# SURGICAL PATHOLOGY REPORT [SYNTHETIC]

**ACCESSION #**: UC-2025-41112 **DATE OF PROCEDURE**: 04/23/2025 **DATE OF REPORT**: 04/27/2025

**REQUESTING PHYSICIAN:** Dr. Joshua Castro, Gastroenterology

PATHOLOGIST: Dr. Nathan Jackson, Anatomic Pathology

#### **CLINICAL HISTORY:**

70 year old female with recent onset history of bloody diarrhea, abdominal pain, and urgency. Colonoscopy showed continuous erythema and friability from rectum to splenic flexure. 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 6 tan-pink tissue fragments measuring 5 mm in aggregate.
- B. Received in formalin labeled "sigmoid colon" are 5 tan-pink tissue fragments measuring 3 mm in aggregate.
- C. Received in formalin labeled "descending colon" are 2 tan-pink tissue fragments measuring 3 mm in aggregate.
- D. Received in formalin labeled "transverse colon" are 4 tan-pink tissue fragments measuring 5 mm in aggregate.
- E. Received in formalin labeled "ascending colon" are 2 tan-pink tissue fragments measuring 7 mm in aggregate.

F. Received in formalin labeled "terminal ileum" are 6 tan-pink tissue fragments measuring 8 mm in aggregate.

All specimens are entirely submitted in 5 cassette(s).

#### **MICROSCOPIC DESCRIPTION:**

- A. Rectal mucosa shows 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. Reactive epithelial changes are seen adjacent to areas of active inflammation.
- B. Sigmoid colonic mucosa shows moderate 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. Mucosal edema and congestion are present.
- C. Descending colonic 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. Mucosal edema and congestion are present. In addition to the chronic inflammatory changes, there are numerous neutrophils and pseudomembranes suspicious for superimposed Clostridioides difficile infection. The inflammatory pattern shows overlapping features of both ulcerative colitis and Crohn's disease.
- D. Transverse colonic mucosa shows moderate active chronic inflammation with diffuse crypt architectural distortion, crypt abscesses, and goblet cell depletion. Mucosal edema and congestion are present. Areas of crypt dropout and lamina propria fibrosis are present, suggesting chronicity and possible treatment effect.
- E. Ascending colonic mucosa shows mild active chronic inflammation with crypt architectural distortion and crypt abscesses. Mucosal edema and congestion are present.
- F. Terminal ileal mucosa shows mild non-specific inflammation without architectural distortion. 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:

- moderate active chronic colitis with crypt architectural distortion and goblet cell depletion
- Features of chronicity consistent with inflammatory bowel disease, with overlapping features of both UC and CD
- Features suggestive of superimposed Clostridioides difficile infection
- moderate consistent with ulcerative colitis
- No dysplasia identified

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

- moderate to severe active chronic colitis with crypt architectural distortion
- Changes consistent with chronicity and treatment effect
- 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. The histologic features suggestive of superimposed Clostridioides difficile infection should be correlated with clinical presentation and stool testing. The histologic findings show overlapping features of both ulcerative colitis and Crohn's disease. This pattern may represent an 'indeterminate colitis' and correlation with clinical, endoscopic, and serologic markers is strongly recommended for further classification. Histologic features suggesting chronicity and treatment effect are present. Correlation with treatment history is recommended.

# **SPECIAL STUDIES:**

Acid-fast bacilli (AFB) stain is negative for mycobacterial organisms. Gram stain highlights numerous gram-positive bacilli morphologically consistent with Clostridioides difficile.

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