NEW YORK SOCIETY FOR GASTROENTEROLOGY & ENDOSCOPY

48th Annual

NEW YORK COURSE

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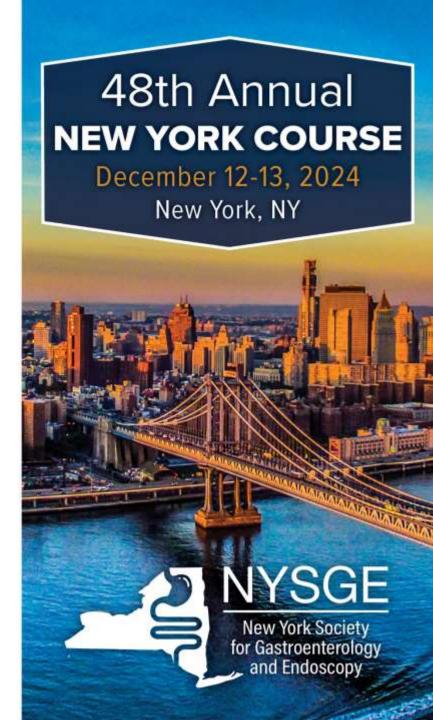
The Latest and Greatest on Eosinophilic Esophagitis

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Consulting for Takeda, Sanofi-Regeneron, Astra Zeneca, Bristol Myers Squibb



Mean and total costs of EoE (USD), by calendar year

Mean cost, prevalent EoE — Total cost, prevalent EoE

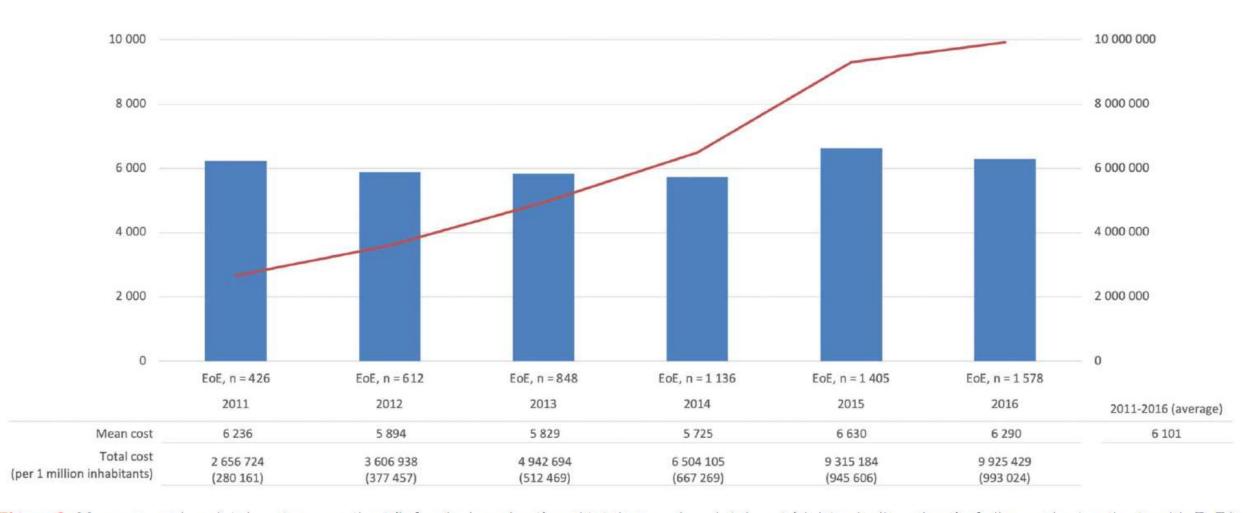
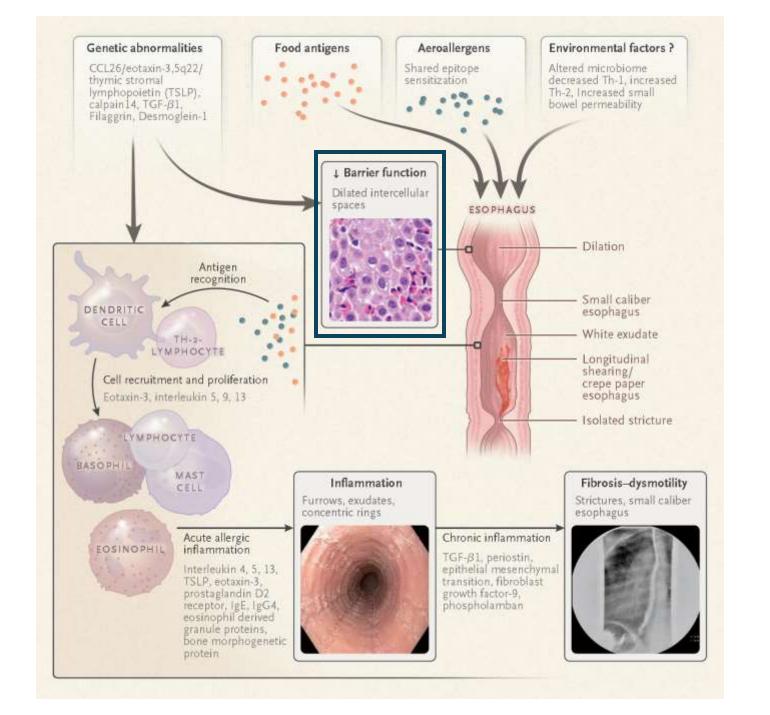


Figure 2. Mean annual societal costs per patient (left axis, bar chart) and total annual societal cost (right axis, line chart) of all prevalent patients with EoE in Sweden by calendar year. Brackets indicate 95% confidence intervals. All costs were adjusted for inflation and converted from Swedish Krona (SEK), to USD according to the annual average exchange rate in 2023 (1 USD = 10.61 SEK). EoE, eosinophilic esophagitis; USD, US dollar.





Main actor	Mechanism of tissue injury in EoE	Ref
	Impaired barrier structure - Cadherin, filaggrin, claudin, occludin and desmoglein impairment	(12–16)
Mucosal barrier	Impaired barrier function - Oncostatin M-, SPINK7- and calpain 14- mediated reduced TEER and increased FITC dextran flux	(22,23)
	Epithelial release of Th2-triggering alarmins (i.e. IL-33, IL-25 and TSLP)	(26–29)
	Allergens and microbes penetration in lamina propria and activation of Th2 inflammation	(24)
ce et al. Gut (in press)	 IL-13 and IL-4 Drivers of Th2 inflammatory process Promote migration and trafficking of eosinophils Involved in B cell class switching to IgE, leading to mast cell and basophil degranulation Mediates impairment of oesophageal epithelial cells and barrier dysfunction 	(33–38)



Су	/tokines	IL-5 - Eosinophil maturation, differentiation and survival	(39)
		IL-18 - Development of mature and pathogenic eosinophils	(40)
		Interferon α - Interferon γ - Possible non-type 2 inflammatory networks in EoE	(43)
Che	emokines	Periostin and eotaxin-3 - Eosinophil chemotaxis and activation	(41,42)
lmm	Immune cells Eosinophils Defining feature of EoE; not clear correlation with disease severity and progression Infiltrating and degranulating in the epithelium during active EoE Type 2 inflammatory cytokines production (i.e. IL-4, IL-5, IL-13)		(44)



Mast cells

- Infiltrating and degranulating in the epithelium during active EoE
- Release of type 2 inflammatory mediators, prominently IL-13

Th2 lymphocytes

 Promoting inflammation through type 2 inflammatory mediators (IL-4, IL-5, IL-13) and (18,51) prostaglandins production

(46)

 Contributing to loss of barrier integrity through IL-13

Group 2 innate lymphoid cells

Bolstering type 2 inflammation through IL-4, (54)
 IL-5, IL-9, and IL-13 production

Dendritic cells and basophils

Induction and polarisation Th2 phenotype: (52)
 cytokine production (IL-4, IL-12 and TSLP)
 and antigen presentation

B cells and immunoglobulins

- Increased B cells and IgE class switch recombination, despite EoE is characterised (38,53) by non-IgE hypersensitivity
- Increased IgG4 which correlates with disease severity



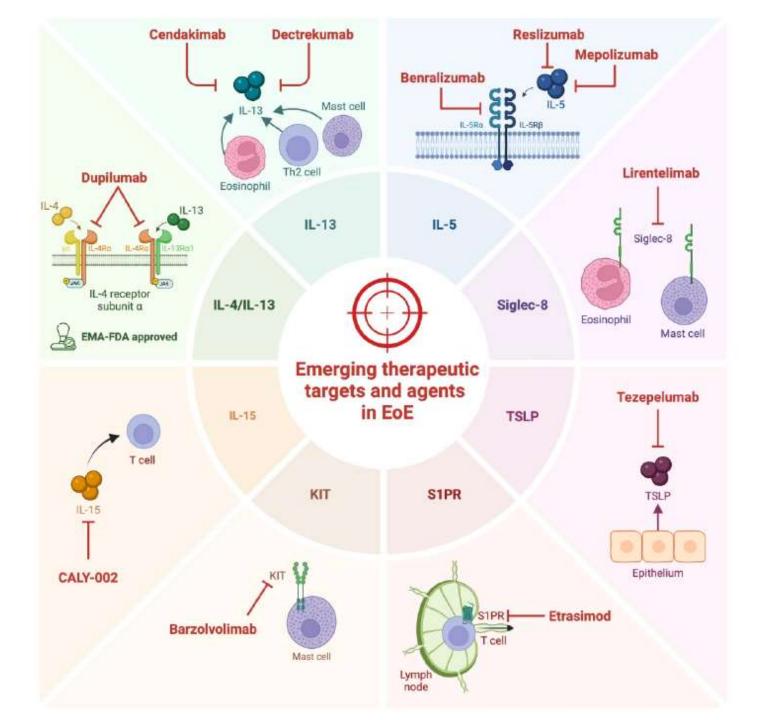
Table 2. Summary of mechanisms of remodelling in EoE

Main actor	Mechanism of tissue remodelling in EoE			Mechanism of tissue remodelling in EoE R	
	Epithelial proliferation: - SFRP1-mediated basal zone hyperplasia - CD74+CD104+ self-renewal epithelial cells	(57,58)			
	depletion Impaired epithelial differentiation and cell-to-cell				
	communication:				
Epithelial cells	 Failure of NOTCH, LOX/BMP and TGF-β receptor signalling pathways 	(59–62)			
	Decrease in E-cadherin and ZO-1 and increase in N-cadherin				
	Epithelial-to-mesenchymal transition, driven by IL-13 and β-catenin/Twist 1 transcription factors, leads to	(62)			
	ECM accumulation Fibroblasts				
	- Activation and production of ECM under the stimulation of TGF-β	(64)			
	 Epithelial-fibroblast-endothelial-immune cell cross-talk leads to fibrogenesis 				
Lamina propria cells	 Endothelial cells: IL-13-mediated endothelial TSPAN12 down-regulation contributes to fibrosis 	(67)			



	Smooth muscle cells: - Proliferation and contraction mediated by TGF-β1-induced phospholamban	(68)
	Macrophages: - Modulation of fibrosis through GM-CSF and CCL18	(69)
	 TGF-β: Promote ECM deposition by myofibroblast Stimulate epithelial-to-mesenchymal transition Regulate smooth muscle cell proliferation and contractility 	(70)
Molecules	Thrombospondin-1 - Profibrotic molecule, central in EoE ECM protein-protein interactome - Induce fibroblast collagen I and α-SMA production	(71)
	TNFSF14/LIGHT - Upregulated in EoE - Promotes fibroblast remodelling	(72)







Biologics Currently Being Investigated for Use in Patients With EoE

Tezepelu mab

- TSLP inhibitor
- Orphan drug designat ion by FDA for treatme nt of EoE
- Phase III trial planned

Benralizu mab

- IL-5 inhibitor
- Phase III trial in progress

Lirentelim ab

- Siglec-8 inhibitor
- Phase II/III trial in progress

Cendakim ab

- IL-13 inhibitor
- Also known as RPC4046 and CC-93538
- Phase III trial in progress

Etrasimod

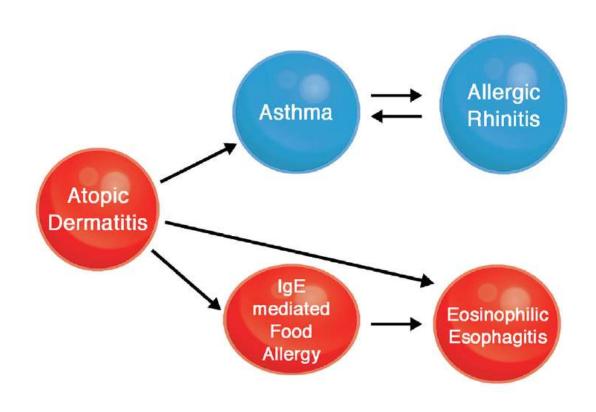
- S1P receptor modulat or
- Phase II trial in progress

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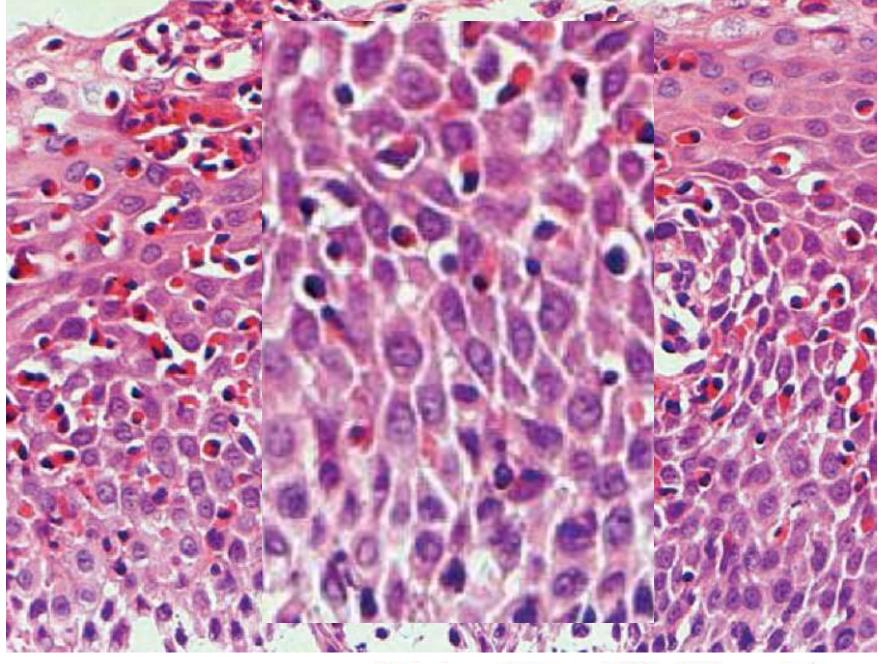
The allergic march Incidence density of disease 1.0 AD IgE-FA Asthma 0.5 AR EoE 0.0 2.5 0.0 5.0 Age at diagnosis (years)

FIGURE 1. The allergic march. Density incidence of atopic dermatitis (AD), IgE-mediated food allergy (IgE-FA), asthma, allergic rhinitis (AR), and eosinophilic esophagitis (EoE) by age.



Spergel JM, et al. JACI 2023 (in press)

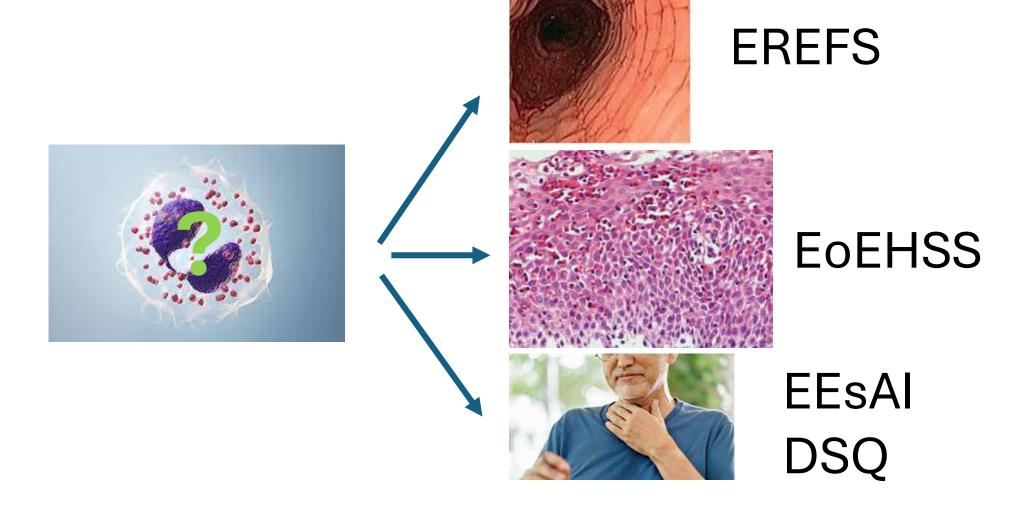




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Chang Pathology (January 2008) 40(1), pp. 3-8





Index of Severity in EoE (ISEE)

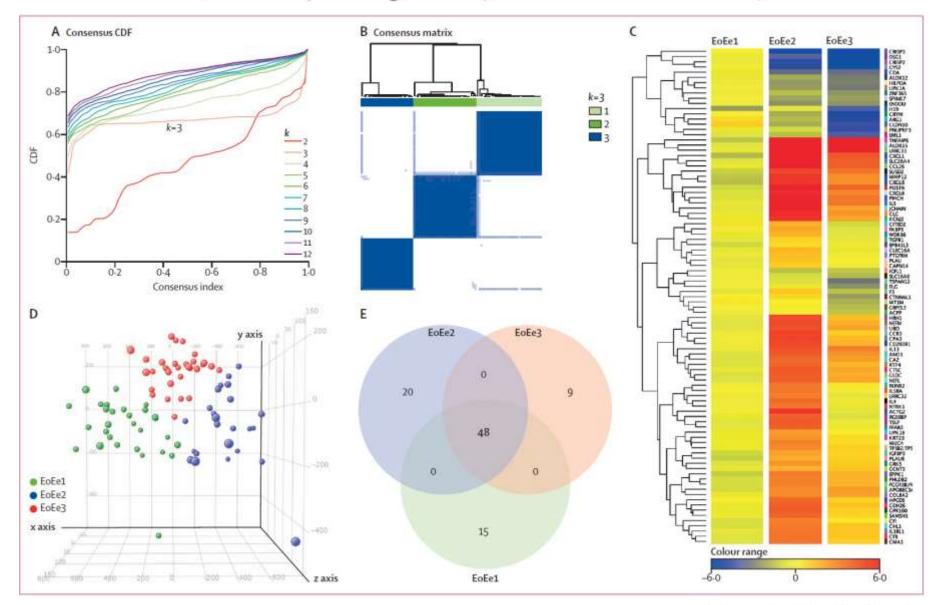
Symptoms and complications Symptoms None 0 0	Clinical features of severity	Points assigned
None 0 Weekly 1 Daily 2 Multiple times per day or disrupting social functioning 4 Complications None 0 Food impaction with emergency department visit or endoscopy (patient ≥18 years) 2 Food impaction with emergency department visit or endoscopy (patient <18 years) 4 Hospitalization due to EoE 4 Esophageal perforation 15 Malnutrition with body mass index <5th percentile or decreased growth trajectory 15 Persistent inflammation requiring elemental formula, or systemic corticosteroid, or immunomodulatory treatments Inflammatory features Endoscopy (edema, furrows, andlor exudates) None 0 Localized 1 Diffuse 2 Histology <i (or="" (rings,="" 0="" 1="" 15-60="" 2="" 5="" 5-60="" <18="" a="" adult="" alterations="" an="" any="" basal="" but="" cannot="" category="" cells="" child="" cos="" dilation="" dilations="" dyskeratotic="" easily="" endoscope="" endoscope,="" endoscopy="" epithelial="" features="" fibrosis="" fibrostenotic="" fit="" histology="" hpf="" hyperplasia="" if="" in="" inactive<="" lamina="" no="" none="" or="" pass="" passes="" passing="" present,="" propria="" propria)="" repeated="" requires="" score="" snug="" standard="" strictures)="" surface="" td="" total="" upper="" when="" years="" years,="" zone="" ≥18=""><td>Symptoms and complications</td><td></td></i>	Symptoms and complications	
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Multiple times per day or disrupting social functioning Complications None Food impaction with emergency department visit or endoscopy (patient ≥18 years) Food impaction with emergency department visit or endoscopy (patient <18 years) Food impaction with emergency department visit or endoscopy (patient <18 years) Hospitalization due to EoE Esophageal perforation Malnutrition with body mass index <5th percentile or decreased growth trajectory Persistent inflammation requiring elemental formula, or systemic corticosteroid, or immunomodulatory treatments Inflammatory features Endoscopy (edema, furrows, andlor exudates) None Localized Diffuse Histology <15 cos/hpf 10 0 15-60 cos/hpf 20 Fibrostenotic features Endoscopy (rings, strictures) None O Present, but endoscope passes easily Present, but requires dilation or a snug fit when passing a standard endoscope Cannot pass standard upper endoscope, repeated dilations in an adult ≥18 years, or any dilation in a child <18 years Histology None O Basal zone hyperplasia or lamina propria fibrosis (or dyskeratotic epithelial cells/ surface epithelial alterations if no lamina propria) Category Total score Inactive <1 Mild Moderate O O Addition in a child 1-6 Moderate O O Addition in a child 1-6 Moderate	Weekly	1
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Mild 1-6 Moderate 7-14	Category	Total score
Moderate 7-14	Inactive	<1
	Mild	1-6
Severe ≥15	Moderate	7-14
	Severe	≥15

Dellon ES. Gastroenterology Volume 19, Issue 8

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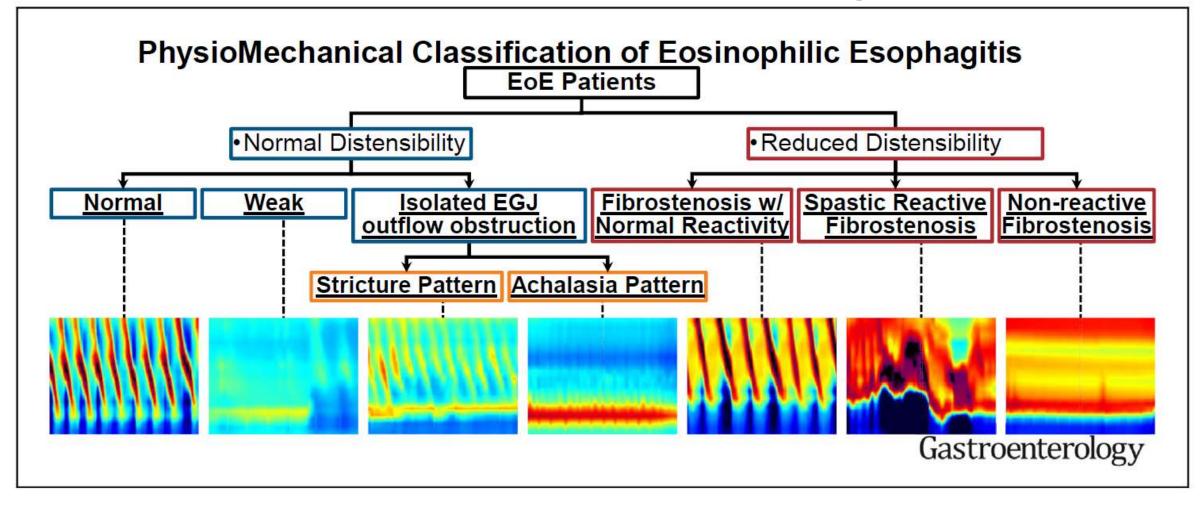
August 2023

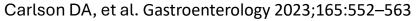
Eosinophilic oesophagitis endotype classification by molecular, clinical, and histopathological analyses: a cross-sectional study





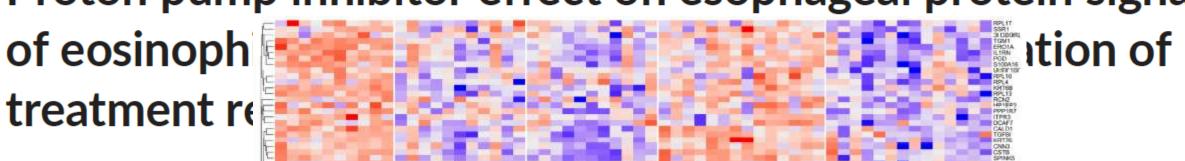
Phenotypes of Eosinophilic Esophagitis

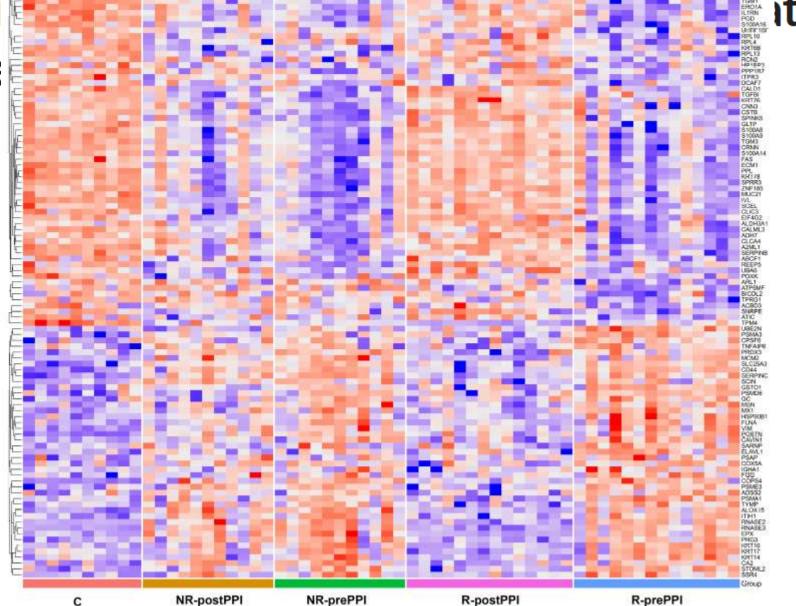






Proton pump inhibitor effect on esophageal protein signature





Diet Therapy











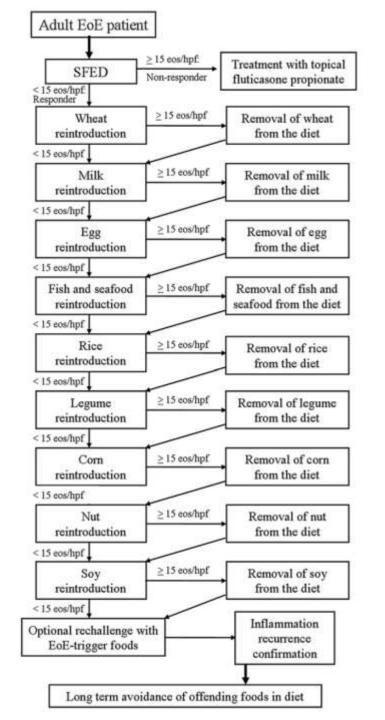
One-food versus six-food elimination diet therapy for the treatment of eosinophilic oesophagitis: a multicentre, randomised, open-label trial Kliewer KL, et al. Lancet Gastroenterol Hepatol 2023; 8: 408-21

	1FED (n=67)	6FED (n=62)	Percentage point difference*	p value
<15 eos/hpf†	23 (34%; 23 to 46)	25 (40%; 28 to 53)	6% (-11 to 23)	0.58
≤10 eos/hpf	20 (30%; 19 to 41)	23 (37%; 25 to 49)	7% (-9 to 24)	0.46
≤6 eos/hpf	12 (18%; 9 to 27)	20 (32%; 21 to 44)	14% (-0 to 29)	0.069
≤1 eos/hpf	4 (6%; 0 to 12)	12 (19%; 10 to 29)	13% (2 to 25)	0.031

Data are n (%; 95% CI) or % (95% CI). p values were calculated with Fisher's exact test. 1FED=one-food elimination diet. 6FED=six-food elimination diet. eos/hpf=eosinophils per high-power field. *6FED versus 1FED. †Primary endpoint.

Table 2: Proportion of patients in histological remission (intention-to-treat population)



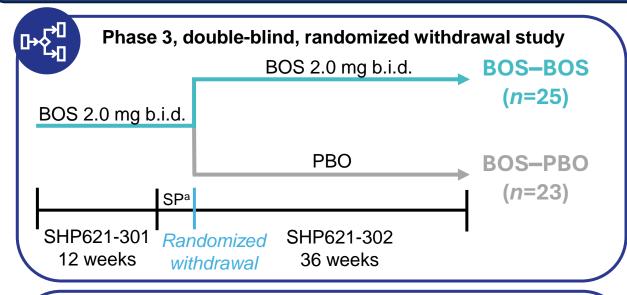




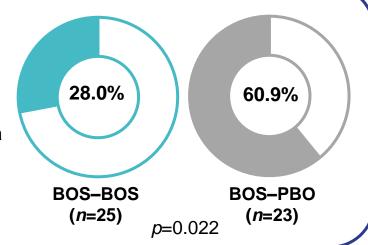
Lucendo AJ, JACI. 2013;131:797

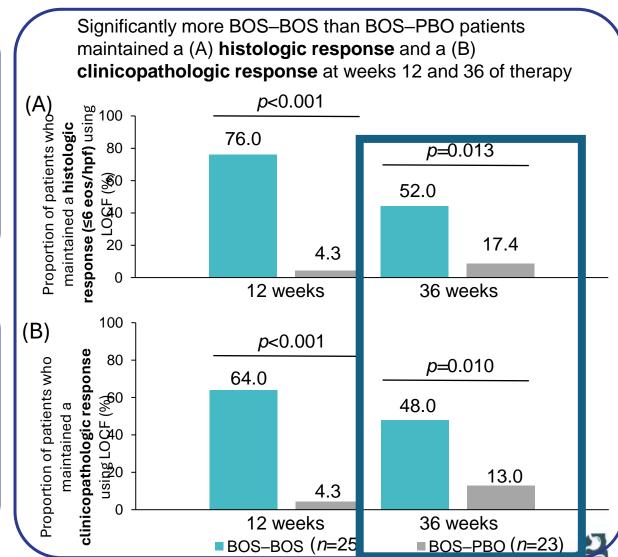


Effect of randomized treatment withdrawal of budesonide oral suspension on clinically relevant efficacy outcomes in patients with eosinophilic esophagitis: a post hoc analysis



A significantly greater proportion of BOS-PBO than BOS-BOS patients relapsed (≥15 eos/hpf [≥1 esophageal region] and ≥4 days of dysphagia [DSQ]) over 36 weeks of therapy using a post hoc alternative definition of relapse



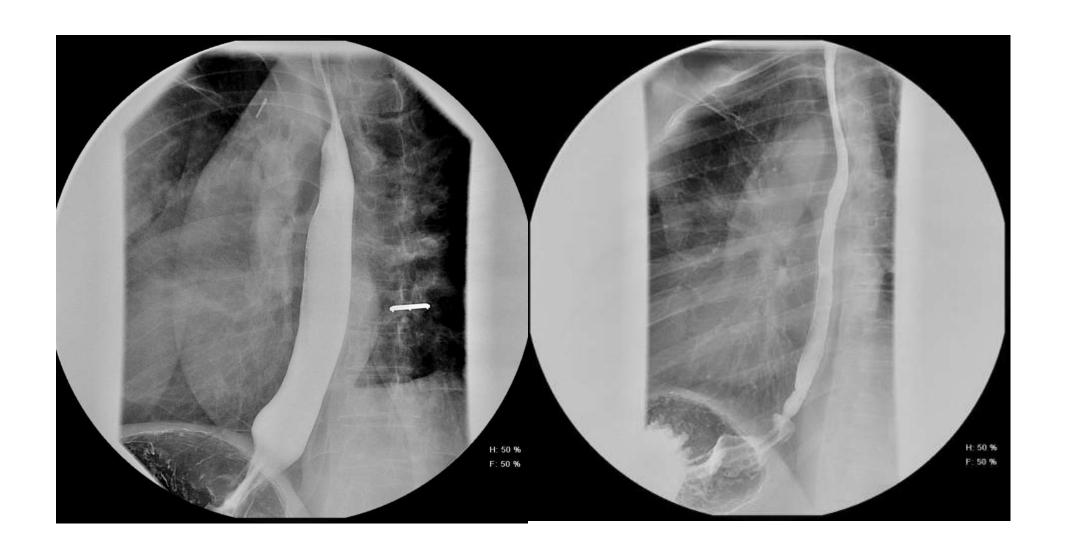


^a4-week SP, during which patients continued treatment with BOS 2.0 mg b.i.d.

b.i.d., twice daily; BOS, budesonide oral suspension; DSQ, Dysphagia Symptom Questionnaire; eos/hpf, eosinophils per high-power field; LOCF, last observation carried forward; PBO, placebo; SP, screening period

Normal

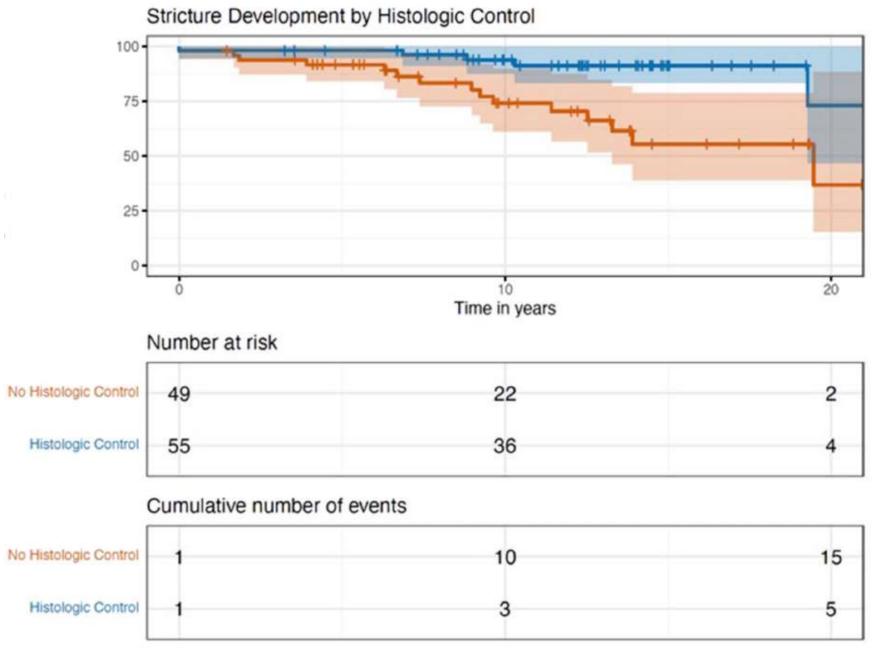
Eosinophilic Esophagitis





Reducing Eosinophil Counts in Eosinophilic Esophagitis in Children Is Associated With Reduction in Later Stricture Development

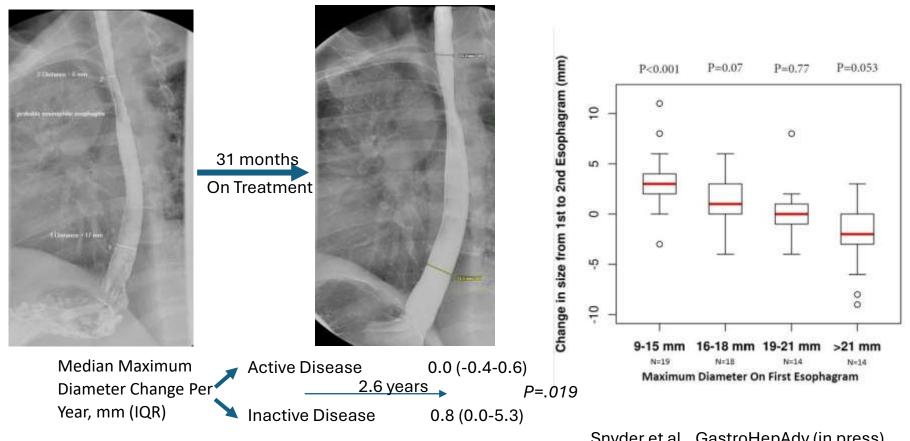
Alexandra Strauss Starling, MD¹, Yue Ren, MS², Hongzhe Li, PhD², Jonathan M. Spergel, MD³, Amanda B. Muir, MD⁴, Kristle L. Lynch, MD¹, Chris A. Liacouras, MD⁴ and Gary W. Falk, MD, MS, MACG¹

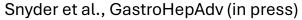


Starling et al. Am
J Gastroenterol
2024;119:20022009



Course of Esophageal Strictures in Eosinophilic Esophagitis Using Structured Esophagram Protocol







Summary of EoE Present and Future

- EoE will continue to increase worldwide including Asia
- The etiology is unclear but likely multifactorial including genetic, allergic, microbial and iatrogenic origins
- Diet therapy will become more attractive with a one food elimination diet
- Therapies will continue to emerge as we further dissect the pathways
- Lifelong maintenance treatment is suggested and will be tailored based on the identification of severity and prognostic phenotypes.

