



## Guide to Surgical Procedures on Hollow Viscera: Part 2—Colorectal, Ostomy, and Malabsorptive Bariatric Procedures

Amanda Roberts<sup>1</sup>  
Randy Fanous<sup>2</sup>  
Nasir M. Jaffer<sup>2</sup>  
Robin McLeod<sup>2</sup>  
Tanya P. Chawla<sup>2</sup>  
W. Frederick As<sup>2</sup>  
Sangeet Ghai<sup>2</sup>

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<sup>1</sup>Department of General Surgery, University of Toronto, 500 University Ave., Toronto, ON M5G 1Y7, Canada. Address correspondence to A. Roberts (amanda.roberts@utoronto.ca).

<sup>2</sup>Department of Medical Imaging, University of Toronto, Mount Sinai Hospital/University Health Network, Toronto, Ontario, Canada.

<sup>3</sup>Department of General Surgery, Mount Sinai Hospital, Toronto, ON, Canada.

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**OBJECTIVE.** The objective of this article is to explore with a surgical perspective the key radiologic features of common bariatric, colorectal, and ostomy procedures. The images and diagrams show relevant postoperative anatomy.

**CONCLUSION.** An understanding of procedures on the hollow viscera is essential for a radiologist at any level. The ability to quickly recognize postoperative anatomy is critical to accurately and efficiently interpret routine imaging studies and to diagnose postoperative complications.

**S**urgical procedures are performed on hollow viscera from the esophagus to the anus. Understanding the postoperative anatomy of these procedures is increasingly important because a timely diagnosis can affect patient care and outcome. Many patients undergo multiple procedures over a lifetime, making understanding of each procedure crucial. Postoperative evaluation is performed with various imaging modalities. Urgent evaluation is most commonly performed with CT because of accessibility and ease of interpretation. Although urgent postoperative evaluation with gastrointestinal imaging modalities, such as fluoroscopy, is not common, nonurgent indications for these investigations require that radiologist thoroughly understand the anatomy after gastrointestinal operations because radiologic interpretation can be altered. The purpose of this article is to sequentially explore procedures commonly performed for benign and malignant disease of the intestines. Procedures on the esophagus and stomach and additional bariatric operations are described in Part 1, which also appears in this issue.

### Bariatric Surgery

With the ever-growing incidence of obesity around the world, bariatric procedures are becoming an increasingly important aspect of surgical practice. Bariatric surgery can induce weight loss by two methods, restriction and malabsorption [1]. Restrictive procedures include laparoscopic adjustable gastric banding and sleeve gastrectomy and are described in Part 1. Malabsorptive procedures include bil-

iopancreatic diversion and jejunioileal bypass. Combinations of these procedures include Roux-en-Y gastric bypass and biliopancreatic diversion with duodenal switch [1].

#### Jejunioileal Bypass

Jejunioileal bypass (Fig. 1A) was performed mainly during the 1950s to 1970s. It was the origin of the malabsorptive bariatric procedures [1]. The procedure involved bypassing most of the small bowel with a short segment (~30–35 cm) of jejunum, which was anastomosed to the terminal ileum. This bypass resulted in an unacceptable incidence of malnutrition complications and is therefore no longer performed. Older patients, however, may still have this anatomic configuration [2].

#### Biliopancreatic Diversion

The first step in biliopancreatic diversion (Fig. 1B) is subtotal gastrectomy, which results in a residual gastric pouch. The terminal ileum is then divided 250 cm proximal to the ileocecal valve [1]. The distal end of the divided terminal ileum is anastomosed to the remnant stomach, and the proximal end is anastomosed to the terminal ileum approximately 75–100 cm proximal to the ileocecal valve. Propylactic duodenocystectomy can be performed because of the high incidence of gallstones secondary to malabsorption of bile salts.

#### Biliopancreatic Diversion With Duodenal Switch or Duodenal Switch Alone

Because of the high rate of marginal ulcer associated with biliopancreatic diversion, the duodenal switch procedure (Fig. 1C) was devel-

# Guide To Surgical Procedures

**Rachel Sandford**



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