

# **SURGICAL PATHOLOGY REPORT [SYNTHETIC]**

**ACCESSION #:** UC-2025-66692

**DATE OF PROCEDURE:** 04/14/2025

**DATE OF REPORT:** 04/16/2025

**REQUESTING PHYSICIAN:** Dr. Cody McCoy, Gastroenterology

**PATHOLOGIST:** Dr. Justin Powell, Anatomic Pathology

## **CLINICAL HISTORY:**

28 year old male with 10 year history of bloody diarrhea, abdominal pain, and urgency. Colonoscopy showed pancolitis with diffuse ulceration and spontaneous bleeding. Clinical suspicion for ulcerative colitis.

## **SPECIMEN RECEIVED:**

- A. Rectum, biopsy
- B. Sigmoid colon, biopsy
- C. Descending colon, biopsy
- D. Transverse colon, biopsy
- E. Ascending colon, biopsy
- F. Terminal ileum, biopsy

## **GROSS DESCRIPTION:**

- A. Received in formalin labeled "rectum" are 5 tan-pink tissue fragments measuring 5 mm in aggregate.
- B. Received in formalin labeled "sigmoid colon" are 4 tan-pink tissue fragments measuring 2 mm in aggregate.
- C. Received in formalin labeled "descending colon" are 4 tan-pink tissue fragments measuring 7 mm in aggregate.
- D. Received in formalin labeled "transverse colon" are 5 tan-pink tissue fragments measuring 2 mm in aggregate.
- E. Received in formalin labeled "ascending colon" are 4 tan-pink tissue fragments measuring 2 mm in aggregate.

F. Received in formalin labeled "terminal ileum" are 3 tan-pink tissue fragments measuring 7 mm in aggregate.

All specimens are entirely submitted in 6 cassette(s).

## **MICROSCOPIC DESCRIPTION:**

A. Rectal mucosa shows severe active chronic inflammation with severe cryptitis, crypt architectural distortion, and Paneth cell metaplasia. The inflammatory process is limited to the mucosa without evidence of granulomas. Surface epithelium shows reactive changes.

B. Sigmoid colonic mucosa shows mild to moderate active chronic inflammation with severe cryptitis, crypt architectural distortion, and Paneth cell metaplasia. The inflammatory process is limited to the mucosa without evidence of granulomas. Surface epithelium shows reactive changes.

C. Descending colonic mucosa shows moderate active chronic inflammation with diffuse crypt architectural distortion, crypt abscesses, and goblet cell depletion. The inflammatory process is limited to the mucosa without evidence of granulomas. Occasional apoptotic bodies are present in crypts.

D. Transverse colonic mucosa shows mild to moderate active chronic inflammation with marked crypt architectural distortion, numerous crypt abscesses, and complete goblet cell depletion. No evidence of dysplasia is identified.

E. Ascending colonic mucosa shows mild to moderate active chronic inflammation with crypt architectural distortion and crypt abscesses. Mucosal edema and congestion are present.

F. Terminal ileal mucosa shows minimal increase in lamina propria lymphoplasmacytic infiltrates, likely reactive. No evidence of chronic inflammatory bowel disease identified in this section.

## **DIAGNOSIS:**

### **A. Rectum, biopsy:**

- severe active chronic colitis with crypt architectural distortion and goblet cell depletion
- severe consistent with ulcerative colitis
- No dysplasia identified
- No evidence of cytomegalovirus (CMV) infection

***B. Sigmoid colon, biopsy:***

- mild to moderate active chronic colitis with crypt architectural distortion and goblet cell depletion
- mild to moderate consistent with ulcerative colitis
- No dysplasia identified

***C-E. Descending, transverse, and ascending colon, biopsies:***

- moderate active chronic colitis with crypt architectural distortion
- Features consistent with ulcerative colitis
- No dysplasia identified

***F. Terminal ileum, biopsy:***

- Mild non-specific inflammation
- No evidence of inflammatory bowel disease

**COMMENT:**

The histologic findings show a pattern of continuous chronic active colitis with greatest severity in the distal colon and rectum, with relative sparing of the proximal colon. The absence of granulomas, transmural inflammation, and terminal ileal involvement are features favoring ulcerative colitis over Crohn's disease. Correlation with clinical, endoscopic, and radiologic findings is recommended for definitive classification. The overall histologic features are characteristic of ulcerative colitis in the active phase.

**SPECIAL STUDIES:**

Grocott's methenamine silver (GMS) stain is negative for fungal organisms.