



Stomatological Application of Ozone against Viruses

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Abstract

Ozone therapy has been successfully used in medicine, it has been established as a safe and effective method for the treatment of different diseases for more than 100 years (1840).

In dentistry, it has shown enormous benefits for both the clinician and the patient, it is considered as a possible adjuvant within the periodontics. The oxidative potential of ozone is useful in both infectious processes and healing, as it accelerates the physiological healing process, with significant reduction in pain.

The great oxidative capacity has led to its widespread application in dentistry. However, it should be taken into account that high concentrations have the ability to kill any living organism.

Keywords: Ozone; Dentistry; Periodontics Therapy; Wound Healing

Introduction

The word ozone comes from the Greek word "ozein", meaning "smell". It was first used in 1840, at the University of Basel, Switzerland, by the German chemist Christian Frederick Schonbein, who is regarded as the "Father of Ozone Therapy" [1-3].

Ozone, as indicated by its molecular formula O_3 , consists of three oxygen atoms and is used in three different forms [3,4]. It is an unstable gas and quickly leaves the nascent oxygen molecule to form oxygen gas [5,6].

Clinical evidence in the literature of ozone applied in dentistry has had results that enhance healing processes, there are reports of their application in periodontal therapies, since their effects on the soft and hard tissues of the oral cavity have been favorable [7,8].

Aim of the Study

This case report aims to publicize the benefits of ozone, its application in the different dental specialties, especially periodontics through its antibacterial, healing and regenerating effect.

Clinical Case Report

Female patient of 39 years old, white, married, dentist. Listen to the consultation for difficulty and pain to chewing as when passing saliva.

It shows that it consumes a healthy diet, that work stress pictures have been presented.

The clinical examination has edematous lesions of 0.8 mm in diameter, reddened, surrounding in the lower lip.

Bibliography

1. Azarpazhooh A, Limeback H. The application of ozone in dentistry: A systematic review of literature. *J Dent.* 2008;36(2):104-116.
2. Seidler V, Linetskiy I, Hunalkova H, Stankova H, Smucler R and Mazanek J. Ozone and its usage in general medicine and dentistry. *Prague Med Rep.* 2008;109(1):5-13.
3. Gómez L, Solís J, Nakagoshi S, Herrera A. Ozone Therapy: an alternative in periodontics. *Rev Mex Periodontol.* 2013;4(1): 35-38.
4. Gupta G, Mansi B. Ozone therapy in periodontics. *J Med Life.* 2012;5(1):59-67.
5. Reddy SA, Reddy N, Dinapadu S, Reddy M, Pasari S. Role of Ozone Therapy in Minimal Intervention Dentistry and Endodontics - A Review. *J Int Oral Health.* 2013;5(3):102-108.
6. Garg R, Tandon S. Ozone: a new face of dentistry. *The Internet Journal of Dental Science.* 2009;7:2.
7. Burke FJ. Ozone and caries: a review of the literature. *Dent Update.* 2012;39(4):271-278.
8. Stübinger S, Sader R, Filippi A. The use of ozone in dentistry and maxillofacial surgery: a review. *Quintessence Int.* 2006;37(5):353-259.

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