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Julia Emilova Kamenova, Dentistry 2018, Volume 8
DOI: 10.4172/2161-1122-C10-056

3rd International Conference on

Advanced Dental Education

November 15-16, 2018 | Edinburgh, Scotland

Turbulence laser medicine and treatment of pathological changes in TMJ due to occlusal trauma

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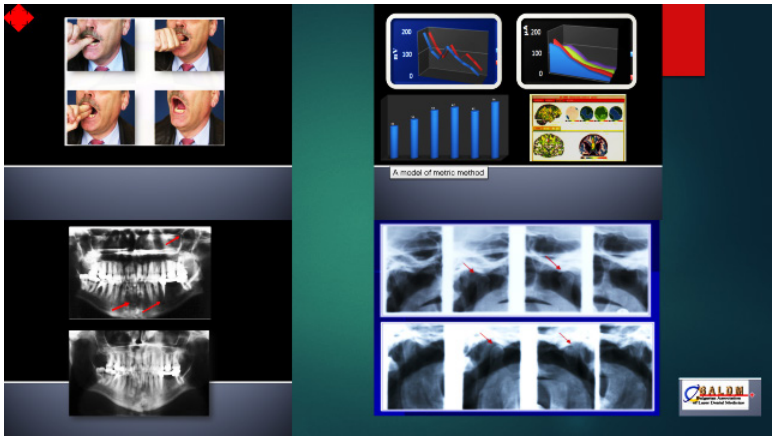
The present research presents new algorithms for diagnosing TMJ complications after occlusal trauma. The aim of our original biomedical and transitional clinical study was to analyse the real effect of combined therapeutic program in depth and basing on our clinical observations to suggest new approach guaranteeing high therapeutic efficacy of TMJ Photodynamic Therapy. We applied the method of building models of clinical situations and then classified them into categories. We studied electromyographic activity, energy metabolism and the state of increased muscle activity as well as TMD etiology, diagnosis and therapy, acugraph meridian energy analysis. Methods for TMJ treatment, approbated by us: PDT +TENS, PIFBM, LA and TENS. Laser-assisting treatment of TMJ disorders has a high degree of therapeutic efficacy and can be applied widely in daily dental practice. Best results can be obtained by the combined laser photobiomodulation.



Recent Publications

1. Kamenova J (2004) Treatment of occlusal traumatic symptoms using low-power laser irradiation. JOLA, 4(1):29-41.
2. Kamenoff J (2017) Biomedical, transitional and clinical research on PDT of TMJ, SPIE10048.
3. Kamenoff J (2017) Investigation on physiological and clinical effects of different light sources in TMJ Photobiomodulation therapy, SPIE 100047.

Biography

Julia Emilova Kamenova has expertise in evaluation and passion in Laser Dental Medicine, Biologic Medicine, Turbulence Medicine and Prosthodontics. Her open and contextual evaluation model based on functional modeling of electromagnetic processes in oral cavity creates new pathways for improving healthcare and laser treatment of oral galvanism.

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