Evaluation of serum Adipolin levels with echocardiography and angiography finding in acute myocardial infarction patients and compared their results with stable angina

patient's results

Abstract

Background and Objective: Adipolin/C1q/TNF-related protein-12 is a family of CTRPs that is

highly expressed in adipose tissue and has glucose-lowering and anti-inflammatory effects.

Various risk factors have been suggested in the incidence of cardiovascular diseases such as a

decrease in anti-inflammatory or an increase in inflammatory factors. The purpose of the present

study was to investigate the correlation of adipolin with anthropometric, angiographic,

echocardiographic, and biochemical parameters

Methods: A total of 90 patients who were candidates for angiography were included in the study

and divided into three groups: 30 patients with acute myocardial infarction (AMI), 30 patients

with stable angina pectoris (SAP), and 30 subjects as control group with a history of chest pain

but normal angiography. Anthropometric, angiographic, echocardiographic, and biochemical

parameters were measured in all subjects.

Results. Serum adipolin levels were significantly decreased in patients with AMI compared with

SAP and control groups (P < 0.001 for both). In addition, there was a negative association

between serum level of adipolin and epicardial fat thickness (EFT) and Gensini score in CAD

patients. The results of multivariate linear regression analysis revealed that EFT values were

independently associated with serum adipolin levels

Conclusion: The current study showed an independent association of adipolin with EFT for the

first time in AMI patients. Decreased adipolin levels in patients with AMI may be involved in

the process of atherosclerosis, which needs further study

Keywords: Adipolin, AMI, Stable Angina