

Case History B-1325945

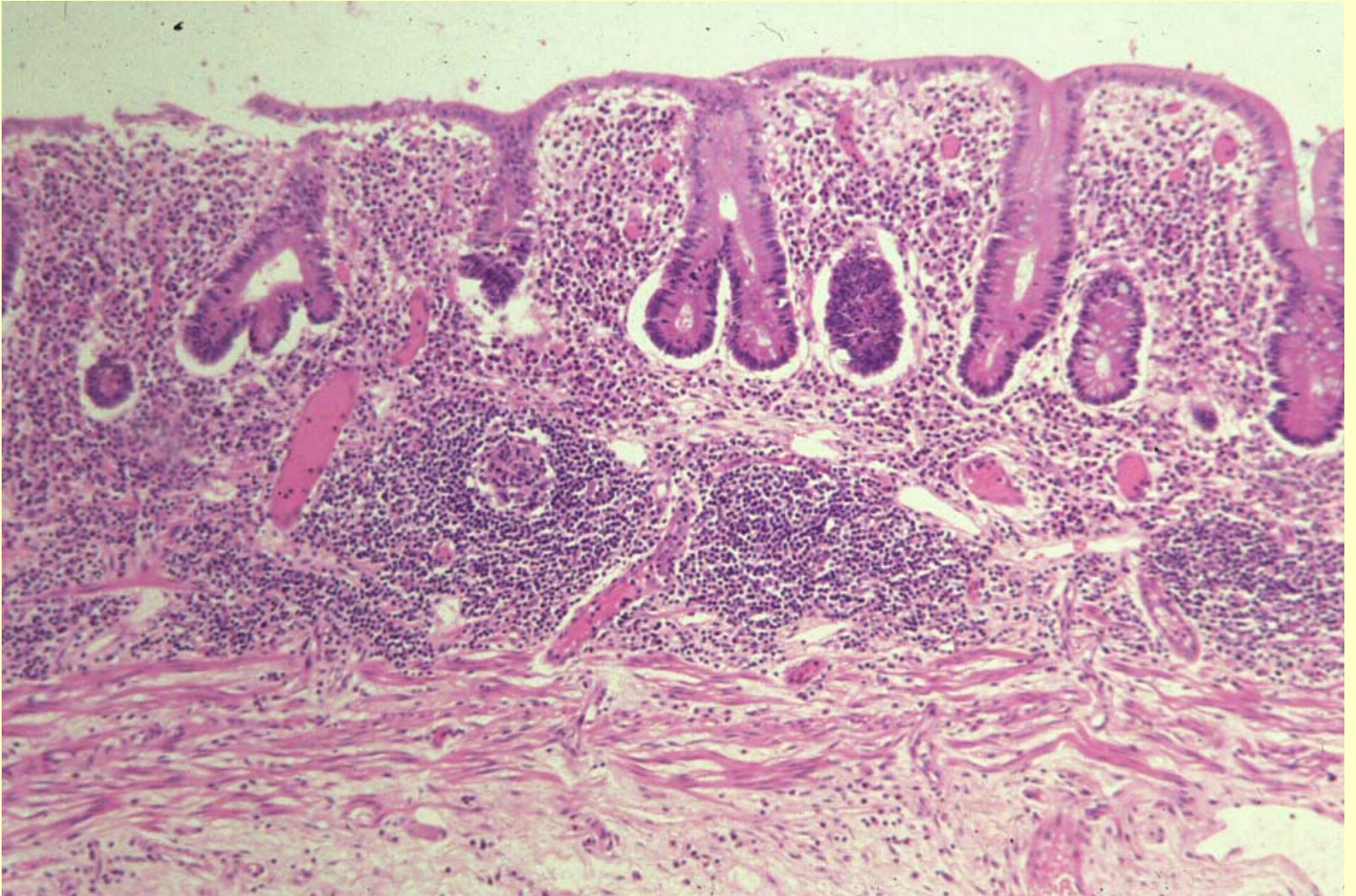
- *Female patient* °1970
- *Clinical History : crampy abdominal pain and episodes of bloody diarrhea*
- *Surgical treatment*

Case History B-1325945

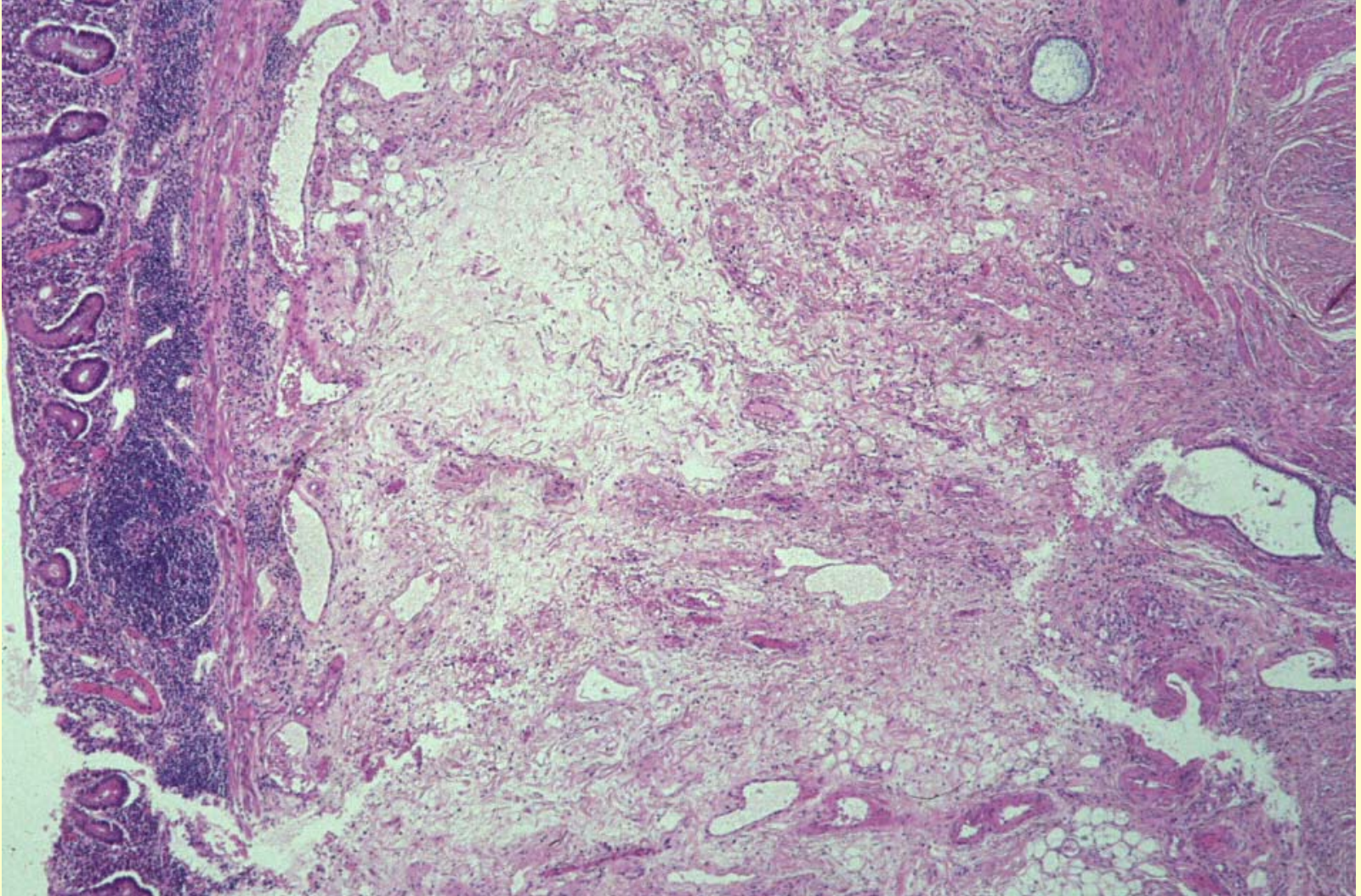
Pathology

- Submucosa & Muscularis**
 - **Endometriosis**
- Mucosa :**
 - **extensive architectural abnormalities**
 - Shortened crypts**
 - Branching crypts**
 - **Paneth cell metaplasia**
- Inflammation**
 - **Transmucosal inflammation**
 - **Crypt abscesses**

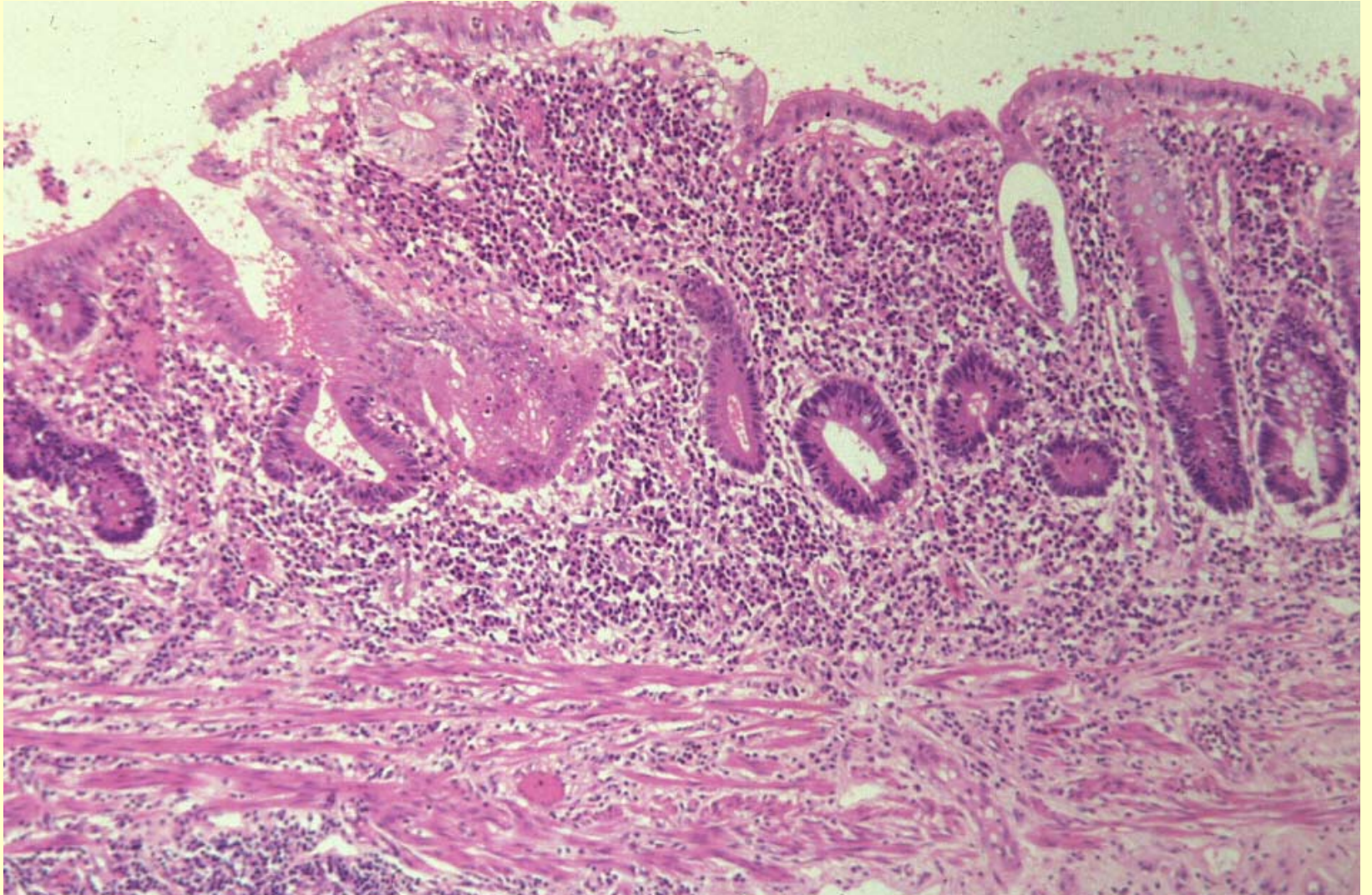
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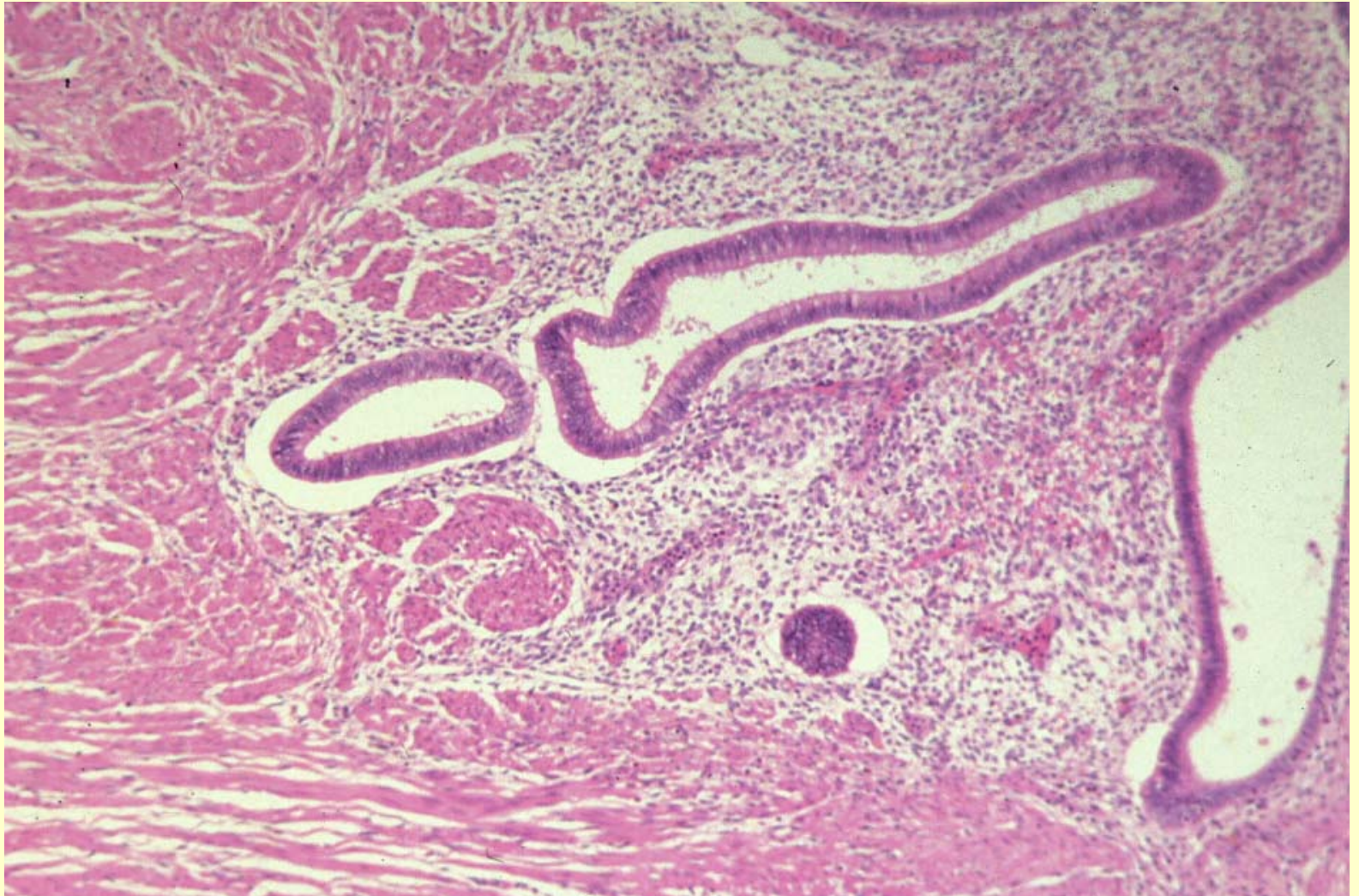
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Endometriosis and IBD

- Endometriosis of the large bowel is common (15-20% of cases)
- Symptoms
- Intestinal endometriosis may mimic Crohn's disease but can also be associated with Crohn's disease.
- The presence of endometriotic deposits in the bowel wall may lead to changes resembling inflammatory bowel disease

Endometriosis and IBD

- Craninx M, D'Haens G, Cokelaere K, Baert F, Penninckx F, D'Hoore A, Ectors N, Rutgeerts P, Geboes K. Crohn's disease and intestinal endometriosis : an intriguing co-existence. *Eur J Gastroenterol Hepatol*, 2000; 12: 217-221.
- Cappell MS, Friedman D, Mikhail N. Endometriosis of the terminal ileum simulating the clinical, roentgenographic and surgical findings in Crohn's disease. *Am J Gastroenterol*, 1991; 86: 1057-1062.
- Langlois NEI, Park MKG, Keenan RA. Mucosal changes in the large bowel with endometriosis: a possible cause of misdiagnosis of colitis? *Hum Pathol*, 1994; 25: 1030-1034.

Case History B-1310754

- *Female patient* °1967
- *Clinical History : crampy abdominal pain and diarrhea*
- *Endoscopy : various small rounded erosive lesions – normal intervening mucosa*
- *Infection or Crohn's disease*

Endoscopy

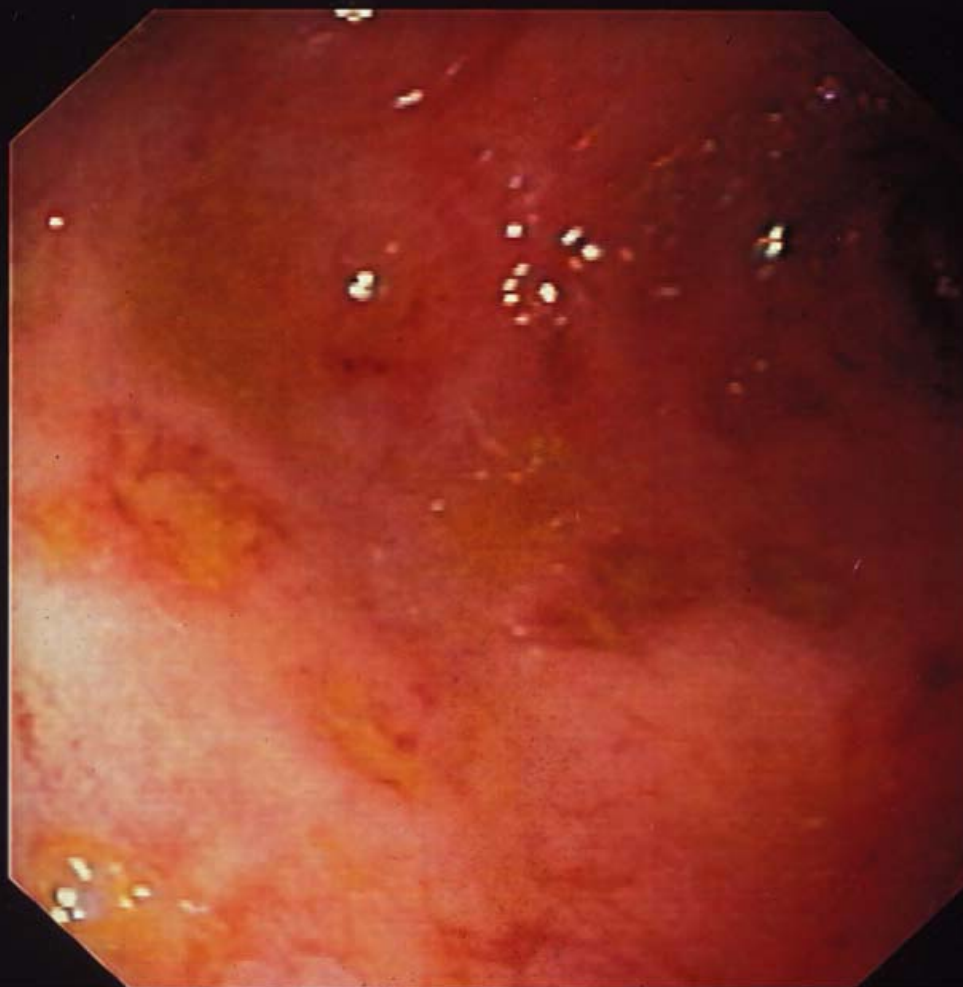
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Sex : Age :
D. O. Birth :

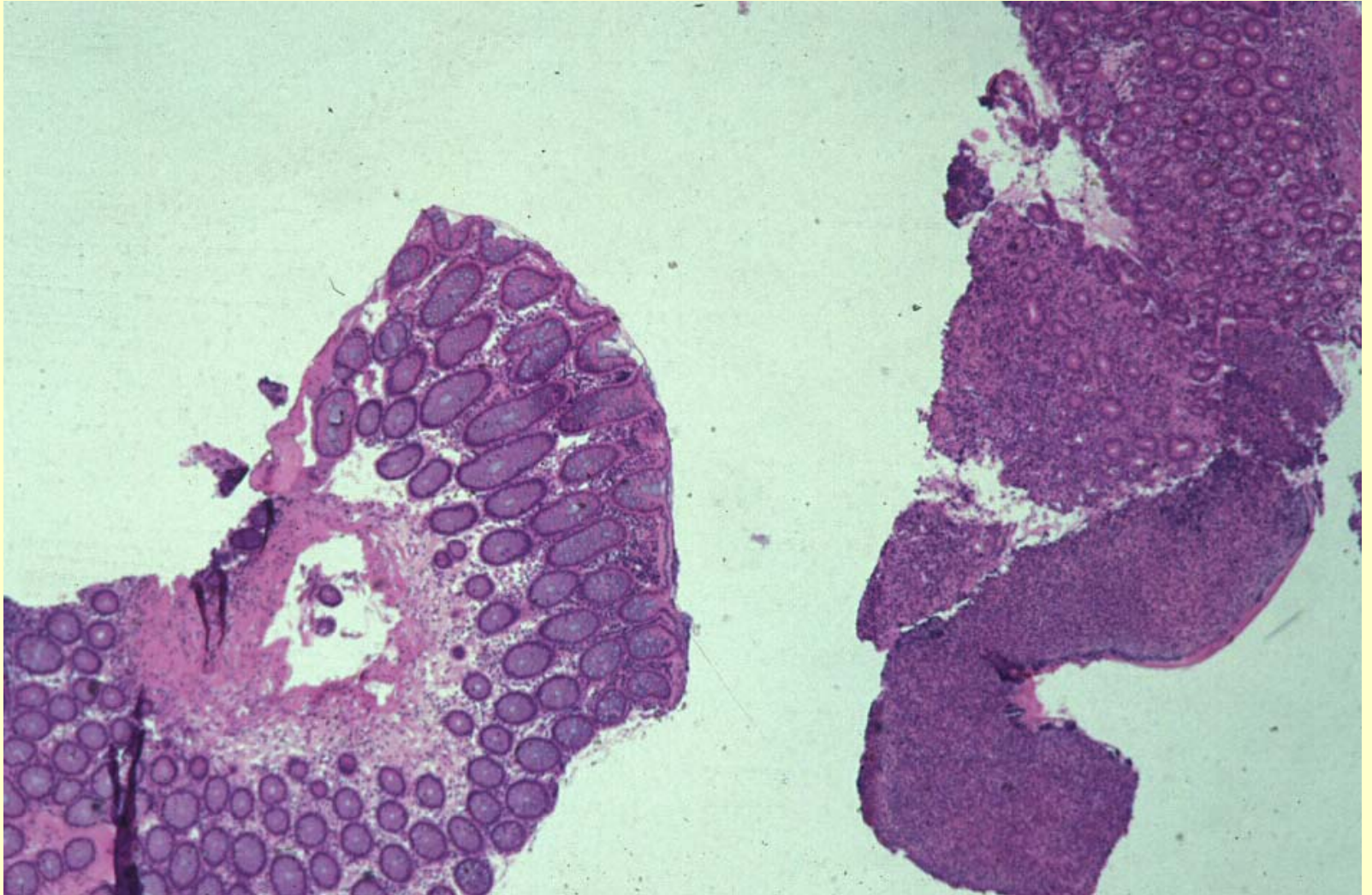
14 / 11 / 2003
12 : 32 : 37

CVP : A1 / 1
D. F :
Eh : 3 Ct : N

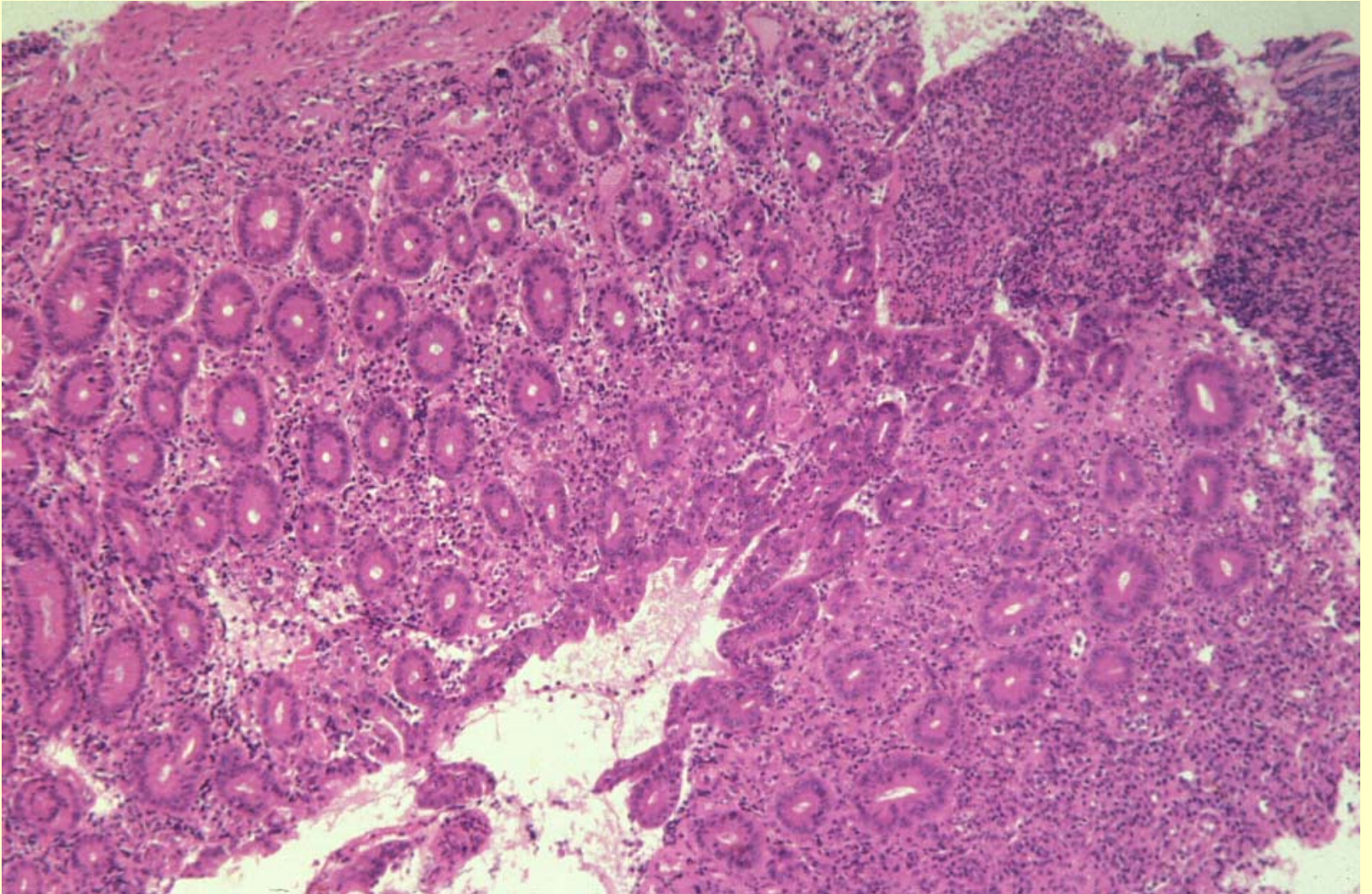
Physician :
Comment :



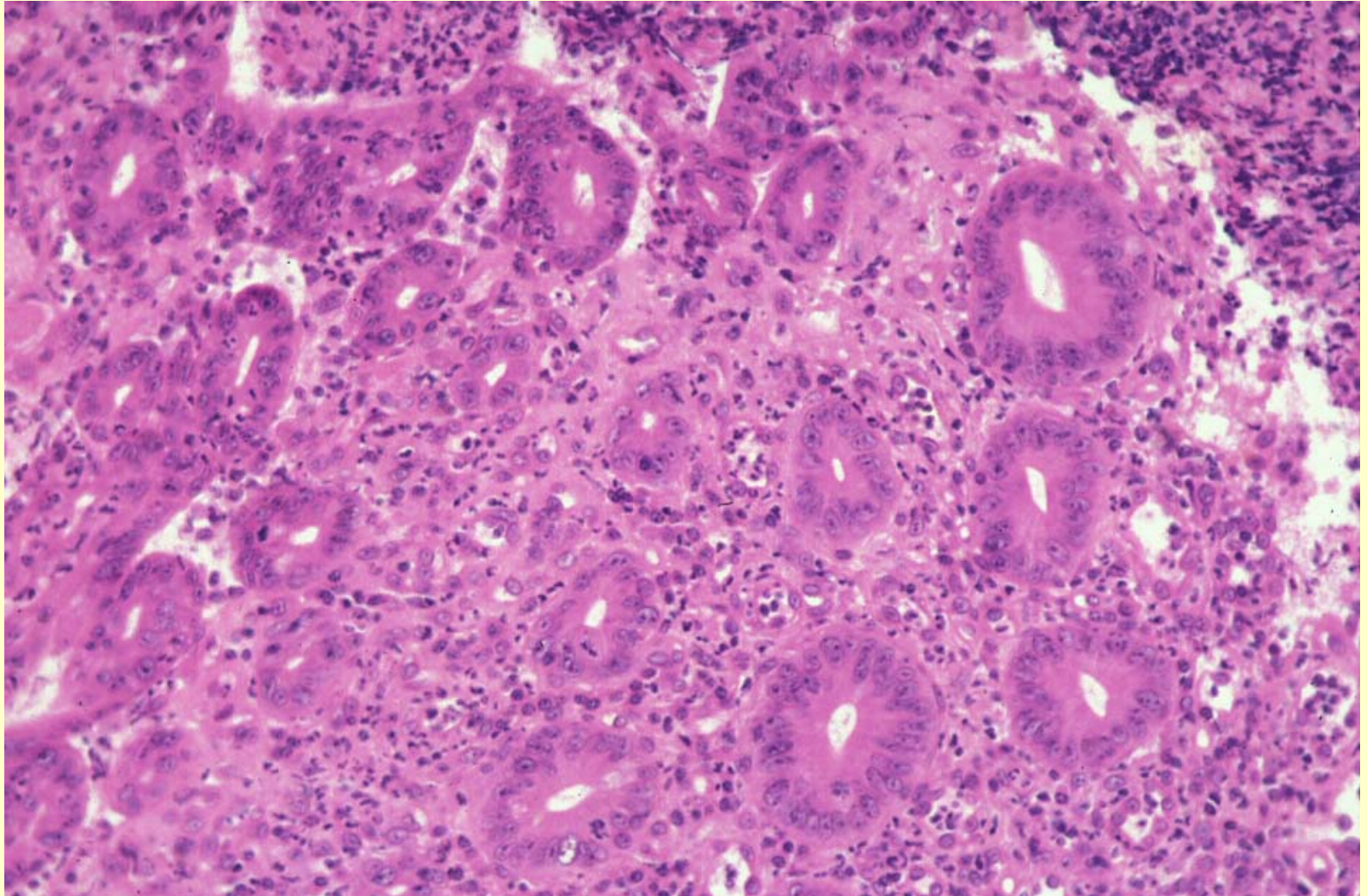
B-1310754



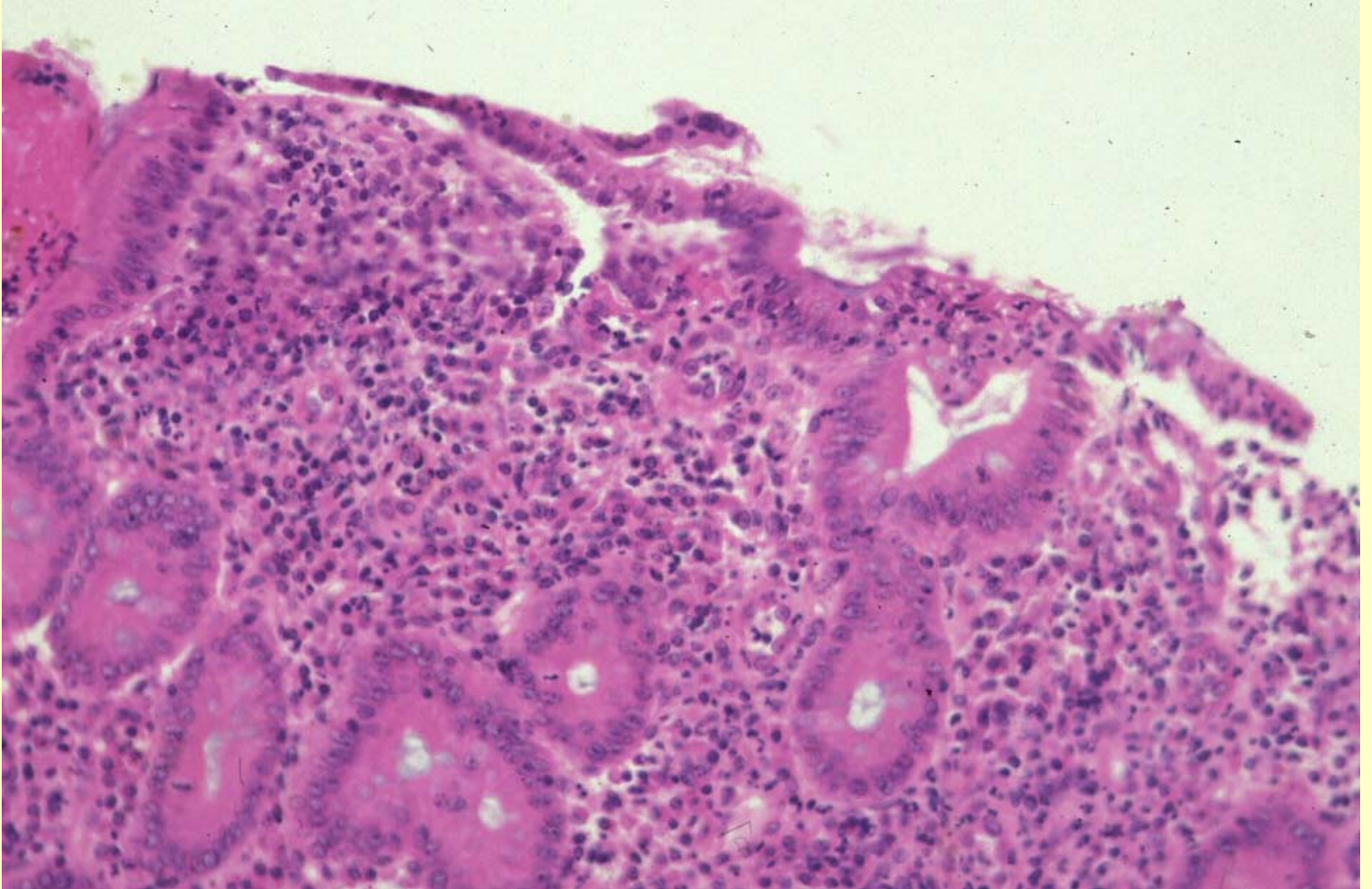
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B-1310754



Pathology B-1310754

- **Three samples**
 - **One : necrotic material & granulation tissue**
 - **One : transmucosal, patchy inflammation**
 - **One : oedema; near normal crypt architecture**

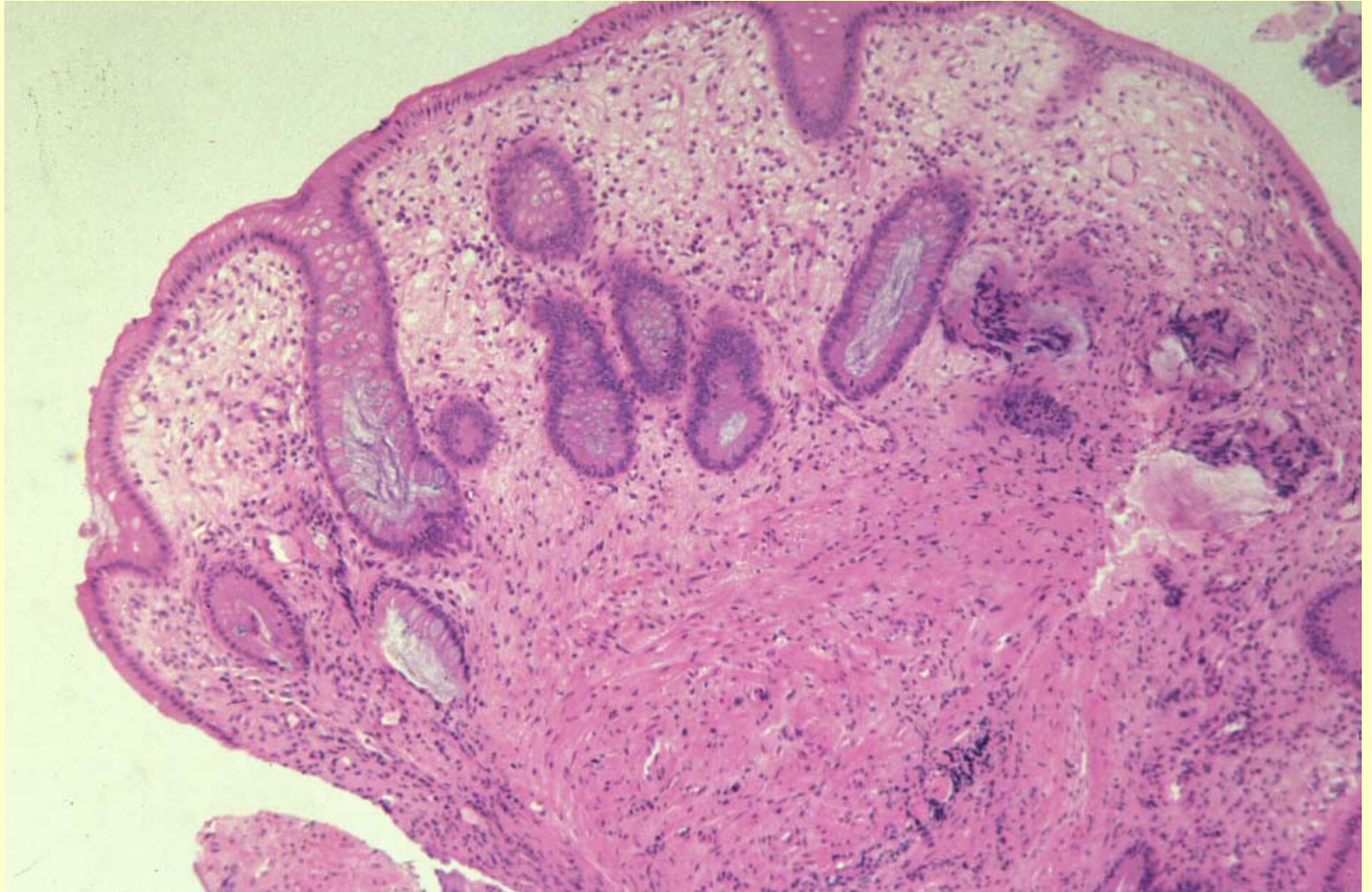
Infection (drug-related)

lack of architectural abnormalities
no positive arguments for Crohn's

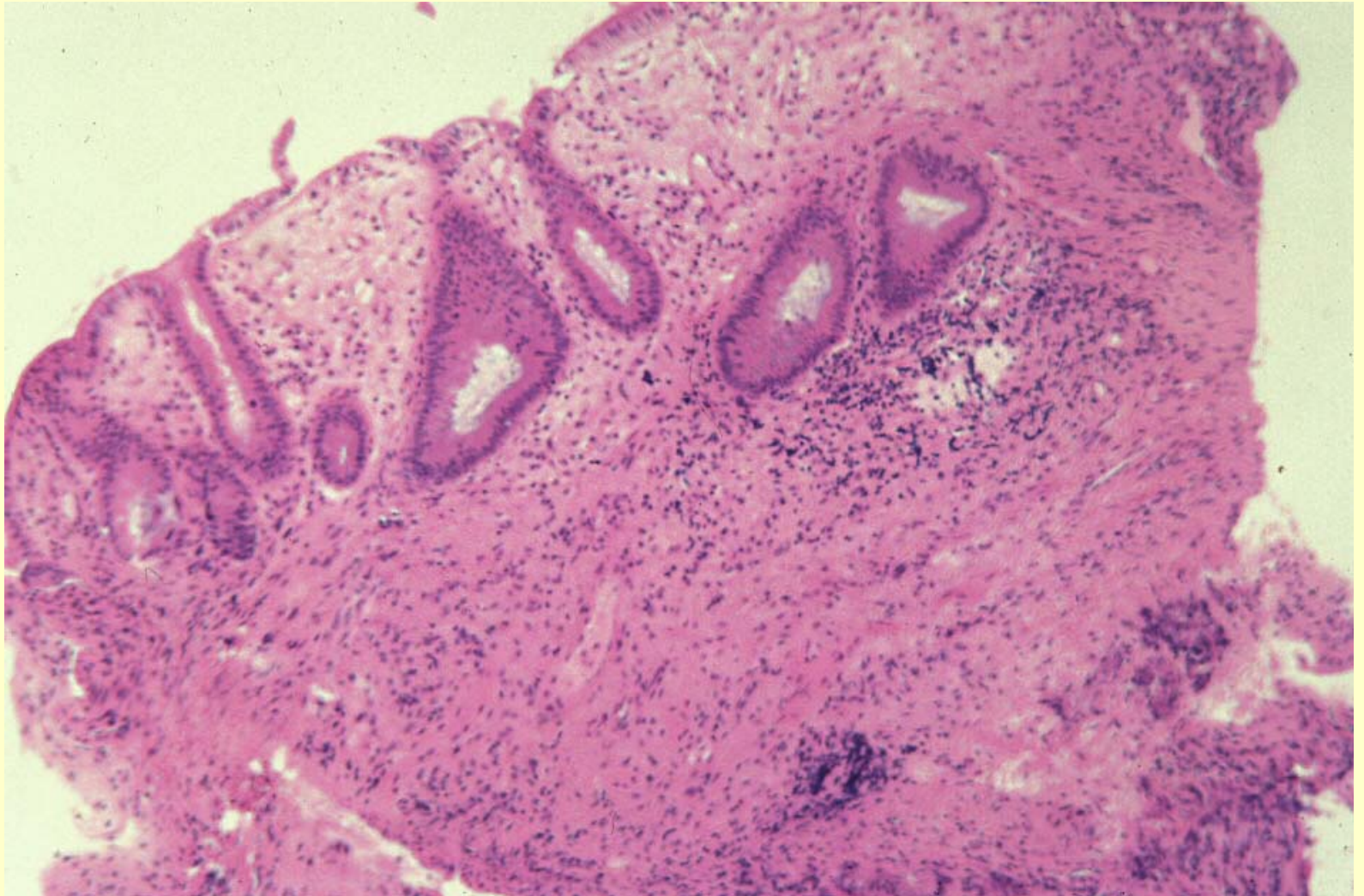
Case History B-1342130

- *Female patient* °1974
- *Clinical History : episodes of bloody diarrhea*
- *Endoscopy*
 - *Loss of haustrations*
 - *Mild erythema in the rectum*

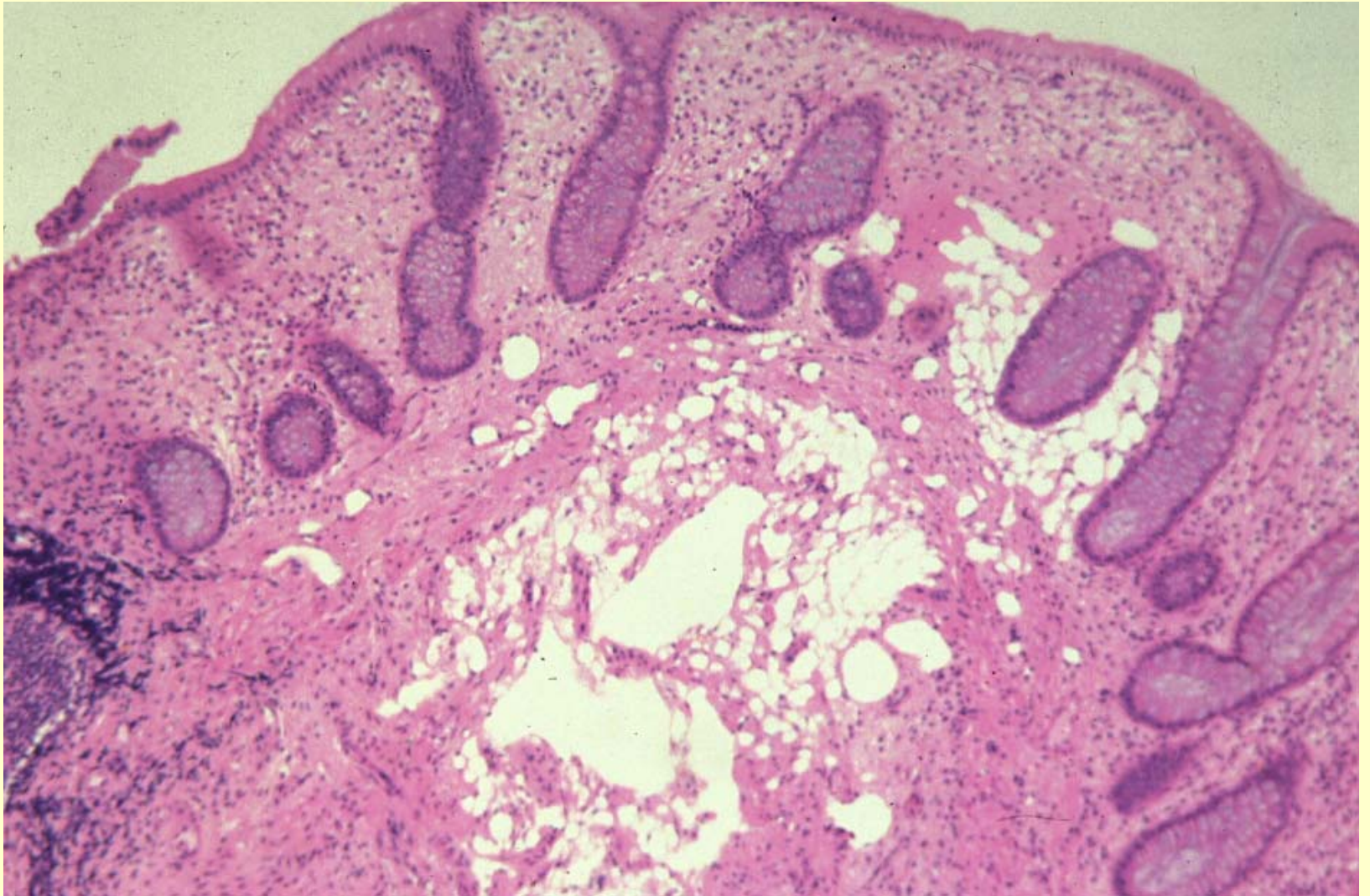
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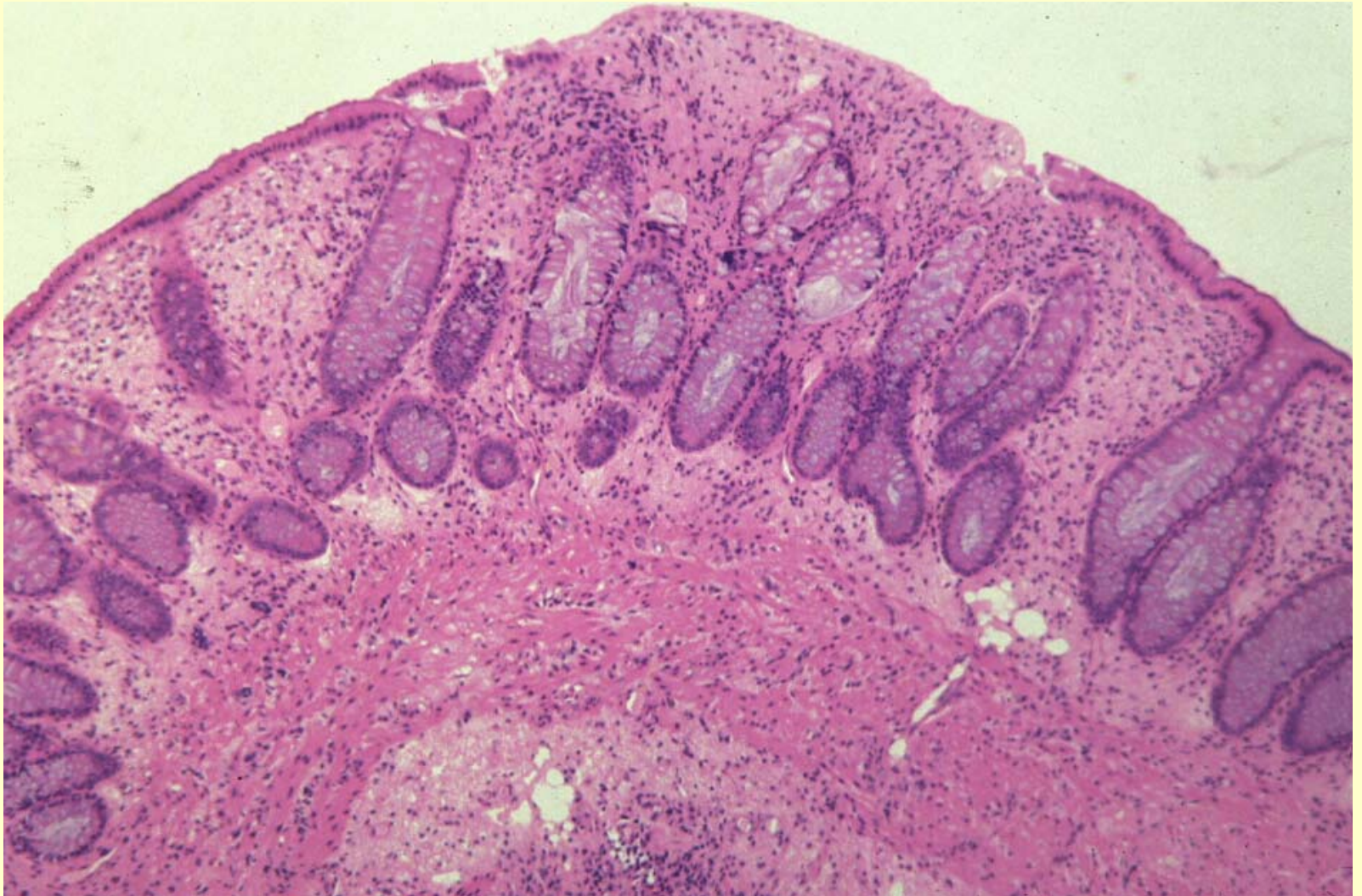
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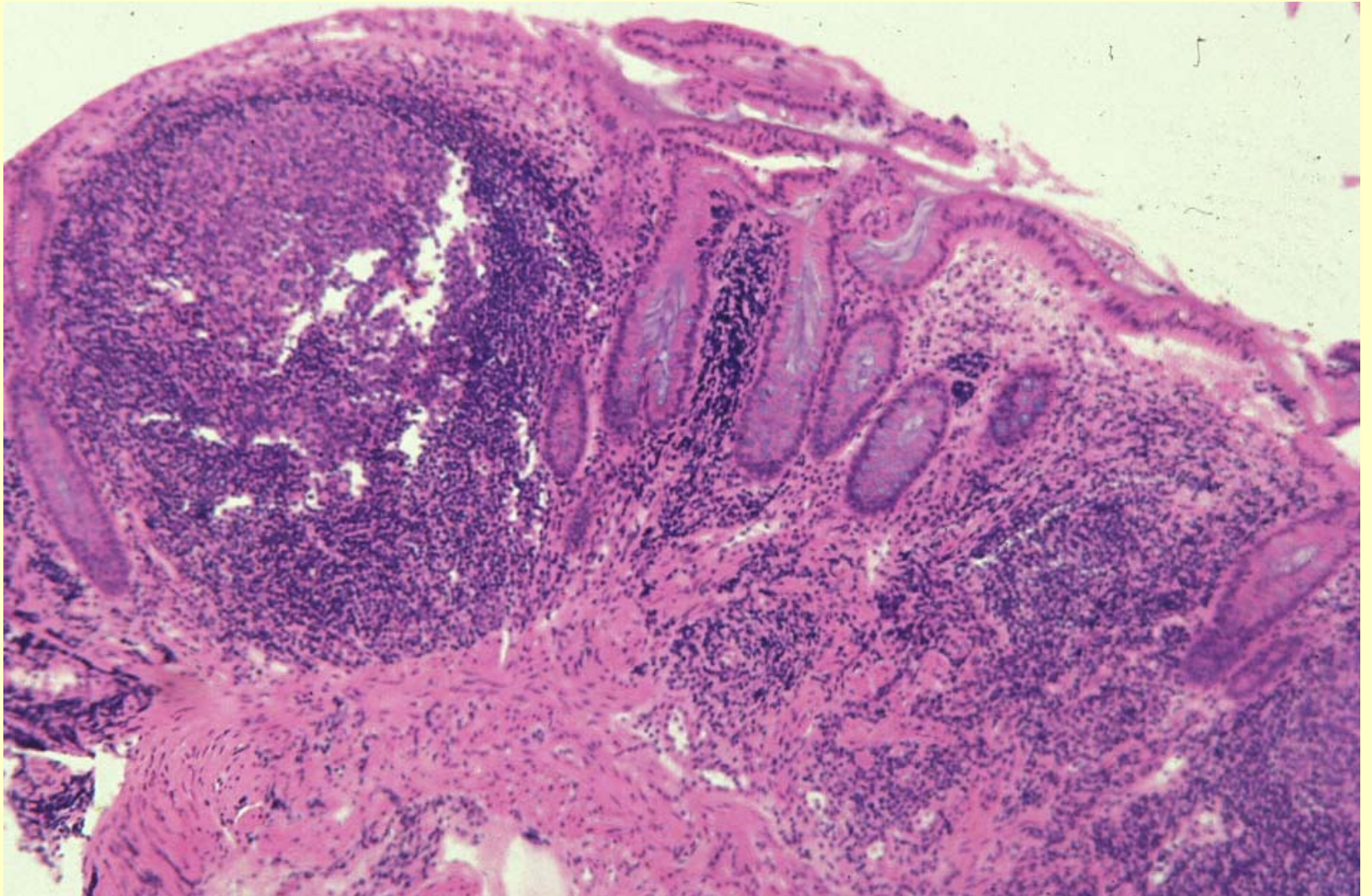
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B-1342130



B-1342130



Pathology B-1342130

- **Multiple biopsies variable aspect**
 - **Inflammation : minimal**
 - **Discontinuous crypt architectural abnormalities**
 - **Mildly irregular glands**
 - **Occasional branching**
 - **Thickening of muscularis mucosae**
 - **Lipomatosis**

Diagnosis - B-1342130

- **Discontinuous abnormalities > IBD**

Ulcerative colitis – quiescent

Kleer CG, Appelman HD. Ulcerative colitis : patterns of involvement in colorectal biopsies and changes with time. Am J Surg Pathol, 1998; 22: 983-989.

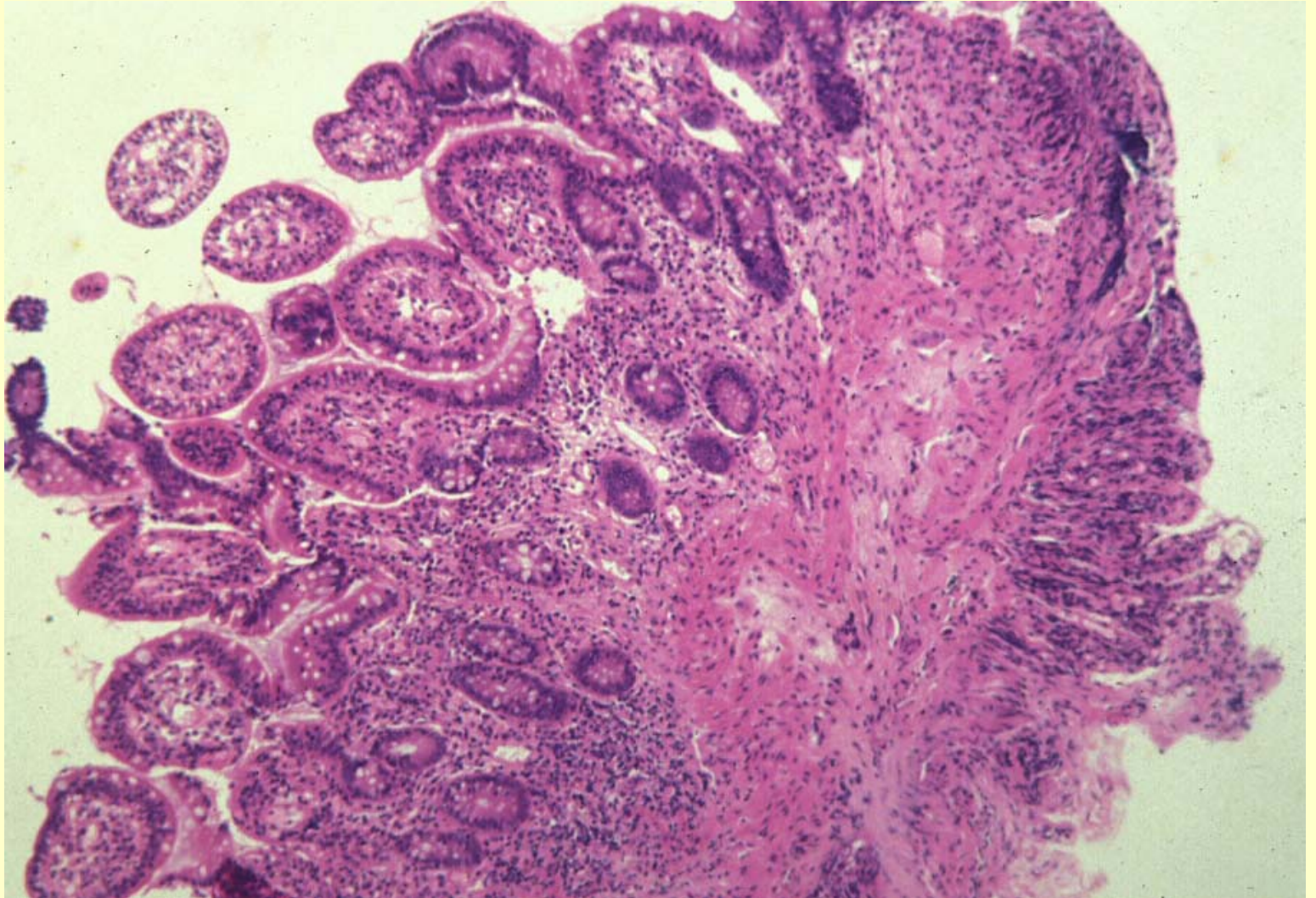
– Clinical history

- **Diagnosis of Ulcerative colitis established in 1988**
- **Long term treatment with corticosteroids and 5 ASA**
- **Control colonoscopy : surveillance**

Case History B-1337916

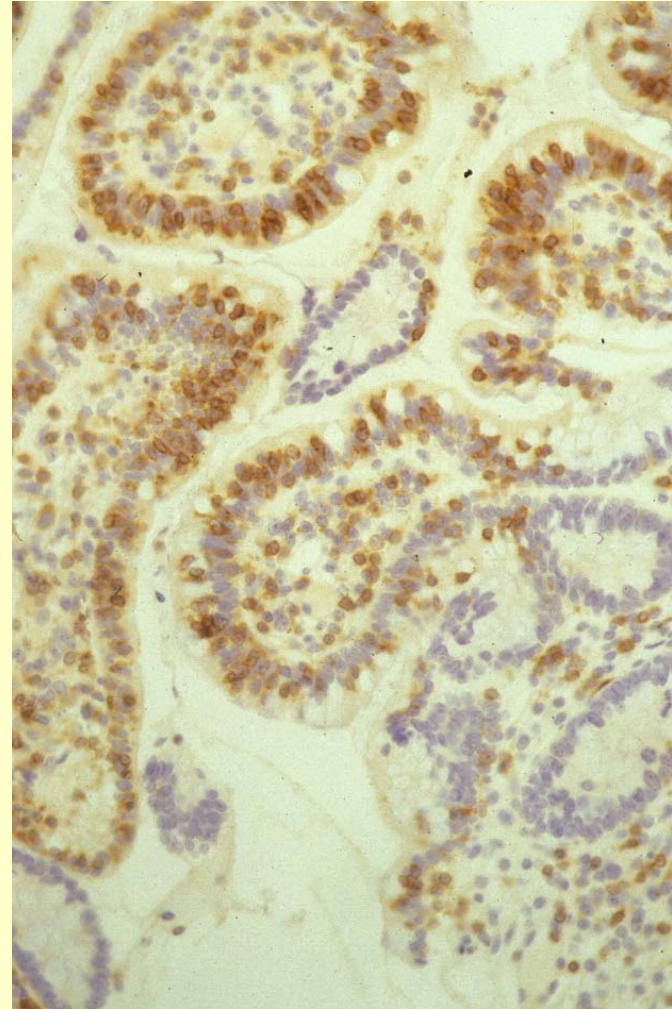
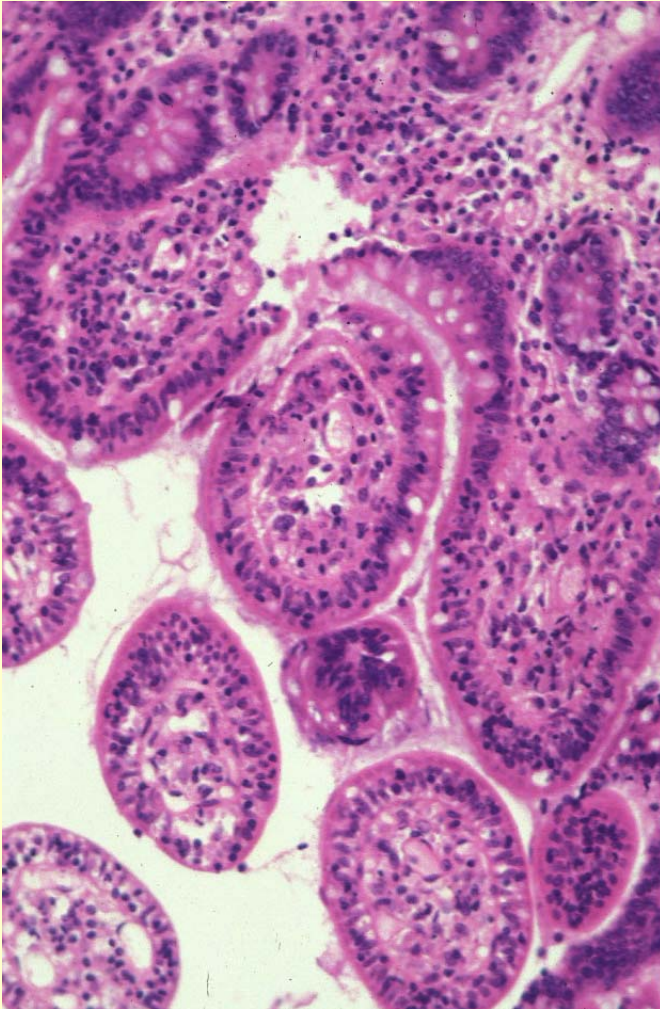
- *Female patient* °1944
- *Clinical History*
 - *Stenosis of a renal artery and the celiac trunk*
 - *Arterial hypertension*
 - *Migraine*
 - *Treatment : Cafergot, omeprazole, tiberal, plavix (clodipogrel)*
 - *Current complaints : headache and diarrhea*
- *Endoscopy : Ischemia?* > *normal aspect*

B-1337916

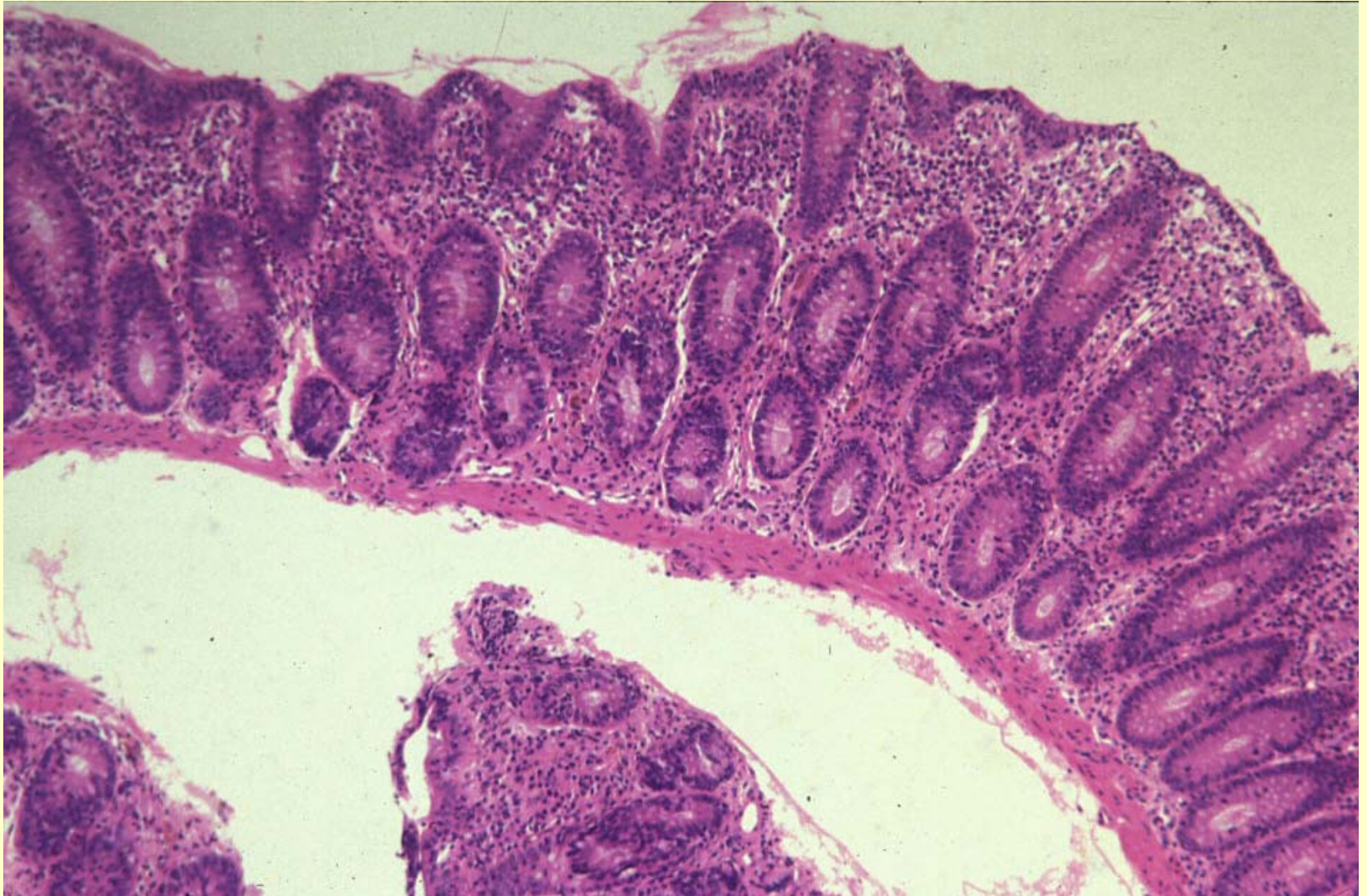


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CD3

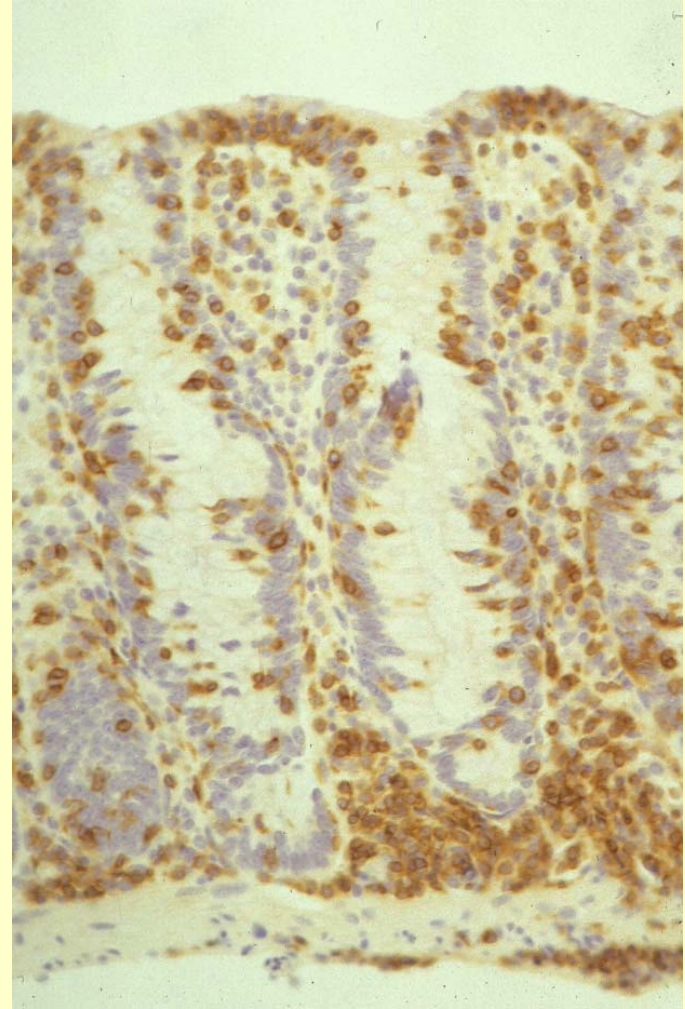
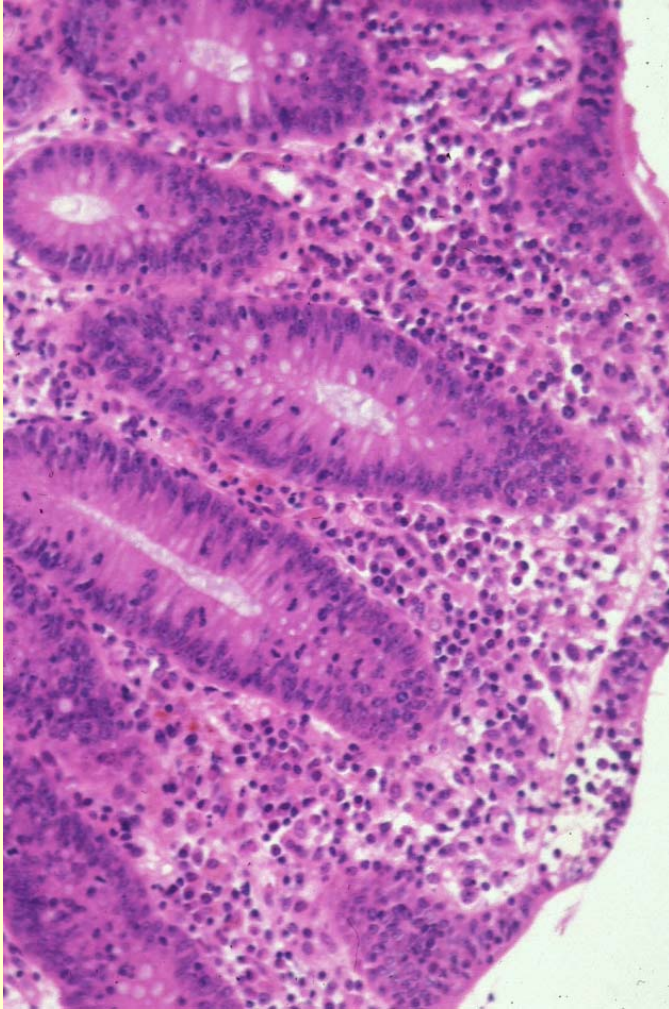


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B-1337916

CD3



Diagnosis B-1337916

Microscopic – Lymphocytic ileocolitis

- **Drug-related?**
 - **Clodipogrel (Plavix) belongs with ticlodipine to thienopyridines**
 - **> 30 cases of lymphocytic colitis have been reported for ticlodipine**

Diagnosis B-1337916

- **Lymphocytic colitis**
 - **Etiology - Unknown – multifactorial**
 - **Drugs (at least 16 drugs have been associated with)**
 - **Ticlodipine, Cyclo 3 fort; lansoprazole, cimetidine, NSAID**
 - **Infections**
 - **Gluten**
 - **Autoimmune (?) no antibody detected yet**

Diagnosis B-1337916

- **Lymphocytic colitis & the small intestine**
 - **The number of IEL is significantly increased in the terminal ileum in patients with LC and collagenous colitis**
 - **Case reports of patients with microscopic colitis and (primary) ileal villous atrophy**
 - **Duodenal abnormalities in 70% of patients with microscopic colitis (7% positive for antiendomysial antibodies)**

Lymphocytic Colitis

- **Sapp H, et al. The terminal ileum is affected in patients with lymphocytic or collagenous colitis. Am J Surg Pathol 2002; 26: 1484-92**
- **Padmanabhan V, et al. Histopathological features of the terminal ileum in lymphocytic and collagenous colitis : a study of 32 cases and review of the literature.Mod Pathol 2003; 16: 115-9**
- **Marteau P, et al. Primary ileal villous atrophy is often associated with microscopic colitis. Gut; 1997: 41: 561-4**

Case History B-1318690

- *Male patient* °1933
- *Clinical History : Renal transplant patient presenting with diarrhea*
- *Endoscopy : mild erythema and superficial erosions*
 - *Infectious colitis – CMV*
 - *Ischemia*

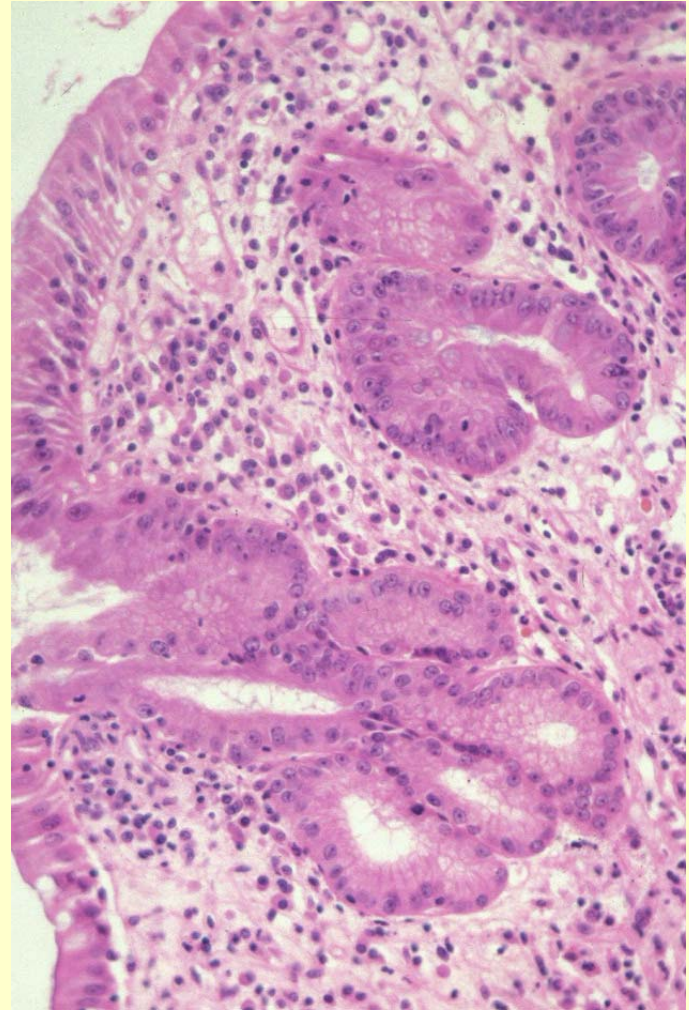
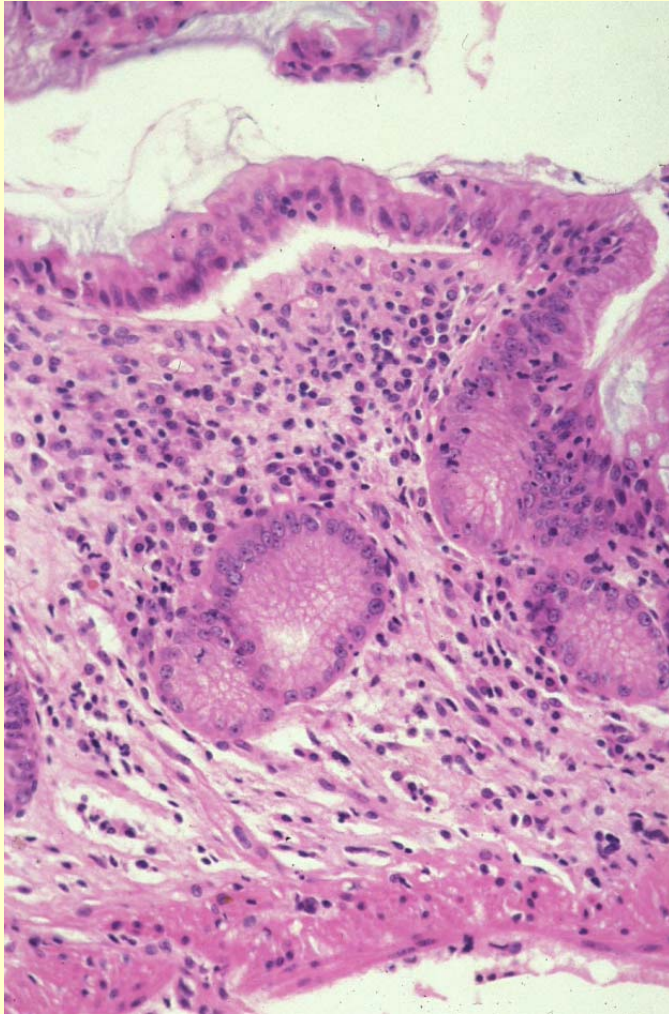
Pathology B-1318690

- **Pathology**
 - **Seven or eight samples with variable aspect; some samples show diffuse architectural abnormalities – shortening – branching & discontinuous inflammation**
 - **Discrete epithelial apoptosis**
 - **Mild pseudopyloric metaplasia**

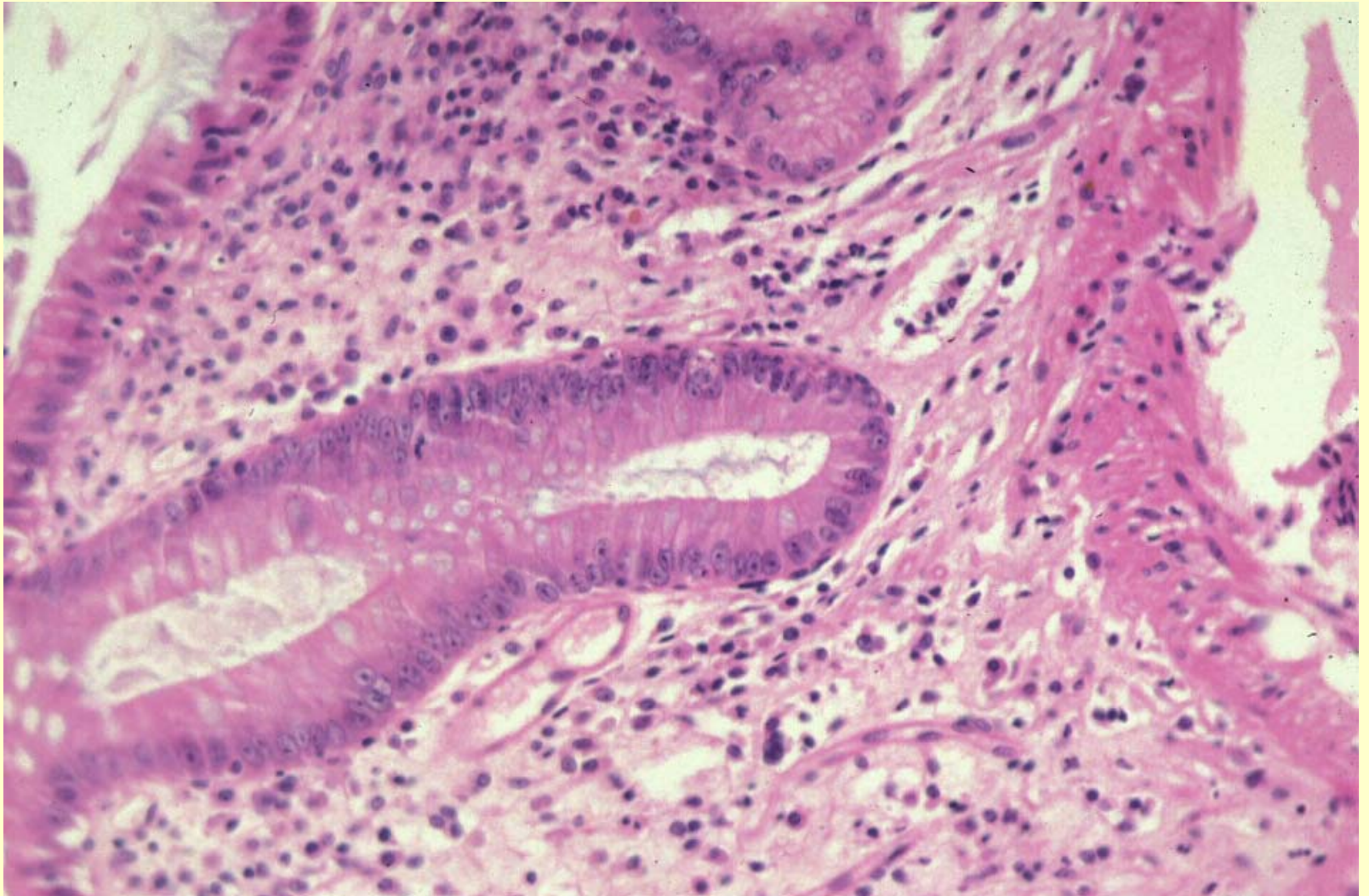
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Diagnosis B-1318690

Drug-related colitis – Mycophenolate – mofetil

- Mycophenolate mofetil inhibits inositol-monophosphate dehydrogenase (IMPDH) which is needed for the guanine synthesis in B- and T-lymphocytes.
- Impairs colonic healing
- Crohn's-like pattern and Graft-versus-host disease like patterns have been described in renal transplant patients presenting with diarrhea

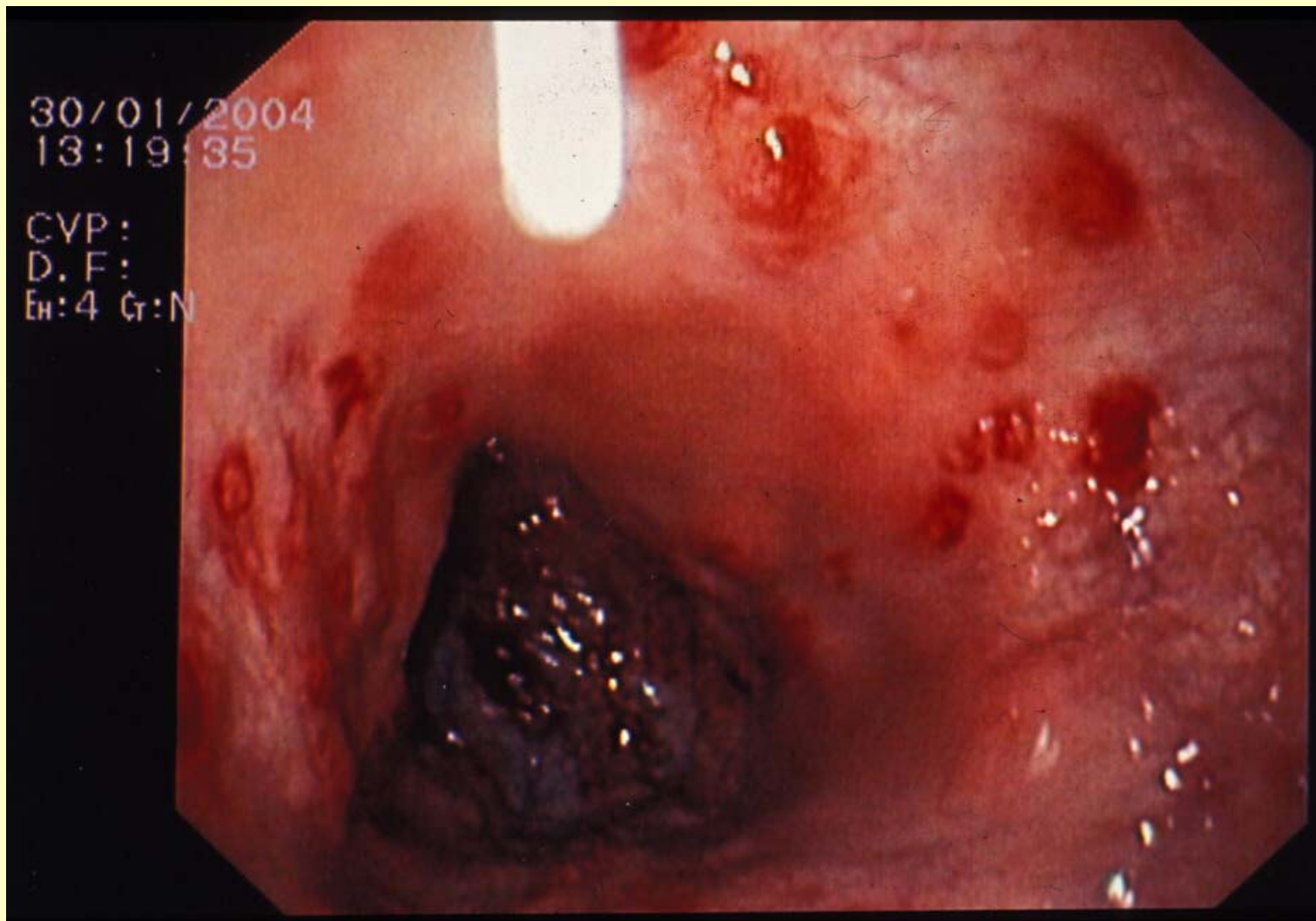
B-1318690

- **Zeeh J, et al. Mycophenolate mofetil impairs healing of left-sided colon anastomosis. Transplantation 2001; 71: 1429-35**
- **Maes BD, et al. Erosive enterocolitis in mycophenolate mofetil treated renal transplant recipients with persistent afebrile diarrhea. Transplantation 2003; 15: 665-72**
- **Papadimitriou JC, et al. Graft-versus-host-disease-like features in mycophenolate mofetil-related colitis. Transplant Proc 2001; 33: 2237-8**

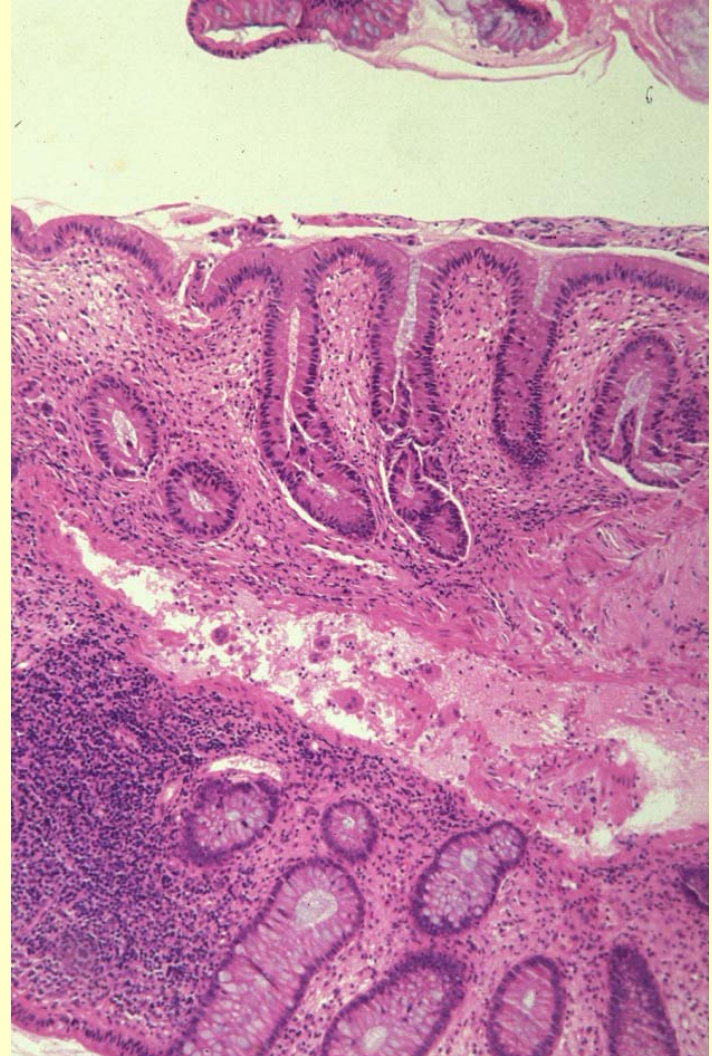
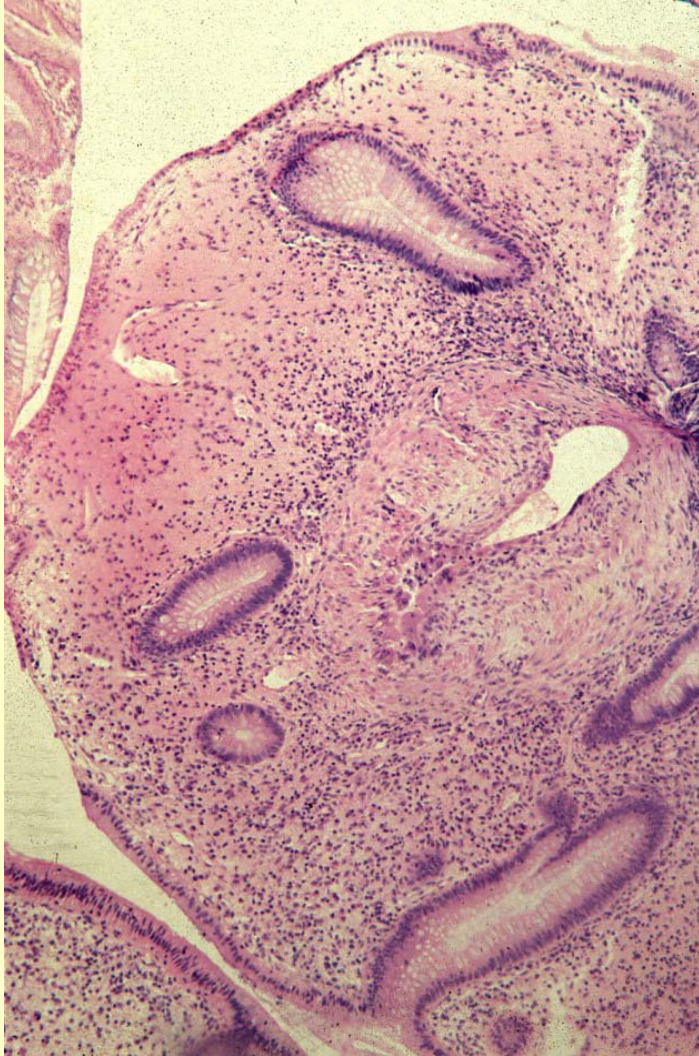
Case History B-1327885

- *Male patient* °1939
- *Clinical History*
 - *Prostatectomy 2000; low-grade PIN*
 - *Present complaints : difficult defecation; changes in bowel habits*
- *Endoscopy : from 15-35 cm nodular mucosa with oedema and erosions : colitis!*
Etiology?

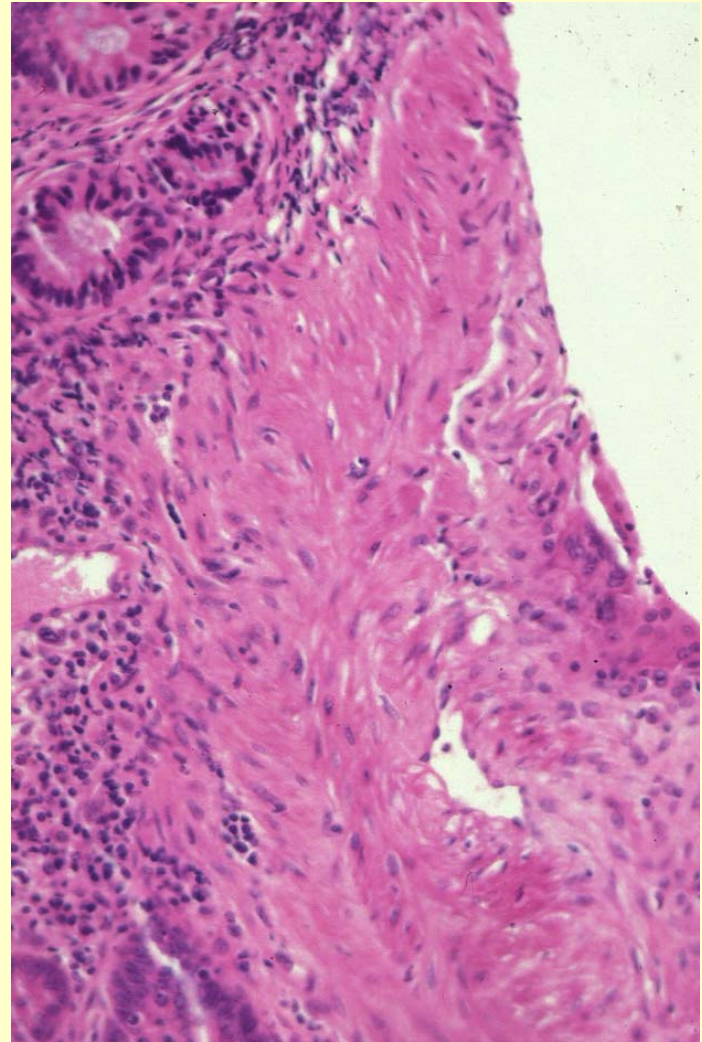
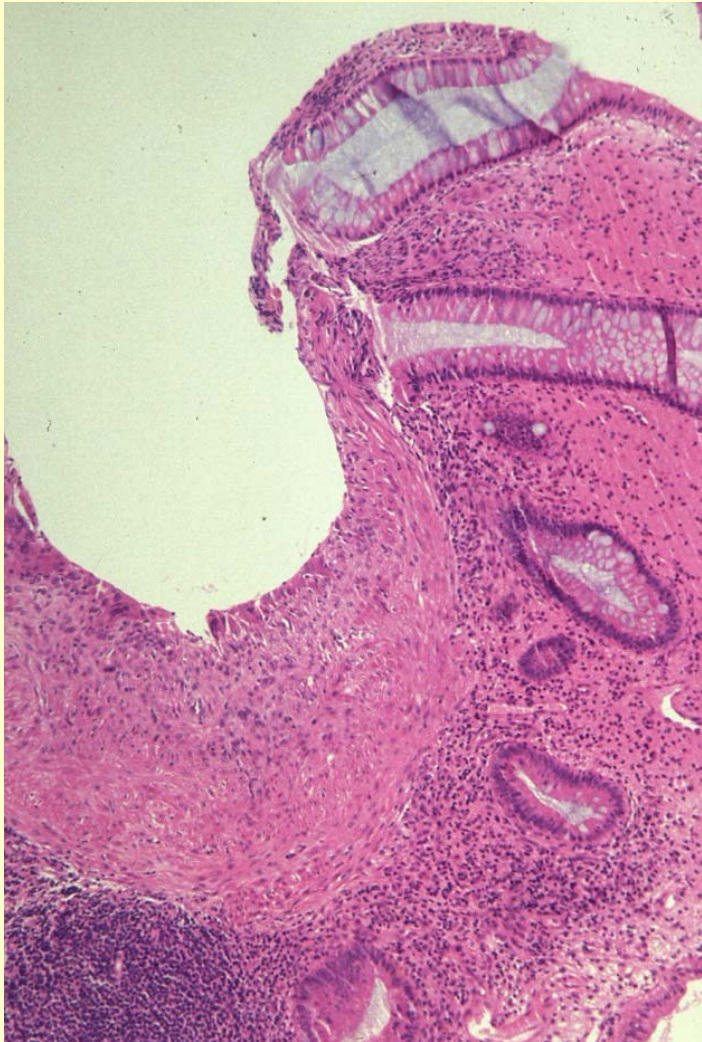
Endoscopy B-1327885



Pathology B-1327885



Pathology B-1327885



Diagnosis B-1327885

Pneumatosis coli

- **Pneumatosis coli in ulcerative colitis?**

- **Follow up : uneventfull**
- **Mild architectural distortion of the overlying mucosa was seen in 11/13 and 10/10 cases in 2 studies involving adult patients**

Suarez V, et al. Arch Pathol Lab Med 1989; 113:898

Pieterse AS, et al. Hum Pathol 1985; 16: 683

- **Cryptitis, crypt abscesses, crypt dilatation and rupture have been reported.**

B-1327885 – Pneumatosis Coli

(Pneumatosis intestinalis – interstitial emphysema)

- **Uncommon condition characterized by submucosal and/or subserosal gas cysts**
 - 10- 36 % of cases : colon alone (in 70% of these cases mainly left-sided)
- **In approximately 85% of cases it is a manifestation of an underlying systemic of GI disease**

B-1327885 – Pneumatosis Coli

- **Major Systemic conditions associated with**
 - **Chronic pulmonary disease**
 - **Chronic heart disease**
 - **Sclerodermia**
 - **Leukemia**
- **GI conditions associated with**
 - **Pyloric stenosis**
 - **Cholelithiasis**

B-1327885 – Pneumatosis Coli & IBD

Association with Crohn's disease : rare

- Ghahremani G, et al. Pneumatosis coli in Crohn's disease. *Dig Dis* 1974; 19: 315-23
- Rienhoff WF III, & Collins NP. Pneumatosis cystoides intestinalis and regional enteritis. *Ann Surg* 1959; 159: 593-9

Pneumatosis may mimic IBD

- Pieterse AS, et al. The mucosal changes and pathogenesis of pneumatosis cystoides intestinalis. *Hum Pathol* 1985; 16: 683-8

Pneumatosis and ulcerative colitis

B-1327885

Pneumatosis coli – Mucosal abnormalities



B-1327885 – Pneumatosis Coli & IBD

Pneumatosis and ulcerative colitis : rare – in adults in patients with severe disease and focally necrotic colon

- **Solomon A, et al. Computed tomography demonstration of intramural colonic air (pneumatosis coli) as a feature of severe ulcerative colitis. Gastrointest Radiol 1987; 12: 169-71**
- **David O, & Jakate S. Pneumatosis intestinalis in a 6-year-old girl with ulcerative colitis. Arch Pathol Lab Med 1999; 123: 354-7**

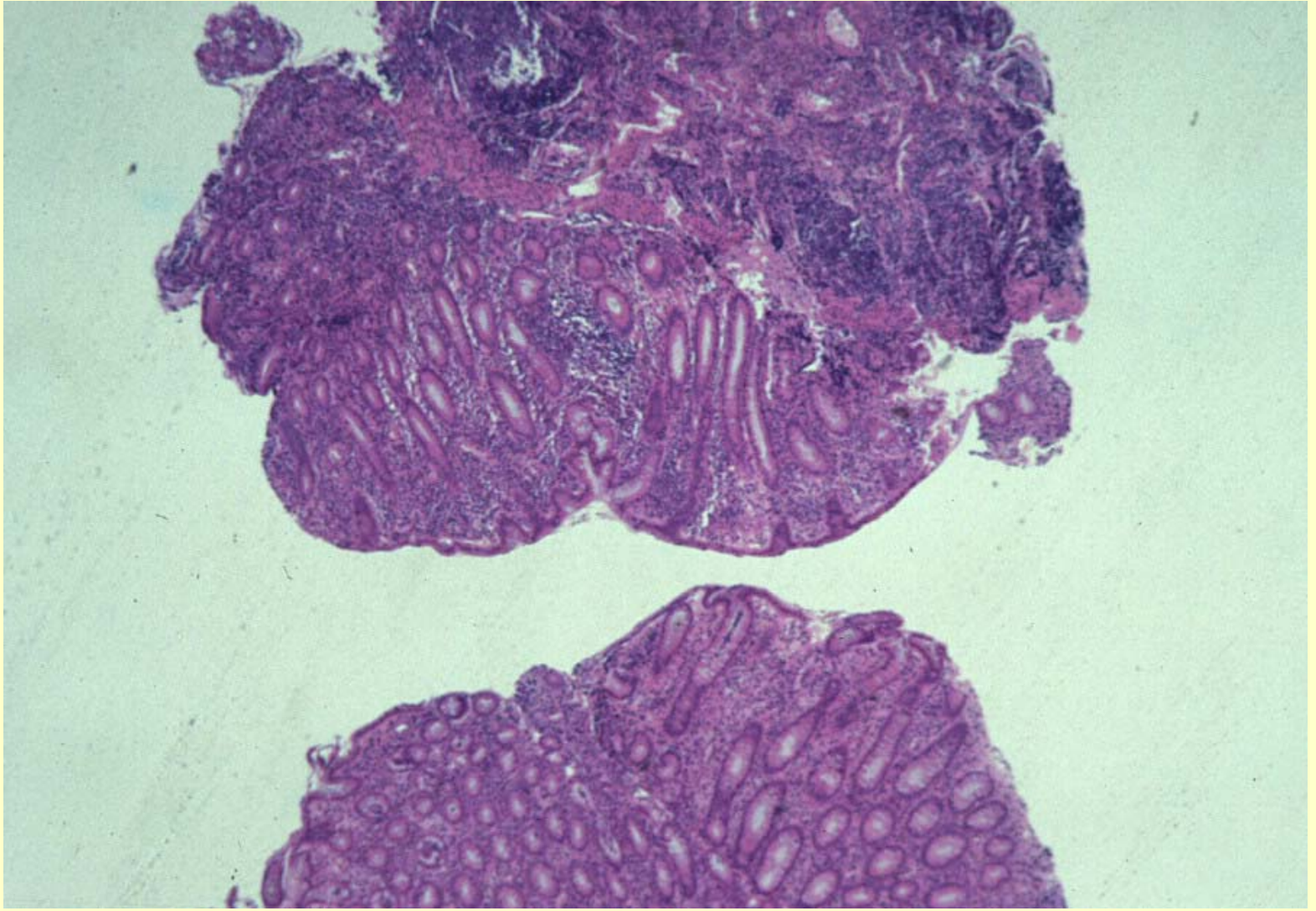
Case History B-1163083

- *Male patient* °1973
- *Clinical History : weight loss; anal fissure*
- *Endoscopy : several irregular ulcers in the left colon*

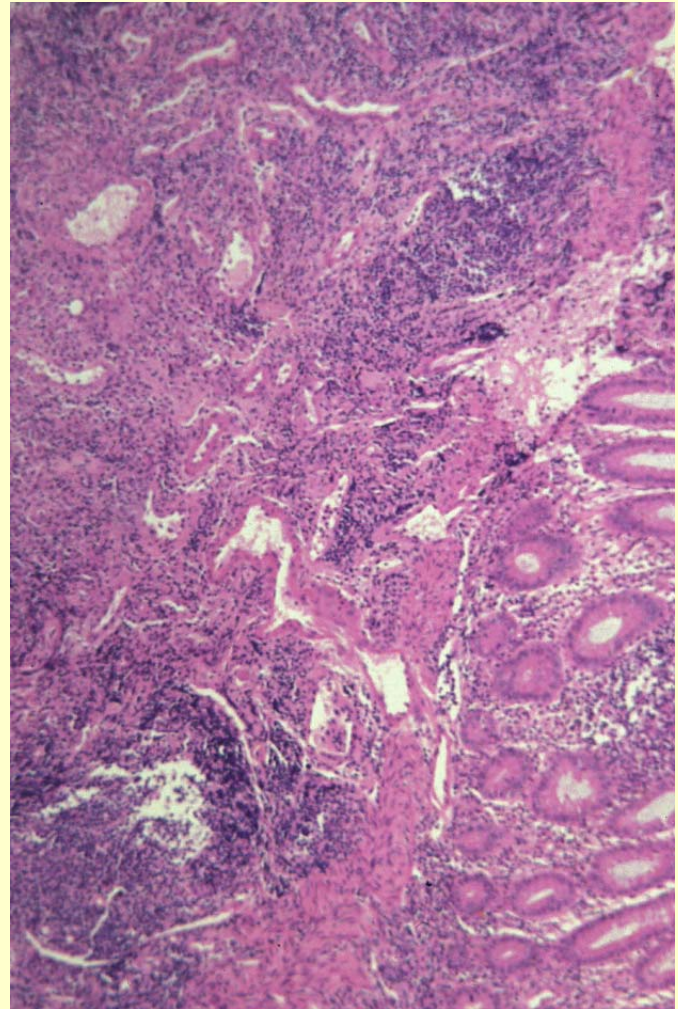
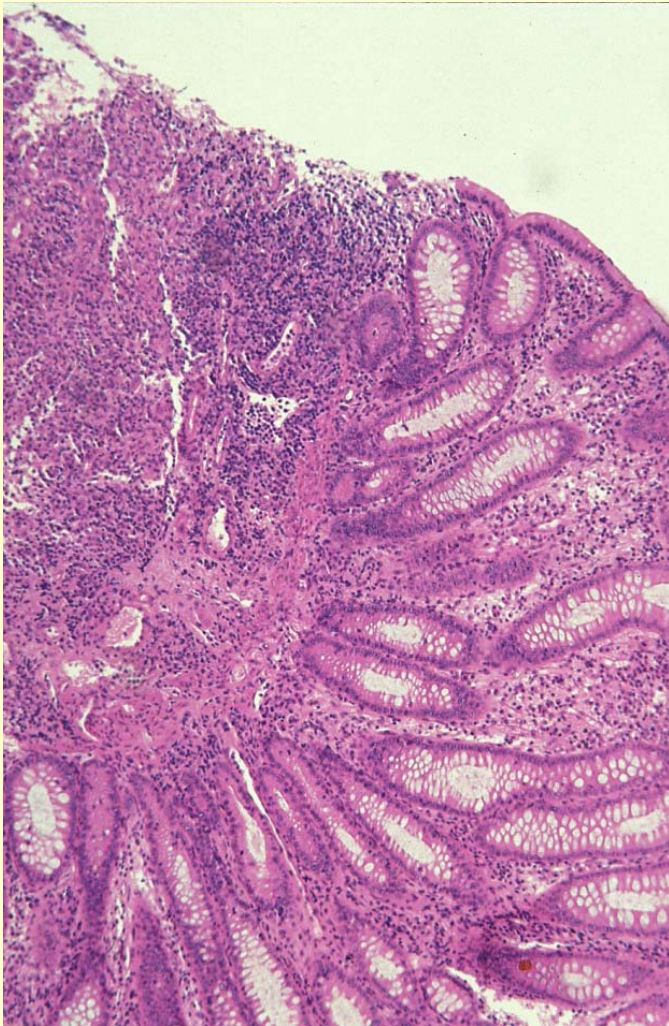
Case History B-1163083

- **Seven samples composed of mucosa with submucosa with mildly variable aspect**
- **Regular surface**
- **Mild focal crypt abnormalities?**
- **Well differentiated epithelial cells**
- **Increased intensity of lamina propria cellular infiltrate (mixed) with submucosal extension**
- **Ganglionitis?**

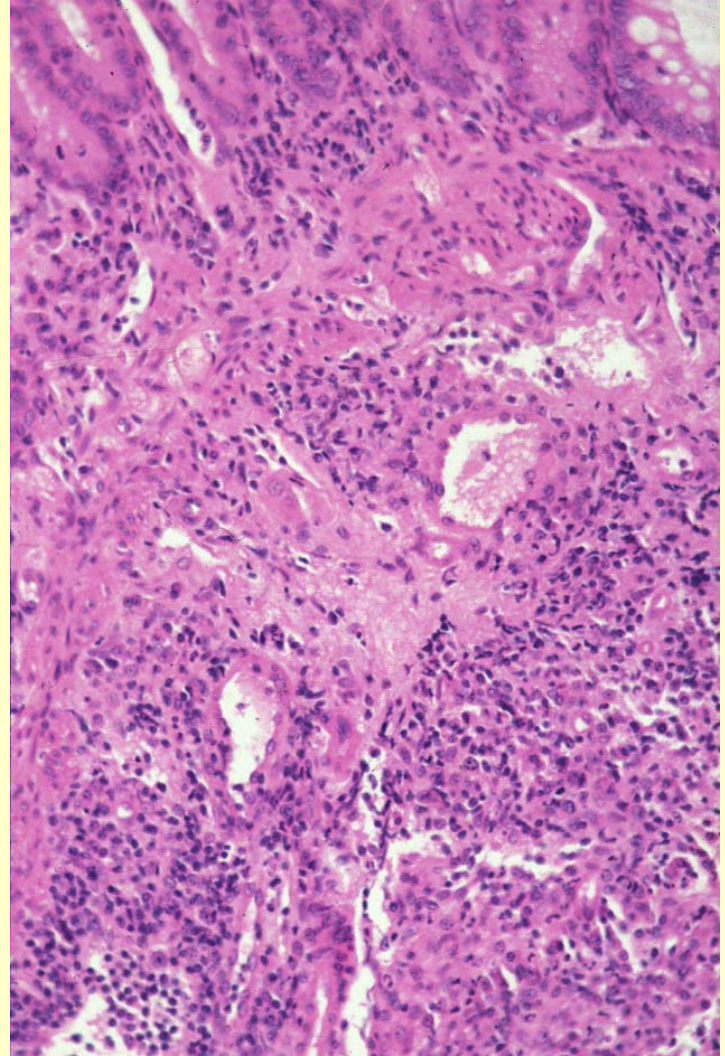
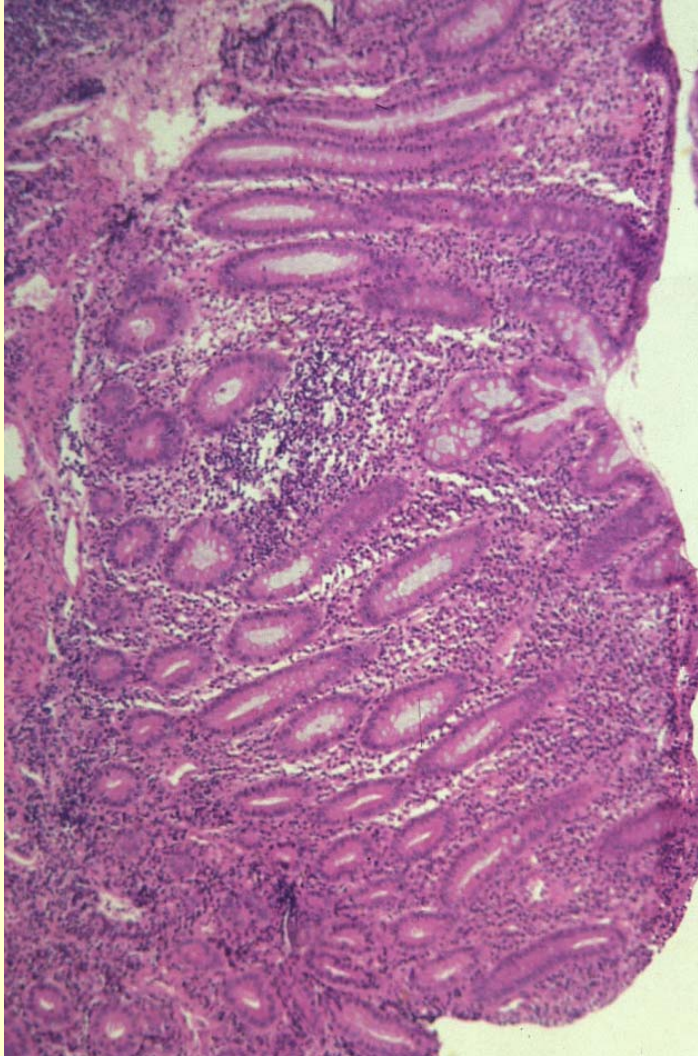
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B-1163083



B-1163083



Diagnosis - B-1163083

- *Crohn's disease*
 - Focal architectural abnormalities with mixed inflammation
 - ganglionitis