



Chronic Permanent Nonvalvular Atrial Fibrillation and Inflammatory Syndrome. It Is Possible a Contribution of Dental State to Sustain and Exacerbate Inflammation?

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Abstract:

The intervention of dental state (altered by chronic gum infections: parodontosis, gingivitis, parodontitis and carries) in cardiovascular disease (CVD) is now still in disputation. We think that, in patients with CVD and chronic nonvalvular atrial fibrillation (CAF), dental state may play a role in pathogenesis by increase of chronic low-level inflammation.

In a cross-sectional study, we analyzed 1081 patients (age: 69 years, male=323-29%) with CVD by clinical and laboratory investigations; 176 patients have CAF (mean age 69 years, male=40-22,7%), compared with the rest of 936 no CAF patients (mean age 57 years, male 323 (34,5%). Chronic inflammation was detected by serum fibrinogen (sF), leukocytes, CRP level, BSR. Dental state was an index calculated by sum of missing teeth with non-treated carries, already used early in other studies.

Results: statistically, chronic inflammation in CAF group differs from non-AF group mainly by: sF (445,5±138,0 versus 403,6±129,6, P<0,002), CRP (15,2±13,1 versus 9,5±7,9, P<0,05), dental state (21,9±9.9 versus 16.2±9.8, P<0,001). For leukocytes number and BSR we do not find a significant difference. By logistic regression, after adjusting for age, we obtained following OR: sF-1,891 (CI 05%- 1,144 - 3,127, P<0,013), dental state - 1,575 (CI 05%- 1,021



Biography: Ioan Gutiu MD, PhD (professor of medicine at „Carol Davila” University of Medicine and Pharmacy from Bucharest-Romania). His works, presented in conferences and in journals, are centered on atherogenesis, atherosclerosis risk factors, metabolic syndrome, role of some metabolic components in promoting of cardiovascular disease (uric acid, serum magnesium), role of inflammation in atherosclerosis, etc

Publications:

1. Evaluating the Mechanical Properties of Admixed Blended Cement Pastes and Estimating its Kinetics of Hydration by Different Techniques
2. Genetic Diversity Using Random Amplified Polymorphic DNA (RAPD) Analysis for *Aspergillus niger* isolates
3. Au-Ag-Cu nanoparticles alloys showed antifungal activity against the antibiotics-resistant *Candida albicans*
4. Induce mutations for Bavistin resistance in *Trichoderma harzianum* by UV-irradiation
5. Biliary Sludge. Analysis of a Clinical Case

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