## CASE REVIEW

Successful relief of biliary obstruction with normalization of serum bilirubin

Case submitted by Todd H. Baron, M.D. Chapel Hill, North Carolina





**GORE® VIABIL®**Biliary Endoprosthesis

#### CASE TAKEAWAYS



# This case illustrates the benefits of important design features in a clinical setting:

- The lack of foreshortening (*Figure 1*) of the device enabled placement of the stent precisely with the proximal end below the bifurcation:
  - Prior surgical resection left little room below the biliary bifurcation, with the short residual common hepatic duct anastomosed to the jejunum.
  - This prevented obstruction of one side of the biliary tree.
- Secondly, the stent can be passed through a longer length smaller channel endoscope (pediatric colonoscope).

Figure 1: GORE® VIABIL® Biliary Endoprosthesis



#### PATIENT CHARACTERISTICS



Patient gender: Female

Patient age: 66

Patient condition(s)/diagnosis: Adenocarcinoma of the pancreatic head cancer

Patient revisions/history: Whipple operation (pancreaticoduodenectomy)

#### CASE DETAILS



- Presenting issue: Malignant biliary obstruction in the setting of post-surgical anatomy.
- Description of treatment approach: An endoscopic retrograde cholangiopancreatography (ERCP) was initially attempted with a small caliber colonoscope (pediatric colonoscope), however there was an obstruction.

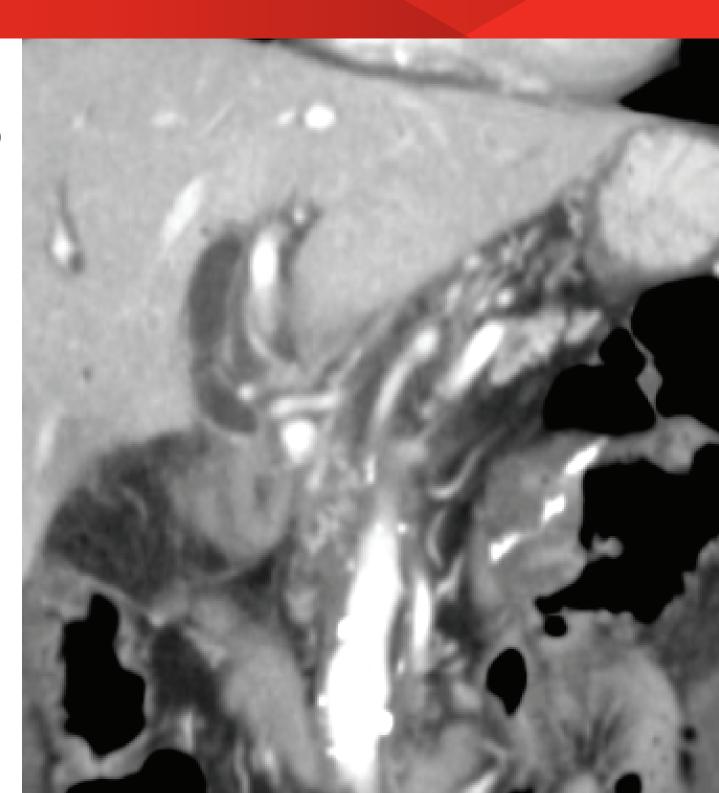
The endoscope was passed into the afferent limb, but the biliary anastomosis (hepaticojejunostomy) was obstructed. Endoscopic Ultrasound-guided Rendezvous (EUS-RV) technique was performed using a therapeutic channel linear echoendoscope initially to view the obstruction.

The left hepatic duct was punctured with a standard 19 gauge BOSTON SCIENTIFIC EXPECT SLIMLINE (SL) EUS Aspiration Needle and a cholangiogram showed obstruction of the common hepatic duct (*Figure 2*).

Figure 2: Coronal computed tomography (CT) prior to endoscopic intervention showing dilated biliary tree with obstruction at the hepaticojejunostomy by soft tissue mass.

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An OLYMPUS® VISIGLIDE Guidewire 450 cm long was passed antegrade into the biliary tree, across the hepaticojejunostomy and into the jejunum (*Figure 3*).

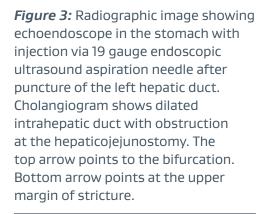
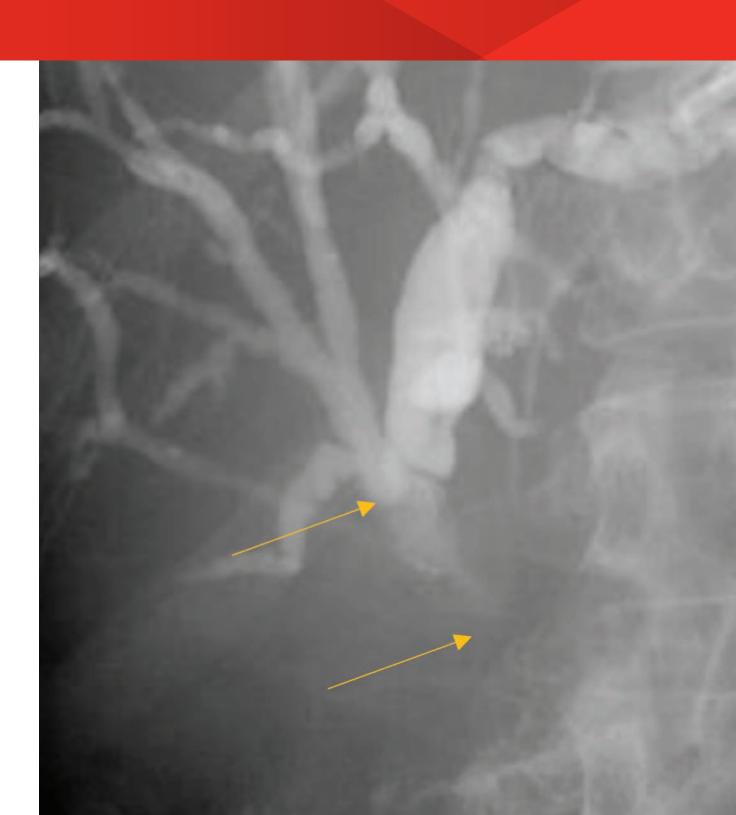


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The forward viewing endoscope was reintroduced and the guidewire was grasped and withdrawn through the endoscope (*Figure 4*).

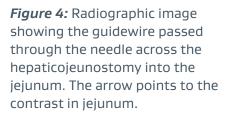
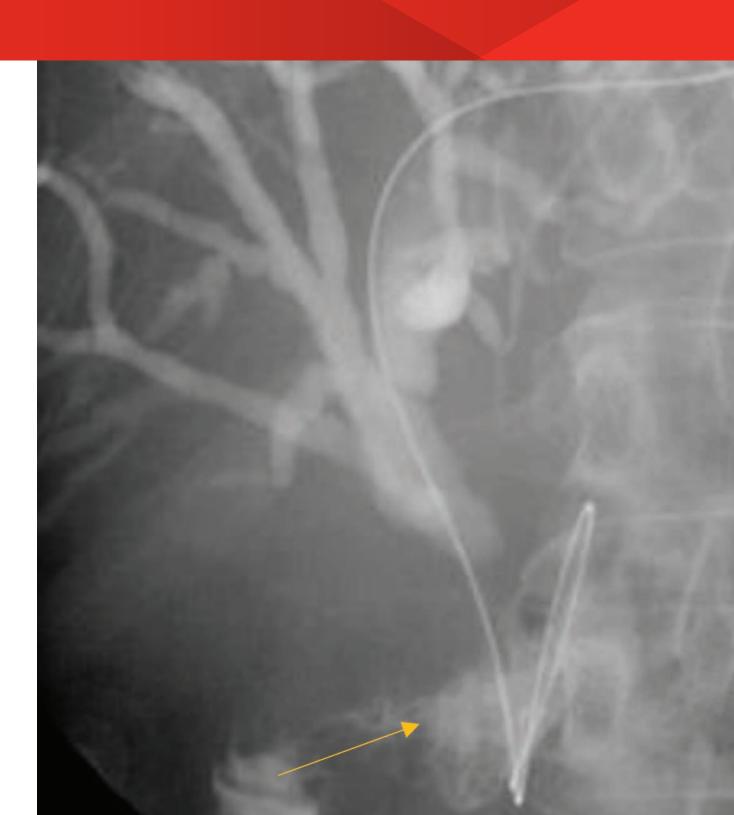


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Over the guidewire a 10 mm diameter X 4 cm length GORE® VIABIL® Biliary Endoprosthesis was placed via ERCP with the proximal end just below the biliary bifurcation (Figures 5 and 6) and the distal end in the duodenum (Figure 7).

Figure 5: Radiographic image showing forward-viewing endoscope positioned in the jejunum with guidewire grasped. The arrow points at midpoint of stricture.

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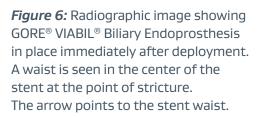
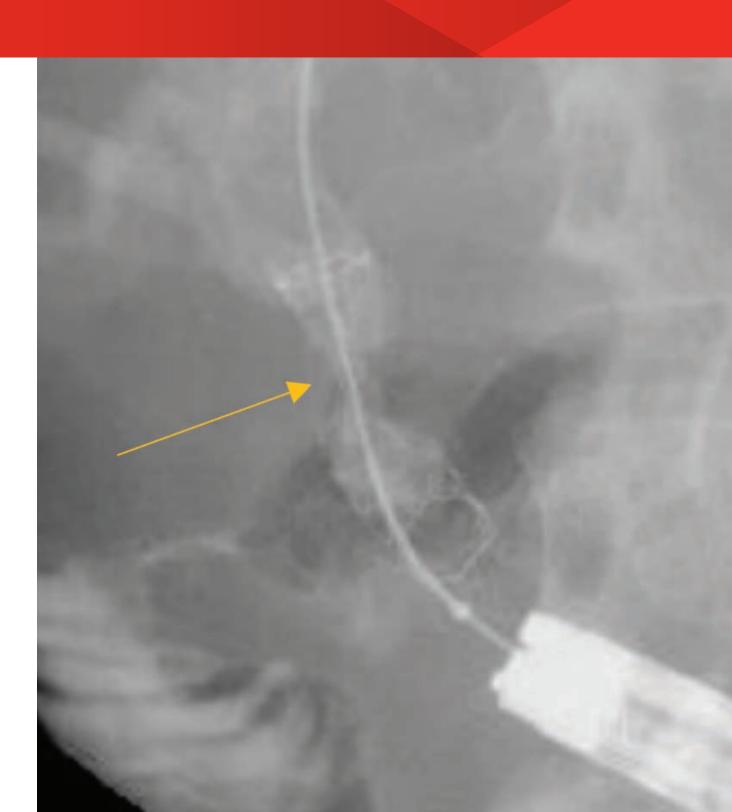


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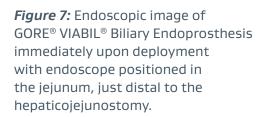
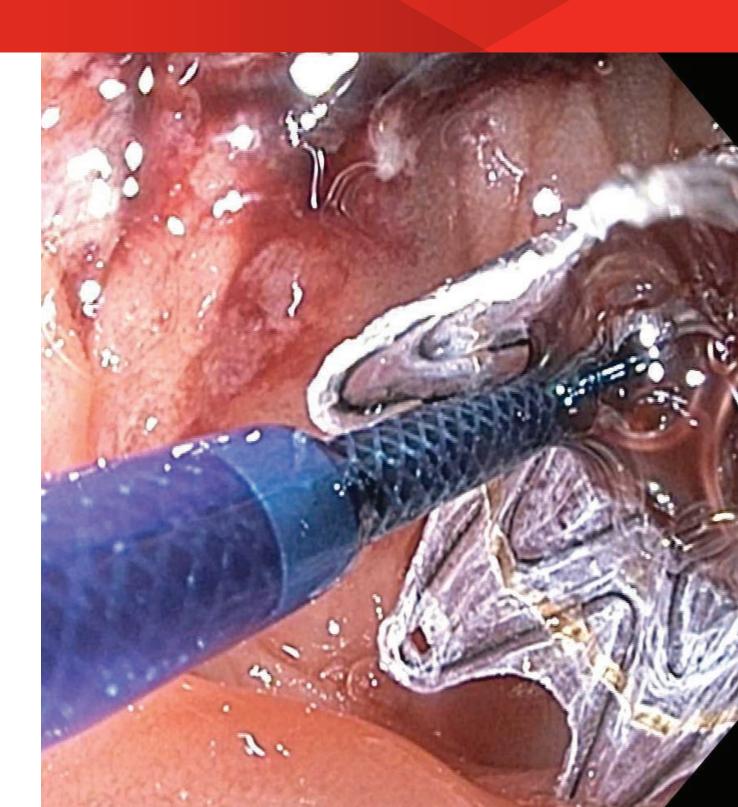


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### **RESULTS** -



- Post treatment outcome: Successful relief of biliary obstruction with normalization of serum bilirubin.
- **Follow-up:** Two months post-procedure the serum bilirubin remained normal. However, the patient died later due to complications from the progressive malignant disease.

The outcomes and observations reported are based on individual case experience and the patients treated. The steps described here may not be completed and are not intended to be a replacement for the *Instructions for Use* or the education, training and professional judgment of healthcare providers (HCP). HCP remain solely responsible for making decisions about patient care and the use of medical technologies.







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**Asia Pacific** +65 6733 2882 **Australia/New Zealand** 1800 680 424 **Europe** 00800 6334 4673 **United States** Flagstaff, AZ 86003 800 437 8181 928 779 2771

