



FIGURE 351-12 Medical management of inflammatory bowel disease. 5-ASA, 5-aminosalicylic acid; CD, Crohn's disease; UC, ulcerative colitis.

of patients with UC. This syndrome consists of increased stool frequency, watery stools, cramping, urgency, nocturnal leakage of stool, arthralgias, malaise, and fever. Pouch biopsies may distinguish true pouchitis from underlying CD. Although pouchitis usually responds to antibiotics, 3–5% of patients remain refractory and may require glucocorticoids, immunomodulators, anti-TNF therapy, or even pouch removal. A highly concentrated probiotic preparation with four strains of *Lactobacillus*, three strains of *Bifidobacterium*, and one strain of *Streptococcus salivarius* can prevent the recurrence of pouchitis when taken daily.

Crohn's Disease Most patients with CD require at least one operation in their lifetime. The need for surgery is related to duration of disease and the site of involvement. Patients with small-bowel disease have an 80% chance of requiring surgery. Those with colitis alone have a 50% chance. Surgery is an option only when medical treatment has failed or complications dictate its necessity. The indications for surgery are shown in Table 351-8.

SMALL INTESTINAL DISEASE Because CD is chronic and recurrent, with no clear surgical cure, as little intestine as possible is resected. Current surgical alternatives for treatment of obstructing CD include resection of the diseased segment and stricturoplasty. Surgical resection of the diseased segment is the most frequently performed operation, and in most cases, primary anastomosis can be done to restore continuity. If much of the small bowel has already been resected and the strictures are short, with intervening areas of normal mucosa, stricturoplasties should be done to avoid a functionally insufficient length of bowel. The strictured area of intestine is incised longitudinally and the incision sutured transversely, thus widening the narrowed area. Complications of stricturoplasty include prolonged ileus, hemorrhage, fistula, abscess, leak, and retractor.

There is evidence that mesalamine, nitroimidazole antibiotics, 6-MP/azathioprine, infliximab, and adalimumab are all superior to placebo for the prevention of postoperative recurrence of CD. Mesalamine is the least effective, and the side effects of the nitroimidazole antibiotics limit their use. Risk factors for early recurrence of disease include cigarette smoking, penetrating disease (internal fistulas, abscesses, or other evidence of penetration through the wall of the bowel), early recurrence since a previous surgery, multiple surgeries, and a young age at the time of the first surgery. Aggressive postoperative treatment with 6-MP/

TABLE 351-8 INDICATIONS FOR SURGERY

Ulcerative Colitis	Crohn's Disease
Intractable disease	Small Intestine
Fulminant disease	Stricture and obstruction
Toxic megacolon	unresponsive to medical therapy
Colonic perforation	Massive hemorrhage
Massive colonic hemorrhage	Refractory fistula
Extracolonic disease	Abscess
Colonic obstruction	Colon and rectum
Colon cancer prophylaxis	Intractable disease
Colon dysplasia or cancer	Fulminant disease
	Perianal disease unresponsive to medical therapy
	Refractory fistula
	Colonic obstruction
	Cancer prophylaxis
	Colon dysplasia or cancer