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## Dynamics of the functional state of the kidneys in patients with Diabetes mellitus in the process of PCI with a high risk of CI-AKI in the background of the use of preventive measures

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**Aim:** Analysis of the pathogenetic mechanisms of the development of contrast nephropathy in patients with coronary artery disease on the background of type 2 diabetes mellitus and the effectiveness of the proposed preventive measures.

**Materials and methods:** The first stage, a retrospective one, included a comparative analysis of two groups of diabetic patients who underwent an endovascular radiopaque procedure (EVRCP): 29 patients who developed CI-AKI (CI-AKI+ group) and 27 patients in whom the post-procedure period was uneventful. CI-AKI was defined as an increase in venous creatinine concentration of more than 25% by the end of 48 hours after EVRD.

**Results of the study:** we developed a risk scale for the development of CI-AKI in patients with DM. In the process of compiling the scale, the value of RR for the development of CI-AKI in the presence of the corresponding factor, rounded to the nearest whole number, was used as risk coefficients. According to the developed scale, in the presence of a risk factor, the patient is assigned a certain score. The score determines the risk of CI-AKI.

**Conclusion:** A risk score of 28 points or more demonstrates a predictive sensitivity in terms of the development of CI-AKI of 96.55% ( $p < 0.001$ ).

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