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Ozone Medical Therapy in Animals

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Ozone therapy has been utilized and heavily studied for 150 years. Its effects are proven, consistent, and safe for use in pets. Used to treat infections, wounds, and multiple diseases, ozone's effectiveness has been well documented. The Florida Medical Association published a text by Charles J. Kenworth, MD on medical ozone therapy in 1885! Heads of leading medical institutions in the U.S. contributed to a 1929 book "Ozone and its Therapeutic Actions" describing the treatment of 114 diseases using ozone.

In 1933, the American Medical Association began its systematic suppression of all modalities of treatment that did not complement its liaison with the emerging pharmacologic and diagnostic industries, and ozone therapy along with many other useful therapies were methodically eliminated from the educational process and exposure to the public in the U.S. Less suppression has occurred in Europe and other countries, especially in Russia. Today in Germany and other countries, ozone therapy is commonplace. Over 7000 doctors in Germany use it daily.

The physiologic actions of ozone are many, the simplest of which is to provide sufficient oxygen to allow complete oxidation of sugars and other fuels to produce sufficient energy and to "burn clean" to CO₂, water, and inert end products. If not enough oxygen is available, then incomplete oxidation occurs, producing carbon monoxide, lactic acid, and partially oxidized toxins that inhibit further oxygen metabolism and clog the system, tying up hemoglobin, water, and the mechanisms for function and elimination. In all animals it serves as an anticancer, antiviral, antibacterial, and antifungal agent. Ozone is unsurpassed, especially since there are no appreciable side effects.

Ozone has been found to be an extremely safe medical therapy for pets, free from side effects other than respiratory irritation which clears up with a dose of Vitamin C. Ozone treatment is safe because healthy cells are surrounded by an enzyme coating, which ozone does not penetrate. Bacteria and viruses have no such coatings and are oxidized on contact with ozone. Ozone also promotes the production of glutathione peroxidase, catalase, reductase, and super-oxide dismutase, which are the enzymes forming the cell wall coating and, therefore, cellular immunity is enhanced.

Oxygenation. Oxygen deficiency is key to the development and progression of all disease processes. Doctor Otto Warburg's work, confirmed by many others, shows that this deficit and subsequent toxin buildup is the fundamental cause of all degenerative disease.

Detoxification. Ozone potentiates free radical scavenging substances and systems in the body, inducing the production of superoxide dismutase, catalase, and glutathione peroxidase. Antioxidants help the body to protect itself from excessive oxidative damage caused by multiple free radicals, many of which are deactivated by ozone. The support of free radical scavenging systems is important but only oxygen can improve the deficit that makes cells vulnerable to oxidative damage in the first place. Long-term ozone therapy can be augmented by supplementation with antioxidants, but normally they should not be administered within 4 to 12 hours of ozone therapies.

Supportive of other treatments, ozone potentiates complete oxidation and helps to maintain more normal body temperature and increases the effects of most hormones, vitamins, herbs, homeopathics, and drugs. Concurrent ozone administration reduces the amount of chemotherapeutic drugs needed to achieve the effect by ¼ to ¾. It complements chelation therapies and frequently improves the effect and sense of well-being in



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patients. Also, ozone therapy facilitates the rapid resolution of healing crises in pets started by other treatments.

Administration can be through any route with modifications:

- Direct IV infusion – Ozone slowly administered into a major vessel. Oxygen/ozone mixtures cannot cause emboli when injected at reasonable rates as they dissolve and diffuse very quickly in body fluids.
- Major autohemotherapy – Anticoagulated blood is mixed with ozone and is infused into a vessel.
- Rectal/vaginal insufflation – Humidified ozone is administered by catheter.
- Minor autohemotherapy – Blood mixed with ozone is injected intramuscularly.
- Limb or body bagging – Body or parts are bathed in humidified ozone.
- Ozonated water – Dissolves easily in water to be used topically or consumed.
- Ozone in Saline or LRS – Can be used topically or given IV or SQ.
- Intra-articular administration – For joint healing and prolotherapy.
- Prolo/Sclerotherapy (in joints) – Very good, less painful than other agents.
- Acupuncture – With ozone more effective than B12, bubbled through oil until congealed.
- Ozonated olive oil is applied topically even to eyes.
- Inhalation: ozone is bubbled through olive oil to be inspired.
- Subconjunctival injection – For ulcers and keratitis sicca.
- Gingival and tooth apex injection – Can eliminate the infection.
- Urinary bladder insufflation – For chronic inflammation.
- Disc protrusions – Prolotherapy at interspinous space and around facets stabilize joints and accelerate healing.
- Auricular – Can be direct, humidified, or bagged with a homemade device made from IV bags and tubing.

There are a few Contraindications.

Most physicians caution against the use of ozone therapy in pets in the following conditions:

- After recent heart attack
- Pregnancy
- Recent internal bleeding including menses
- Hyperthyroidism
- Cramping or spasms
- Thrombocytopenia
- Alcoholic intoxication
- Allergy to ozone



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The Healing Place is happy to be announcing that we will be adding Ozone Therapy to our modalities offered. We are proud to continue to learn and advance the care for our patients. Ozone Therapy can be administered via a rectal catheter as easily as a thermometer or can be administered via the pet's own bloodstream via an IV catheter for more aggressive treatment. Additionally lubricants for eyes can be made as well as solutions for externally washing wounds.

Once we are ready to offer this therapy to our patients, we will be offering an informative workshop for all of our clients that we feel might elevate their pets' health condition as well as anyone else who wants to learn more about Ozone Therapy. Look for the announcement via our emailed newsletter, our text program, information posted in our clinic, and, of course, Facebook.