Minimally-invasive methods of acute pancreatic post necrotic pseudocyst treatment

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Statement of the Problem:
Acute necrotic pancreatitis (ANP) remains complicated problem of urgent surgery because of high frequency of systemic, purulent and septic complications, mortality rate, which is in patients with infected pancreonecrosis 14.7-26.4%.

Purpose:
The purpose of this study is to evaluate efficiency and establish indications for minimally invasive methods of treatment of post-necrotic pseudocyst of pancreas.

Methodology & Theoretical Orientation:
For diagnostics ultrasonography was used, diagnostic laparoscopy, helical CT with contrast strengthening. Endoscopic interventions were applied by duodenoscopes “Olympus” under control of X-ray machine “Siemens BV 300”. Cystodigestive fistulas were created by prickly papilotoms. For providing of long passability of cysto-digestive fistula were used two endoprosthoses like “pig tail” sized 10 Ft with length 5-6 cm. For transpapillary drainage were used pancreatic endoprosthoses like “pig tail”, sized 5-7 Ft with length 5 cm

Findings:
In 82 (68.2%) patients were applied minimally invasive methods of treatment; Percutaneous external drainage in 38 (46.3 %) patients, endoscopic transmural drainage of post-necrotic pseudocyst in 22 (26.85%) patients. Combined endoscopic interventions were applied in 22 (26.85%) patients. In particular, endoscopic transmural drainage with temporary stenting of pancreatic duct in 11 (50%) patients, endobiliary stenting with temporary stenting of pancreatic duct in 5 (22.7%) patients, temporary stenting of pancreatic duct in 4 (18.2%) patients, endoscopic transmural drainage with percutaneous external drainage in 2 (9.1%) patient

Conclusion & Significance:
Usage of combined minimally invasive methods of treatment of acute necrotic pancreatitis complicated by post-necrotic pseudocyst help to improve results of treatment, reduction of complications amount, contraction of stationary treatment terms and improving of life quality.

Recent Publications:

Biography:
Nazar Omelchuk works as an Abdominal Surgeon at Ivano-Frankivsk Regional Hospital and at Ivano-Frankivsk National Medical University. He is pursuing his PhD about minimally-invasive methods of acute pancreatic post-necrotic pseudocyst treatment. He has three registered patents about new ways of acute pancreatic post-necrotic pseudocyst treatment.