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Laser as an adjunct in the treatment of Peri-implantitis

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The peri-implant diseases bear great resemblance to periodontal diseases, from anatomopathological features, microbiological profiles, and immunological susceptibility to the forms of treatment. Despite the rational sharing of therapeutic bases, the effectiveness of procedures for decontamination of implant surfaces is considered a critical factor for the success of peri-implant disease therapy. Both the spiral-shaped macrostructure and the irregular microstructure of the titanium surface, promoted by the surface-blasting treatments, make the implant more favorable to adhesion and retention of plaque when exposed. Root scaling and straightening (RAR), considered gold standard due to its predictability in the resolution of periodontal disease, has limited efficacy in the treatment of peri-implant disease when bacterial biofilms reach the implants' spines. Different methods have been proposed to support RAR in order to eliminate bacterial colonies on the titanium surface, helping to eliminate the peri-implant pocket. Detoxification by high-resolution laser has been used in the treatment of peri-implantitis with promising results in the decontamination of the implant surface, as well as aiding the inflammatory response through biomodulating action. The interaction of the laser with the peri-implant surface results in the removal of possible bacterial calcified deposits besides allowing re-osseointegration in regenerative therapy. Laser-assisted regenerative or anti-inflammatory therapies have shown better results in the treatment of peri-implantitis compared to RAR alone and further studies are needed to confirm the scientific evidence.

Biography

Cleverton Corrêa Rabelo has completed his PhD in Periodontology in 2015 from Guarulhos University, São Paulo, Brazil. He is currently studying postdoctoral. He has developed research in the area of periodontics and patients with special needs.

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