Yukna Abstract April 2011 for website

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

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**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-7™) (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.

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