## Oxygen/Ozone Applications in Dentistry

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### Explanation of IAOMT position:

The IAOMT must be careful in recommending new techniques for a dental practice. O3 therapy is one that deserves special attention due to how it lends itself to biocompatibility. This scientific review is in several categories: Root Canals & Cavitations, Restorative, Biocompatible Periodontal Therapy, and Biological Support. For this reason the category of Miscellaneous would be most appropriate.

### Name of Scientific Review:

Oxygen/Ozone Applications in Dentistry

### Alternative name(s) of Scientific Review:

Biologic Methods for Infection Control in the Oral Cavity

### This Scientific Review is related to:

Dentistry

### This Scientific Review is a:

procedure (and outcome based review).

### Purpose of the Scientific Review:

To explain the efficacy and integration of oxygen/ozone therapy in the control and elimination of infection in the oral cavity and surrounding tissues.

### Scientific Review History:

Our introduction to oxygen/ozone therapy occurred at Capital University of Integrative Medicine in 1998. We began to use this technology at the University and then integrated into our practices in 2001. These concepts and procedures based upon evidence based medicine/dentistry were brought into the educational field in 2002. AGD continuing education approval followed in 2005. Currently an international outcome study is under way that is fully approved by the American College of Integrative Medicine and Dentistry's Institutional Review Board.

### A brief description of the Scientific Review:

Oxygen/Ozone Therapy in Dentistry offers a non-surgical intervention for the treatment of osteonecrosis, infection, and inflammation of the head, neck, and associated structures. Ozone is a naturally occurring oxidant and when exposed to biologic systems induce multiple biologic reactions. These biologic reactions result in a positive therapeutic response and outcome. Oxygen/Ozone is anti-viral, anti-bacterial, anti-fungal, and anti-parasitic. With proper application these pathogenic life forms can be controlled and eliminated with no toxicity or side-effects. Safe and effective application of oxygen/ozone for successful outcomes is the result of proper training. Training is offered at the American College of Integrative Medicine and Dentistry training facility in Saddle Brook, New Jersey.
A specific description of this Scientific Review: Training in Ozone/oxygen therapy is necessary before one uses this therapy in practice. It is offered at the American College of Integrative Medicine and Dentistry in Saddle Brook, New Jersey. Contact the author. The science and clinical applications are presented for:

1. Ozonated water for rinsing, irrigation and topical application
2. Ozonated olive oil for topical application
3. Oxygen/Ozone gas for infusion and insufflation

Vested Financial Interest? Yes, by educational based programs

Manufacturer(s): Provide during education course

Scientific Literature:
2. Ozone – A New Medical Drug, by Velio Bocci MD
3. Ozone: The Revolution in Dentistry, by Edward Lynch
5. Efficacy of ozone on survival and permeability of oral microorganisms Nagayoshi M. et al
6. Integrating Oxygen/Ozone therapy into your practice. Mollica, Harris
7. Of Metalized Mouths, Mycotoxicosis, and Oxygen Ali,.Mollica, Harris Townsend Letter #263 p.73-76

Legal Aspects of this Scientific Review: Medical use of oxygen/ozone therapy has been approved in 14 states. The American College of Integrative Medicine and Dentistry has a federally approved IRB (#00004686) and a Federal Wide Assurance number 00009475 registered with the Office of Human Research Protection. The ACIMD also is a member of the Professional Responsibility in Medicine and Research Group.