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The Effect of Photobiomodulation on Chemoradiation-Related Xerostomia: A Clinical Case

Shalizeh A. Patel, DDS, MEd; Juliana A. Barros, DDS, MS; Sunil M. Patel, MD, CMQ, MBA; Ryan L. Quock, DDS; Jerry E. Bouquot, DDS, MSD; Charles F. Streckfus, DDS, MA

What effect does PBM therapy have on saliva production in a chemoradiation-induced xerostomia patient, and how are the patient's observations and subjective experience impacted? The authors describe their findings.



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EDITOR'S VIEW

Spotlighting Light and Enlightenment

Donald Patthoff, DDS

The mission of the Journal of Laser Dentistry is to provide a professional journal that helps to fulfill the goal of information dissemination by the Academy of Laser Dentistry. The purpose of the Journal of Laser Dentistry is to present information about the use of lasers in dentistry. All articles are peer-reviewed. Issues include manuscripts on current indications for uses of lasers for dental applications, clinical case studies, reviews of topics relevant to laser dentistry, research articles, clinical studies, research abstracts detailing the scientific basis for the safety and efficacy of the devices, and articles about future and experimental procedures. In addition, featured columnists offer clinical insights, and editorials describe personal viewpoints.

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Some Thoughts on Photobiomodulation for Oral Mucositis Treatment ... and for Home Use

An Interview with Annette Quinn, RN, MSN, and Praveen Arany, BDS, MDS, MMSc, PhD

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Photobiomodulation for Oral Mucositis: A Field that Has Come Full Circle...

Praveen Arany, BDS, MDS, MMSc, PhD

The author traces the development of PBM therapy for oral mucositis – from the earliest investigations, through fundamental understanding of its mechanisms, to its current recommendation as a standard of care.

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PBM's Regulatory Labyrinth

Honorable Scot Faulkner

What are some of the challenges for making photobiomodulation a mainstream medical therapeutic intervention? The author identifies several historical impediments and ways to coordinate professionalizing the PBM movement.

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Independent Dental Hygiene Could Take the Lead on Laser Therapy

Tamra Johns, RDH, EPDH, BSDH

How might dental hygienists expand their treatment planning while promoting advanced oral health care? The author considers how incorporating laser treatment can change the lives of patients as well as practitioners.

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John Sulewski, MA

What obligations do those involved with off-label use of medical devices have to help ensure public health is assured? A look at some of the underlying regulations and legal standards provides some insight.

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Looking for some photobiomodulation help? Start with these selections of PBM-related textbooks, journals, articles, and other sources of information.

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Sandra Chong, BSc, DDS, MSc

What are the advantages and limitations of a closed, Er:YAG laser-assisted surgical approach to esthetic crown lengthening? The author provides a detailed explanation of her technique and clinical outcomes.



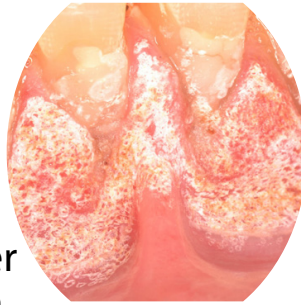
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CASE REPORT

The Clinical Impact of 9300-nm CO₂ Laser Low-Energy Ablation Therapy on Oral Lichen Planus

Gregory M. Schuster, DDS, MEd; Eugenia P. Roberts, DDS

What are the parameters and procedure for low-energy ablation of expansive areas of oral lichen planus in the oral cavity using a 9300-nm CO₂ laser? The authors elaborate on their technique without the need for local anesthesia.



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Phototherapy for Pediatric Obstructive Sleep Apnea in the Presence of Hypertrophic Tonsils: An Unexplored New Horizon

Enoch T. Ng, DDS; Manuel O. Lagravère, DDS, MSc, PhD

What is the evidence for the use of thermal nonablative phototherapy and photobiomodulation for managing pediatric and adult patients with obstructive sleep apnea? The authors explore the literature for answers.

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Donald Patthoff, DDS

The Academy of Laser Dentistry is a not-for-profit organization qualifying under Section 501(c)(3) of the Internal Revenue Code. The Academy of Laser Dentistry is an international professional membership association of dental practitioners and supporting organizations dedicated to improving the health and well-being of patients through the proper use of laser technology. The Academy is dedicated to the advancement of knowledge, research and education and to the exchange of information relative to the art and science of the use of lasers in dentistry. The Academy endorses the Curriculum Guidelines and Standards for Dental Laser Education.

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