

American Academy of Dental Research

#2661

LANAP[®] Laser Periodontal Pocket Treatment – One Year Results

Friday, March 22, 2013: 3:30 p.m. - 4:45 p.m.
Location: Hall 4 (Washington State Convention Center)
Presentation Type: Poster Session

[R.A. YUKNA](#), Advanced Periodontal Therapies, University of Colorado School of Dental Medicine, Aurora, CO

Objective: Evaluate the Laser Assisted New Attachment Procedure (LANAP[®]) surgical treatment for periodontitis in consecutive patients after one year.

Method: 22 consecutive patients requiring full mouth treatment for moderate-advanced chronic periodontitis were treated a half mouth at a time with LANAP[®] surgery using the PerioLase MVP-7 Nd:YAG laser and followed for at least one year, including regular maintenance, occlusal adjustments and a biteguard. Patients were treated and measured by the author. Post-treatment evaluation was done without access to pre-operative data.

Result: The mean age was 45.6 years, gender division was almost equal, 6 were smokers, and a mean of 26.3 teeth (3540 sites) were present at the start. The following clinical changes were found:

- Bleeding on probing was reduced from 38.1% to 9.5%,
- probing depths ≤ 3 mm increased from 52% (initial 3-12mm) to 93.5% of sites (none > 6 mm)
- attachment level gain of ≥ 2 mm in 54% of sites
- mean recession of 0.1mm
- mobility decrease in 64% of teeth
- furcation closure of 51% overall (40% of Grade 2).
- There was minimal discomfort reported and no swelling.

Conclusion: This clinical case series suggests that the Laser Assisted New Attachment Procedure (LANAP[®]) can be an effective therapy for moderate-advanced periodontitis, providing significant clinical improvements.

Keywords: Effectiveness, Human, Lasers, Periodontal disease and Surgery

Presenting author's disclosure statement: Grants, consultant fees, and honoraria from Millennium Dental Technologies, Inc.