Special Issue

New Frontiers in Laser Assisted Oral Surgery

Message from the Guest Editor

In the last 30 years, the evolution of technologies has allowed the daily use of laser device in dentistry. Since the introduction of laser in clinical practice, different wavelengths have been used for oral surgery on the basis of the different characteristics and affinities of each one. CO2 lasers, Neodymium-Doped Yttrium–Aluminium–Garnet (Nd:YAG) and diode lasers have mainly been used for periodontal soft-tissue management. With development of Erbium-Doped Yttrium–Aluminium–Garnet (Er:YAG) and Erbium, Chromium-Doped Yttrium–Scandium–Gallium–Garnet (Er,Cr:YSGG) lasers, which can be applied not only on soft tissues but also on dental hard tissues, the application of lasers dramatically expanded from periodontal soft-tissue management to hard-tissue treatment. Nowadays, various periodontal tissues (such as gingiva, tooth roots and bone tissue), as well as titanium implant surfaces, can be treated with lasers, and a variety of dental laser systems are being employed for the management of periodontal and peri-implant diseases.

Guest Editor

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