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Erratum Article

COMPARATIVE ESTIMATION OF SALIVARY TOTAL ANTIOXIDANT CAPACITY IN PERIODONTAL HEALTH AND CHRONIC PERIODONTITIS - A PILOT STUDY

RAGHAVENDRA U[1], ANUPAMA RAO[2]*, JYOTHI DESOZA[1], VINITA RAMANATH PAI[1], SINDHU NAIR[1], VIJAYA KUMAR[2], BHUVANESH SUKHLAL KALAL[1]

[1]Department of Biochemistry, Yenepoya Medical College, Yenepoya (Deemed to be University), Mangalore, Karnataka, India. [2]Department of Periodontology, Yenepoya Dental College, Yenepoya (Deemed to be University), Mangalore, Karnataka, India.
Email: dranuperio@gmail.com

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ABSTRACT

Objective: Gram-negative bacteria provoke polymorphonuclear leukocyte (PMN) to release reactive oxygen species in chronic periodontitis (CP). Inability to maintain a balance between oxidative stress and antioxidant levels makes patients more susceptible to periodontal disease. The present study aims to estimate and compare salivary total antioxidant capacity (TAOC) in subjects with clinically healthy periodontium and patients with CP.

Methods: After fulfilling the selection criteria, a total of 20 subjects (10 with clinically healthy periodontium and 10 with CP) were subjected to unstimulated salivary sample collection for biochemical estimation of TAOC by spectrophotometric assay using Kovacevic method. Analysis of data was done with unpaired student t-test, using SPSS version 22 statistical program.

Results: Salivary TAOC was significantly higher in subjects with clinically healthy periodontium compared to CP patients. It was statistically significant ($p<0.001$).

Conclusion: This study indicated increased levels of salivary TAOC in patients with CP compared to clinically healthy periodontium. Alteration in defensive antioxidant status could be a risk factor in the progression of periodontal disease.

Keywords: Total antioxidant capacity, Chronic periodontitis, Polymorphonuclear leukocyte, Reactive oxygen species, Free radicals, Oxidative stress, Antioxidants.

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OLD AFFILIATION
1Department of Biochemistry, Yenepoya Medical College, Yenepoya (Deemed to be University), Mangalore, Karnataka, India.

NEW CORRECTED AFFILIATION
associate professor dept of biochemistry,centre for basic sciences, Kasturba Medical College mangalore, 575004, Manipal academy of higher education.