

# **SURGICAL PATHOLOGY REPORT [SYNTHETIC]**

**ACCESSION #:** UC-2025-83106

**DATE OF PROCEDURE:** 04/18/2025

**DATE OF REPORT:** 04/22/2025

**REQUESTING PHYSICIAN:** Dr. Cynthia Alexander, Gastroenterology

**PATHOLOGIST:** Dr. Joseph Williams, Anatomic Pathology

## **CLINICAL HISTORY:**

30 year old female with 6 month history of bloody diarrhea, abdominal pain, and urgency. Colonoscopy showed circumferential ulceration and pseudopolyps from rectum to mid-transverse colon. 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 4 tan-pink tissue fragments measuring 6 mm in aggregate.
- B. Received in formalin labeled "sigmoid colon" are 6 tan-pink tissue fragments measuring 5 mm in aggregate.
- C. Received in formalin labeled "descending colon" are 4 tan-pink tissue fragments measuring 3 mm in aggregate.
- D. Received in formalin labeled "transverse colon" are 3 tan-pink tissue fragments measuring 8 mm in aggregate.
- E. Received in formalin labeled "ascending colon" are 6 tan-pink tissue fragments measuring 2 mm in aggregate.

F. Received in formalin labeled "terminal ileum" are 4 tan-pink tissue fragments measuring 8 mm in aggregate.

All specimens are entirely submitted in 3 cassette(s).

## **MICROSCOPIC DESCRIPTION:**

A. Rectal mucosa shows fulminant 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. Marked decrease in goblet cell population.

B. Sigmoid colonic mucosa shows moderate to 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. Occasional Paneth cell metaplasia is noted.

C. Descending colonic mucosa shows moderate active chronic inflammation with crypt branching, crypt atrophy, and focal crypt abscesses. The inflammatory process is limited to the mucosa without evidence of granulomas. Lamina propria shows increased plasma cells and lymphocytes.

D. Transverse colonic mucosa shows moderate active chronic inflammation with diffuse crypt architectural distortion, crypt abscesses, and goblet cell depletion. Basal plasmacytosis is prominent.

E. Ascending colonic mucosa shows mild to moderate active chronic inflammation with diffuse crypt architectural distortion, crypt abscesses, and goblet cell depletion. Reactive epithelial changes are seen adjacent to areas of active inflammation.

F. Terminal ileal mucosa shows normal small intestinal mucosa with appropriate crypt to villous ratio. No evidence of chronic inflammatory bowel disease identified in this section.

## **DIAGNOSIS:**

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

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

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

- moderate to severe active chronic colitis with crypt architectural distortion and goblet cell depletion
- moderate to severe 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 lack of granulomas, ileal involvement, and transmural inflammation favors ulcerative colitis over Crohn's disease.

**SPECIAL STUDIES:**

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