

Oxygenation Therapy

Bio-oxidative medicine is the addition of oxygen directly to the tissues of the body in the form of singlet oxygen (lone oxygen atoms) in a highly reactive state. Treatment methods include forcing extra oxygen gas (O₂) into the lungs under pressure (hyperbaric oxygen), mixing blood with ozone gas (O₃) and the intravenous infusion of liquid hydrogen peroxide (H₂O₂).

Bio-oxidative therapies are small amounts of diluted ozone and or hydrogen peroxide used in the body for the prevention and treatment of disease. Many of these therapies have been used by European physicians for over a century, however hydrogen peroxide therapy was developed in the United States primarily by Charles H. Farr, M.D., P.H.D. , of Oklahoma, a nominee for the 1993 Nobel prize in Medicine.

In the body, hydrogen peroxide is converted to water and singlet oxygen. This singlet oxygen located at the end of this reaction is a powerful oxidizing agent. It is the active agent in hydrogen peroxide therapy. Hydrogen peroxide is infused into the circulatory system through a vein in the arm. It drips in over a ninety-minute period.

The effect of singlet oxygen in the human body is twofold. The first is that **it kills, or severely inhibits the growth of, anaerobic organisms** (bacteria and viruses that use carbon dioxide for fuel and leave oxygen as a by-product). This action is immediate, on contact with the anaerobic organism. Anaerobic bacteria are pathogens, the organisms which cause disease. All viruses are anaerobic.

Aerobic bacteria (those that burn oxygen for fuel and leave carbon dioxide as a by-product — as humans do) found in the human intestine are friendly bacteria, which aid in digestion. These organisms thrive in the presence of hydrogen peroxide.

The second effect is that it transforms biological waste products and industrial toxins into inert substances by oxidizing them. This makes them easy to handle for the kidneys and liver. It doubles the rate of enzymatic metabolism in the mitochondria within each cell, thus enabling the body to cleanse itself of toxins and still have plenty of energy to handle the business of living from moment to moment. This increase in metabolism probably accounts for some of the antibacterial, antifungal, and antiviral effects of hydrogen peroxide.

Hydrogen peroxide is a part of normal metabolism. Your body produces it constantly. There are units in certain white blood cells called "peroxisomes," which produce H₂O₂. These white cells then engulf bacteria, which cause disease, and mix them together with these peroxisomes. They both then disappear as the singlet oxygen from H₂O₂ destroys the bacteria or virus. This happens naturally, without any help from outside sources of hydrogen peroxide.

When an infective disease becomes obvious to the person who has the infection the hydrogen peroxide defense mechanism already has been overwhelmed by the number of viruses or bacteria involved, and the immune system is into its secondary line of defense: the tedious process of analyzing the invading organism and making antibodies, which deal specifically with that organism.

Conditions which can be treated with H₂O₂ include those conditions which can be treated with antibiotics, but without the serious toxicity often associated with laboratory produced synthetic antibiotics. Some of these conditions are candidiasis (yeast), viral infections, influenza, the common cold, sinus infection, Epstein-Barr virus and gangrene.

Hydrogen peroxide also has been found to dissolve cholesterol and calcium deposits associated with atherosclerosis. Therefore, it is a good treatment for vascular disorders. This can result in lessening or disappearance of angina, leg pain and transient ischemic attacks to the brain, which cause dizziness. It also can help reverse some of the damage left over by a stroke, if treatment is instituted early enough.

Research in the 1960s at Baylor University showed conclusively that intra-arterial hydrogen peroxide dissolves plaque in large arteries. This makes H₂O₂ a wonderful complement to EDTA in the treatment of vascular disease, as EDTA has been shown to clear small vessels and create collateral circulation around large vessel blockages. This combination is called "Chelox Therapy."

It also clears the lungs, in cases of emphysema, by producing oxygen bubbles in the alveoli (tiny air sacs in the lungs), literally lifting the mucus deposits up, so they can be coughed out.

Hydrogen peroxide has a remarkable clearing effect on the skin. After only a few intravenous treatments the skin takes on a translucent clarity usually seen only in children. In addition, hydrogen peroxide benefits asthma, leukemia, multiple sclerosis, degenerative spinal disc disease and high blood pressure. It is particularly effective with asthma, arthritis and back disorders.

All of these illnesses have a component of toxicity from accumulated pesticides, preservatives and organic industrial pollutants. Often the clearing of these toxins is enough to allow the body to heal, or at least partially repair itself. Obviously, where there is anatomic change such as in disc disease, this anatomic change will not be altered. However, what the person with disc disease, arthritis and other such illnesses is interested in is the disappearance of pain and the return of function. This often is possible with hydrogen peroxide.

When toxins are released from the cells of the body, they must cross the space between those cells and the outside. Ultimately, they exit the body through the lungs, the liver, the kidneys, and the pores of the skin. Detoxification can feel temporarily worse than the disease. It may be accompanied by headache, fatigue, grouching, insomnia and body pains for days or even, in very diseased states, weeks. Hydrogen peroxide is no exception. Be prepared for these kinds of results on your trip to a clear state of health.

Some doctors believe AIDS and cancer can be helped with hydrogen peroxide. The theory which explains benefits enjoyed by people with these conditions is that the cancer cell and the AIDS virus both are anaerobic and do not do well when exposed to singlet oxygen supplied by the hydrogen peroxide to water and oxygen reaction. The most fundamental feature of a cancer cell is that it is relatively anaerobic. It needs sixty percent less oxygen than a normal healthy cell. It does very poorly in the presence of excess oxygen. All of this points toward the oxidative therapies as a decent treatment for cancer and a decent preventive measure as well. Apparently, cancer is the cell's attempt to survive

under conditions of a low supply of oxygen. If your cells are well oxygenated, they have no reason to transform into cancer cells. It may be that the way toxins promote cancer is by interfering with the use of oxygen by cells.

Much more research needs to be done in this area. Claims of cure should not be made unless they can be rigorously substantiated with cause and effect proven beyond any reasonable doubt. At the present time, we can say only that the oxidative therapies are valuable, arresting disease processes, but not necessarily curative.

The infusion lasts ninety minutes. You will notice a warm feeling during treatment, not much more. The main effect of hydrogen peroxide infusions is that you regain your health. Treatments are one to three times per week, occasionally five times per week for an acute illness and, just as with chelation therapy with EDTA, the number of treatments needed depends on the nature of the illness with which you are dealing. From ten to fifty treatments will get the job done in most cases, and you should be able to maintain on oral hydrogen peroxide or the occasional intravenous infusion after that.

To prepare the IV (intravenous) solutions, Dr. Farr begins with 30% H₂O₂ of USP food or cosmetic grade. Thirty percent H₂O₂ is a powerful oxidizer and should be handled with extreme caution.

The 30% solution is diluted with equal amounts of sterile distilled water to make a 15% stock solution. The stock solution is passed through a Millipore 0.22mm medium flow filter for sterilization and removal of particulate matter. The stock solution is stored in 100 ml sterile containers and kept refrigerated for future use.

His infusion solutions are then prepared using sterile 5% dextrose in water. The addition of 1/4 ml sterile of the 15% H₂O₂ stock solution to each 100 ml of carrier solution produces a 0.0375% concentration that is finally used for the intravenous infusions.

Dr. Farr further warns that "caution must be exercised that nothing is added to the H₂O₂ solution because of its tremendous oxidizing power. Even ascorbic acid (Vitamin C) is rapidly oxidized to the mono-dehydroascorbate radical, an unstable compound which degrades into numerous other chemical fragments. . . . Vitamins, minerals, peptides, enzymes, amino acids, heparin, EDTA, or other injectable materials should never be mixed with the H₂O₂ solution."

By far the widest use for hydrogen peroxide, whether wisely or not, seems to be that of oral use, where a 35% "food grade" is diluted to a 3% concentration by use of 1 ounce of 35% H₂O₂ to 11 ounces of distilled water. The 3% concentration is then used by quantities of drops in distilled water, increasing the dosages and number of oral treatments daily throughout a number of weeks.

physicians to be of benefit in the following conditions:

Heart and Blood Vessel Diseases
Peripheral Vascular Disease
Cerebral Vascular Disease
Cardiovascular Disease
Coronary Spasm (Angina)
Heart Arrhythmias
Gangrene of Fingers and Toes
Raynaud's Syndrome
Temporal Arteritis
Vascular and Cluster Headaches
Pulmonary Diseases
Chronic Obstructive Lung Disease
Emphysema
Asthma
Bronchiectasis
Chronic Bronchitis
Infectious Diseases
Influenza
Herpes Zoster (shingles)
Herpes Simplex (fever blister)
Systemic Chronic Candidiasis
Chronic Fatigue Syndrome
(Ebstein_Barr Virus)
HIV (AIDS) Infections
Acute and Chronic Viral Infections
Chronic Bacterial Infections
Parasitic Infections
Immune Disorders
Multiple Sclerosis
Rheumatoid Arthritis
Diabetes Mellitus Type II
Hypersensitive Persons (Environmental and Universal Reactors)
Parkinsonism
Alzheimer
Migraine Headaches
Chronic Pain Syndromes
Pain of Metastatic Carcinoma
Blood and Lymph Node Cancers

According to Frank Shallenberger, M.D., who is best known in the United States for treating AIDS patients with a holistic protocol including ozone, bio-oxidative therapies have affect in the human body in the following ways:

1. They stimulate the production of white blood cells, which are necessary to fight infection.
2. Ozone and hydrogen peroxide are anti-virucidal.
3. They increase oxygen and hemoglobin disassociation, thus increasing the delivery of oxygen from the blood to the cells.
4. Ozone and hydrogen peroxide are anti-neoplastic, which means that they inhibit the growth of new tissues like tumors.
5. They oxidize and degrade petrochemicals.
6. They increase red blood cell membrane distensibility, thus enhancing their flexibility and effectiveness.
7. Bio-oxidative therapies increase the production of interferon and Tumor Necrosis Factor, which the body uses to fight infections and cancers.
8. They increase the efficiency of the anti-oxidant enzyme system, which scavenges excess free radicals in the body.
9. They accelerate the Citric Acid Cycle, which is the main cycle for the liberation of energy from sugars. This then stimulates basic metabolism. It also breaks down proteins, carbohydrates and fats to be used as energy.
10. Bio-oxidative therapies increase tissue oxygenation, thus bringing about patient improvement.²

Hydrogen peroxide is involved in all of life's vital processes, and must be present for the immune system to function properly. The cells in the body that fight infection (known as granulocytes) produce hydrogen peroxide as a first line of defense against invading organisms like parasites, viruses, bacteria and yeast. It is also required for the metabolism of protein, carbohydrates, fats, vitamins and minerals. As a hormonal regulator, hydrogen peroxide is necessary for the body's production of estrogen, progesterone and thyroxin; it also helps regulate blood sugar and the production of energy in cells. Hydrogen peroxide has long been used medically as a disinfectant, antiseptic and oxidizer, but has only recently been found to successfully treat a wide variety of human diseases with a minimum of harmful side effects.

DISCLAIMER: This is for educational purposes only, not to render medical advice. It is not intended to diagnose or treat any disease. For medical advice please see your private physician. To prepare the IV (intravenous) solutions, Dr. Farr begins with 30% H₂O₂ of USP food or cosmetic grade. Thirty percent H₂O₂ is a powerful oxidizer and should be handled with extreme caution. The 30% solution is diluted with equal amounts of sterile distilled water to make a 15% stock solution. The stock solution is passed through a Millipore 0.22mm medium flow filter for sterilization and removal of particulate matter. The stock solution is stored in 100 ml sterile containers and kept refrigerated for future use. His infusion solutions are then prepared using sterile 5% dextrose in water. The addition of 1/4 ml sterile of the 15% H₂O₂ stock solution to each 100 ml of carrier solution produces a 0.0375% concentration that is finally used for the intravenous infusions. Dr. Farr further warns that "caution must be exercised that nothing is added to the H₂O₂ solution because of its tremendous oxidizing power. Even ascorbic acid (Vitamin C) is rapidly oxidized to the mono-dehydroascorbate radical, an unstable compound which degrades into numerous other chemical fragments. . . . Vitamins, minerals, peptides, enzymes, amino acids, heparin, EDTA, or other injectable materials should never be mixed with the H₂O₂ solution."