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Pulse pressure and apolipoprotein B/apolipoprotein A1 in relation to the metabolic syndrome and its components

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Various studies have shown relation between increase of arterial stiffness and metabolic syndrome (MS). Some researchers have demonstrated that apolipoprotein B/Apolipoprotein A1 (Apo B/Apo A1) and pulse pressure (PP) are associated with MS. Objectives of this study are to evaluate influence of the metabolic syndrome and its components on PP and apolipoprotein B/Apolipoprotein A1.

A total of 107 persons without any apparent disease were selected. Among these subjects MS was found in 36. One way ANOVA test, multiple comparison test of means and multiple logistic regression analyses are used.

The four groups used in ANOVA are men and women with and without MS. The ANOVA F-statistic is 3.683 with p-value 0.0145. The multiple comparison test showed differences between subjects with and without MS. The first logistic regression includes gender, PP and Apo B/Apo A1. The results showed that for simultaneously increase of PP with 5 mm Hg and increase of Apo B/Apo A1 with 0.05045 it was expected about 1.5787 times increase in the odds ratio (OR) of MS. In the second logistic regression the PP and all other components of MS are included. The result showed that for increase of PP with 5 mm Hg it was expected about 1.5787 times increase in the OR of MS.

The results indicated relation between wide PP and increase of OR of MS. The increase of OR of MS with parallel increase of PP and Apo B/Apo A1 is obtained. Increase of PP and Apo B/Apo A1 influence on cardio metabolic risk.

Biography

Galya Naydenova Atanasova completed her Ph.D. training in Cardiology from Department of Cardiology, Pulmonology and Endocrinology at Pleven Medical University, Bulgaria. She is a General Practitioner and Cardiologist in Trainee at Pleven Medical University, Bulgaria. She specialized in General Medicine from Pleven Medical University, Bulgaria during 1993. She has attended to many International Events and presented her research work. She did many researches on metabolic syndrome and myocardial infarction of heart.

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