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Correlation between the plasma fibrinogen concentration and coronary heart disease severity in Moroccan patients with type 2 diabetes

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Introduction: The present study aims at determining the relationship between the plasma fibrinogen concentration and the severity of coronary heart disease in type 2 diabetic patients.

Methods: Prospective analytical survey, based on a sample of 120 subjects divided in four groups: 30 diabetic coronary patients (G1), 30 coronary diabetic patients (G2), 30 non-coronary diabetic patients (G3), and 30 healthy subjects (G4). The correlation between fibrinogen and the quantitative cardiovascular risk factors (age, diabetes duration, hyperglycemia, obesity based on the body mass index (IMC>30Kg/m²), dyslipidemia manifested by low HDL cholesterol, and/or high LDL cholesterol and/or high TG; was done using Pearson's correlation coefficient "r".

Results: The average age was 59.58±7.88 years and female gender was predominated by 52.5%. The plasma fibrinogen concentration corresponded to 3.46g/L±0.86 in G1; 3.73g/L±1.11 in G2; 3.06g/L±0.98 in G3 and 2.46g/L±0.51 in G4; significant difference with fibrinogen and the four groups (P=0.001), also with the clinical and para-clinical coronary disease severity. The correlation between fibrinogen and LDL was significant (p=0.035) in the T2D patient's group (G3). In patients with type 2 Diabetes, the association of fibrinogen with diabetes duration was significant (p=0.036). The association of fibrinogen with both hypertension and smoking was significant in all groups; respectively (p=0.01) and (p=0.03).

Conclusion: In the Moroccan population, the plasma fibrinogen concentration was positively and significantly correlated with the coronary heart disease severity.

Biography

Asma Chadli is a Professor of Endocrinology and Diabetes at the Faculty of Medicine and Pharmacy, University Hassane II of Casablanca and Head of Unit of Endocrinology, Diabetes and Metabolic Diseases at Ibn Rushd University Hospital, Casablanca, Morocco. She is a specialist in diabetes and endocrinology. She was appointed as Assistant Professor of Endocrinology in Casablanca in 2001 and full-term Professor in 2005. Her main areas of research interest currently include the thyroid cancer and the type-2 diabetes mellitus. She has published her work in a number of international and national peer-reviewed journals. She has served many national and international committees and boards.

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