

OZONE

A REVOLUTION IN DENTISTRY

OZONE THERAPY: A versatile bio-oxidative therapy in which oxygen/ozone is administered via gas or dissolved in water or oil base to obtain therapeutic benefits.

OZONE GENERATION

• Medical Ozone:

Pure Ozone:
0.05-5 %

+

Pure Oxygen:
95-99%

- Corona Discharge System
- Ozone Generator : HealOzone by KaVo Dental (Germany)

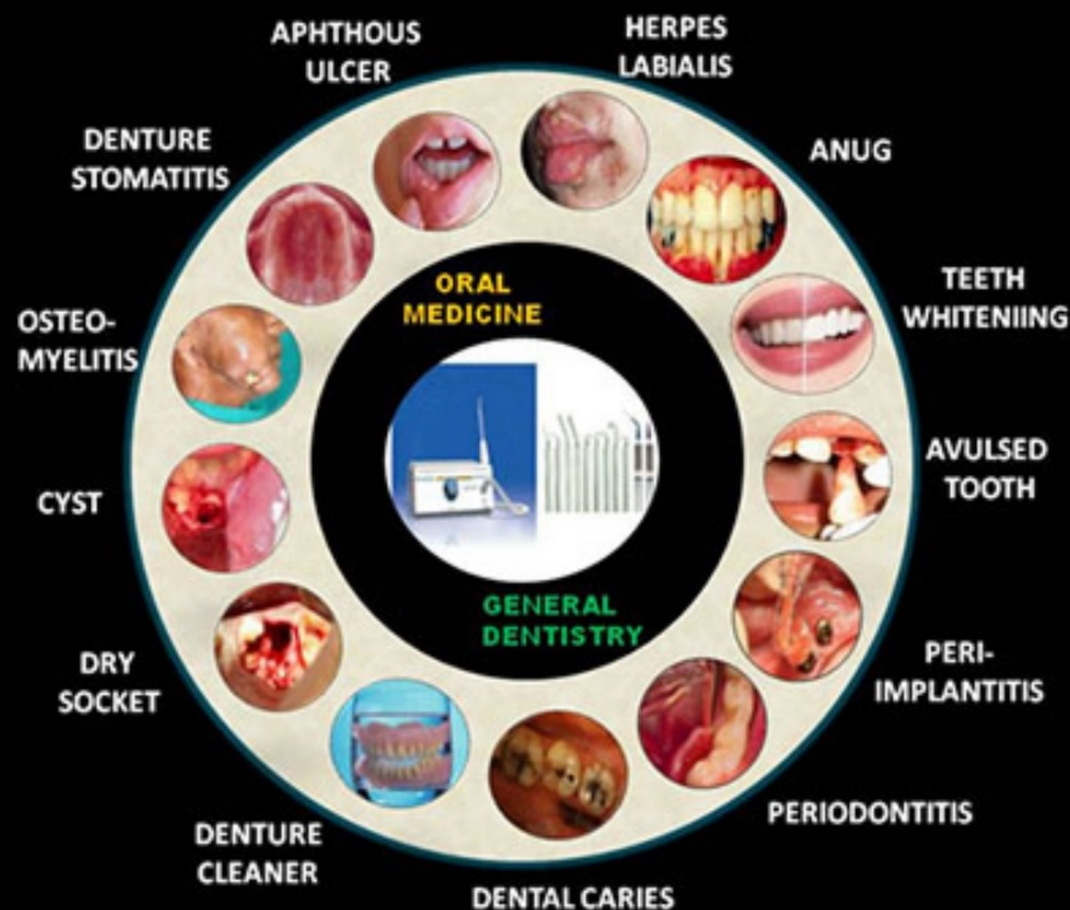


MECHANISM OF ACTION

- Anti-microbial
- Anti-hypoxic
- Analgesic
- Immuno-stimulatory
- Immune Modulatory
- Anti-inflammatory
- Bio-synthetic
- Haemostatic

MODES OF DELIVERY

- ❖ Topical
- ❖ Local / Regional
- ❖ Gaseous/ Aqueous form
- ❖ Ozonated Oils



CONTRA-INDICATIONS

- PREGNANCY
- HAEMORRHAGE
- SEVERE ANEMIA
- HYPERTHYROIDISM
- OZONE ALLERGY
- SEVERE MYESTHENIA
- G-6 PD DEFICIENCY
- RECENT Myocardial-Infarct
- ALCOHOL INTOXICATION



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THE VANGUARD OF SCIENCE-BASED BIOLOGICAL DENTISTRY



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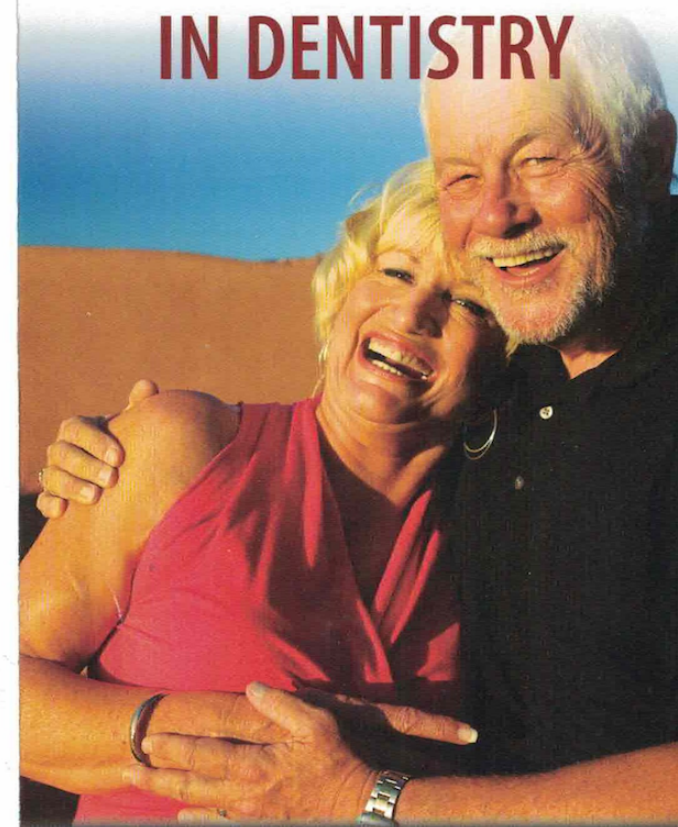
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International Academy of
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Oral Medicine & Toxicology

OXYGEN/ OZONE IN DENTISTRY



**HELPING PATIENTS
MAKE INFORMED DECISIONS**



INTRODUCTION

One of the most complex and perplexing problems in dentistry today is infection control. The oral cavity is a sea of microorganisms normally living in balance with the entire human body. Under certain conditions pathogenic or "disease causing" microorganisms can become the dominant life forms, thus creating what we call infection. These pathogenic microorganisms live together in what is called a biofilm. This biofilm supports a mixed type infection made up of bacteria, viruses, fungi and even parasites. The difficulty is that each of these "disease causing" types needs a different drug to eliminate its dominance. What if we had an agent that could treat and eliminate the infection and, in addition, support the surrounding healthy tissue without toxic side effects? We do now with oxygen/ozone therapy for dentistry.

HOW DOES OXYGEN/OZONE THERAPY WORK?

Oxygen/ozone, when introduced into the living system, creates what is called a "transient oxidative burst". The infective microorganisms have no natural defense against this reaction, and, as a result, are overstressed and die. Thus, oxygen/ozone disinfects the area treated, both safely and effectively. This "oxidative burst" also induces a multitude of natural biochemical and physiologic reactions. These reactions include better blood flow, enhanced immune response, and a more rapid healing response.

HOW CAN OXYGEN/OZONE HELP IN MY DENTAL CARE?

Staying within the accepted standard of care, with proper application, oxygen/ozone can enhance the outcome in all aspects of dentistry. For example, periodontal disease is a chronic gum and bone infection. By utilizing the different application forms of oxygen/ozone such as ozonated water, ozonated oils, and placing oxygen/ozone directly into the infected gum pockets, periodontal disease can be arrested without the use of pharmaceutical drugs and associated side effects. Another area of concern is infected root canals. Oxygen/ozone therapy sterilizes all aspects of the tooth, even into the smallest canals and tubules. This allows for a truly biologic root canal and thus retention of your natural teeth. Tooth decay or caries, which is really a "tooth infection," can be arrested almost immediately upon proper exposure to oxygen/ozone therapy. This procedure is especially useful when treating children, as minimal to no drilling of the tooth is necessary.

IS THERE ANY SCIENCE TO SUPPORT OXYGEN/OZONE THERAPY?

The scientific literature is vast in support of the effectiveness and safety of oxygen/ozone therapy. Historically, it was a Swiss dentist, E.A. Fisch in the early 1900's who introduced the concept of

oxygen/ozone in dentistry, followed by Dr. E. Payr who introduced this treatment into the medical community. Scientifically we now understand how and why oxygen/ozone therapies work so well. This has lead to many treatment advances in the last number of years, especially in dentistry. Recently, the International Academy of Oral Medicine and Toxicology reviewed and accepted Oxygen/Ozone in Dentistry as scientifically valid.

CAN I BE ALLERGIC TO OXYGEN/OZONE?

No, it is impossible to be allergic to oxygen/ozone. Ozone is just an energized form of oxygen. Ozone is naturally formed by the sun and lightning in storms. Without the ozone layer high in the atmosphere, life could not exist on our planet. Ozone actually filters out the sun's harmful ultraviolet rays and, in addition, makes for that beautiful blue color in the sky.

HOW DO I FIND A BIOLOGIC DENTIST WHO IS TRAINED IN OXYGEN/OZONE THERAPY?

To find a dentist who is trained in oxygen/ozone therapy, contact the International Academy of Oral Medicine and Toxicology (IAOMT), or the international training center for oxygen/ozone therapy in dentistry at the American College of Integrative Medicine and Dentistry (ACIMD) at (201) 820-3829.