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## Robot-assisted pancreatic surgery: The major Russian experience

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**Background:** Robotic Technology is a fast developing part of contemporary surgery. There are insufficient researches about feasibility of the robotic pancreatic resections. We present our single center experience in the robot-assisted pancreatic surgery.

**Aim:** To estimate the feasibility of using robotic complex in pancreatic surgery.

**Material and methods:** 93 patients were surgically treated for the period between 2009 and 2017 using robotic complex “DaVinci S” due to pancreatic tumors in abdominal department No.1 A. V. Vishnevsky Institute of Surgery, Moscow, Russia. There were performed 17 pancreaticoduodenectomies, 49 distal pancreatectomies, 19 tumor enucleations, 6 median pancreatectomies and 2 total duodenumpancreatectomies.

**Results:** Operation time depended of surgeries volume: during pancreaticoduodenectomy it was 400 (360;505) min, distal pancreatectomy – 210 (178;250) min. Average blood loss in pancreaticoduodenectomy was 200 (150;500) ml, in distal pancreatectomy – 100 (50;300) ml, tumor enucleations and median pancreatectomies – minimal blood loss. Conversion to laparotomy was performed in 4 cases: 2 in pancreaticoduodenectomy, 1 in distal pancreatectomy and 1 in tumor enucleation. Postoperative complications occurred in 38 cases: there were 35 pancreatic fistulas; on the background of pancreatic fistula in 6 cases postpancreatectomy haemorrhage occurred.

**Conclusion:** Initial indications for robot- assisted procedures are malignant and borderline malignant pancreatic T1-T2 staged tumors, also benign tumors less than 5–6 cm. With learning curve indications for robot-assisted pancreatic surgery can be extended. Robot-assisted technology do not afford significant decrease quantity of post operative complications.

## Biography

Ayrat R Kaldarov, PhD, MD, surgeon of Abdominal Surgery Department No.1 of AV Vishnevsky Institute of Surgery. In 2012 graduated Siberian State Medical University. Has completed his PhD at the age of 27 by theme “Feasibility of robot-assisted technology in treatment patients with pancreatic tumors”. He has more than 35 publications in Russian and foreign journals. Preferences: pancreatic surgery, neuroendocrine tumors of the pancreas, cystic lesions of the pancreas, complicated chronic pancreatitis.

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