A new approach for Peri-Implantitis treatment with electrolytic cleaning (GALVOSURGE®).

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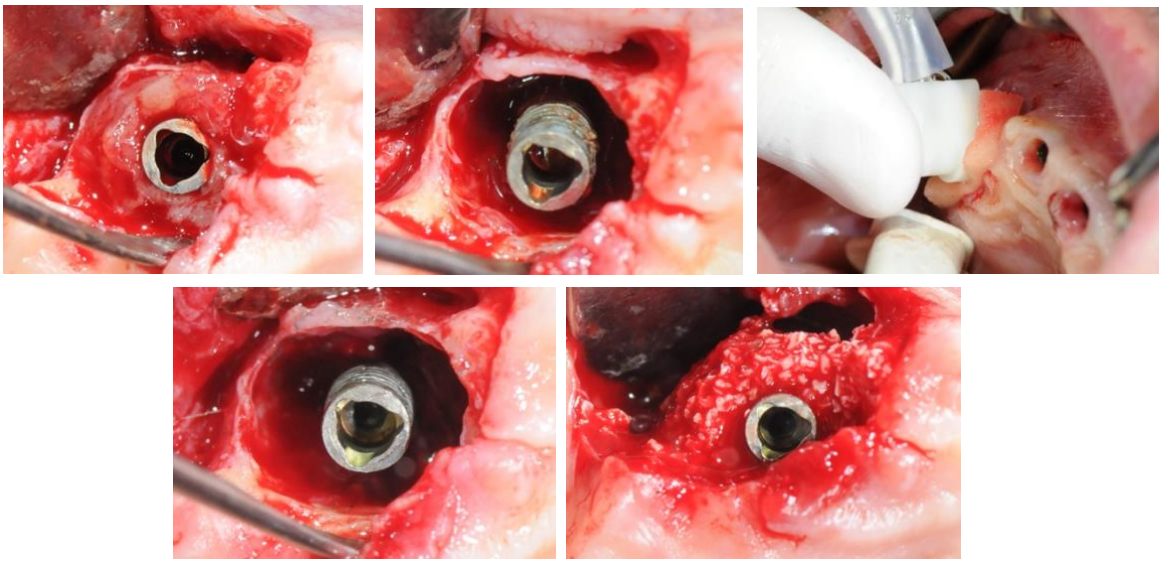
ABSTRACT

The replacement of missing teeth by dental implants has been exponentially increasing in the last decade. Despite the fact that dental implants present a good alternative for oral rehabilitation, the loss of supportive bone can occur in implants with successful osteointegration, known as peri-implantitis. Several treatment options have been described on the literature for the treatment of peri-implantitis, by means of mechanical and chemical decontamination of the implant surface. Curettes, ultrasonic devices, airpowder abrasive systems, implantoplasty, antimicrobials and lasers are examples for the treatment of peri-implantitis. However, none of these methods has been proven superior to any other. Incomplete cleaning efficacy of the micro-structure textured implant surfaces might play a major role on the recurrence rates.

Nevertheless, electrolytic cleaning seems to be an effective way to assure the total decontamination of the titanium micro-structure. Since titanium is an electric conductive metal, electrolysis can significantly reduce the bacterial charge accumulated on the titanium microstructures, allowing implant surface areas with difficult surgical access to be equally cleaned. The full disinfection of the implant surface allows clinicians to assure GBR protocols to reestablish the peri-implant bone defects. The aim of this presentation is to give an insight of surgical protocols used with the electrolytic cleaning system in the treatment of peri-implantitis in different clinical scenarios, with tips and tricks and limitations of the protocol.

CLINICAL PICTURES



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Bruno De Carvalho graduated in Dentistry in 2013 in Portugal. In 2014 he started his post-graduation program in Periodontology and Oral Surgery full time at the University of Liège where he graduates in 2017. In 2018 he started his PhD on the biological performance of innovative biomaterials for bone regeneration. He's at the moment adjunct Chief of Clinique at the University of Liège where he participates in the supervision of the post-graduation program of Periodontology and Oral surgery accredited by the EFP and several activities with the pre-graduated. Since 2018 he's the president of the Scientific Commission of the Belgian Society of Periodontology, being the coordinator of the Gum Health Day in Belgium and the responsible for the organization of the society annual congresses. He's also part of the EFP alumni committee.

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