

Oral Care and Probiotics

November 14-16, 2016 Orlando, USA

Surgical versus non-surgical periodontal therapy in reduction of periodontal pockets (5-8 mm depth)

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Introduction: Periodontal disease is a major problem affecting the human dentition. Early diagnosis and evaluation of the results of periodontal therapy is important in controlling the disease. The purpose of this randomized split mouth clinical trial was designed to compare the effectiveness of non-surgical periodontal therapy through plaque control, scaling and root planing with the surgical one using modified Widman's flap, in reduction of periodontal pockets 5-8 mm in depth.

Materials & Methods: Study populations consisting of 17 patients with advanced periodontal diseases were recruited from patients seeking treatment at Khartoum University Faculty of Dentistry Periodontic Clinic. No sex predilection, age range 35-45 years, without systemic diseases and did not use antibiotics in the previous 3 months. Then full mouth scaling, polishing and root planing with manual scalars were applied to all patients. After 7 days the modified Widman's flap procedure applied to one sextant which was randomly selected. Periodontal parameters measurements were taken again at days 28, 56 and 84th.

Results: For both surgical and non-surgical treated sites, the mean and standard deviations of periodontal parameters, plaque index (PLI), gingival index (GI), probable pocket depth (PPD) and gingival recession showed significant reduction except for the gingival recession which showed increment at the surgically treated sites.

Conclusions: Both surgical therapy using modified Widman's flap and non-surgical treatment by scaling and root planing are equally effective in the reduction of periodontal pockets (5-8 mm) depth.

Biography

Amel I. Faragalla BDS, has completed her masters completed from Khartoum University, MFD.RCSI Ireland. Presently She is working as a associate professor Department of Periodontics, Faculty of Dentistry, King Khalid University, Saudi Arabia

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