

Multidisciplinary Approach to Eosinophilic Esophagitis (EoE) Management in Children and Adults

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Disclosures

Disclosures:
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Polling Question

What is your profession?

- A. Registered Dietitian
- B. Registered Nurse
- C. MD, PA, NP
- D. Other





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Most prominent sy	mptoms	Feeding disor	der	Vomiting	Abdominal pain	Dysphagia	Food impaction	Derect	
Median age at presentation		2.0 years		8.1 years	12.0 years	13.4 years	16.8 years	Based on Noel	
Prevalence		13.6%		26.2%	26.2%	27.2%	6.8%	et al, 2004¹	
INFANTS	тс	TODDLERS		HILDREN	TEENS		ADULTS		
Falte	ring grow	th/Failure to thr	ive						
Feeding difficulties									
		Vomiting/	emes	is					
				Gastro	esophageal reflux :	symptoms (he	eartburn, reflux)		
				Abdominal pain					
Possible signs and symptoms of EoE ^{2,3} Predominant symptoms by age, not					Chest pain				
				Dysphagia					
comprehensive ^{4,5}					Food impaction				
Nonesophageal sym							Esophageal s	symptor	



PPI as Treatment for EoE

PPI trial should be considered in patients diagnosed with EoE

Option A:

- Treat symptoms with PPI before EGD
 - If symptoms resolve, continue to treat based on symptoms
 - May miss a PPI-responsive EoE case
- Perform EGD if symptoms do not resolve
 - If findings are consistent with EoE, diagnosis is confirmed
 - Can assume EoE is not PPI responsive in that patient

Option B:

- Perform EGD before any treatment
- If findings suggest EoE, treat with PPI
 High dose, 8 weeks
- Repeat EGD at end of treatment
 - If still looks like EoE, non PPI responsive EoE
 - If findings resolve, PPI responsive EoE

If PPI responsive EoE is diagnosed, ongoing treatment with PPI is needed
 Patients with PPI responsive EoE do not need other treatments



















Limitations to Elimination Diets





□ Difficult to implement

- Patients need instruction on reading labels, avoiding inadvertent exposure & creating nutritionally adequate diet with allowable foods
- Process of identifying food antigens can be long Restrictive diets may be tedious
- May be overly restrictive or not restrictive
- May place at risk of nutritional deficiencies Should monitor nutritional status
- Co-manage with dietitian
- May need supplemental amino acid-based formula to fill nutritional gaps

Elemental Diet: Amino Acid-Based Formula NLC

- Exclusive feeding of amino acid-based formula (AAF)
- □ Up to 97% response rate
- Advantages:
 - Most effective of any published option
- Disadvantages:
 - Most life-altering
 - May require NG or gastrostomy feeds
 - Cost (if paid out of pocket)
 - Increasing state legislative mandates for AAF coverage

Aarkowitz J et al. Am J Gastroenterol, 2003. Liacouras C et al. Clin Gastroenterol Hepatol, 2005.







Empiric vs. Directed Dietary Management **NLC**

Empiric

- No allergy testing needed
- Multiple options: (6FED, 4FED, 1FED)
 - The more restrictive, the better the likelihood of response
- Each option restricts dietary "staples"
 - Still lots of kid-friendly foods (meats, fruits, vegetables) are allowable

Directed

- Relies on allergy testing
 - Highly dependent on allergist
- May bypass elimination
 - of some dietary "staples"
 - Although almost always includes milk restriction

Polling Question

Which option is most often used as an initial management approach in your center?

- A. Pharmacological (Steroids, PPIs)
- B. Elimination diet (Empiric, test-directed)
- c. Elemental diet (Amino acid-based formula)
- D. Combination of elimination and elemental diet
- E. Varies significantly between patients

EoE Management Choices Vary By Center

- Comparison of initial management choices in pediatric patients across academic and community allergy and gastroenterology practices in the Carolinas
 - Steroids as initial management choice varied from 1% to 86%
 - Diet as initial management choice varied from **2% to 81%**
 - Elemental diet as initial management choice varied from 0% to 6%

Huang et al. Gastroenterol. 150(4):S1:S669.







Polling Question

How have your management practices changed given the current pandemic? Select all that apply.

- A. Increased use of steroids as first-line option
- B. Avoidance of changes to management approach
- c. Avoidance of food trials
- D. Discontinuation of elective procedures (e.g. EGD)
- E. Initiation of telehealth
- F. Other

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Proposed Approach for Initial Management

- Confirm diagnosis
 - Try not to perform EGD until adequate trial of PPI (high dose)
 - If has not had adequate PPI trial, start PPI and plan on repeat EGD to confirm eosinophilia persists

Proposed Approach for Initial Management **NUTRICA LEARNING CENTER**

- Once diagnosis is confirmed, start management approach
 - If severe symptoms (dysphagia, weight loss, food impactions), consider temporary topical steroid use
 - If stricture present, consider prednisone
 - If mild symptoms, refer to allergist for testing to assist in directing elimination diet
 - Consider restriction of milk +/- wheat pending allergy testing



Proposed Approach for Initial Management

- If allergy testing is negative, start empiric approach
 Usually 4 or 6 food elimination diet
 - Meet with dietitian; assess AAF need
- Once dietary elimination is started, discontinue use of steroids (if started)
- Schedule repeat EGD approximately 6 weeks after starting dietary approach
 - If in remission, can attempt food reintroduction
 - If not in remission, adjust diet further

Second Phase of Dietary Management

- □ If unable to achieve remission:
 - Consider elemental diet
 - Consider steroids
- Once new approach started, schedule repeat EGD to confirm remission
- □ Once in remission:
 - Start food reintroductions
 - EGD to follow

Who Captains the Ship?

- □ GI or Allergy?
- Some factors to consider:
 - Ease of access
 - Experience and expertise
 - Location of other resources
 - Dietitian
 - Psychologist
 - Feeding specialists
- A shared approach is optimal
 - Requires a shared philosophy
 - Good communication is vital
 - Must speak the same language



Gastroenterology and Allergy

Gastroenterology

- Make definitive diagnosis (EGD)
- Recommend management approach*
- Monitor symptoms
- Manage complications
 - Dilation, FB removal
- Instruct on food reintroduction
- Re-evaluate for histologic response
- Manage co-existing GI symptoms

Allergy

- Identify potential patients
- Diagnose food allergies
- Recommend management approach*
- Retest prior to food reintroduction
- Instruct on food reintroduction
- Manage co-existing atopic/allergic disease

*If no agreement on recommended approach, response is likely to be suboptimal









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