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Assessing the impact of blood pressure on myocardial infarction risk by logistic regression models

Galya Naydenova Atanasova, Penka Stefanova, Niaz Syed Basha and Momchil Ivanov
Pleven Medical University, Bulgaria

Hypertension is quantitatively the most important risk factor for premature cardiovascular disease, being more common than cigarette smoking, dyslipidemia, and diabetes, which are the other major risk factors.

The purpose of this study was to estimate the impact of the blood pressure on the prematurity of occurrence of myocardial infarction by logistic regression analysis.

During year 2012 study in 99 subjects with survived MI, inhabitants of Pleven region in Republic of Bulgaria was conducted. The following biomarkers are tested (fasting): HDL-cholesterol, serum triglycerides (TG) and total cholesterol (TC). Data processing is a logistic regression analysis.

In this study developed two regression models. The first model includes DBP, level of Tg and TC level. The impact of the increase in DBP by 10% on average OR was significantly less in women than in men. The second model includes DBP, Tg levels and levels of HDL-cholesterol. With the greatest influence of DBP in men, where the OR increased 2.19 fold increase in DBP of 10% from the average, while the increase for women was almost twice less.

For men, the second level of influence risk factor is the DBP, and for women it is Tg. Third degree of risk factor for women is total cholesterol and in men at this level and the level of HDL-cholesterol have almost the same effect.

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.

maa_05@abv.bg
gal_na69@abv.bg

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