the human body could be related to potentiation of angiogenesis, antimicrobial properties, and immunomodulatory effects. Possible contraindications and side effects are also mentioned. www.mdpi.com/.../htm (2021)

Posted On 04/24/2022

Shasha

Michael Jackson wanted to do it daily after he got burned and always to stay young. Selenium/rhodiola etc raise oxygen. See my other comments.

Posted On 05/08/2022
