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Mean arterial pressure as a component of metabolic syndrome

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Objectives of this study were to evaluate opportunities of using of mean arterial pressure (MAP) as a component of the Metabolic Syndrome (MS) instead Systolic and Diastolic Blood Pressures (SBP and DBP) and to create a model, using logistic regression. A total of 104 persons without any apparent disease were selected. Among these people MS was found in 35, according to NCEP-ATP III definition. One way ANOVA test, multiple comparison tests of means and multiple logistic regression analyses were used. The MAP was obtained by the formula $MAP = SBP/3 + 2DBP/3$. The four groups used in ANOVA were men and women with and without MS. The ANOVA F-statistic is 17.71 with p-value less than 0.00001.

Multiple logistic regressions were used to determine odds ratio (OR) of MS. The first model included the following components of MS - waist (WS), HDL cholesterol, blood glucose (GLU) and serum triglycerides (TG). The second model included WS and TG. MAP was used as the last variable in the both models. The p-values for overall models fit statistic was less than 0.00001. The values of regression coefficients and corresponding p-values were calculated (Table 1). Thresholds for OR above which the decision about presence of MS should be made, were found.

The results indicated strong relation between value of MAP and MS. The proposed model showed a reliable determination of MS, using only one biochemical marker.

Biography

Galya Naydenova Atanasova completed her PhD training in cardiology from Department of Cardiology, Pulmonology and Endocrinology at Medical University, Plevan, Bulgaria. She specializes in Cardiology, Cardiologist, General Practitioner and Assistant Professor at Plevan Medical University, Bulgaria. She has attended many international events and presented her research work. Her major research focuses on metabolic syndrome, myocardial infarction, and genetic markers. She also serves on several national and international committees. She has served on the Editorial Board of International Journal of Clinical Cardiology, etc. She was nominated by the Foundation Photon for research contributions with Academic Excellence Award-2015 and Photon Innovations-2015 Award.

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