

Transcutaneous electrical nerve stimulation and therapeutic ultrasound – An adjuvant pain therapy in dentistry, trends and prospects



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Biography

Supriya Gupta Assistant Professor in Dept. of Oral Medicine and Radiology- Rungta College of Dental Sciences Bilhail from Sep. 2017. Consultant Tele Oral Radiologist in Bhawani Diagnostics Raipur from August 2017. Gold medalist in Oral Medicine and Radiology (2017) and Trained in Specialized Head and Neck Imaging in Department of Radio Diagnosis ABVRH, Wardha from (July 2015 – January 2016)



Abstract

The Temporo-mandibular joint (TMJ) is the most active joint in the body as it needs to open and close up to 2000 times per day to account for a full day's worth of chewing, talking, breathing. The jaw, cervical spine, and alignment of the teeth are integrally related, and dysfunction in one of these regions may lead to a TMJ disorder. Also, the major and minor salivary gland produces whole saliva which is a clear, slightly acidic mucoserous exocrine secretion. It is most valuable and critical for the preservation and maintenance of oral health.

Trans Cutaneous Electrical Nerve Stimulation (TENS) is a non-invasive analgesic technique that is used to relieve nociceptive, neuropathic and musculoskeletal pain. TENS can be used in TMD, Xerostomia, Post-operative Third Molar Impaction, Healing of the fracture line. Therapeutic ultrasound also as an adjuvant therapy has been used to enhance the effectiveness of drug delivery, reduce the recovery time of injuries, improve muscle mobility, decrease joint stiffness, reduce muscle pain.

The effectiveness of TENS and therapeutic ultrasound in the management of TMDs and other disorders, both combine with other therapies to improve Stomatognathic system functionally is worth.

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