

**CAN WE CORRELATE TREAT THE KIDNEY CANCER WITH INTRA-OPERATIVE HEMOSTASIS?
ESTABLISHING MODEL FOR SPECIFIC HEMOSTASIS BIOMATERIALS COVERED WITH CYTOSTATICS ON A
MOUSE C57B1/J KIDNEY MELANOMA**

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Introduction: Nephron Sparing Surgery – gives opportunity to preserve nephrons during oncological surgery. In a small percentage of cases is presented occur recurrence of cancer. No standards procedures for hemostatic and oncostatic materials have been implemented for NSS. We will be assessed the usefulness of collagen biomaterials and biomaterials obtained by electrospinning (Electrospinning), selected biopolymers and nanomaterials. This idea is the use of these dressings also covered trade oncostatic action to supply the wound after NSS.

Material and method: 20 adult C57B1/J mice with induced kidney melanoma were used in experiment. Ethical committee permission was obtained. 106 cells were implanted into the capsula fibrosa of the left kidney. After two weeks we have resect a melanoma b16 tumor with surrounding margin in 10 mice (GROUP A), and without the surrounding margin in a last 10 mice (GROUP B). The kidney dissection preparates has been rated by histological analyse. After resection the wounds has been bear with electrospined and collagen biomaterials covered with platinum compounds

Results: We have shown sizes and character of progress of the kidney melanoma in 3 times periods include the renal status after NSS. All used in experiments biomaterials for wound dressing met their task as hemostatic materials.

Conclusion: The results of histological examination analyse shown that used in our study model of the mouse kidney cancer is having regard to the human appropriate kidney cancer and could be used in potential studies of intra-operative hemostasis correlated with treat of kidney cancer with new hemostatic patch covered with cytostatics.