

Waldenstrom Macroglobulinemia: A Malignant Mimicker of IBD - NewYork-Presbyterian

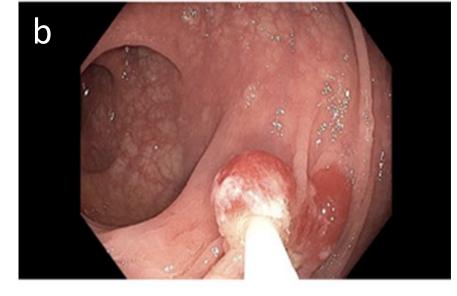
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INTRODUCTION

- Waldenstrom macroglobulinemia (WM) is a • lymphoplasmacytic lymphoma in the bone marrow with IgM gammopathy in the blood.
- Annually ~1400 cases diagnosed in the US, with typical presentation of B symptoms, fatigue, neuropathy, and mucosal bleeding.¹
- We describe a case of WM presenting as bloody • diarrhea, mimicking inflammatory bowel disease (IBD).







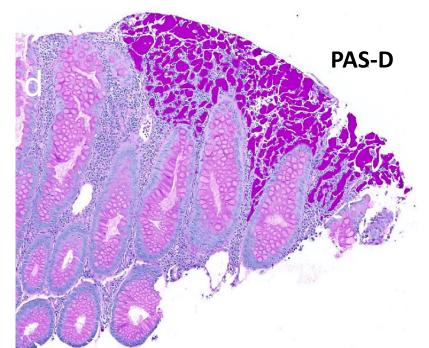


Image 1. Colonoscopy and EUS of rectosigmoid colon, with **PAS-D+** pathology staining.

- a) Colonoscopy with moderate stenosis, edema and exudate.
- b) 10 to 16 mm sessile polyps in recto-sigmoid colon.
- c) Lower EUS with circumferential wall thickening of the rectum. No infiltrative subepithelial mass.
- d) Intestinal pathology with PAS-D positive staining.

CASE DESCRIPTION



56 year old man with depression, anxiety, and fibromyalgia presented with 6 months of diarrhea with mucous and rectal bleeding

> •EGD/Colonoscopy: *Helicobacter pylori* gastritis, proctitis, & inflammatory polyps

- •Rectal mesalamine: symptoms worsened. weight loss, night sweats
- •Budesonide oral and foam: bleeding resolves, diarrhea continues despite rifaximin

• Diagnosis: irritable bowel syndrome

• Daily bowel movements with mucous & rectal bleeding •Fecal incontinence, tenesmus, rectal & abdominal pain •Myalgia, arthralgia, paresthesia, fatigue, & chills with elevated ESR

- 1. Ulcerative proctitis, inflammatory bowel disease
- 2. Fibromyalgia

•Colonoscopy: 3 cm mass at 1-4 cm from anal verge palpated on digital rectal exam, recto-sigmoid mass with ulcer and stenosis (1a), inflammatory polyps (1b) •EUS: rectal wall thickening (1c).

•Rectal biopsy: eosinophilic proteinaceous material positive for PAS-D, negative for fibrosis and amyloid and concerning for malignancy (1d)

•Hematology immunofixation: faint monoclonal IgMlambda

•Bone marrow biopsy: lymphoplasmacytic lymphoma, Waldenstrom macroglobulinemia

- Patient's GI symptoms improved on bendamustine with rituximab
- •Alternative treatment: bruton tyrosine kinase inhibitors

TAKE HOME POINTS

Waldenstrom macroglobulinemia rarely involves the GI tract • Presents in small bowel > colon/rectum (3% of cases) IgM deposition can cause severe malabsorption, steatorrhea, obstructive symptoms, or GI bleeding.²

WM and IBD can have similar clinical presentations

Waldenstrom Macroglobulinemia

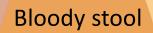
- PAS-D positive
- More severe colonic thickening

Raised lesions should prompt investigation for malignant processes, despite surrounding inflammatory changes.

REFERENCES

1. Kyrtsonis MC, Vassilakopoulos TP, Angelopoulou MK, et al. Waldenstrom's macroglobulinemia: Clinical course and prognostic factors in 60 patients. Experience from a single hematology unit.Ann Hematol.2001;80(12):722-7.

2. Pratz KW, Dingli D, Smyrk TC, Lust JA. Intestinal lymphangiectasia with protein-losing enteropathy in Waldenstrom macroglobulinemia. *Medicine (Baltimore)*. 2007;86(4):210-214.



Local colon thickening

Eosinophils on pathology

Inflammatory **Bowel Disease**

- PAS-D negative
- Less severe colonic thickening