



Original article

Troponin and C-reactive Protein in Risk Stratification after Myocardial Infarction

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SUMMARY

The aim of this study was to investigate the prognostic significance of troponin I, C-reactive protein and risk factors for the occurrence of complications after myocardial infarction.

Troponin I and C-reactive protein values were analyzed in 38% of patients with complications (postinfarction angina, ventricular fibrillation, heart failure and fatal outcome) and in 62% of patients without complications. Values were recorded on admission and between the eighth and tenth day of hospitalization.

It was found that a larger number of risk factors ($p = 0.00$), diabetes mellitus ($p = 0.02$) and smoking ($p = 0.01$) were significantly associated with the complications. It was shown that hypertension increases the risk of developing heart failure after acute myocardial infarction ($p = 0.02$). It resulted with statistically non-significant difference in the observed values of troponin I between the group of patients with complications and the group without them ($p = 0.22$, $p = 0.327$). There was a statistically significant difference in the observed values of C-reactive protein in the two groups of patients ($p = 0.00$, $p = 0.01$).

It can be concluded that the values of troponin I had no prognostic significance in risk stratification, while the values of C-reactive protein, individual risk factors and a large number of risk factors had significance in risk stratification after myocardial infarction.

Key words: myocardial infarction, troponin I, C-reactive protein, risk factors

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