

# **SURGICAL PATHOLOGY REPORT [SYNTHETIC]**

**ACCESSION #:** UC-2025-54772

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

**DATE OF REPORT:** 04/24/2025

**REQUESTING PHYSICIAN:** Dr. Stephanie Smith, Gastroenterology

**PATHOLOGIST:** Dr. Dawn Pennington, Anatomic Pathology

## **CLINICAL HISTORY:**

57 year old female with 6 month history of bloody diarrhea, abdominal pain, and urgency. Colonoscopy showed mild erythema and granularity limited to rectum and sigmoid 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 3 mm in aggregate.
- B. Received in formalin labeled "sigmoid colon" are 3 tan-pink tissue fragments measuring 3 mm in aggregate.
- C. Received in formalin labeled "descending colon" are 2 tan-pink tissue fragments measuring 5 mm in aggregate.
- D. Received in formalin labeled "transverse colon" are 2 tan-pink tissue fragments measuring 4 mm in aggregate.
- E. Received in formalin labeled "ascending colon" are 6 tan-pink tissue fragments measuring 7 mm in aggregate.

F. Received in formalin labeled "terminal ileum" are 6 tan-pink tissue fragments measuring 3 mm in aggregate.

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

## **MICROSCOPIC DESCRIPTION:**

A. Rectal mucosa shows moderate to severe 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.

B. Sigmoid colonic mucosa shows moderate to severe active chronic inflammation with crypt architectural distortion, lamina propria plasma cells, and basal plasmacytosis. The inflammatory process is limited to the mucosa without evidence of granulomas. Marked decrease in goblet cell population.

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. Lamina propria shows increased plasma cells and lymphocytes.

D. Transverse colonic mucosa shows mild active chronic inflammation with diffuse crypt architectural distortion, crypt abscesses, and goblet cell depletion. Lamina propria shows increased plasma cells and lymphocytes.

E. Ascending colonic mucosa shows mild to moderate active chronic inflammation with crypt architectural distortion and crypt abscesses. Occasional Paneth cell metaplasia is noted.

F. Terminal ileal mucosa shows normal small intestinal mucosa with preserved villous architecture. No evidence of chronic inflammatory bowel disease identified in this section.

## **DIAGNOSIS:**

### **A. Rectum, 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
- 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 histologic findings show classic features of ulcerative colitis with diffuse crypt architectural distortion and diffuse mucosal inflammation.

**SPECIAL STUDIES:**

Acid-fast bacilli (AFB) stain is negative for mycobacterial organisms.