

Surgical images: soft tissue

Postgastrectomy benign gastrojejunal fistula

A 66-year-old man presented with a history of diarrhea (10 bowel movements per day) for 3 months. Besides weight loss (20 kg), no other symptoms were manifested. Abdominal physical examination was normal. His medical history was marked by a partial gastrectomy due to peptic disease 10 years earlier (BII reconstruction). A colonoscopy evidenced an inflammatory ulcerative

process in the transverse colon. An upper endoscopy (Fig. 1) revealed an ulcer in the gastroenterostomy. A barium enema was performed and the radiograph is shown in Figure 2.

Gastrocolic fistula was first described by Czerny in 1903. It may be caused by a myriad of diseases, such as cancer of the colon and stomach, trauma, ulcerative colitis, diverticulitis, intraabdominal

abscesses, syphilis, tuberculosis, peritonitis, peptic ulcer and after operations on the stomach or colon. Postgastrectomy gastrojejunal fistula reached an incidence of 8% to 22% in patients with recurrent ulcers in a prevagotomy era and when gastrectomy for peptic disease was a common operation.¹ Today the disease is rare because of the decrease in surgery for peptic disease and better clinical con-

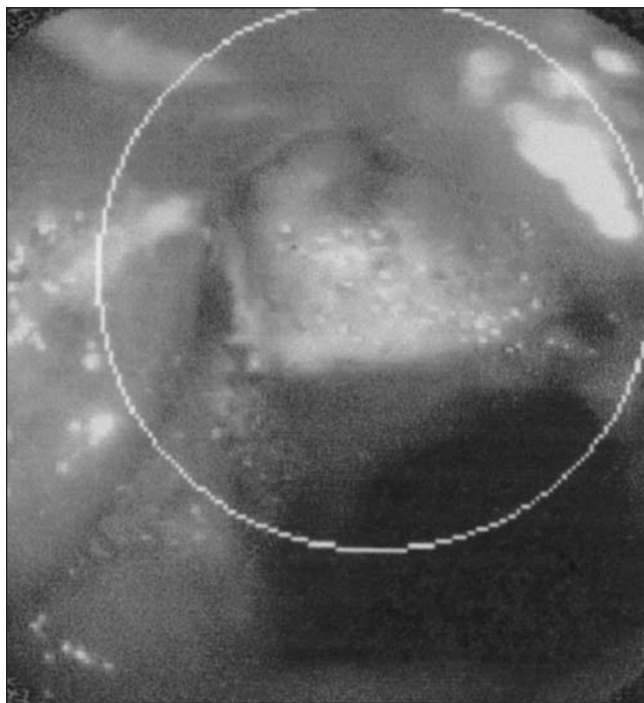


FIG. 1. Upper endoscopy shows an ulcer in the gastroenterostomy of a partial gastrectomy.



FIG. 2. Barium enema radiograph reveals passage of contrast to the gastric pouch and jejunum limb used for the gastroenterostomy.

Submitted by Fernando A.M. Herbella, MD^{††} Jose C. Del Grande, MD,^{*} Howard L. Beaton, MD,[†] from the ^{*}Esophagus and Stomach Division, Surgical Gastroenterology Department — Escola Paulista de Medicina — UNIFESP, São Paulo, Brazil, and the [†]Department of Surgery, New York University School of Medicine, New York.

Submissions to the Surgical Images, soft-tissue section, should be sent to the section editors: Dr. David P. Girvan, Victoria Hospital Corporation, PO Box 5375, Station B, London ON N6A 5A5 or Dr. Nis Schmidt, Department of Surgery, St. Paul's Hospital, 1081 Burrard St., Vancouver BC V6Z 1Y6.

Correspondence to: Dr. Fernando A.M. Herbella, Rua Diogo de Faria 1087, cj 301, São Paulo SP 04037-003, Brazil; fax 55-11-50833455; herbella.dcir@unifesp.epm.br

Imagier chirurgicale



FIG. 3. Surgical specimen of an en bloc resection of the fistula and affected parts of the stomach, jejunum and colon.

trol of recurrent ulcers; however, because the condition can occur 20 years after the initial surgery, some cases are still reported.²

Colonoscopy is frequently performed, particularly because of history of diarrhea, which is the most common symp-

tom; however, it lacks sensibility and specificity.² Gastroscopy might show a stomal ulcer or the fistula.² Barium enema remains the main diagnostic tool, correctly diagnosing the fistula in almost 100% of cases.^{1,2} Additional findings that can be noted on barium enema radiographs are enlarged gastric rugae, dilatation of jejunal loops, jejunitis, abnormal gastroenterostomy function and gastrojejunal ulcer.³ Conversely, upper digestive series have a sensitivity of only 30%,^{2,3} because most fistulae permit the passage of contrast only in a retrograde fashion.³

In the reported case, a CT was also done (not shown) and did not show abnormalities. Although most surgeons do not routinely recommend a CT scan, we believe that it is important in order to exclude extraluminal diseases that may be the cause of the fistula.

In most cases, the disease is treated

with en bloc resection of the fistula and affected parts of the stomach, jejunum and colon² (Fig. 3).

Competing interests: None declared.

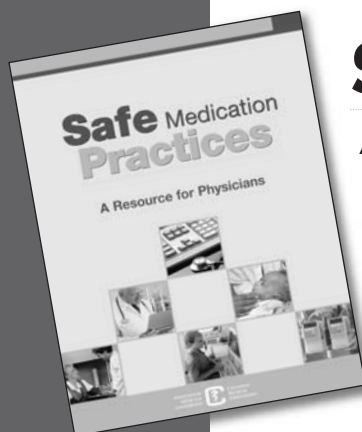
References

1. Wagtmans M, Kooy M, Snel P. Persistent diarrhoea in cholecystocolic and gastrocolic fistula after gastric surgery. *Neth J Med* 1993;43:218-21.
2. Ohta M, Konno H, Tanaka T, et al. Gastrojejunocolic fistula after gastrectomy with Billroth II reconstruction: report of a case. *Surg Today* 2002;32:367-70.
3. Thoeny RH, Hodgson JR, Scudamore HH. The roentgenologic diagnosis of gastrocolic and gastrojejunocolic fistulas. *Am J Roentgenol Radium Ther Nucl Med* 1960;83:876-81.

cma.ca

Interested in patient safety?

Check out this new book from the Canadian Medical Association



Safe Medication Practices

A resource for physicians

The only Canadian resource of its kind, this book is an indispensable educational and reference tool for physicians who want to find out more about patient safety and improving medication practices.

Bonus to CMA members: free access to an online course. For details visit cma.ca or contact the CMA Member Service Centre.

To order, contact the CMA Member Service Centre at 888 855-2555, email cmamsc@cma.ca or fax 613 236-8864.
CMA members: \$39.95 Nonmembers: \$49.95 (plus taxes and shipping)

Due to licensing restrictions, this book is available only in Canada. Also available in French.