

Intramural esophageal dissection. A rare occurrence in pediatric eosinophilic esophagitis

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Dear Editor,

Eosinophilic esophagitis (EoE) is a chronic immune-mediated esophageal disease, with a rising incidence in childhood. The diagnosis is confirmed by esophageal mucosa eosinophil-predominant inflammation. Rare complications, such as intramural esophageal dissection (IED) due to progressive transmural inflammatory and fibrotic process, may occur in young adults (1-4). While severe cases can require immediate surgical intervention, conservative management may be also effective, as recently reported by Ibáñez-Sanz et al. (3), decreasing the risk of surgery-related complications.

Case report

We report a pediatric case of EoE-associated esophageal dissection with a favorable outcome after a conservative management. An 11-year-old boy presented to the Emergency Department with retrosternal pain, odynophagia/dysphagia and sialorrhea of a one-week duration. He had an atopic background (allergic asthma and rhinitis), allergic rhinitis and a previous EoE diagnosis at the age of eight years (food impaction episode). He did not have any food allergies. Despite the voluntary interruption of swallowed fluticasone, he had remained asymptomatic.

On admission, the patient was febrile and a laboratory evaluation identified leukocytosis and elevated C-reactive protein. A chest computed tomography (CT) scan excluded mediastinitis, and endoscopy showed extensive ulceration and dissection of the esophageal posterior wall that extended to the muscular layer (Fig. 1). The symptoms resolved over the next two weeks with a conservative treatment of enteral nutrition, proton pump inhibitors (PPI), prednisolone, broad-spectrum antibiotic therapy. The child was dis-

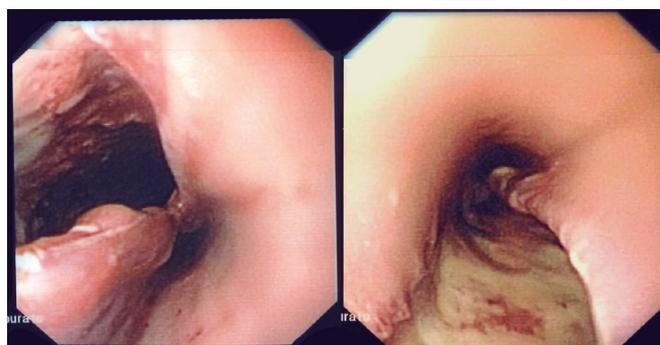


Fig. 1. Upper gastrointestinal endoscopy showing extensive ulceration and dissection of the esophageal posterior wall that reaches the muscular layer (~30% of the circumferential diameter).

charged on day 35. Follow-up endoscopy revealed mucosal healing and no strictures. Twelve months later, the patient remained asymptomatic and compliant to maintenance treatment with swallowed fluticasone.

Discussion

This case illustrates a quite rare and serious complication of pediatric EoE. To our knowledge this is the youngest reported case of IED in this setting, with favorable outcome and a conservative management that allowed an esophageal wall restitution. Furthermore, it provides further insights into its natural history (1-3). The role of conservative management, particularly in this age group, despite an extensive dissection, and the treatment compliance of EoE are noteworthy, considering the progressive course of a transmural chronic inflammatory process.

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