

## Uses of Ozone as a Disinfectant and For Disease Treatment.

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### Discovery History of Ozone:

Discovered in 1785, ozone is currently utilized by an unknown number of complementary and alternative medicine (CAM) physicians some of whom treat with ozone for its amazing anti-viral, anti-bacterial, anti-inflammatory, and immune boosting properties. Use of ozone by doctors governed under state CAM laws or as FDA off label use though ozone is not a drug.

There are over 2000 published medical studies on ozone efficacy and medical evidence that ozone therapies are: 1) able to inactivate and destroy bacteria and viruses internally and on surfaces, 2) able to boost the immune system, 3) safe and economical to administer.

**With an ozone generator and oxygen, military and medical facilities would have virtually unlimited amounts of disinfectant and ozone treatment available at all times. Use of ozone would serve as a frontline approach against bioweapons or pandemics and be considered essential equipment for national security.**

### Use in Other Countries:

*"In a 1980 study done by the German Medical Society for Ozone Therapy, 644 therapists were polled regarding their 384,775 patients, comprising a total of 5,579,238 ozone treatments administered. There were only 40 cases of side effects noted out of this number which represents the incredibly low rate of .000007%, and only four fatalities. Ozone has thus proven to be one of the safest medical therapies ever devised."* Jacobs M (1982) Zwischenfalle und typische Komplikationen in der Ozone-Sauerstoff-Therapie. OzoNachrichten 1: 5

### About Ozone:

*"Ozone therapy has been utilized and heavily studied for more than a century. Its effects are proven, consistent, safe and with minimal and preventable side effects. Medical O<sub>3</sub> is used to disinfect and treat disease. Mechanism of actions is by inactivation of bacteria, viruses, fungi, yeast and protozoa, stimulation of oxygen metabolism, activation of the immune system. Medication forms in a gaseous state are somewhat unusual, and it is for this reason that special application techniques have had to be developed for the safe use of O<sub>3</sub>. In local applications as in the treatment of external wounds, its application in the form of a transcutaneous O<sub>3</sub> gas bath has established itself as being the most practical and useful method, for example at low (sub-atmospheric) pressure in a closed system guaranteeing no escape of O<sub>3</sub> into the surrounding air. Ozonized water, whose use is particularly known in dental medicine, is optimally applied as a spray or compress. Diseases treated are infected wounds, circulatory disorders, geriatric conditions, macular degeneration, viral diseases, rheumatism/arthritis, cancer, SARS and AIDS."*

*"Ozone therapy: A clinical review"* A. M. Elvis and J. S. Ekta [J Nat Sci Biol Med. 2011 Jan-Jun; 2\(1\): 66–70. doi: 10.4103/0976-9668.82319](https://doi.org/10.4103/0976-9668.82319)

### Legal opinion:

*"Ozone has been approved by the Food and Drug Administration and Health and Welfare Canada for use as a food preservative and topically as an antiseptic solution."*

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- *It has neither been approved nor disapproved for intra-arterial or intravenous use, although its use since 1920 is documented in medical literature.*
- *It has been studied in the treatment of arteriosclerosis of the heart, head, and legs and has been found to increase the effectiveness of radiation in cancer therapy.*
- *It has not been reported to be harmful or dangerous when used in concentrations or dosages employed for direct IV or major autohemolytic therapy.*
- *Ozone is being used increasingly by a minority of physicians for the treatment of immune dysfunction, pulmonary disease, and tissue hypoxia.*
- *The use of Ozone is has not yet been shown to be “safe” or “effective” or “customary and reasonable”. Because of the lack of approval, and because a majority of doctors do not use it, insurance companies ordinarily do not pay for Ozone therapy.*

Whether or not Ozone is “safe” or “effective” for a specific condition depends upon the degree of likelihood of injury from the use of the procedure when properly administered as compared to the prognosis for the condition, if left untreated. That is, the healthcare provider and patient must consider the risk/benefit ratio when considering the use of Ozone for a specific condition. The use of Ozone can be considered as an “off label use.” Tommy Swate, JD, MD, Houston, TX

### **Twenty-two methods of administering medical ozone.** They are:

Clinical Use: 1. autohemotherapy 2. intravenous injection 3. intraarterial injection 4. direct injection into a tumor 5. intracutaneous (blistering) 6. intramuscular 7. subcutaneous 8. uterine insufflation 9. bladder insufflation 10. sub-atmospheric bagging 11. dental use of ozonate water. In the home or clinical use: 12. rectal insufflation 13. vaginal insufflation 14. drinking water 15. in the ear 16. ozonated water enema 17. breathing through olive oil 18. deep lymphatic massage with ozonated olive oil 19. ozonate bath with sea salt 20. body suit 21. steam cabinet 22. external limb bagging. <http://uralica.com/oz.htm#61>

### **Clinical Experience:**

*“Oxidation therapies (OT) have shown an extremely high safety profile, lacking credible reports of significant injury beyond vein irritation. Ozone therapy, the most studied and least expensive to perform, is in itself a germicide, not an antibiotic, and improves several physiological parameters essential for infection defense. Recent reports indicate very favorable responses to both bacterial and viral disease, inclusive of Ebola. ... OT has been reported to prevent human drug resistance by Mycobacterium tuberculosis.<sup>16,17</sup> OT may be ideal therapy for viruses. ... Ozone directly inactivates viruses.<sup>19-22</sup> Ozone gas is directly microbicidal, killing bacteria virtually on contact.<sup>27</sup> This will be very valuable for biofilm infections”.*

**Source:** Rowen RJ. Ozone and oxidation therapies as a solution to the emerging crisis in infectious disease management: a review of current knowledge and experience.

Med Gas Res. 2019;9(4):232-237. [http://www.medgasres.com/temp/MedGasRes94232-540446\\_013004.pdf](http://www.medgasres.com/temp/MedGasRes94232-540446_013004.pdf)

*“Ozone Can Be Used To Destroy The New Coronavirus And Disinfect Areas Ozone gas has been proven to kill the SARS coronavirus and since the structure of the new 2019-nCoV coronavirus is almost identical to that of the SARS coronavirus, ... There are more than 17 scientific studies that show Ozone gas is able to destroy the SARS coronavirus.”***Source:** Thailand Medical news Feb 05,2020 <https://www.thailandmedical.news/news/ozone-can-be-used-to-destroy-the-new-coronavirus-and-disinfect-areas>