



 **Current Issue**

 **Browse Issues**

 **Search**




 **About this Journal**

 **Instruction to Authors**

 **Online Submission**

 **Subscription**

 **Contact Us**



 **RSS Feed**

## Acta Medica Iranica

2009;47(4) : 15-21

### EVALUATION OF AUTOANTIBODY AGAINST MODIFIED LDL LEVELS IN PATIENTS WITH CARDIOVASCULAR DISEASES

Sedigheh Asgari, Mojgan Gharipour, Gholamali Naderi, Babak Sabet, Alireza Khosravi, Mohammad Hashemi

#### Abstract:

Background: Atherosclerosis is a process that initiated with hypercholesterolemia and fatty streak formation. Previous studies showed oxidative modification of LDL render immunogenic and autoantibodies to epitopes of oxidized LDL. Oxidized LDL (OX-LDL), has antigenic properties. Antibodies against oxidized LDL have been proposed to be independent predictors of atherosclerosis development. The main aims of the current study were to compare antibody titers to different types of oxidized LDL (Cu+2-LDL, Malondialdehyde-LDL) and Native-LDL between angiographically documented coronary patients, non-documented patients and healthy subjects. Correlation between autoantibodies against oxidized LDL and increased risks of cardiovascular diseases has been shown. Methods: As a case-control study, we evaluated angiographically documented coronary patients, non-documented patients and healthy subjects to measure anti-OX-LDL autoantibody levels. Enzyme-linked immunosorbent assay was used to measure anti-OX-LDL autoantibodies. ANOVA test used for statistical analysis. Results: Titers of anti-Malondialdehyde-LDL autoantibodies were  $3.55 \pm 0.415$ ,  $0.361 \pm 0.20$ ,  $0.093 \pm 0.078$  respectively in each group ( $P < 0.005$ ). There was not statistically meaningful difference, between native-LDL and Cu+2-LDL antibodies. Conclusion: It seems the titre of autoantibodies against OX-LDL considered as a predictor of progression of atherosclerosis. Our data provide further support for a role of oxidatively modified LDL in atherogenesis.

#### Keywords:

Autoantibody against OX-LDL

TUMS ID: 1219

Full Text HTML  Full Text PDF  194 kB

top ▲

[Home](#) - [About](#) - [Contact Us](#)

TUMS E. Journals 2004-2009  
Central Library & Documents Center  
Tehran University of Medical Sciences

Best view with Internet Explorer 6 or Later at 1024\*768 Resolutions