



Outcomes. Thus, the most significant positive changes as decreasing of neuro- humoral mediators (copeptin and MRproADM), normalization of morpho-functional characteristics (because of reverse remodeling of left ventricle) and indices of lipid profile were found in patients, who recieved zofenopril, which represent high cardioprotective activity.

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**DYNAMICS OF SOLUBLE CD40-LIGAND AND VON WILLEBRAND FACTOR  
WITHIN THE FIRST DAY OF ACUTE MYOCARDIAL INFARCTION IN  
PATIENTS WITH CONCOMITANT DISTUBBANCES OF CARBOHYDRATE  
METABOLISM**

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Department of Internal Medicine № 2, Clinical Immunology and Allergology  
named after L.T. Malaya

Research advisor: MD, Prof. Kravchun P.

Aim of study: to estimate the dynamics of endothelial-dependent markers - sCD40L and VWF in patients with acute myocardial infarction (AMI) and diabetes mellitus type 2 (DM2).

Materials and methods: 70 patients with AMI and type 2 DM were enrolled in the study. They were divided depending on the time that has passed after occurrence of pain syndrome caused by AMI: 12 patients within 2 hours after AMI; 13 patients within 2-6 hours after AMI; 45 patients after 6 hours of AMI. VWF blood serum levels were determined with commercial enzyme linked immunosorbent assay ELISA kit (Technoclone, Vienna, Austria), sCD40L level – with the usage of commercial ELISA test kit (YH Biosearch Laboratory, Shanghai, China). The data were processed statistically with Microsoft Office Excel software: the mean arithmetial value (M) and standard error of the mean (m) were calculated, for estimated probability and validity of the obtained data, Student's t-test (p) was done.

Results. According to the received data, the highest concentrations of sCD40L and vWf were registered in the interval of 2-6 hours after occurrence of AMI ( $3,95 \pm 0,01$  ng/ml and  $2,09 \pm 0,01$  IU/ml accordingly). Considering that sCD40L and vWf, that mainly expressed on the surface of endotheliocytes and platelets, their high concentrations



show the highest activity of the inflammatory reaction and clot formation in the coronary arteries in this time period.

Conclusions. It has been demonstrated that maximal activity of intravascular inflammation and clot formation takes place after 2 hours of AMI that might lead to the development of complications of AMI. Taking it into account, we can conclude that urgent percutaneous coronary intervention performed within 2 hours after occurrence of pain syndrome related to AMI can improve patient's prognosis.

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**MEANING OF ENDOTHELIAL-DEPENDENT MEDIATORS IN THE PREDICTION OF CARDIOVASCULAR DEATH IN PATIENTS WITH ACUTE MYOCARDIAL INFARCTION AND DIABETES MELLITUS TYPE 2**

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Aim of study: to develop a prediction model of cardiovascular death in patients with acute myocardial damage (AMI) and diabetes mellitus type 2 (DM2).

Materials and methods: 60 patients with AMI and type 2 DM were enrolled in the study. They were divided depending on the occurrence of acute cardiovascular death in acute period of AMI: 7 patients died during the acute period of myocardial infarction; 53 patients survived during an acute period of myocardial infarction. sVE-cadherin blood serum levels were determined with commercial enzyme linked immunosorbent assay ELISA kit (Bender MedSystems GmbH, Vienna, Austria), CD40L level – with the usage of commercial ELISA test kit (YH Biosearch Laboratory, Shanghai, China). The data were processed statistically with Microsoft Office Excel software: the mean arithmetical value (M) and standard error of the mean (m) were calculated, for estimated probability and validity of the obtained data, Student's t-test (p) was done.

Results. Assessment of endothelial-dependent mediators, namely sCD40-ligand and sVE-cadherin, presents a great interest because insufficient decreasing of sCD40-ligand level within 10 days under the influence of treatment is associated with the