

reporter

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Oral care for older adults

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dentures for the elderly

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in head and neck cancer cases

Case report: a complicated crown-root fracture



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a 6-month randomised, double-blinded, placebo-controlled clinical trial. All GAP patients received "full-mouth disinfection" followed by staged scaling and root planing without (placebo, n=17) or with (test, n=18) systemic antimicrobials (amoxicillin 500mg, AMX + metronidazole 250mg MET, t.i.d. for 10 days). Clinical parameters were measured at baseline, 3 and 6 months post-therapy. Statistically significant differences between groups at baseline were analysed by Mann-Whitney test, whereas comparisons over time were examined by GLM for repeated measurements. Both groups demonstrated similar improvements in most parameters over time. The test group presented greater mean PD reduction and CAL gain at sites with initially moderate PD at 6 months (p<0.03). No differences were seen between groups regarding mean reduction and mean gain respectively for PD and CAL initially ≥7mm. The test group had a higher percentage of sites which improved by ≥2mm and ended up with PD ≤4mm or a lower percentage of sites which worsened by ≥2mm, and remained with PD >4mm at 3 months (p<0.01). No differences were noticed between groups for those parameters at 6 months. Thus AMX + MET bring additional clinical effects to the repeated mechanical and antiseptic treatment of GAP, at very short time (3 months); the effect was not necessarily sustained over time (6 months).

Varela VM, Heller D, Silva-Senem MX, Torres MC, Colombo AP, Feres-Filho EJ *J Periodontol* 2011 Jan 14.



Adjunctive effect of a water-cooled Nd:YAG laser in the treatment of chronic periodontitis.

This study tested whether the use of a water-cooled Nd:YAG laser adjunctive to supra- and subgingival debridement (SRP) with hand and ultrasonic instruments results in greater clinical

improvement than SRP alone. Another objective was to investigate the reduction in the number of microorganisms as a result of the treatments. The study was an examiner-blind, randomised and controlled clinical trial using a split-mouth design. Nineteen subjects with moderate-to-severe generalised periodontitis were selected. Immediately following SRP in two randomly chosen contra-lateral quadrants, all pockets greater than 4 mm were additionally treated with the Nd:YAG laser (1064 nm, 6 W, 400 mJ). Clinical assessments (Plaque index, bleeding on pocket probing, probing pocket depth) were performed pre-treatment and at 3 months post-treatment. In each quadrant, one site was sampled for microbiological evaluation at pre-treatment, immediately post-instrumentation and 3 months post-treatment. At the 3-month visit, the clinical parameters had significantly improved for both regimens. No significant differences between treatment modalities were observed for any of the clinical parameters at any time. Immediately following instrumentation, the total colony forming units for both groups were significantly reduced as compared with pre-instrumentation. No significant differences between treatment modalities were observed. Three months after SRP, no

additional advantage was achieved with the additional use of the Nd:YAG laser. Microbiological findings reflected these clinical results. *Slot DE et al. J Clin Periodontol* 2011 Jan 11.

Association between periodontal infection and obesity: results of the Health 2000 Survey.

This study investigated the role of periodontal infection in obesity in an adult population. The study was based on a subpopulation of the Health 2000 Survey that included dentate and non-diabetic subjects, aged 30-49 years (n=2784). Obesity was measured using the body mass index (BMI), body fat percentage (BF%) and waist circumference (WC). The extent of periodontal infection was measured using the number of teeth with deepened (4 mm deep or deeper) periodontal pockets and was categorised into four categories (0, 1-3, 4-6, 7 or more). The number of teeth with deepened periodontal pockets was found to be associated with BMI in an exposure-response manner among the total study population. The association was found among men and women, and also among never-smokers. The number of teeth with deepened periodontal pockets was also associated with

BF% and WC among never-smokers. Periodontal infection measured by means of the number of teeth with deepened periodontal pockets appears to be associated with obesity. However, no inferences about causality can be made and further studies are needed to clarify the possible role of periodontal infection in obesity. *Saxlin T, Ylöstalo P, Suominen-Tajipale L, Männistö S, Knuutila M. J Clin Periodontol.* 2010 Dec 27.

ENDODONTICS



Revitalisation of tooth with necrotic pulp and open apex by using platelet-rich plasma: a case report.

A growing body of evidence is demonstrating the possibility of regeneration of tissues within the pulp space and continued root development in teeth with necrotic pulp and open apices. The purpose of this case report is to add a regenerative endodontic case to the existing literature regarding the use of platelet-rich plasma (PRP). An 11-year-old boy whose maxillary second premolar tooth had been accidentally extracted

Front Cover Product

Enhanced handheld X-ray system



The NOMAD Pro handheld dental X-ray system offers an enhanced user interface, preset and programmable

exposure settings and other time-saving features. The system is much lighter than the previous NOMAD Classic model. It is also cordless, thereby improving dental radiography speed, convenience and efficiency. The technology also ensures the highest level of safety for both patients and the dental team. The handheld, portable design enables movement from room to room within the dental practice, eliminating the need for multiple units. The entire unit weighs just over 2.2 kg. It is ideal for clinical, hospital, home health, nursing home and out of office use. The system is

also perfect for use on children, special needs patients and nervous adults. The long battery life allows hundreds of images to be obtained from just one battery charge. An external backscatter shield and internal radiation shield are included, specially designed to protect the operator from exposure.

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