

Surgery for Complicated Crohn's Disease

Walter R. Peters, MD, MBA
Baylor University Medical Center
April 14, 2018

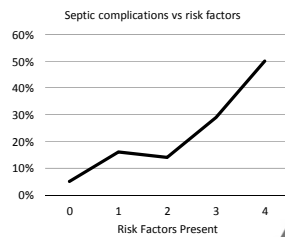


Surgical concerns

- Sepsis from abscesses
 - IR percutaneous drainage?
 - Surgical drainage?
 - No drainage?
- Obstructive symptoms
 - Resection?
 - Medical treatment?
 - TPN?

Post-operative sepsis

- 566 operations for CD
- 1008 anastomoses
- Risk factors
 - Albumin < 3.0 g/dl
 - Corticosteroid use
 - Abscess or fistula present at surgery



Yamamoto T, et al. Dis Colon Rectum 2000;43:1141-1145

Intra-abdominal abscesses

- Factors predicting successful medical therapy
 - 114 patients at Harborview VA
 - 54% resolved with antibiotics (4.0 cm mean)
 - 46% required IR drainage (6.5 cm mean)
- Review of spontaneous abscesses in Crohn's Disease
 - < 3 cm and no steroids or fistula: antibiotics and observation
 - > 3 cm or steroids or fistula: IR drain plus antibiotics
 - Surgery only for failures



Kumar R, et al. Dis Colon Rectum 2005;49:183-189
Feagins, et al. Clin Gastro Hepatol 2011;9:842-850

Short Bowel Syndrome

- Crohn's with SBS is a leading diagnosis for home TPN
- Recurrent operations for Crohn's
- Median number of operations is four
- Risk factors
 - Younger age of first operation
 - Operations for complications
 - Less than 180-200 cm small bowel



Limketkai, et al. Inflamm Bowel Dis 2016;22:1209-1218

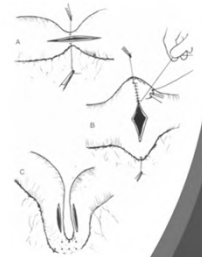
Annals of the Royal College of Surgeons of England (1982) vol. 64

ASPECTS OF TREATMENT*

Minimal surgery for chronic obstruction in patients with extensive or universal Crohn's disease

Emanoel C G Lee MCh FRCS FRCSEd
Gastroenterology Unit, John Radcliffe Hospital, Oxford
Nicos Papaioannou MD
Diagnostic and Therapeutic Institute of Piraeus, Metaxas Memorial Hospital, Piraeus, Greece

- Nine patients considered "inoperable"
- No deaths or major morbidity
- All patients regained weight



Strictureplasty can preserve bowel length



- Indicated for multiple strictures
- Previous extensive resection
- Risk of Short Bowel Syndrome
- Recurrent strictures
- Technique depends on length of stricture

BaylorScott&White
HEALTH

Multiple techniques for strictureplasty

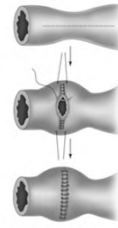


FIGURE 49-3 Fibrous strictureplasty

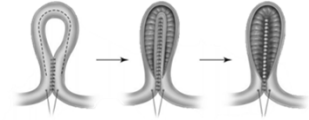


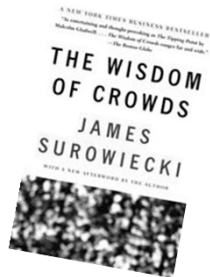
FIGURE 49-4 Fleshy strictureplasty

BaylorScott&White
HEALTH

Multidisciplinary Team Decision Making

Requirements:

- Diversity of opinion
- Independence
- Specialization
- Aggregation

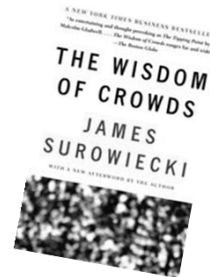


BaylorScott&White
HEALTH

Multidisciplinary Team Decision Making

Pitfalls:

- Status
- Sequential decisions
- Shouting
- Silos



BaylorScott&White
HEALTH

Surgery for complex Crohn's Disease

- Requires consideration of multiple treatment options
- Evidence is lacking for many options
- Multidisciplinary treatment planning is beneficial
 - Diverse opinions
 - Independence
 - Specialization
 - Aggregation

BaylorScott&White
HEALTH