https://doi.org/10.22516/25007440.1313

Eosinophilic Esophagitis

Víctor Arbeláez.[1*]

OPEN ACCESS

Citation:
Arbeláez V. Eosinophilic Esophagitis. Revista. colomb. Gastroenterol. 2024;39(4):373-375. https://doi.org/10.22516/25007440.1313

[1] Gastroenterologist, Universidad Nacional de Colombia. Professor *ad honorem*, Universidad del Rosario. Gastroenterologist, Gutmédica, Instituto de Salud Digestiva. Bogotá, Colombia.

***Correspondence:** Víctor Arbeláez.
victorarbelaez9@gmail.com

Received: 03/12/2024
Accepted: 04/12/2024

This issue of the Revista Colombiana de Gastroenterología features two articles related to eosinophilic esophagitis (EoE). The first, by Drs. Castaño, Álvarez, and colleagues[(1)], examines a cohort of 330 patients retrospectively collected from esophageal biopsy pathology results at four centers in Medellín. The study compares demographic characteristics, endoscopic findings, eosinophil counts in esophageal mucosa, concomitant atopic diseases, treatments received, diagnostic delays, and disease phenotypes between adolescents aged 12–17 and adults over 18. Undoubtedly, this is a noteworthy contribution, deserving of recognition and congratulations, as it helps the medical community in Colombia to more frequently and promptly identify and diagnose patients with this relatively new disease, whose global incidence has been increasing over the past few decades.

In addition, two leaders in the field of gastroenterology, Drs. Juliao and Lúquez[(2)], provide an enlightening state-of-the-art review on EoE. Their extensive, engaging, and up-to-date review covers the most relevant information on the epidemiology, pathophysiology, diagnosis, and treatment of the condition. Without doubt, this represents a significant contribution to the knowledge and education surrounding this disease in Colombia.

Dr. Castaño and colleagues' study highlights that 80% of patients with EoE are adults, with the remaining 20% being adolescents, most of whom are male. The study identified an average diagnostic delay of two years in adults, significantly longer than the 12-month delay observed in adolescents. This finding underscores the need to increase awareness of the disease among general practitioners, family physicians, and internists, among others. Differences were also observed in the frequency of stenotic/mixed and inflammatory phenotypes, which were more common in adults—likely due to the disease's longer duration and differences in treatment approaches between adolescents and adults[(3)]. However, the study was unable to determine whether clinical presentation differed significantly between the two age groups, possibly because the adolescents studied had an average age of 14. As noted in the publication by Drs. Juliao and Lúquez, the presentation in children is primarily characterized by abdominal pain, vomiting, feeding difficulties, and growth delays[(2)], which are likely the predominant manifestations in younger children.

In summary, EoE is a chronic inflammatory disease driven by a type 2 immune response involving food allergens. It is histologically characterized by an increase in eosinophils (>15 per high-power field) in the esophageal mucosa, leading to esophageal dysfunction with defined clinical manifestations. Approximately 30% of cases may develop strictures or a narrow-caliber esophagus[(4,5)]. The condition has several treatment options with variable efficacy and differing profiles of adverse effects, convenience, costs, and availability, making its management a significant challenge.

© 2024 Asociación Colombiana de Gastroenterología

Treatment decisions should be made collaboratively with the patient and their family, particularly in pediatric cases. As highlighted in the review by Juliao and Lúquez, all proposed treatments have evidence of efficacy, which is further supported by a systematic review and meta-analysis of maintenance therapies presented at the American Digestive Disease Week 2024[6]. Empiric food elimination therapy is an effective treatment for patients of all ages. However, there is debate over whether to begin with a six-food elimination diet or to eliminate only cow's milk, which is an appealing option as it simplifies dietary restrictions. Arguments exist for both approaches[7,8], and overall adherence rates for long-term dietary maintenance are reported to be low, at approximately 20%. A recent study by Wang and colleagues found that 57% of patients who completed the six-food elimination diet entered the maintenance phase, with 100% maintaining remission at three years[4].

Proton pump inhibitors (PPIs) have demonstrated efficacy, are widely available, reasonably priced, and have a high tolerance and safety profile. Topical corticosteroids are effective medications; however, their prolonged use can lead to adverse effects, such as candidiasis (7%)[9]. There have been no significant changes in bone biomarkers with budesonide use[10,11], and the incidence of adrenal insufficiency is low[9]. Esophageal dilations performed using the appropriate technique are effective and carry a very low risk of complications[12].

Biological therapy with dupilumab may be considered a first-line treatment for patients with moderate-to-severe disease who also have asthma, atopic dermatitis, or nasal polyposis and who strongly prefer to avoid dietary restrictions or topical steroids. It may also be suitable for those with a low likelihood of responding to PPIs or topical steroids.

The development of a severity scale, available as an application, could significantly improve therapeutic decision-making in the near future. The goal of treatment is to achieve and maintain clinical, endoscopic, and histologic remission, whether through monotherapy or a combination of available therapies.

REFERENCES

1. Castaño R, Rivera J, Diazgranados L, Baena JD, Puerta Botero JE, Cadavid I, Álvarez O. Esofagitis eosinofílica y diferencias clínicas, endoscópicas y terapéuticas entre adolescentes y adultos. Revista. colomb. Gastroenterol. 2024;39(4):376-385. https://doi.org/10.22516/25007440.1137
2. Juliao-Baños F, Lúquez-Mindiola A. Esofagitis eosinofílica: estado del arte en 2024. Revista. colomb. Gastroenterol. 2024;39(4):435-446. https://doi.org/10.22516/25007440.1276
3. Chang NC, Thakkar KP, Ketchem CJ, Eluri S, Reed CC, Dellon ES. A Gap in Care Leads to Progression of Fibrosis in Eosinophilic Esophagitis Patients. Clin Gastroenterol Hepatol. 2022;20(8):1701-1708.e2. https://doi.org/10.1016/j.cgh.2021.10.028
4. Wang R, Hirano I, Doerfler B, Zalewski A, Gonsalves N, Taft T. Assessing Adherence and Barriers to Long-Term Elimination Diet Therapy in Adults with Eosinophilic Esophagitis. Dig Dis Sci. 2018;63(7):1756-1762. https://doi.org/10.1007/s10620-018-5045-0
5. Hirano I, Chan ES, Rank MA, Sharaf RN, Stollman NH, Stukus DR, et al. AGA Institute and the Joint Task Force on Allergy-Immunology Practice Parameters Clinical Guidelines for the Management of Eosinophilic Esophagitis. Gastroenterology. 2020;158(6):1776-1786. https://doi.org/10.1053/j.gastro.2020.02.038
6. Barchi A, Mandarino FV, Dell'Anna G, Fasulo E, Yacoub M, Albarello L, et al. OC.18.11: long-term outcomes of maintenance therapy in adult and pediatric eosinophilic esophagitis: a systematic review and metanalysis. Digest Liver Dis. 2024;56:S219-20. https://doi.org/10.1016/s1590-8658(24)00556-5
7. Mayerhofer C, Kavallar AM, Aldrian D, Lindner AK, Müller T, Vogel GF. Efficacy of Elimination Diets in Eosinophilic Esophagitis: A Systematic Review and Meta-analysis. Clin Gastroenterol Hepatol. 2023;21(9):2197-2210.e3. https://doi.org/10.1016/j.cgh.2023.01.019
8. Kliewer KL, Gonsalves N, Dellon ES, Katzka DA, Abonia JP, Aceves SS, et al. One-food versus six-food elimination diet therapy for the treatment of eosinophilic oesophagitis: a multicentre, randomised, open-label trial. Lancet Gastroenterol Hepatol. 2023;8(5):408-421. https://doi.org/10.1016/S2468-1253(23)00012-2
9. Safroneeva E, Rossel JB, Saner C, Biedermann L, Kreienbuehl A, Greuter T, et al. Real-life effectiveness of swallowed topical steroids, proton pump inhibitors, and elimination diets: results from the swiss eosinophilic esophagitis cohort study. Gastroenterology. 2024;166(5):S-421. https://doi.org/10.1016/s0016-5085(24)01444-6
10. Henderson AF, Khan SM, Hornung LN, Mukkada VA, Kalkwarf HJ. Prevalence and Predictors of Compromised Bone Mineral Density in Pediatric Eosinophilic Esophagitis. J Pediatr Gastroenterol Nutr. 2020;71(6):764-770. https://doi.org/10.1097/MPG.0000000000002866
11. Lucendo AJ, Miehlke S, Bredenoord A, Schoepfer AM, Attwood SE, Biedermann L, et al. Sa1283 maintenance treatment with orodispersible budesonide is not associated with changes in bone biomarkers in adult patients with eosinophilic esophagitis (eoe): results from a randomized, double-blind, placebo-controlled, 48-week trial (study

BUL-2/EER). Gastroenterology. 2024;166(5):S-417. https://doi.org/10.1016/s0016-5085(24)01435-5
12. Rank MA, Sharaf RN, Furuta GT, Aceves SS, Greenhawt M, Spergel JM, et al. Technical Review on the Management of Eosinophilic Esophagitis: A Report From the AGA Institute and the Joint Task Force on Allergy-Immunology Practice Parameters. Gastroenterology. 2020;158(6):1789-1810.e15. https://doi.org/10.1053/j.gastro.2020.02.039