

MagOzone

Reactive Oxygen Species (ROS) information

2) Reactive Oxygen Species (ROS) found in *MagOzone* consisting of complex oxides of magnesium will alter the bio terrain.

BioMaxpHlorOzone has undergone an extensive process in which magnesium has been introduced to hydrogen peroxide and ozone producing different chemical states of peroxone, magnesium trioxidane and magnesium peroxide, super oxides, magnesium hydroxide and magnesium oxide. What we are left with is a unique blend of Reactive Oxygen Species that support the immune system by increasing the oxidative process in the digestive tract, providing an oxygenated environment for your natural gut microbiome to flourish in.

BioMaxpHlorOzone in combination with GCA's unique enzyme blend, creates *MagOzone*, that helps to both digest biofilm and release ROS.

"Inactivation of bacteria, viruses, fungi, yeast and protozoa: Ozone therapy disrupts the integrity of the bacterial cell envelope through oxidation of the phospholipids and lipoproteins. In fungi, O₃ inhibits cell growth at certain stages. With viruses, the O₃ damages the viral capsid and upsets the reproductive cycle by disrupting the virus-to-cell contact with peroxidation. The weak enzyme coatings on cells which make them vulnerable to invasion by viruses make them susceptible to oxidation and elimination from the body, which then replaces them with healthy cells." (<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3312702/>)

Diseases treated are infected wounds, circulatory disorders, geriatric conditions, macular degeneration, viral diseases, rheumatism/arthritis, cancer, SARS and AIDS.
(<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3312702/>)

The immune system creates super-oxides and hydrogen peroxides for respiratory bursts in order to kill bacteria. Another use of oxidants produced by the immune system is signaling to induce the inflammatory response bringing an influx of neutrophils. (American Journal of Respiratory and Critical Medicine Vol 166, 2002 pg. 56)

"Ozone increases the production of interferon's that have the ability to interfere in the replication of viruses in host cells. Gamma interferon levels can be raised from 400% to 900% with their antiviral activity. They prevent viral replication and activate CD4 + T lymphocytes (helper) , immunomodulatory functions and natural killer cells (cytotoxic). Also induce the cytotoxicity of CD8 + T lymphocytes, promotes the proliferation and B lymphocytes activation, which is why these cells are considered a fundamental pillar in the mediated-cell immune response. The CD4+ T lymphocytes activation trigger an immune reactions cascade [12,13]. CD8+

T lymphocytes, macrophages, neutrophils, eosinophils, NK cells and the activation of antibody-dependent cellular cytotoxicity (ADCC) constitute immune effectors mechanisms to destroy virus-infected cells [14]. Previous studies have shown different types of ozone treatments against HIV infection [15]. Considering this background, the aim of this study is to demonstrate the immunological response in HIV-AIDS patients treated with ozone by major autohemotherapy during 2 years.”

(https://www.researchgate.net/publication/333875271_The_immune_response_behavior_in_HIV-AIDS_patients_treated_with_Ozone_therapy_for_two_years)

Interferon-Gamma at the Crossroads of Tumor Immune Surveillance or Evasion(<https://www.frontiersin.org/articles/10.3389/fimmu.2018.00847/full>)

Maximum Strength