Inflammatory Intestinal Diseases

Ulcerative Colitis

- Unknown etiology
- **Mucosal inflammation and ulceration** in the large intestine
- **Always involves the rectum**
- Early; Widespread fuzzy, serrated ulcerations
- Late; Rigid tube appearance, ‘lead pipe’
- Complications; Toxic megacolon, carcinoma
Ulcerative Colitis

- Fine serrated margins
- Represents mucosal ulcerations

Ulcerative Colitis

- Close up serrations
Ulcerative Colitis

- Diffuse involvement with ulcerations

- Extensive descending colon involvement with deep ulcerations of mucosa.
Ulcerative Colitis

- Fine serrations in the sigmoid colon.

Ulcerative Colitis

- AP film from air contrast barium enema
- Acute disease
- Smooth surface distal colon and rectum or fine serrations
- Loss of haustra
- Some narrowing
Ulcerative Colitis Chronic

- Areas of marked narrowing
- Shortening of the colon
- Abnormal smoothness
- No haustrations

Crohn’s Disease

- Unknown etiology
- Transmural process
- Any part of alimentary tract
- Mostly terminal ileum, proximal colon, may affect the duodenum
Crohn’s Disease

- Cobblestone appearance (edema with criss-crossed ulcers)
- Skip areas of normal bowel
- Complications - obstruction, fistulas and abscess

Regional Enteritis

- Separation of loops
- Skip areas of more normal appearing small intestine
- Areas of edematous small intestine
- Areas of narrowing
Regional Enteritis

- Marked narrowing of the terminal ileum

Crohn’s Disease

- Spot films of terminal ileum
- Areas of narrowing separated by areas of more normal bowel
- Separation of loops
- Fistulas (arrow)