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

LANAP® protocol

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Peri-implantitis

## Abstract

Objective: The purpose of this presentation is to illustrate the presentation is to illustrate the radiographic and histologic bone regeneration seen following the Laser-Assisted New Attachment Procedure<sup>11</sup> (LANAP) surgery using an Nicty-Rolaser (PerioLase<sup>11</sup> MMP<sup>11</sup> (Millennium Dental Technologies, inc, Cerritos, CA) in humans, LANAP<sup>11</sup> is a single session surgical treatment.

Methods: Pre-treatment and posttreatment 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 perimplantitis has been seen with the LANAP's surgical protocol. The cases shown illustrate various examples of periodontal and perimplant 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



























Country Dr. B. Sear

## **Human Histology**

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

