

Periodontal Bone Regeneration with an Nd:YAG Laser and LANAP® Protocol

Raymond A. Yukna, DMD, MS
Professor

Advanced Periodontal Therapies
University of Colorado
School of Dental Medicine
Aurora, CO, USA



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LANAP® protocol



Abstract

Objective: The purpose of this presentation is to illustrate the radiographic and histologic bone regeneration seen following the Laser-Assisted New Attachment Procedure™ (LANAP®) surgery using an Nd:YAG laser (PerioLase® MVP™) (Millennium Dental Technologies, Inc, Cerritos, CA) in humans. LANAP® is a single session surgical treatment.

Methods: Pre-treatment and post-treatment dental radiographs of patients treated for chronic periodontitis or peri-implantitis with the LANAP® Protocol (Laser-Assisted New Attachment Procedure™) surgery are presented.

Results: Consistent increase in bone support for both natural teeth (infrabony defects and furcations) and dental implants with peri-implantitis has been seen with the LANAP® surgical protocol. The cases shown illustrate various examples of periodontal and peri-implant bone regeneration. Human histology reinforces the radiographic findings.

Conclusions: The LANAP® Protocol (Laser-Assisted New Attachment Procedure™) surgery using an Nd:YAG laser shows appreciable potential for periodontal and peri-implant bone regeneration.

Periodontitis



Courtesy Dr. R. Gregg

Courtesy Dr. P. Rubelman



Courtesy Dr. N. Lehman

Courtesy Dr. L. Finkbeiner



Courtesy Dr. M. Nevins

Dr. R. Yukna



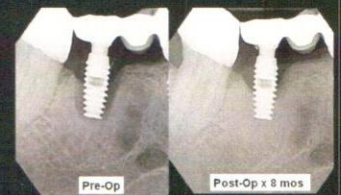
Courtesy Dr. D. Kimmel

Courtesy Dr. K. Rathbun

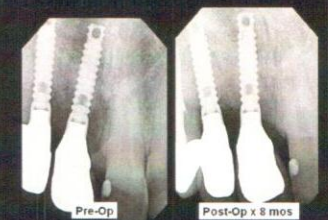
Peri-implantitis



Courtesy Dr. K. Blodgett



Courtesy Dr. J. Fourier



Courtesy Dr. J. Fourier



Courtesy Dr. B. Seamons

Human Histology

Key: N = notch in calculus; B = new bone
 C = new cementum; OC = old cementum;
 JE = junctional epithelium

