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## Robotic Pancreaticoduodenectomy With Biodegradable Ductal Stenting (Archimedes BPS®).

Roberto TROISI<sup>1</sup>, Roberto MONTALTI<sup>1</sup>, Mariano GIGLIO<sup>1</sup>, Gianluca ROMPIANESI\*<sup>1</sup>

<sup>1</sup>HPB, Minimally Invasive And Robotic Surgery Unit, Federico II University Hospital Of Naples, ITALY

**Background**: Postoperative Pancreatic Fistula (POPF) development remains a challenge after pancreaticoduodenectomy, occurring in 3–45% of cases. The placement of a trans–anastomotic Wirsung stent is usually done in high–risk patients to decrease incidence and severity of POPF.

**Methods**: Herein, we present a fully robotic pancreaticoduodenectomy with a biodegradable ductal stent interposition in a 47 y.o. female with a main duct IPMN of the pancreatic head and a fistula risk score of 6 (Moderate-risk).

Results: After gastrocolic ligament division and hepatic flexure and duodenum mobilization, the locoregional lymphadenectomy was performed. Following gastric transection with endo-GIA, the bile duct and gastroduodenal artery have been divided, and the cholecystectomy performed. The neck of the pancreas has been transected, the jejunum divided with endo-GIA and mobilized from the Treitz ligament, and the uncinate process dissected from the mesenteric vessels. A Blumgart anastomosis has been performed between the soft-texture pancreatic stump and the jejunal loop with the interposition of a 6 Fr/60 mm long, medium degrading stent (20 days) in the 2 mm duct (Archimedes BPS®, AMG Int., Winsen-Germany). The hepatico-jejunostomy and gastro-jejunostomy have been performed distally on the same loop. Three abdominal drains have been positioned.

Conclusions: Surgery lasted 480 min, with 175 mls blood loss. The patient postoperatively developed a biochemical leak and was discharged home by day 12. She was readmitted a month later for an amylasenegative intra-abdominal abscess that was successfully treated with percutaneous drainage.

Corresponding Author: Gianluca ROMPIANESI (gianlucarompianesi@gmail.com)