Case Report:
A Rare Case of Vascularization of the Body and Tail of the Pancreas

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Abstract: In the past decade there was an increase in the frequency of operations on the pancreas. This is largely due to the decrease in postoperative mortality and complications of these procedures. Knowledge of variant anatomy of this organ can help to avoid blood loss and irreversible necrotic changes of the abdominal cavity as a result of surgery. During macro and microscopical anatomical dissection of a 72 years old male organ complex we discovered a rare variant of arterial blood supply to the tail and body of the pancreas.

Key Words: Great pancreatic artery, Pancreas, Vascularization, Anatomy, Dissection

Introduction:
Pancreas throughout history has been little studied organ. From the depths of the abdominal cavity, it attracted little attention of scientists for centuries. Until the XX century surgery on the pancreas is rarely done, because of the high mortality and the number of complications in case of damage of the body.(1)

In the past decade there was an increase in the number of operations on the pancreas. This is largely due to the decrease in postoperative mortality and complications of these procedures. However, despite the advances in modern surgery, the problem of post-operative complications during interventions on the pancreas is still relevant.(2)

The abundant blood supply, the presence of rare variations of arterial supply of the pancreas makes it all important factors that should be considered in the course of surgical procedures on the pancreas and spleen. Knowledge of variant anatomy of the body can help to avoid blood loss and irreversible necrotic changes of the abdominal cavity as a result of surgery.(3)

Case Report
During macro and microscopical anatomical dissection organ complexes, including the pancreas and spleen (male, 72 years), we discovered a rare variant of arterial blood supply of the pancreas. The body and tail of the pancreas was vascularized by a great pancreatic artery, which had a length of 7.5 cm till the entrance of the pancreatic parenchyma and a diameter of 0.6 cm. The vessel branched off at a distance of 6.7 cm from the beginning of the splenic artery, and entered its own groove on the surface of the pancreas that had a depth of 1.1 cm (Fig. 2). In the parenchyma of the pancreas the artery divided into two branches. The upper branch of the great pancreatic arteries supplied the pancreatic parenchyma in its upper part of the body and the tail. The lower branch of the artery significantly surpassed the length and diameter of the upper branch. It further divided in the body and over the entire length of the tail of the pancreas (Fig. 3).
it anastomoses with the transverse pancreatic artery and 2% of cases with the posterior pancreatic artery.(6) Disruption of the integrity of the great pancreatic artery during chronic pancreatitis and pseudocysts can cause bleeding that may require emergency surgical intervention.(5) The presence of such long branches pancreatic artery should be taken into account during surgical procedures and pathological conditions.

Conclusion
Surgical manipulations on the pancreas are complex procedures of abdominal surgery, which requires the surgeon not only to have manual dexterity, but also a good knowledge of the anatomy of the region. Information on the blood supply of the pancreas can help minimize intraoperative and postoperative complications.

References