

# SURGICAL PATHOLOGY REPORT [SYNTHETIC]

**ACCESSION #:** UC-2025-26413

**DATE OF PROCEDURE:** 05/05/2025

**DATE OF REPORT:** 05/07/2025

**REQUESTING PHYSICIAN:** Dr. Megan Vaughn, Gastroenterology

**PATHOLOGIST:** Dr. Jacob Ruiz, Anatomic Pathology

## CLINICAL HISTORY:

23 year old male with 2 year history of bloody diarrhea, abdominal pain, and urgency. Colonoscopy showed moderate erythema and loss of vascular pattern from rectum to descending 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 3 tan-pink tissue fragments measuring 7 mm in aggregate.
- B. Received in formalin labeled "sigmoid colon" are 4 tan-pink tissue fragments measuring 3 mm in aggregate.
- C. Received in formalin labeled "descending colon" are 4 tan-pink tissue fragments measuring 8 mm in aggregate.
- D. Received in formalin labeled "transverse colon" are 2 tan-pink tissue fragments measuring 3 mm in aggregate.
- E. Received in formalin labeled "ascending colon" are 6 tan-pink tissue fragments measuring 6 mm in aggregate.

F. Received in formalin labeled "terminal ileum" are 4 tan-pink tissue fragments measuring 7 mm in aggregate.

All specimens are entirely submitted in 1 cassette(s).

## **MICROSCOPIC DESCRIPTION:**

A. Rectal mucosa shows severe active chronic inflammation with diffuse neutrophilic cryptitis, crypt abscesses, and epithelial injury. The inflammatory process is limited to the mucosa without evidence of granulomas. Mucosal edema and congestion are present.

B. Sigmoid colonic mucosa shows severe active chronic inflammation with diffuse neutrophilic cryptitis, crypt abscesses, and epithelial injury. The inflammatory process is limited to the mucosa without evidence of granulomas. Lamina propria shows increased plasma cells and lymphocytes.

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. Marked decrease in goblet cell population.

D. Transverse colonic mucosa shows mild to moderate active chronic inflammation with crypt architectural distortion and crypt abscesses. Marked decrease in goblet cell population.

E. Ascending colonic mucosa shows mild active chronic inflammation with crypt architectural distortion and crypt abscesses. Marked decrease in goblet cell population. Terminal ileal mucosa shows mild active inflammation with neutrophilic cryptitis, likely representing backwash ileitis.

F. Terminal ileal mucosa shows mild reactive lymphoid hyperplasia without evidence of chronic inflammatory bowel disease. 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:***

- severe active chronic colitis with crypt architectural distortion and goblet cell depletion
- 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
- Mild active ileitis, consistent with backwash ileitis in the setting of ulcerative colitis
- 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 pattern of inflammation is consistent with ulcerative colitis as evidenced by the continuous mucosal involvement with greatest intensity distally. The mild ileal inflammation in the context of pancolitis is consistent with backwash ileitis, which can be seen in ulcerative colitis and does not necessarily indicate Crohn's disease.

**SPECIAL STUDIES:**

Periodic acid-Schiff (PAS) stain is negative for fungal organisms.

\_This is a synthetic educational pathology report created for AI training purposes. It does not represent a real patient case.\_