

DENTAL EDUCATION

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The use of FRP lasers: A necessity in long term periodontal treatment strategy

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Since the high prevalence, worldwide, of periodontitis and periimplantitis, both proven to contribute and/or exacerbate systemic diseases by their inflammatory response, they are becoming a major concern in general health care. The search for finding a cost-effective and repeatable treatment for the majority of the population, without causing detrimental side effects, is a necessity and has been a question mark for many years. Since traditional treatment protocols cannot meet to all our expectations and have some contraindications, the rational of One Stage Full Mouth Disinfection (OFMD) has been the new paradigm in treatment strategy. However, a number of important details can be optimized. Lasers have taken an eminent place in periodontal care in the last two decades. The use of Free Running Pulsed (FRP) Lasers in particular, might solve some shortcomings in the traditional approach. The reason behind this is the way FRP lasers, by their very short bursts of energy, cannot only take care of bacterial and viral components of the periodontal infection, in hard as well as in soft tissue, but also by dissipation of that energy, have the capability to contribute to repair and at certain level regeneration. This can contribute to preservation of soft and hard tissue, in a cost-effective way. 53 patients having dpsi3+ or 4, undergoing all the same protocol of a true OFMD of scaling with adjunct of FRP laser treatment, with or without antibacterial support as indicated along microbiological assessment. Periodontal parameters were compared to baseline, at 2, 8 up to 14 months, without retreatment. Clinical outcome of the parameters for all cases were statistically significant improved to baseline.

Biography

Beatrijs Deruyter completed graduation from Brussels Free University, Dental School in 1980. Using lasers since 1991 She did her Sola Master in Laser dentistry 2003-2004 Universities Vienna (Austria) Master in Laserdentistry Academy for Laserdentistry (ALD) 2004-2009 (US) MSc in Laserdentistry-University of Genoa (Italy) PhDs "Lasers in periodontology" and instructor at KULeuven 2014-present

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