



INTRODUCTION

- IgA vasculitis (IgAV), previously known as Henoch-Schönlein Purpura (HSP), is a small-vessel, immune-complex vasculitis that presents with skin, renal and gastrointestinal (GI) manifestations (1).
- IgAV predominantly affects pediatric populations and is rare in older patients, with an estimated annual incidence between 0.8 to 2 cases per 100,000 adults (2).
- GI manifestations occur in a significant number of patients who often present with severe abdominal pain, nausea, vomiting and GI bleeding (3).

CASE DESCRIPTION

- A 22-year-old male with a past medical history of IgA Vasculitis & Juvenile Idiopathic Arthritis (psoriatic subtype) presented to the ED with 2 days of acute abdominal pain, hematemesis & hematochezia.
- He was hemodynamically stable on presentation with labs notable for elevated WBC count $20 \times 10^9/L$, hemoglobin 16.5 g/dL, platelet count $378 \times 10^9/L$, & INR 1.1. Immunoglobulin levels were notable for IgA 972 mg/dL, IgG 433 mg/dL, & IgM 86 mg/dL.
- CTA of the abdomen & pelvis demonstrated a thickened stomach wall & proximal small bowel with mesenteric lymphadenopathy.
- EGD was notable for severe erythema & edema with superficial ulcerations in the second part of the duodenum (Fig 1 A & B). Pathology showed severe acute duodenitis with ulceration, ischemic changes, & capillaritis.
- Immunohistochemistry (IHC) revealed an abundance of IgA positive cells. During a prior IgAV flare with rectal bleeding and palpable purpura (Fig.2),
- CT A&P demonstrated terminal ileum thickening.
- Patient received IV steroids with good symptom improvement. Subsequent colonoscopy was unrevealing.



Fig. 1A & B: Second portion of the duodenum depicting erythematous duodenitis on Esophagogastroduodenoscopy (EGD)



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DISCUSSION

- IgA vasculitis in the GI tract is driven by IgA immune-complex deposition, complement activation and neutrophil-mediated vessel injury which causes characteristic symptoms of abdominal pain and bleeding (4).
- IgAV is associated with a poorer prognosis in adults with a frequency of GI symptoms ranging between 37- 65%(5). HSP is associated with a poorer prognosis in adults compared to children (6).
- Despite this, there is limited literature on the treatment, prognostication, & risk of relapse in adults. In rare cases, fatal episodes of acute surgical abdomen may occur due to mesenteric ischemia & perforation. The mainstay of treatment includes short-course steroids during acute flares.
- There is limited evidence to guide long term treatment, given the unpredictable natural history of the disease, and randomized clinical trials are warranted to design optimal regimens.
- Vasculitic causes of GI bleeding must be considered in young adults with autoimmune history, as GI manifestations may not temporally correlate with the presence of skin purpura, causing diagnostic delays (7).

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