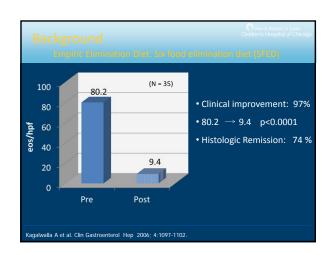
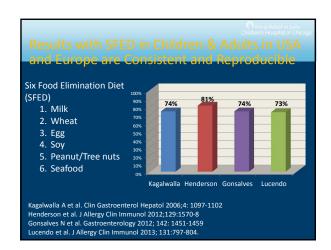
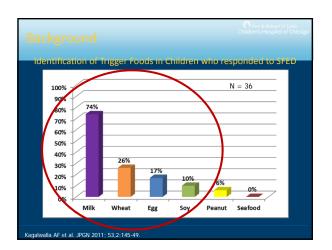
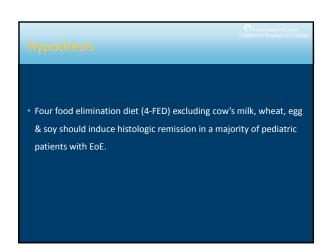
Empiric Four Food Elimination Diet Induces Remission in Pediatric Eosinophilic Esophagitis: Subsequent Reintroduction Identifies Food Triggers Amir F. Kagalwalla, Katie Amsden, Melanie M. Makhija, Joshua B. Wechsler, Anthony P. Olive, Sally Schwartz, Carla M. Davis, Kristin Johnson, Marion Groetch, Mary Ellen Riffle, Maria Manuel-Rubio, Hector Melin-Aldana, Barry K. Wershil, Margaret H. Collins, Mirna Chehade

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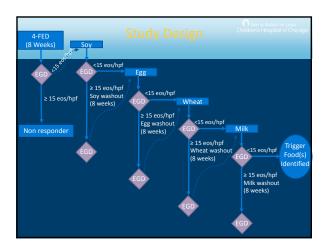


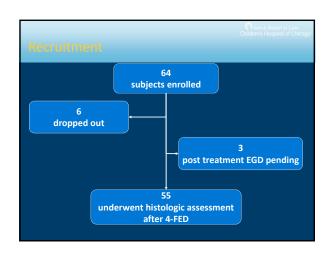




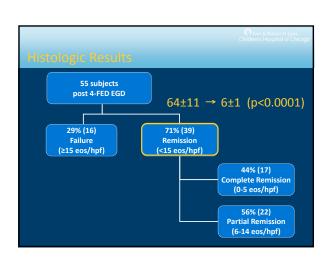
Treatment Endpoints Primary * Histologic remission: <15 eos/hpf Secondary * Symptom improvement * Endoscopic improvement * Identification of food triggers

Methods Inclusion criteria: Patients ages 1-18 years Symptoms of esophageal dysfunction Isolated esophageal eosinophilia, ≥15 eos/hpf after pre-treatment with PPI for 6-8 weeks Exclusion criteria: Patients on oral or swallowed steroids Patients with concurrent EG or EC Other causes of eosinophilia





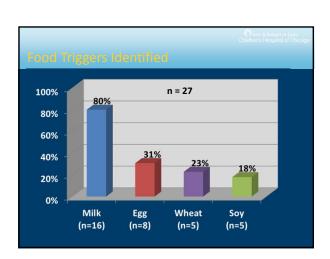
	Childre	Ann & Robert H. Luric en's Hospital of Ch
n = 55		
Mean age (range)	9.3 (1.8-18.4)	
Male, n (%)	41 (75)	
Ethnicity, n (%)		
White	43 (78)	
Hispanic	5 (9)	
Asian	3 (5)	
Black	2 (4)	
Other	2 (4)	
Atopy, n (%)	50 (91)	
Asthma	16 (30)	
Allergic Rhinitis	35 (65)	
Eczema	26 (47)	
Allergic Conjunctivitis	11 (20)	
Food Allergies (IgE-mediated)	19 (42)	

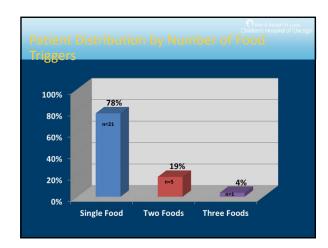


Symptoms in Re	sponder		Ann & Robert H. Lurie dren's Hospital of Chicago
Clinical Symptoms	Pre 4-FED (n)	Post 4-FED (n)	Resolution (%)
Abdominal pain	21	8	62
Slow eating	12	8	33
Dysphagia	11	4	64
Regurgitation / Spitting up	10	0	100
Vomiting	10	2	80
Food impaction	6	0	100
Feeding difficulties	6	1	83

- * 82% of responders had resolution of one or more of their presenting symptoms following 4-FED
- Symptoms completely resolved in 18 % of responders

(n=39)							
Endoscopic Features	Pre 4-FED n (%)	Post 4-FED N	Resolution (%)	P-value			
E dema	25 (71)	12	52	0.002*			
R ings	4 (11)	1	75	1.000			
E xudates	21 (60)	2	90	<0.001*			
F urrowing	29 (83)	15	48	0.001*			
S tricture	0 (0)	0	0	NA			





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Summary of 4-FED

- Histologic remission achieved in 71% of children with EoE
- Symptoms improved in **82%** of responders
- Endoscopic improvement in **83%** of responders
- Specific trigger foods identified

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Conclusions

- Histologic, endoscopic and clinical improvement was achieved in a majority of children treated with 4-FED.
- 4-FED is an effective dietary treatment option to treat children with EoE and compares favorably with SFED.

Collaborating Centers Ann & Robert H. Lurie Children's Hospital of Chicago, Chicago, IL A Kagalwalla, K Amsden, M Makhija, J Wechsler, S Schwartz, K Johnson, M Manuel-Rubio, H Melin-Aldana, B Wershil Mount Sinai Medical Center, New York, NY M Chehade, M Groetch, M Riffle Texas Children's Hospital, Houston, TX A Olive, C Davis Cincinnati Children's Hospital Medical Center, Cincinnati, OH M Collins

