

Association of periodontal diseases with C reactive protein

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Abstract

The aim of this study was to evaluate the relationship between periodontal diseases and C reactive protein level. Fifteen patients (7 male, 8 female, mean age 34 ± 11.6) with chronic periodontitis and 10 ages and sex matched (7 male, 3 female and mean age 29 ± 10.4) periodontally healthy subjects recruited from the patients referred to the department of periodontics, Mashhad Faculty of Dentistry. In all the patients and controls Body Mass Index (BMI) was under 20 kg m^{-2} . Periodontal probing depth of Ramfjord teeth were recorded for both groups. Peripheral blood samples were collected and sent to the laboratory to determine the amount of CRP using a semi-quantitative method. The amount of CRP in the test group was 4.1 mg L^{-1} . In the control group it was 0.18 mg L^{-1} . CRP in the test group was significantly higher than the control group ($p = 0.008$). There was no significant correlation between the mean pocket depth and the CRP levels. Sex and age did not affect the amount of plasma CRP. Periodontal diseases can increase the amount of plasma CRP. This might be due to the infective nature of periodontal diseases.

Reaxys Database Information

Author keywords

Acute phase protein; C-reactive protein; Inflammation; Periodontitis

Indexed Keywords

EMTREE drug terms: C reactive protein

EMTREE medical terms: adult; age; article; blood sampling; body mass; clinical article; controlled study; correlation analysis; disease association; female; hospital department; human; laboratory test; male; patient referral; periodontal disease; periodontics; periodontitis; quantitative analysis; sex difference

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