

GOULD'S GUMS GAZETTE

WINTER 2012

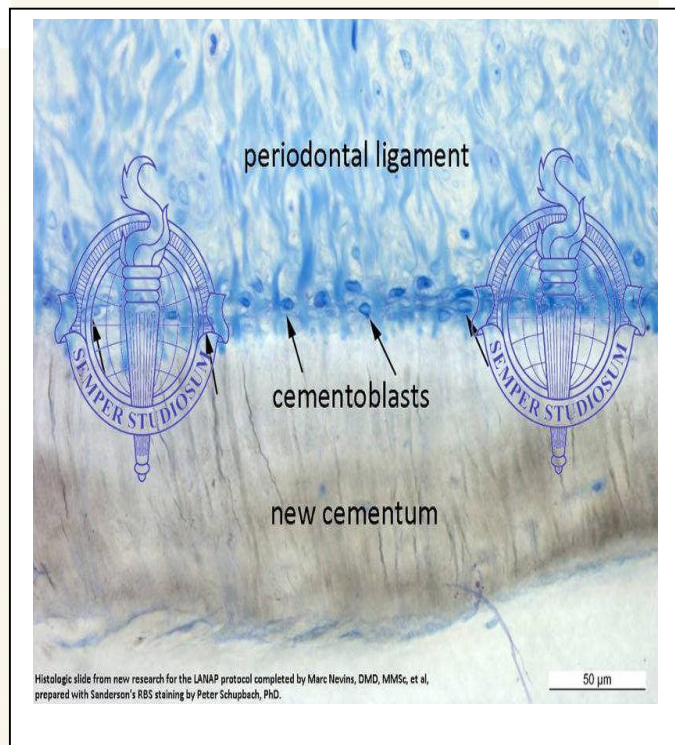


LANAP Update

Laser Assisted New Attachment Procedure for Treating Periodontal Pocketing with a "No Cut, No Sew" Technique

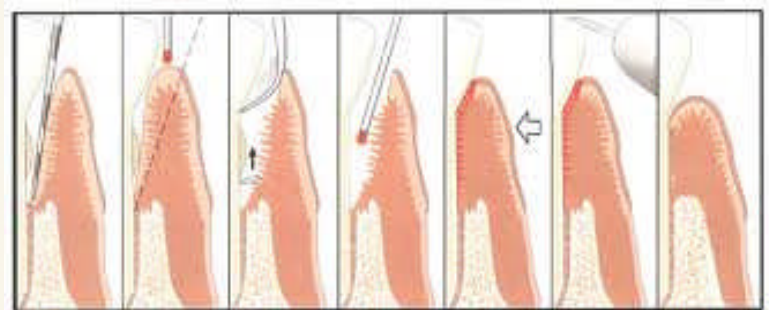
New research unveiled to a 'standing-room-only' crowd at the annual meeting of the **American Academy of Periodontology** November 2011 in Miami shows regeneration of bone in teeth treated with the LANAP protocol.

The preliminary report for the independent, **9-month en-bloc human-histological study** by Marc Nevins, DMD, MMSc positively supports the LANAP protocol for treating periodontitis



Research Details

- 12 teeth designated as "hopeless" were identified as study teeth prior to treating all teeth with LANAP: 8 single and 4 multi-rooted.
- Pocket depths of 8 - 16 mm pockets and up to 50% gingival recession.
- All teeth were Class III vertically mobile/compressible.
- All 4 molar teeth had Class III furcations.
- 12 study teeth were removed *en-bloc* after 9 months.
- 2 teeth were destroyed in the histological processing: 1 single and 1 multi-rooted tooth.
- 6 additional teeth were used for calibration and proof of notch placement. All 6 teeth showed the notches placed in diseased calculus with calculus and bacteria extending apical to the notch.
- **All 12 "hopeless" teeth returned to clinical, radiological, and histological health.**
- Histologically, 10 teeth showed regeneration up to the bottom of the notch, with 5 teeth showing regeneration in and above the notch. A 6th tooth showed cementum-mediated new attachment.
- Full analysis of clinical, radiologic, and histologic findings and are expected in 2012, with subsequent submission for peer-review and publication consideration.



LANAP PROTOCOL

Periodontal Disease and General Health

Root Coverage using Emdogain

Plaque, Appendicitis Bacterium Linked to Colon Cancer

A bacterium that causes appendicitis and gum disease has been detected in colon tumours, according to new research that suggests it may set the stage for colorectal cancer. *Fusobacterium* is a known player in disorders that are associated with inflammation such as gum disease and appendicitis, and two strains have been tied to ulcerative colitis and Crohn's disease. A Canadian research team has found significantly more *fusobacterium* RNA in colon tumours than in healthy tissues from the same patient.

Several other types of cancer have already been identified as having infectious origins. These include stomach (*H.pylori*), liver (hepatitis viruses B and C) and cervical (*human papilloma virus*).

Certain Mouth Bacteria Signal Pancreatic Cancer

A recent paper in the journal *Gut* compared bacterial samples from the saliva of 28 patients with pancreatic cancer compared to 28 healthy patients. *Granulicatella adiacens* was found in significantly higher numbers in cancer patients, while *Neisseria elongata* and *Streptococcus mitis* were found in significantly less numbers. Whether these bacteria are a cause or effect in the development of pancreatic cancer is unclear, but their presence could be used as a screening test to identify pancreatic cancer well before symptoms develop.

Association Between Chronic Periodontitis and Erectile Dysfunction

The most recent issue of The Journal of Periodontology (Vol 82: #12 pp1665-1669) includes a research paper linking chronic periodontitis (CP) and erectile dysfunction (ED) in young men. Although this is a relatively small study, they did find a positive association between ED and CP, with the strongest prevalence for CP amongst those with severe ED.

The Use of Emdogain in Treating Gingival Recession

Emdogain, which is an enamel matrix protein I often use when treating periodontal pocketing and bone loss, can also be utilized when trying to cover roots exposed by recession. As long as there is even a small zone of keratinized gingiva still remaining, the exposed root surface can be treated with Emdogain, and then the gingival tissues coronally positioned, sometimes without the need for palatal donor tissue. Even with conventional connective tissue grafting, the use of **Emdogain** can help improve the treatment outcome.

Below is an example of a patient I have treated recently using Emdogain in conjunction with a Connective Tissue Graft. Tissue colour and contour are excellent.

