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THE USE OF FRP LASERS: A NECESSITY IN LONG TERM PERIODONTAL TREATMENT STRATEGY

Beatrijs Deruyter

KU Leuven, Belgium

Background & Aim: Since the high prevalence, worldwide, of periodontitis and peri-implantitis, 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, are 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.

Materials & Methods: Fifty-three 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 has graduated from Brussels Free University, Dental School in 1980. She was an Instructor at Brugmann Teaching Hospital during 1980-1984. She is having a Private practice 1981 until present & uses lasers since 1991. She did her Sola Master in Laser dentistry 2003-2004 Universities Vienna (Austria), Master in Laser-Dentistry Academy for Laser-dentistry (ALD) 2004-2009 (US) and MSc in Laser-Dentistry from University of Genoa, Italy. PhDs program "Lasers in periodontology". She is an Instructor at Periodontal Department, Oral Health Science, KU Leuven, Belgium since 2014 until present and also an Recipient of the ALD Leon Goldman award 2017.

admin@beatrijsderuyter.be