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Gingival Crevicular Fluid Level of Osteoprotegerin (OPG) in Chronic Periodontitis Patients

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Objective: The aim of this study is to evaluate the level of osteoprotegerin (OPG) on the gingival crevicular fluid (GCF) in chronic gingivitis and chronic periodontitis patients, to evaluate the efficiency of OPG as a biomarker and to determine the effect of phase I therapy on the level of OPG in GCF.

Methods: Thirty subjects were included in the study; ten subjects as healthy control, ten patients with chronic gingivitis and ten patients with chronic periodontitis. Full-mouth clinical periodontal parameters including periodontal probing depth, plaque index, gingival index and papillary bleeding index were recorded at baseline in all groups and after treatment in both study groups. GCF sample was collected at baseline and four, six and eight weeks after therapy for study groups and at baseline for the control group. GCF level of OPG was measured using assay ELISA kits and data were statistically analyzed using SPSS.

Results: A significant reduction in all clinical parameters (GI, PI, PPD, PBI and CAL) after phase I periodontal therapy in chronic gingivitis and chronic periodontitis groups. At the baseline, the level of OPG in GCF was significantly lower in chronic gingivitis and chronic periodontitis patients than in healthy subjects. After a phase I periodontal therapy, there was an increase in GCF-OPG level in chronic gingivitis patients and chronic periodontitis patients was found versus its level at baseline.

Conclusions: Level of OPG in GCF could be considered as novel biomarker in chronic periodontitis, also it was negatively correlated with the progression of periodontal disease.

Biography:

Fatma Mostafa holds a Bachelor of Science degree in Oral and Dental Surgery from the University of Mansoura, Egypt. For more than 10 years and in two different countries, her experience spans various areas of the modern dental practices including, digital radiology, cosmetic dentistry, small surgeries and conservative dentistry. During a five years' work experience in Saudi Arabia, Ms. Mostafa was the medical manager for a distinguished private dental center. Also, Ms. Fatma is a mother of two beautiful children who became her source of energy to always advances herself forward.