



Abstract

- Autoimmune enteropathy (AIE) is a very rare immune disorder that mainly attacks the gastrointestinal tract by Tcell.
- The full pathology mechanism is not clear.
- Typically, characterized by intractable diarrhea and nutritional malabsorption with extra-intestinal manifestations.
- The proposed diagnostic criteria include small bowel villous atrophy not responding to diet restriction, circulating gut epithelial cell autoantibodies (GECA), and lack of immunodeficiency.
- We describe a case of AIE with extensive GI involvement, presenting in a 60-year-old patient diagnosed with Type AB thymoma.

Case Description

- Our gentleman with a history of Covid-19 complicated with pulmonary embolism and an incidental finding of malignant thymoma.
- A CT-guided biopsy was consistent with undifferentiated malignant thymoma supported by immunohistochemistry staining.

Autoimmune Enteropathy (AIE) in a Patient Diagnosed with Thymoma: A Case Report

Omar Alaber, MD; Salman Elturki, MBBCh; Haitam Buaisha, MD Creighton University School of Medicine, Omaha, NE

Case Description

- Subsequently, complicated severe diarrhea erupted with significant weight loss.
- Conservative management, antibiotics, and diet restriction were ineffective.
- Diagnostic work-up was unremarkable except for antienterocytes antibodies (AEA) and anti-goblet cells antibodies (AGA).
- Bowel biopsy revealed villous blunting, loss of Paneth cells, and minimal intraepithelial lymphocytosis with no evidence of crypt abscesses.
- Corticosteroid and Octreotide have helped the patient's diarrhea.
- Thoracoscopy thymectomy performed with radiation therapy due to local and lymphovascular invasion.

Discussion

- AIE characterized by severe villous blunting with the absence of goblet cells and Paneth cells, intraepithelial lymphocytosis, and increased crypt apoptosis.
- In comparison, graft vs host disease lack crypt abscesses, celiac disease shows increase in the intraepithelial lymphocytosis with intact goblet and Paneth cells.

- cell in the lamina propria.

- nutrition is helpful.
- thymectomy.
- small case series.
- manipulation.



Discussion

whereas inflammatory bowel disease has intact goblet and Paneth cells, and CVID characterized by absence of plasma

The presences of the GECA are nonspecific but it may help in confirming the diagnosis or may predict the prognosis and recurrence. Only AGA has been reported in IBD. Neither has been observed in celiac disease.

• The low incidence of AIE and the limited existing literature available on the optimal guidance in management.

• Oral nutritional supplementation as well as total parenteral

• The target is to control diarrhea and optimize the nutritional status before surgery. The main treatment is

Conclusion

• Much of the reported literature in AIE is from case reports or

• Further studies are required to explore the underlying mechanisms and ideal therapy for AIE.

Clinicians should suspect AIE in any individual presented with chronic diarrhea who fails to respond to therapy of dietary