Pancreaticoduodenectomy is the procedure of choice for several diseases from benign or pre-malignant lesions to malignancy. One of the most frequent late complications is the stenosis of the pancreatic-enteric anastomosis. This complication is observed in 25%–60% of radiological images during follow-up. Although frequent, this stenosis is often asymptomatic but in certain circumstances this stenosis may lead to recurrent acute pancreatitis, pain and pancreatic exocrine insufficiency. About 2% of all patients will develop a symptomatic pancreaticojejunostomy stricture needing treatment. We present an alternative technique for the surgical revision of pancreaticojejunostomy using robotic approach. A 60-year-old woman underwent laparoscopic Whipple procedure two years ago. After 6 months, she presented with acute pancreatitis. MRI showed mild dilation of the main pancreatic duct and the patient was conservatively treated. However, since then, she presented several episodes of acute pancreatitis. MRI showed a complete stenosis of the pancreaticojejunostomy with pronounced dilation of the main pancreatic duct. Multidisciplinary team decided for revision surgery. A new technique was used. After adhesiolysis, the pancreaticojejunal anastomosis is identified. Distal pancreas is then detached from the jejunal loop with scissors from anterior towards posterior interrupted sutures. The duct-to-mucosa anastomosis area, which is stenotic, is divided with scissors. However, it is completely fibrotic, and the previous anastomosis cannot be identified. The posterior layer is kept intact. Next step is to remove a part of the proximal pancreas in a pyramidal shape towards the posterior layer. This maneuver removes the fibrotic area and the dilated pancreatic duct is opened. A small opening in the jejunum is performed and a duct-to-mucosa anastomosis is performed using absorbable continuous suture. Anastomosis is completed with interrupted seromuscular-pancreatic sutures. Operation is completed with drainage of the abdominal...

Cavity. Operative time for docking of the robotic system was four minutes. Redo pancreaticojejunostomy took one hour. Estimated blood loss was minimum, and recovery was uneventful. Patient was discharged on the 3rd postoperative day. No pancreatic fistula was observed, and drain was removed on the 5th postoperative day. Patient presented no recurrence of acute pancreatitis during one year of follow-up. Robotic redo pancreaticojejunostomy is feasible and safe. This alternative technique maintains this anastomosis assembled thus reducing the operative time and technical difficulties to perform this complex operation. This video shows the different steps necessary to perform this operation and will be useful for all surgeons having to perform a revision pancreaticojejunostomy.

**FIGURE 3.** Alternative technique for redo pancreaticojejunostomy.
A. Schematic drawing shows pancreaticojejunostomy with stenosis of duct-to-mucosa anastomosis. Close-up shows the site of stenosis. B. Intraoperative view after adhesiolysis. Pancreaticojejunostomy is identified. C. Intraoperative view after removal of the anterior layer and pyramidal resection of the pancreas exposing the dilated main pancreatic duct. Posterior layer is preserved to maintain the anastomosis assembled. D. Schematic drawing after removal of the anterior layer and partial pancreatic resection shows dilated main pancreatic duct, stenotic duct-to-mucosa anastomosis and preserved posterior layer. Close-up shows the pyramidal resection of pancreas, preserving posterior layer.

**FIGURE 4.** Alternative technique for redo pancreaticojejunostomy.
A. Intraoperative view after completion of duct-to-mucosa anastomosis. B. Schematic drawing shows duct-to-mucosa anastomosis. C. Schematic drawing after completion of redo pancreaticojejunostomy. D. Intraoperative view after completion of redo pancreaticojejunostomy.

**Authors’ contribution**
Machado MAC and Makdissi FF carried out the operative procedure. Machado MCC and Machado MAC conceived the technique. Ardengh JC and Makdissi FF supervised and commented on the manuscript. All authors discussed the results and contributed to the final manuscript.

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