

**Abstract Submission No.: A-0082****The first experience of transplantation of the bladder en bloc with the kidney and ureters in an animal experiment**

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**Case Study :** Introduction. The purpose of our study is to evaluate the effectiveness of transplantation of a donor kidney, ureters and part of the bladder en bloc to a recipient with simulated microcystitis in an experiment on pigs. Materials and methods. A total of 10 white Landrace pigs were used in the study - 5 donors and 5 recipients. The pigs were 3-4 months old, weighing 35 - 45 kg, regardless of gender. After acclimatization of the animals under endotracheal anesthesia, the left kidney with the ureter, part of the bladder and one third of the right ureter were removed from the donor as a single block. The recipients also underwent laparotomy, removal of the right kidney with ureter, part of the bladder and lower 1/3 of the right ureter. Then orthotopic transplantation of the removed organs was performed. After surgery, recipients were observed for 3-8 days. Then relaparotomy, visual assessment of the grafts and tissue biopsy for histological examination were performed. The animals were then euthanized Results. Survival among 5 recipients was: 1 recipient - 3 days, 2 recipients - 5 days, 2 recipients - 8 days. The first "patient" underwent relaparotomy due to deterioration of his condition due to urinary leakage. Histological examination also showed the presence of total necrosis of the tissue of the implanted bladder. In 2 recipients urinary leakage was noted and part of the bladder with perforation of the wall. 2 pigs survived 8 days without complications. The histological picture showed relatively satisfactory blood flow in the graft tissues. Conclusions. This study showed that en bloc transplantation of the kidney, ureters and part of the bladder is feasible. This research has been funded by the Science Committee of the Ministry of Science and Higher Education of the Republic of Kazakhstan (Grant No. AP19677564).