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**Acid uric levels are associated with NT-proBNP levels among patients with heart failure****Andrej Dukat, Peter Sabaka, Jan Gajdosik, Terezia Szadocka, Lucia Serugova, Marian Zelina and Fedor Simko**  
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**Statement of the Problem:** N-terminal pro brain natriuretic peptide (NT-proBNP) levels are useful biomarkers for the diagnosis and prognosis of heart failure (HF) patients. However, the data on association of uric acid (UA) concentrations and NT-pro BNP are still lacking.

**Methodology & Theoretical Orientation:** The relationships of UA, NT-proBNP, clearance of creatinine and NYHA function class and echocardiographic variables in primary care patients with HF were investigated.

**Results:** 848 patients (402 men, 446 women) with the mean age of  $70.1 \pm 7.5$  SD were included in the study. NT-proBNP concentrations correlated with UA levels in both men and women after adjusting for age, body mass index (BMI) and glomerular filtration rate ( $r=0.096$ ,  $p<0.0001$ ;  $r=0.123$   $p<0.0001$ ). UA concentrations rose with the severity of NYHA class and was significantly higher in patients with moderate and severe both systolic and diastolic dysfunction in a multivariate analysis.

**Conclusion & Significance:** A positive correlation between the concentrations of UA and NT-pro BNP in patients with HF has been observed. UA levels were associated with the severity of the disease. It is suggested that the level of UA, analogically to NT-proBN may be another important biochemical biomarker of severity and prognosis among patients with HF.

**Biography**

Andrej Dukat is a Professor of Internal Medicine at Comenius University. He has his expertise in Epidemiology, Prevention and Treatment of Cardiovascular Diseases in Slovakia. His clinical practice included non-invasive cardiac diagnosis, research in the field of Hypertension, Lipids and Diabetes. After years of his experiences in Preventive Cardiology, he wrote articles in the peer-reviewed papers and in the textbooks. He is teaching Internal Medicine to pre-graduate, post-graduate and foreign medical students. He is the past-President of the Slovak Society of Internal Medicine, was member of the boards, and is the fellow and honorary fellow of several scientific societies. He has conducted and is still conducting several clinical trials as the National Coordinator. He is responsible for the accreditation of the universities and teaching schools in the field of Medicine and Pharmacy in Slovakia.

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