TECHNIQUES



Surgical laser therapy for periodontal and peri-implant disease

Donald J. Coluzzi¹ · Koji Mizutani² · Raymond Yukna³ · Rana Al-Falaki⁴ · Taichen Lin^{5,6} · Akira Aoki⁷

Received: 16 April 2022 / Accepted: 10 May 2022

© The Author(s), under exclusive licence to Springer Nature Switzerland AG 2022

Abstract

Dental lasers have numerous applications for periodontal and peri-implant disease therapy which include surgical procedures of soft tissue and osseous structures. Surgical intervention is necessary to aid in correction of the clinical attachment level and pocket depths that did not respond adequately to the initial therapy.

Keywords Laser \cdot Surgical periodontal therapy \cdot Surgical peri-implant therapy \cdot Flapless surgery \cdot Periodontitis \cdot Peri-implantitis

Quick reference/description

Careful planning of the treatment of periodontal and peri-implant diseases is essential, based on a comprehensive examination and diagnosis. After the completion of initial (nonsurgical) therapy and evaluation, surgical intervention may be necessary which can be enhanced using dental lasers. The properties of precision, thorough

□ Donald J. Coluzzi doncoluzzi@gmail.com

Published online: 04 June 2022

- Preventive and Restorative Dental Sciences, School of Dentistry, University of California, San Francisco, CA, USA
- Department of Periodontology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo, Japan
- Advanced Periodontal Therapies Surgical Dentistry Department, University of Colorado School of Dental Medicine, Aurora, CO, USA
- Department of Periodontology, Kings College Medical and Dental School, University of London, London, United Kingdom
- School of Dentistry, Chung Shan Medical University, Taichung, Taiwan
- Department of Dentistry, Chung Shan Medical University Hospital, Taichung, Taiwan
- Department of Periodontology, Graduate School of Medical and Dental Sciences, Tokyo Medical and Dental University, Tokyo, Japan



Reference:

Coluzzi, D.J., Mizutani, K., Yukna, R. et al. Surgical laser therapy for periodontal and peri-implant disease. Clin Dent Rev 6, 7 (2022). https://doi.org/10.1007/s41894-022-00121-w