

ABSTRACT**Aim:**

The aim of the present study is to compare and to evaluate the effects of nonsurgical periodontal treatment on serum hs-CRP levels and blood parameters among patients with chronic periodontitis.

Materials and Methods:

A total of 60 patients both males and females in age group of 25-65 yrs were recruited for the study. The study population was divided into three groups: Group I-Healthy controls (n=20), Group II-Patients with moderate periodontitis (n=20) and Group III-Patients with advanced periodontitis (n=20). Blood samples were collected to assess hs-CRP and CBC levels prior and after non surgical periodontal therapy along with periodontal parameters.

Results:

The results were analyzed using t-test and one way ANOVA. The Group II (moderate periodontitis) and Group III (severe periodontitis) showed significant improvement of the clinical and hematological parameters; by statistically significant reduction in hs-CRP level, total leukocyte count, neutrophil count, lymphocyte count, platelet count and ESR level, with statistical significant improvement in total red blood cell count, hemoglobin and MCV values after I month of non surgical periodontal therapy. However, on comparison between two groups there was no significant difference after 1 month.

Conclusions:

Within the limitations of the study it can be concluded that, there is a decrease in CRP levels and hematological parameters after nonsurgical

periodontal treatment, which may possibly prevent the risk of future CVS events.

Keywords:

Periodontitis, hs-CRP, CBC, Non surgical periodontal therapy.