

ECHO IDAHO

# Early Introduction of Allergenic Foods in Infants: Clinical Guidelines & Evidence

December 1, 2025

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# Disclosures

## INDUSTRY AFFILIATIONS

Grifols Pharmaceutical - speaker, consultant  
AstraZeneca – advisory board  
Regeneron – advisory board  
Sanofi – speaker, advisory board  
Dermavant – speaker, consultant

## CLINICAL RESEARCH

2017 – Sub-I, Genetech Zenyatta Severe Asthma Study  
2016 – Sub-I, Biota Human Rhinovirus Study  
2015 – Sub-I, Sanofi Traverse Severe Asthma Study  
2015 – Sub-I, Sanofi Liberty Severe Asthma Study  
2013 – Study Coordinator: MediVector Influenza Study

**Brian Bzik does not intend to discuss the use of any off-label use/unapproved use of drugs or devices.**

# Learning Objectives

- Let's set the stage for how we got here.
- Summarize current early allergen introduction guidelines and guidance
- Apply the guidelines effectively into practice
- Discuss barriers to adoption along with potential strategies to overcome barriers at both the clinician and patient/family level
- Identify resources and tools to support practice integration and to help parents or caregivers safely conduct early allergen introduction at home

# An Opening Story or Two

- A story about families in Israel, and what happened when they moved to Great Britain.
- 2001 – Dr. Gideon Lack, head of Allergy at King's College in London gives a talk to doctors in Tel Aviv, Israel. There were about 200 doctors in the audience. He asks for show of hands from people who had treated a child with peanut allergy in the past year. Only a few raised their hands. . . .
- Dr. Lack quickly realized that in England, nearly all the doctors would have raised their hand.
- Long conversations occurred after this talk, trying to see if this could be genetic or something else.

# An Opening Story or Two

- The reason could be. . . .



# An Opening Story or Two

- Dr. Lack wanted to study this but could not get funding.
- A peanut grower from Virginia named Dee Dee Dardin was on vacation in England and had done some work with the National Peanut Board. She was moved by a question asked of her at a town meeting – “how do you feel growing something that could kill a kid.”
- She went – without an appointment or even knowing if she could find Dr. Lack – and talked to him, offering to fund the study with peanut grower money from the US.
- Dr. Lack agreed to meet with her partially because she was wearing this t-shirt



# An Opening Story or Two

- With Peanut Board funding, the study was started. Analyzing medical records:
  - 5100 Jewish children in the UK
  - 5600 Jewish children in Israel
  - Analyzed via questionnaire

Difference: 10 X as many kids who avoided peanuts had allergy vs the group of kids who ate peanuts, despite similar genetics

George Du Toit, Yitzhak Katz et al Early consumption of peanuts in infancy is associated with a low prevalence of peanut allergy, Journal of Allergy and Clinical Immunology, Volume 122, Issue 5, 2008, Pages 984-991, ISSN 0091-6749, <https://doi.org/10.1016/j.jaci.2008.08.039>.



Journal of Allergy and Clinical Immunology  
Volume 122, Issue 5, November 2008, Pages 984-991



Food, drug, insect sting allergy, and anaphylaxis

Early consumption of peanuts in infancy is associated with a low prevalence of peanut allergy

George Du Toit FRCRCH <sup>a</sup>, Yitzhak Katz MD, PhD <sup>b</sup>, Peter Sasienski PhD <sup>c</sup>, David Mesher MSc <sup>c</sup>, Soheila J. Maleki PhD <sup>d</sup>, Helen R. Fisher BSc <sup>a</sup>, Adam T. Fox FRCRCH <sup>a</sup>, Victor Turcanu MD, PhD <sup>a</sup>, Tal Amir <sup>e</sup>, Galia Zadik-Mnuhin MD <sup>f</sup>, Adi Cohen MD <sup>f</sup>, Irit Livne MD <sup>g</sup>, Gideon Lack FRCRCH <sup>a</sup>



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<https://doi.org/10.1016/j.jaci.2008.08.039>

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## Background

Despite guidelines recommending avoidance of peanuts during infancy in the United Kingdom (UK), Australia, and, until recently, North America, peanut allergy (PA) continues to increase in these countries.

## Objective

We sought to determine the prevalence of PA among Israeli and UK Jewish children and evaluate the relationship of PA to infant and maternal peanut consumption.

# An Opening Story or Two

- Next step – randomized controlled trial

- LEAP Study 2015
- Approx 530\* infants who had no peanut allergy randomized to get peanut or not
- In the end, about 14% in the avoidance group had peanut allergy but in the exposure group it was 2%
- \*These were HIGH risk infants



The NEW ENGLAND  
JOURNAL of MEDICINE

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ORIGINAL ARTICLE

## Randomized Trial of Peanut Consumption in Infants at Risk for Peanut Allergy

 This article has been corrected. [VIEW THE CORRECTION](#)

**Authors:** George Du Toit, M.B., B.Ch., Graham Roberts, D.M., Peter H. Sayre, M.D., Ph.D., Henry T. Bahnon, M.P.H., Suzana Radulovic, M.D., Alexandra F. Santos, M.D., Helen A. Brough, M.B., B.S.,  +8, for the LEAP Study Team\* [Author Info & Affiliations](#)

Published February 26, 2015 | *N Engl J Med* 2015;372:803-813 | DOI: 10.1056/NEJMoa1414850 | [VOL. 372 NO. 9](#)

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### Abstract

#### BACKGROUND

The prevalence of peanut allergy among children in Western countries has doubled in the past 10 years, and peanut allergy is becoming apparent in Africa and Asia. We evaluated strategies of peanut consumption and avoidance to determine which strategy is most effective in preventing the development of peanut allergy in infants at high risk for the allergy.

#### METHODS

We randomly assigned 640 infants with severe eczema, egg allergy, or both to consume or avoid peanuts until 60 months of age. Participants, who were at least 4 months but younger than 11 months of age at randomization, were assigned to separate study cohorts on the basis

# An Opening Story or Two

- The second story
- Baby Jonah, born with eczema on face and hand/arms
- Topical creams help but not completely
- Parents avoid feeding all foods that are known to cause allergy.  
No peanuts/milk/eggs



# An Opening Story or Two

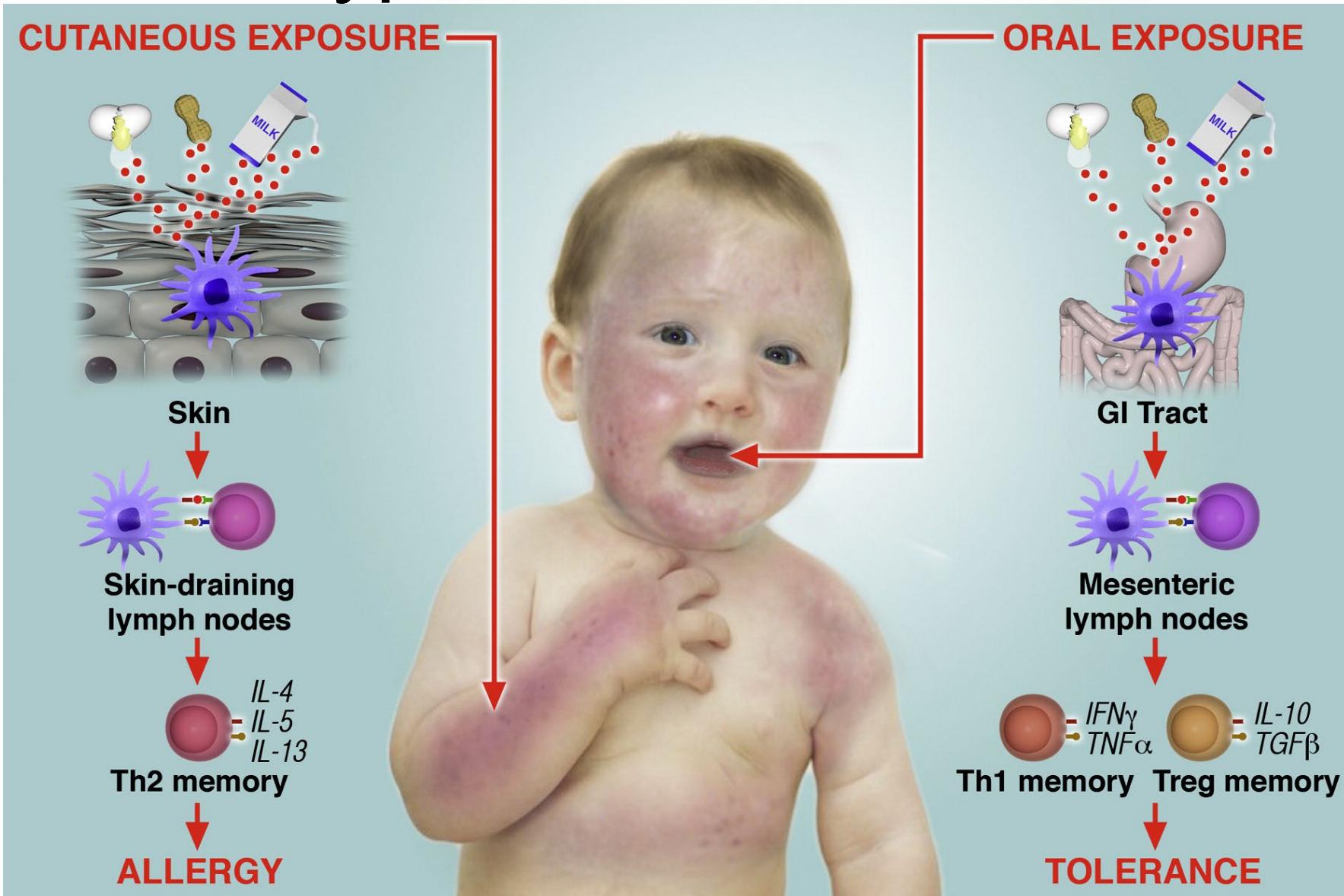
- The second story
- Jonah's grandmother comes over and makes peanut butter cookies.
- Careful to not let Jonah eat any.
- She loves to hold him while she bakes.
- With peanut protein on her hands she rubs against his leg



# An Opening Story or Two

- That peanut protein enters the body through the skin – picked up by dendritic cells that present the peanut protein to the immune system as foreign through the skin lymphatic system
- These cells present the protein to naïve T cells that become T2 cells that induce B-cells to make antibodies (IgE) to the protein that then coat basophils and mast cells with the end result being allergy to peanut.
- If that same protein was presented to the body via the gut, it is picked up by dendritic cells and drains to the gut lymphatic system. There, naïve T cells are turned into T-regulatory cells – this plus other changes actively suppress allergy.

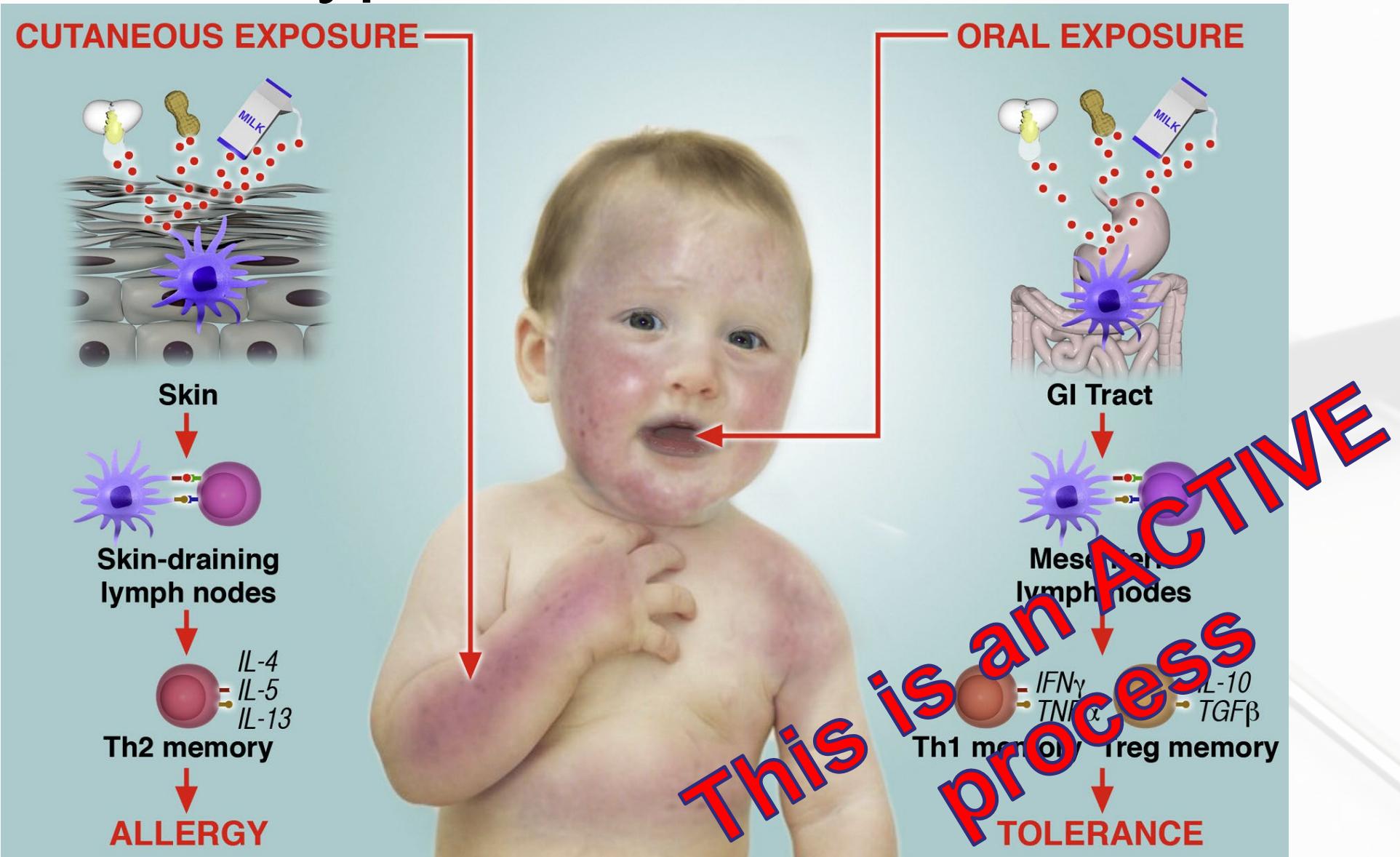
# Dual Exposure Hypothesis



Epidemiologic risks for food allergy. Lack, Gideon

Journal of Allergy and Clinical Immunology, Volume 121, Issue 6, 1331 - 1336

# Dual Exposure Hypothesis



# Atopic March

**Natural progression of allergic diseases often beginning in early life**  
**Once it starts it cannot be stopped**

Atopic  
Dermatitis

Food  
Allergy

Asthma

Allergic  
Rhinitis

Development of atopic diseases may initiate the sensitization process

Food allergy and asthma risk increases with presence and severity of atopic dermatitis

Early life food sensitization increases the risk of wheeze, asthma, allergic rhinitis

# Atopic March

Natural progression of allergic diseases often beginning in early life  
Once it starts it cannot be stopped

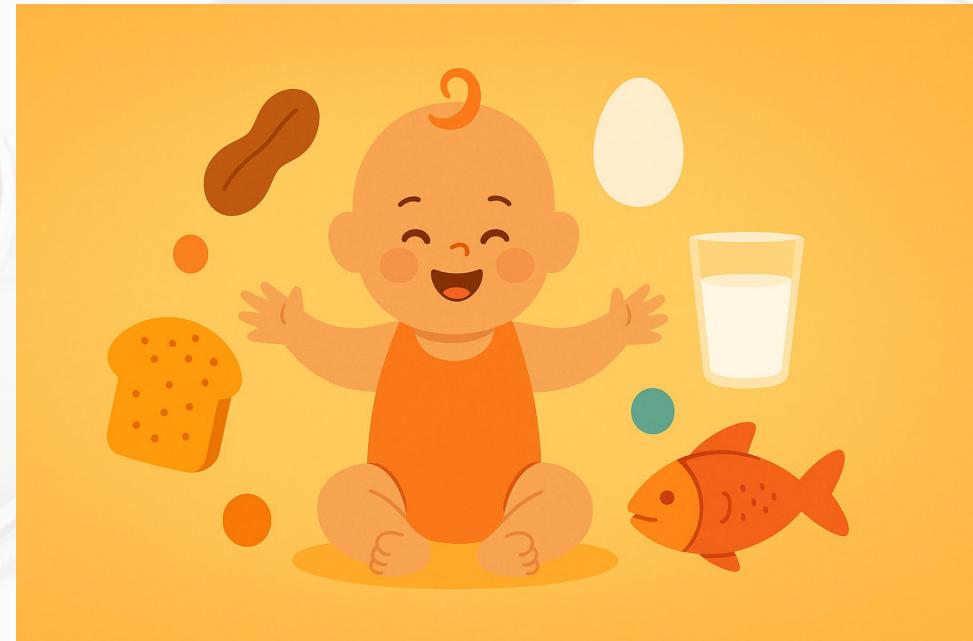


Development of atopic diseases may initiate the sensitization process

Food allergy and asthma risk increases with presence and severity of atopic dermatitis

Early life food sensitization increases the risk of wheeze, asthma, allergic rhinitis

- Quick review
- Exposure to food proteins can prevent food allergy.
- Through the skin, allergies begin
- Through the diet, allergies stay quiet



# Burden of Disease

When we prevent a food allergy – the effects can be for a lifetime

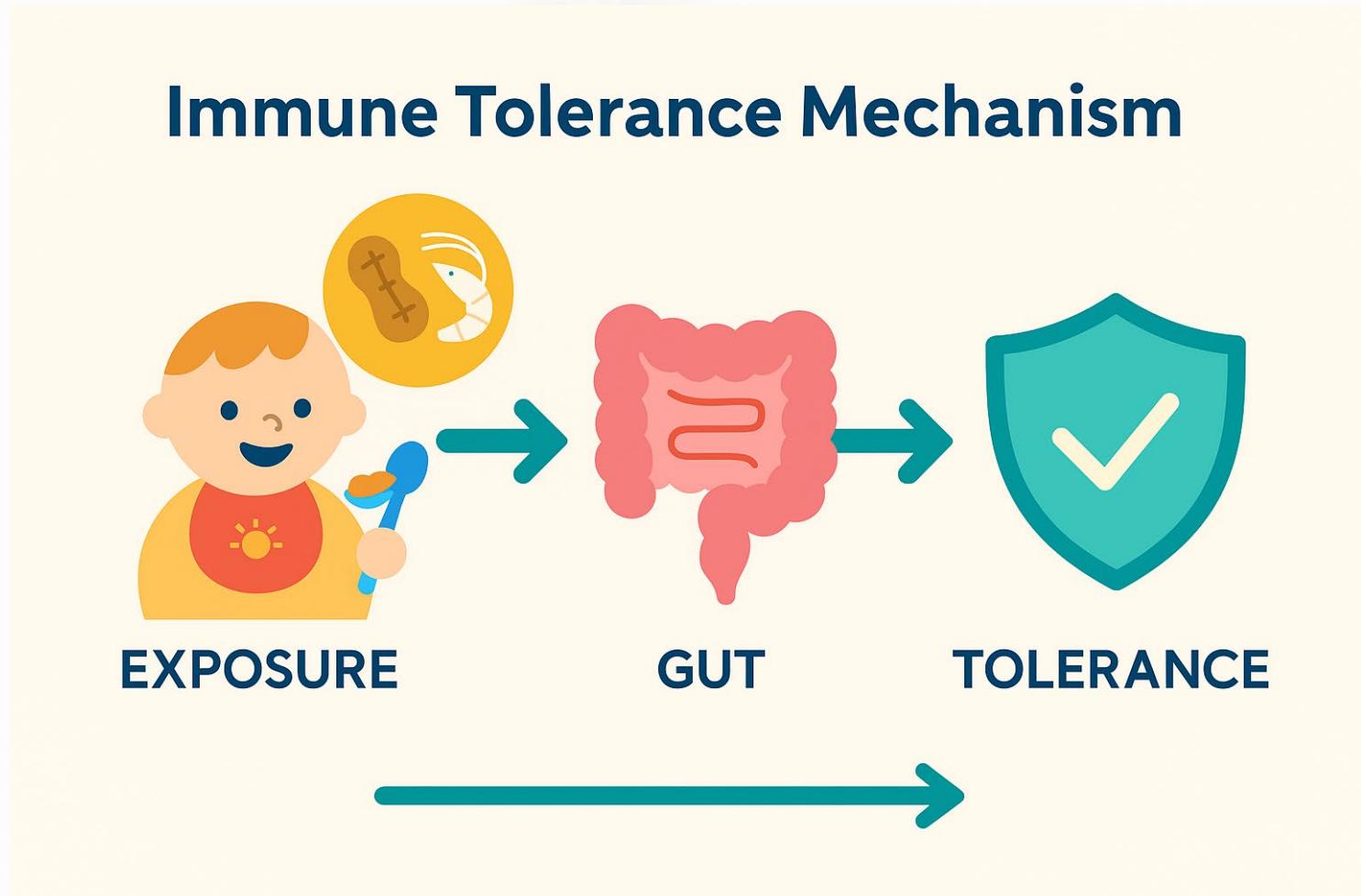


- Just imagine preventing one peanut allergy

- With peanut butter

- The burden of food allergy is very high

My second AI image 😊 Created by ChatGPT.



# Burden of Disease: Caregiver Point of View

- Caregivers have a constant feeling of being “on guard.”
- Studies have shown parents of kids with food allergy have higher levels of stress, anxiety, and depression compared to healthy counterparts.
- Mothers report higher levels of stress and anxiety and lower QoL compared to anyone else in the household.

QoL = quality of life.

Polloni L, Muraro A. *Clin Exp Allergy*. 2020;50(4):420-441; Feng, C., Kim, JH. *Clinic Rev Allerg Immunol*. 2019;57:74-82.

# Warning! Data heavy slides coming. . . .

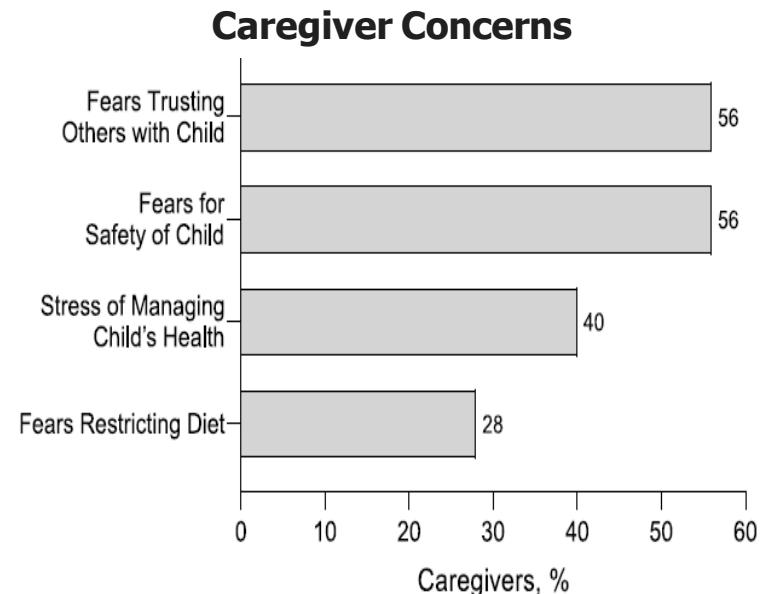
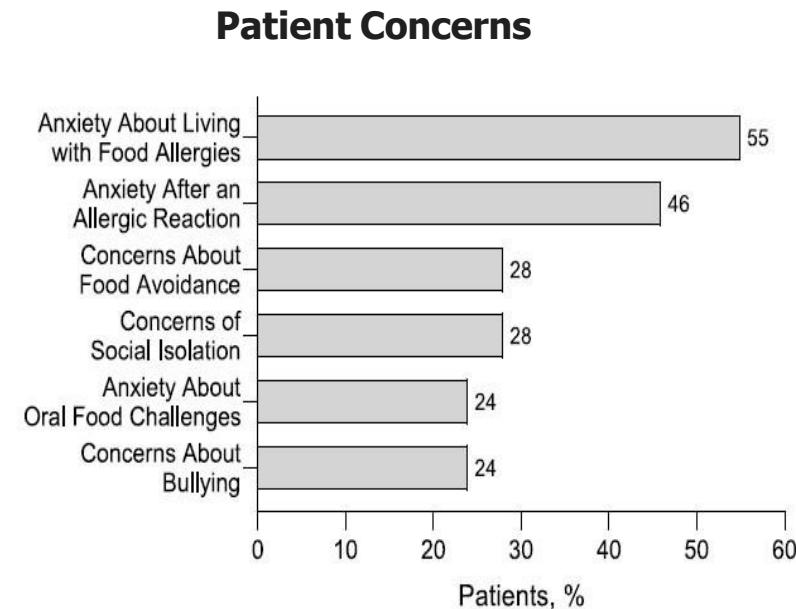
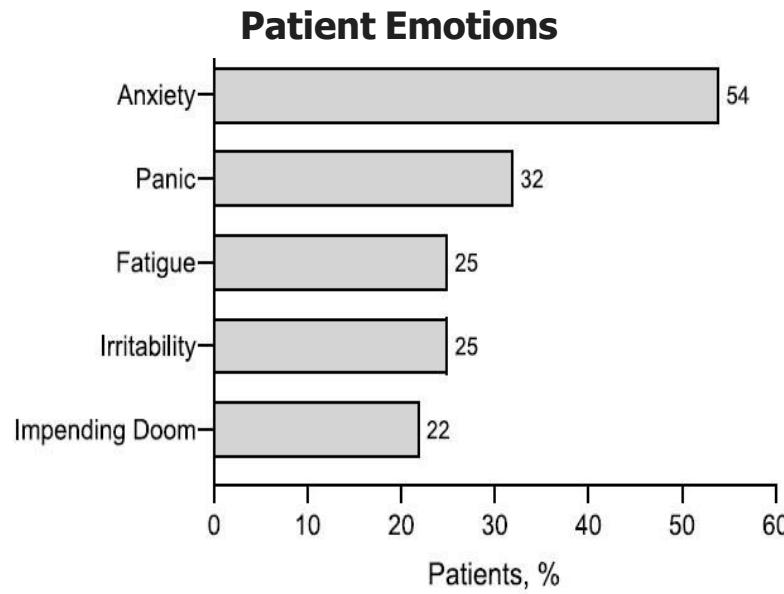
- You've been warned, put on your data screening sunglasses now

I wanted you to have this data to look at later ☺



# Burden of Food Allergy

## The mental health burden of food allergies: Insights from patients and their caregivers from the Food Allergy Research & Education (FARE) Patient Registry



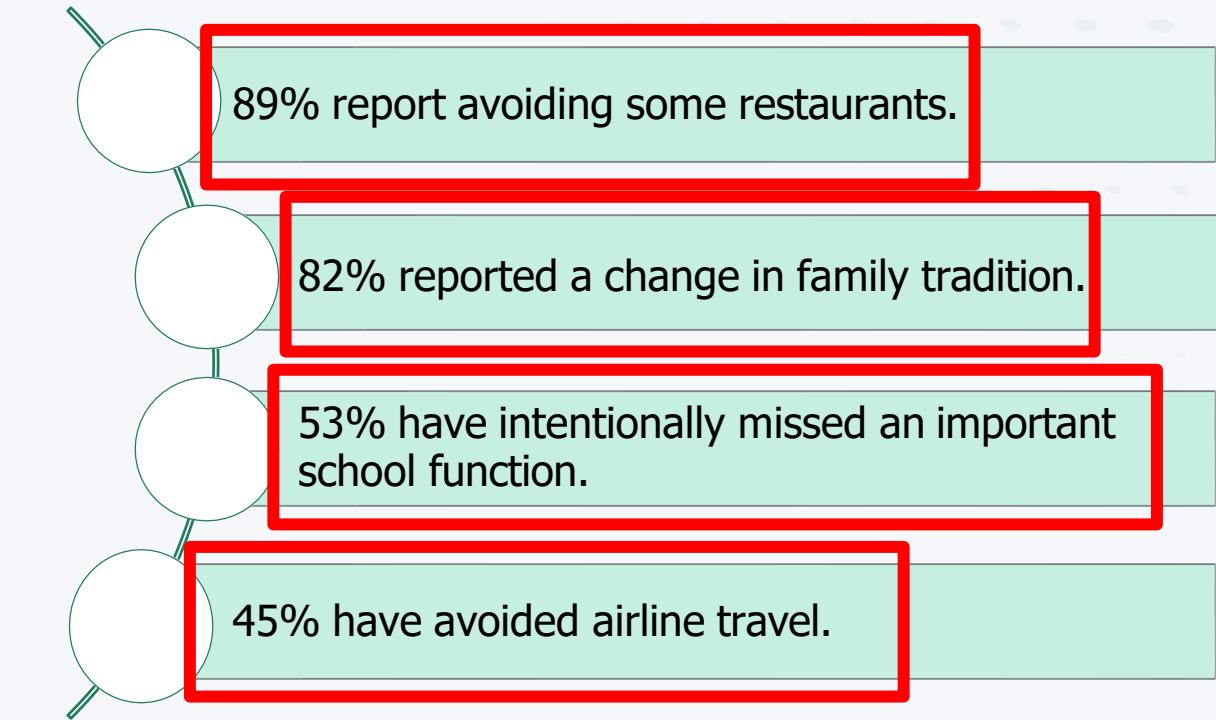
**Common emotions experienced by patients with food allergies**

**Food allergy-related mental health concerns of patients with food allergies and their caregivers**

**Caregiver response to the survey question, "What types of mental health concerns related to food allergy has the participant experienced?"**

# Burden of Disease: Caregiver Point of View

- Psychosocial burden
- Grocery shopping
- Eating out
- Attending school
- Vacations
- Playdates
- Job interviews
- Birthday parties
- Holidays
- Camp
- Sports



= Constant Vigilance

# THE FOOD ALLERGY EPIDEMIC



1 in 10  
adults



1 in 13  
children

Reactions can range from...

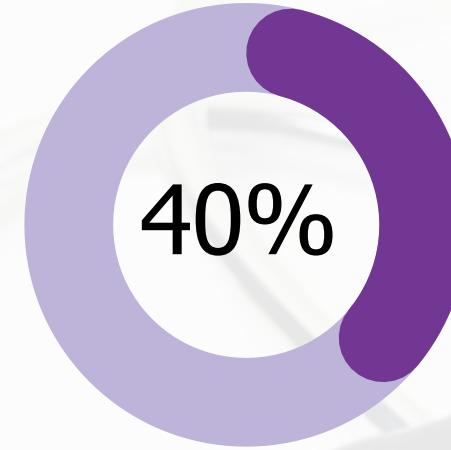
Mild

Life-threatening (anaphylaxis)

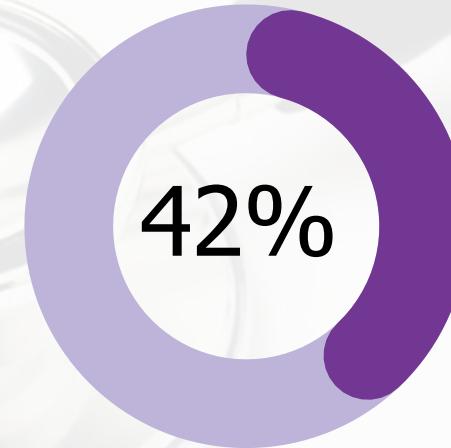
# Childhood Food Allergy Prevalence in the United States

**8%** of US Children have a food allergy

~ 2 kids per classroom

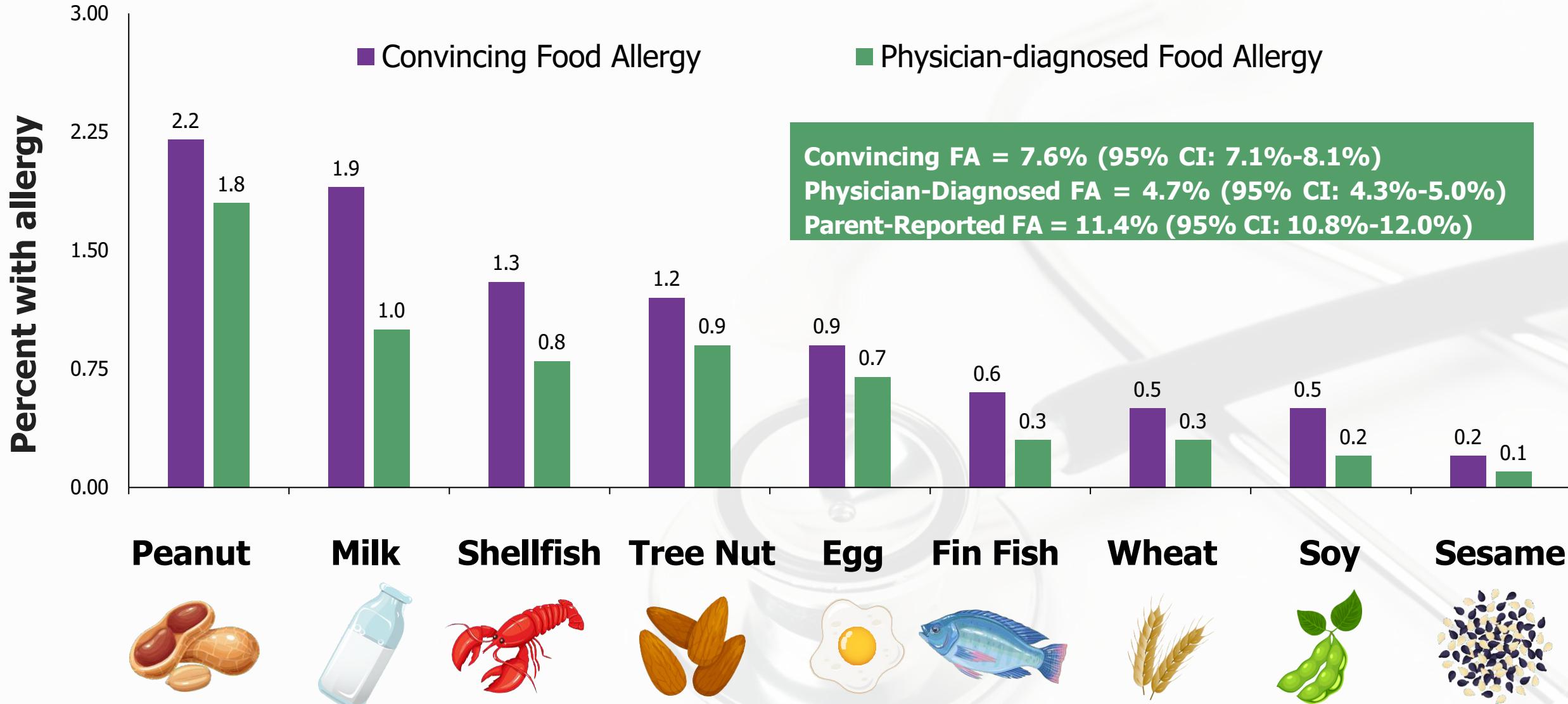


are allergic to multiple foods



have experienced a severe reaction

# Childhood Food Allergy Prevalence in the United States



FA = food allergy.

Gupta RS, et al. *Pediatrics*. 2018;142(6):e20181235.

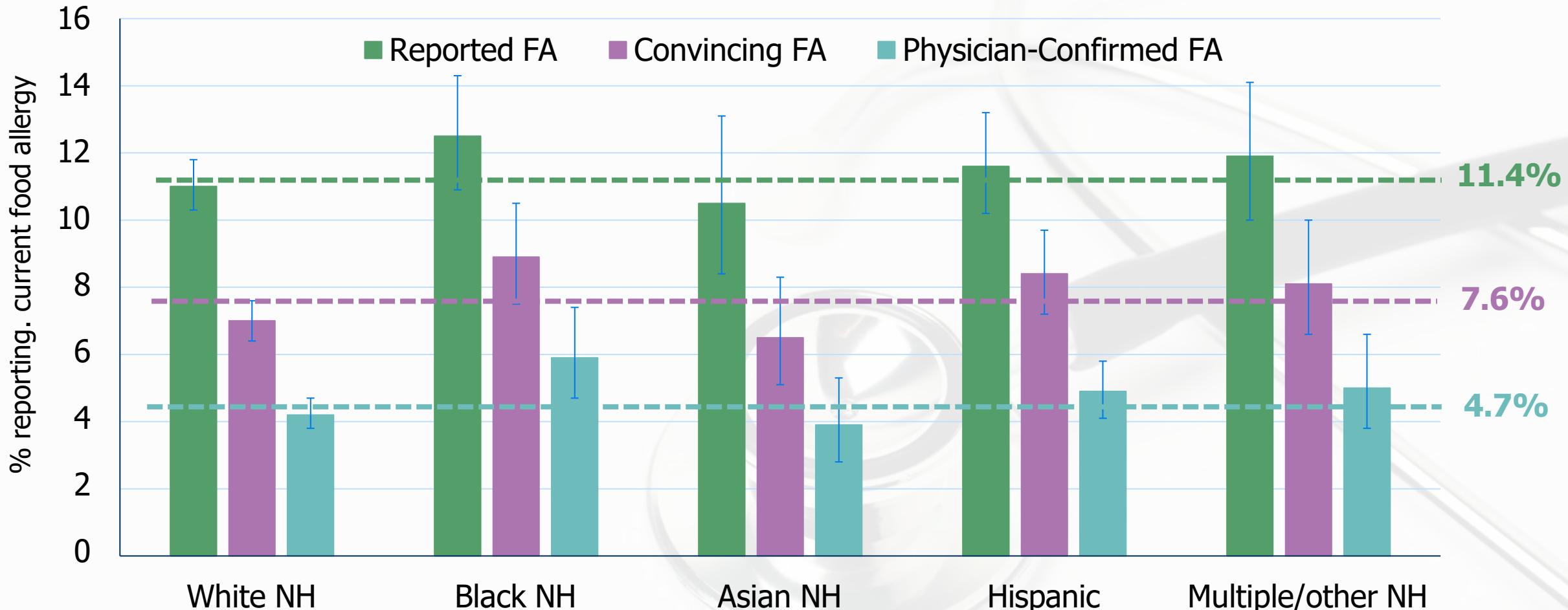
# Prevalence

									
	<b>Peanut</b>	<b>Tree Nut</b>	<b>Milk</b>	<b>Shellfish</b>	<b>Egg</b>	<b>Fin Fish</b>	<b>Wheat</b>	<b>Soy</b>	<b>Sesame</b>
<1 Year	20.2%	9.0%	53.0%	7.1%	13.5%	2.6%	14.9%	15.4%	4.6%
1 Y	24.6%	8.0%	37.8%	5.1%	22.8%	6.4%	6.0%	16.6%	4.9%
2 Y	24.5%	10.9%	43.5%	11.5%	14.1%	6.0%	9.9%	8.6%	2.3%
3-5 Y	25.1%	15.9%	33.6%	13.0%	15.0%	6.2%	6.6%	6.9%	2.7%
6-10 Y	32.8%	17.6%	24.4%	18.4%	10.8%	7.8%	6.4%	6.5%	3.3%
11-13 Y	30.5%	21.3%	14.9%	20.2%	12.8%	7.1%	6.2%	3.6%	1.8%
>14 Y	29.5%	13.3%	16.0%	21.3%	6.6%	7.9%	5.4%	3.0%	2.1%

Y = year(s).

Gupta RS, et al. *Pediatrics*. 2018;142(6):e20181235.

# Racial and Ethnic Differences in Current Food Allergy Prevalence Among US Children



NH = non-Hispanic.

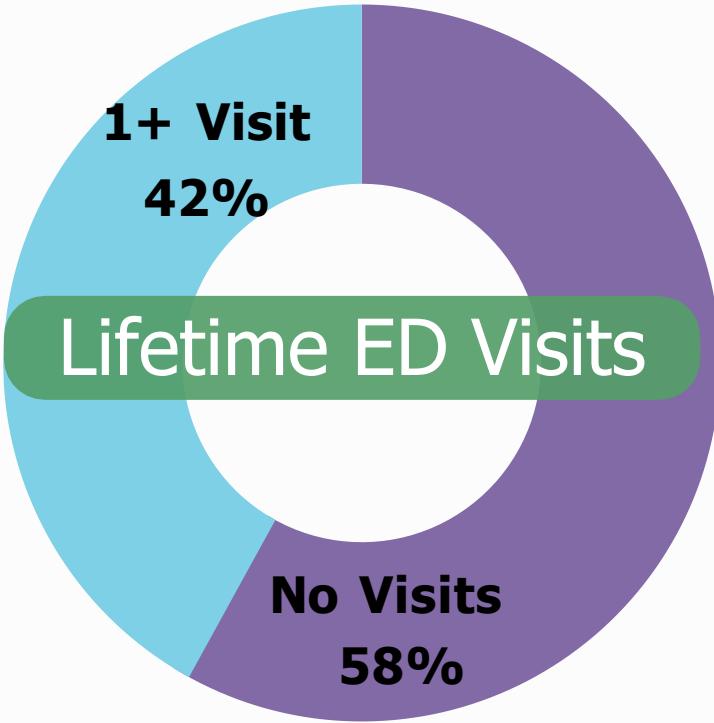
Gupta RS, et al. *Pediatrics*. 2018;142(6):e20181235.

# Patterns of Convincing Multi-Food Allergy Among US Children

	Peanut	Tree Nut	Sesame	Milk	Egg	Fin Fish	Shellfish	Soy	Wheat
Peanut	100	61	55	15	29	38	25	33	22
Tree Nut	33	100	44	9	18	24	14	24	18
Sesame	5	8	100	3	6	9	5	11	13
Milk	13	15	23	100	35	15	11	37	43
Egg	12	13	26	17	100	20	11	25	21
Fin Fish	9	11	23	4	12	100	24	14	12
Shellfish	15	15	31	7	16	57	100	20	21
Soy	7	10	26	9	13	12	7	100	26
Wheat	5	8	31	11	12	11	8	27	100

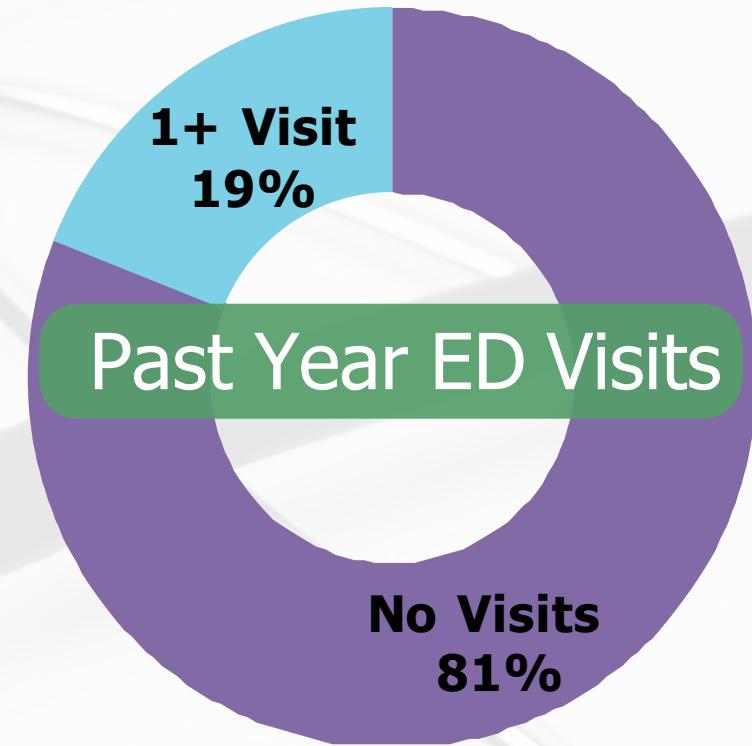
(% of children with convincing column allergy who are also allergic to the row allergen)

# Pediatric Food Allergy ED Visits



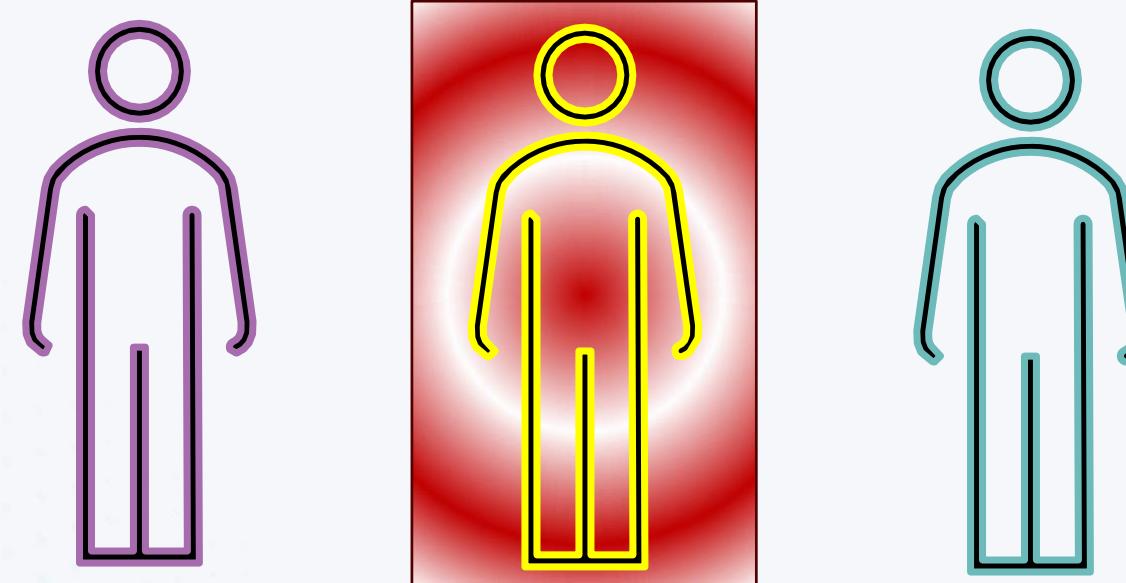
Among children with food allergy, approximately:

- **20%** reported at least 1 food reaction-related ED visit in the previous year
- **42%** have at least 1 lifetime ED visit



# How Common is Bullying in Food-Allergic Kids?

1 in 3



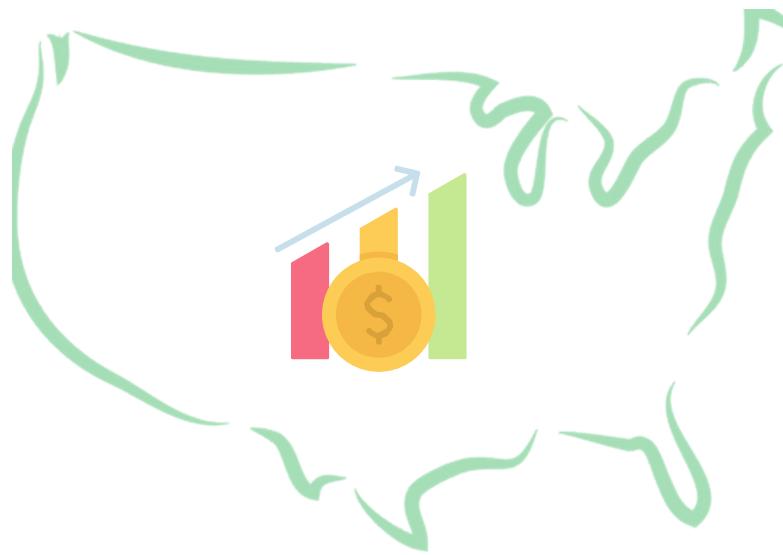
# Pediatric Atopic Comorbidities

Rates of physician-diagnosed atopic conditions were **significantly higher among children with convincing FA** compared with other children

Physician Diagnosed Comorbid Conditions	All Children	Children with FA	P-Value
<b>Asthma</b>	12.2 (11.4–13.0)	<b>32.6 (29.5–35.9)</b>	<.001
<b>Atopic Dermatitis</b>	5.9 (5.3–6.5)	<b>14.9 (12.5–17.7)</b>	<.001
<b>EoE</b>	0.2 (0.10-0.2)	<b>0.7 (0.4–1.1)</b>	<.001
<b>Allergic rhinitis</b>	12.8 (12.0–13.6)	<b>30.4 (27.6–33.4)</b>	<.001
<b>Other chronic condition</b>	4.2 (3.7–4.7)	<b>10.1 (8.2–12.3)</b>	<.001

# Economic Impact of Food Allergy

## Overall Economic Cost



**\$ 24.8  
Billion**

## Direct Medical Costs



**\$ 4.3  
Billion**

## Family Cost



**\$ 20.5  
Billion**

*\$4,184 per year/per child*

- Quick review
- The burden of food allergy is **HUGE**
- Cost, loss of normalcy, stress, entire extended family effected
- Intervention early can prevent this and maybe prevent the atopic march

# Food Allergy

- An **immune system reaction** that occurs soon after eating a certain food; "IgE-Mediated"
- Reactions can range from mild to severe and potentially life-threatening

## Food Intolerance:

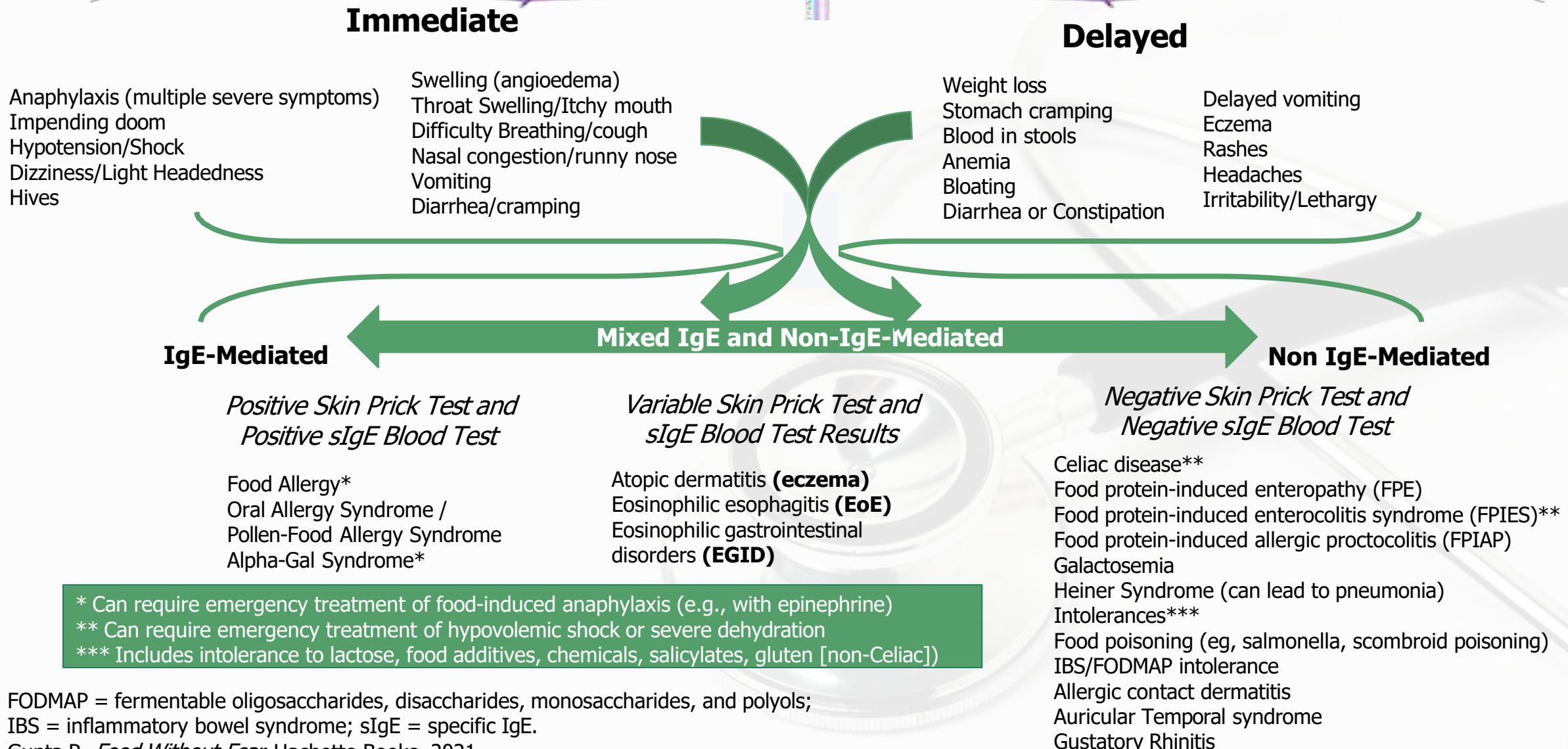
- A **non-immunologic** response to a particular type of food (e.g., lactose intolerance, gluten sensitivity)



IgE = immunoglobulin E.

Renz H, Allen KJ, Sicherer SH, Sampson HA, Lack G, Beyer K, Oettgen HC. Food allergy. Nat Rev Dis Primers. 2018 Jan 4;4:17098. doi: 10.1038/nrdp.2017.98. PMID: 29300005.

# Spectrum of Adverse Food Reactions (Reference)



# Anaphylaxis

## **Anaphylaxis:**

- A severe, potentially life-threatening allergic reaction that typically occurs within seconds or minutes of exposure to an allergen
- The reaction typically includes more than one body system and can lead to a drop in blood pressure, narrowing airways, and blocking of normal breathing

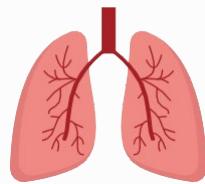
## **Signs and Symptoms of Anaphylaxis:**

- Rapid heartbeat, weak pulse, skin rash, nausea, vomiting, etc.



## MOUTH & THROAT

Itching, swelling of lips and/or tongue, tightness/closure, coughing



## LUNG

Shortness of breath, coughing, wheezing



## SKIN

Itching, hives, redness, swelling



## BRAIN

Headaches, disorientation, dizziness, anxiety, feeling of impending doom



## HEART

Dizziness, drop in blood pressure, fainting



## STOMACH

Vomiting, nausea, stomach pain



# Symptoms of an Allergic Reaction

# ANAPHYLAXIS: Definition

- An acute allergic reaction resulting in widespread allergic symptoms which involves two or more organ systems after a likely or confirmed exposure.
- However, known exposure not required to start treatment or diagnose.



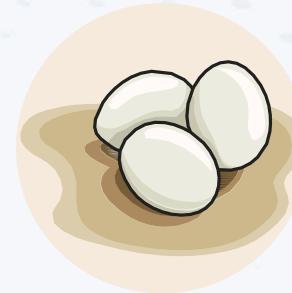
Peanut



Tree Nuts



Milk



Eggs



Wheat



Soy



Fish



Shellfish  
(crustacean – Crab,  
lobster, etc.)



Sesame

# Clinician/Teacher/WIC Role

Prevention may be the key to arresting the development of food allergy

- Caregivers of all types play a critical role in implementing the guidelines
  - Trusted provider who is connected to families from the beginning
  - Able to educate early and often about the introduction of foods, specifically allergenic foods
  - Provide support during the introduction process



# Allergen Avoidance

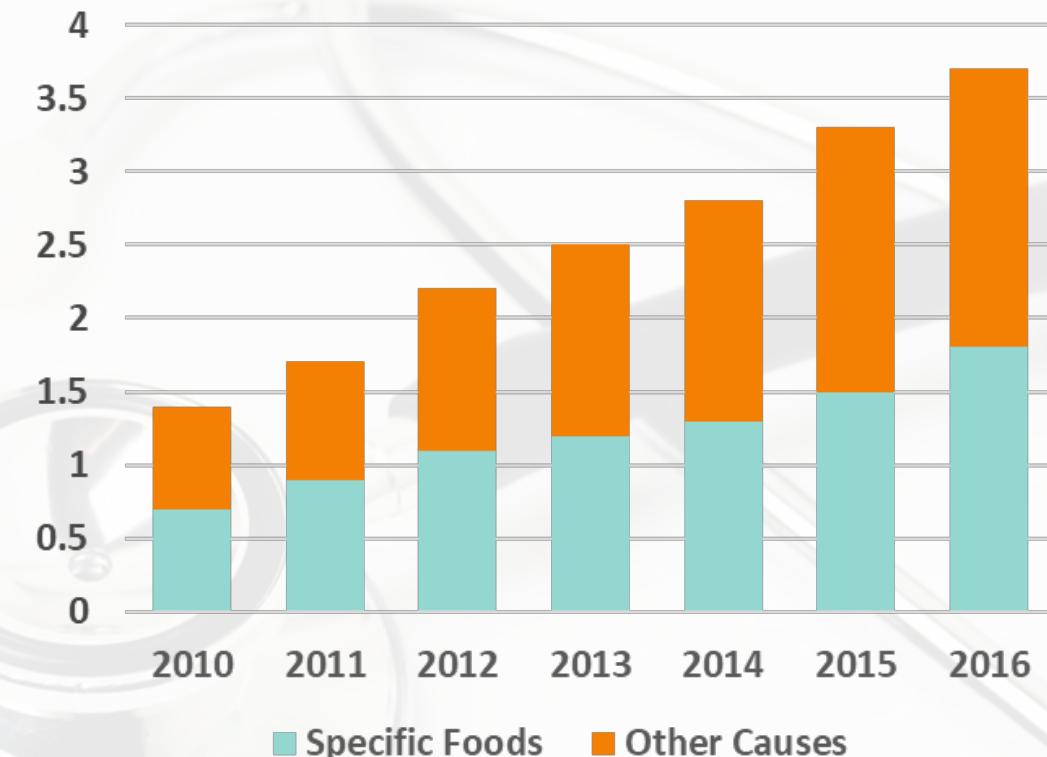
**Increased rates of allergy in the last two decades**

The Centers for Disease Control & Prevention reports that the prevalence of food allergy in children increased by 50 percent between 1997 and 2011.

**The following have been proven to not reduce the risk of developing food allergy:**

- **Avoidance of allergens in the infant's diet**
- **Restricting maternal diets prior to birth**
- **Restricting maternal diets during breastfeeding**
- **Hydrolyzed infant formulas**

**150% increased ER visits due to anaphylaxis**



**Rate of ER visits due to anaphylaxis in children by year, per 10,000 children**

# Timeline of Research and Guidelines

AAP noticed food allergies were increasing among US children and adolescents

AAP & UK decide evidence did not support delay of introduction past 4-6 months

AAAAI recommends introducing allergenic foods once other complementary foods introduced

Enquiring About Tolerance (EAT) study  
**67% reduction** of peanut, egg and milk allergy

PreventADALL Preventing Atopic Dermatitis and Allergies in Children

**AAAAI, ACAAI, CSACI Consensus Guidance**

Feed ALL babies common allergens at 4-6 mo. with other solids and screening high-risk infants is not needed

1990s

2000

2008

2010

2013

2015

2016

2017

2017

2019 - 2020

2020

AAP & UK recommend avoidance of allergens in young infant's diet

Guidelines for the Diagnosis and Management of Food Allergy in the US report

Learning Early About Peanut Allergy (LEAP) study  
**81% reduction** of peanut allergy

**NIAID Addendum Guidelines for the Prevention of Peanut Allergy**

**AAP and USDGA** recommend early introduction of peanut and not delaying starting other foods past 4-6 months

NEJM data published May 28, 2024, shows that children enrolled in the LEAP study that consumed peanut early in life continued to show peanut tolerance through 12 years of age!

Du Toit G, Immune Tolerance Network LEAP-Trio Trial Team. Follow-up to Adolescence after Early Peanut Introduction for Allergy Prevention. NEJM Evid. 2024 Jun;3(6):EVIDoa2300311. doi: 10.1056/EVIDoa2300311. Epub 2024 May 28. PMID: 38804779.

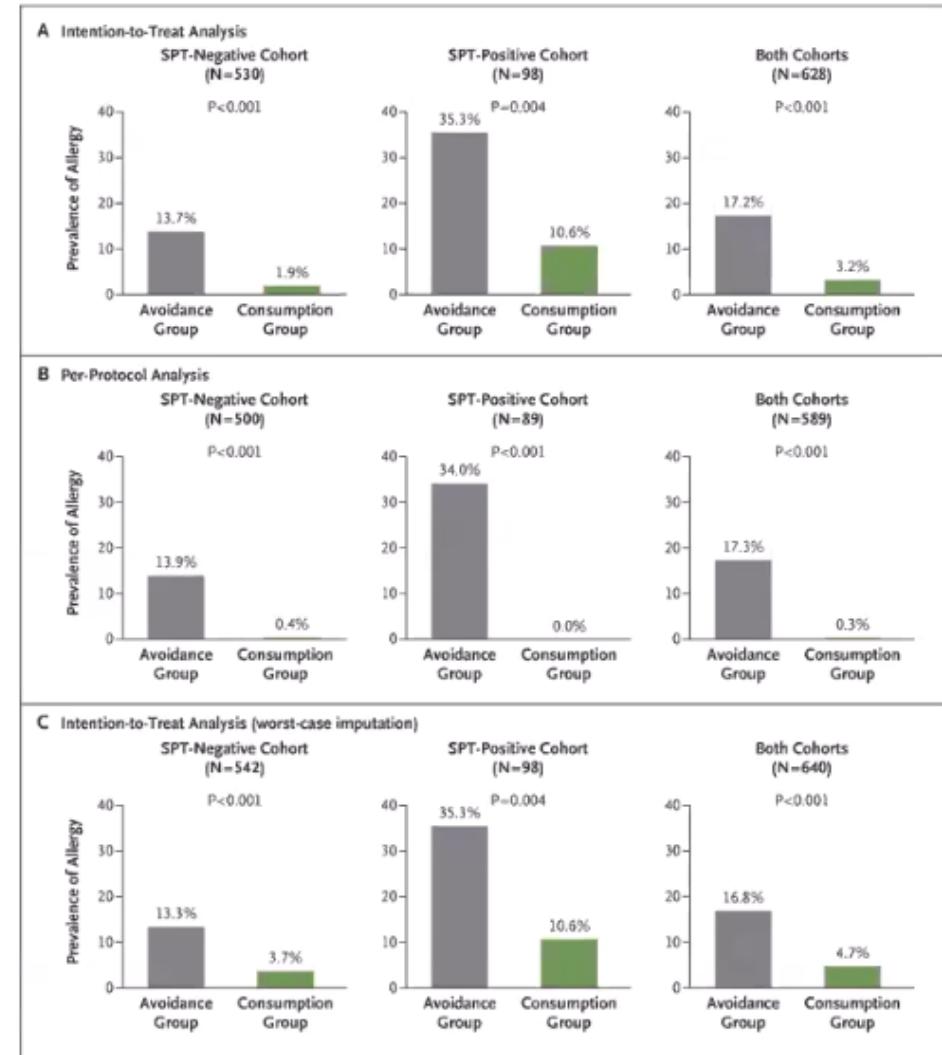
# Warning! Again, some data/studies. . . .

**I will move quickly through them but then  
summarize it ALL in one slide at the end**

**If you are a data-lover-like-me you can go back  
and dig into this later**

# 2015: LEAP (Learning Early About Peanut Allergy) Study

- ~640 high-risk infants (severe eczema, egg allergy, or both), aged 4-11 months of age
  - 530 skin test negative
  - 98 skin test positive
- Randomized to either peanut consumption or avoidance
  - Consumption: 6 g peanut protein/week
  - Avoidance: active peanut avoidance
- Both groups underwent peanut challenge at 5 years of age
  - Consumption: 3.2% allergic
    - Sensitized: 10.6% allergic
    - Non-sensitized: 1.9% allergic
  - Avoidance: 17.2% allergic
    - Sensitized: 35.3% allergic
    - Non-sensitized: 13.7% allergic

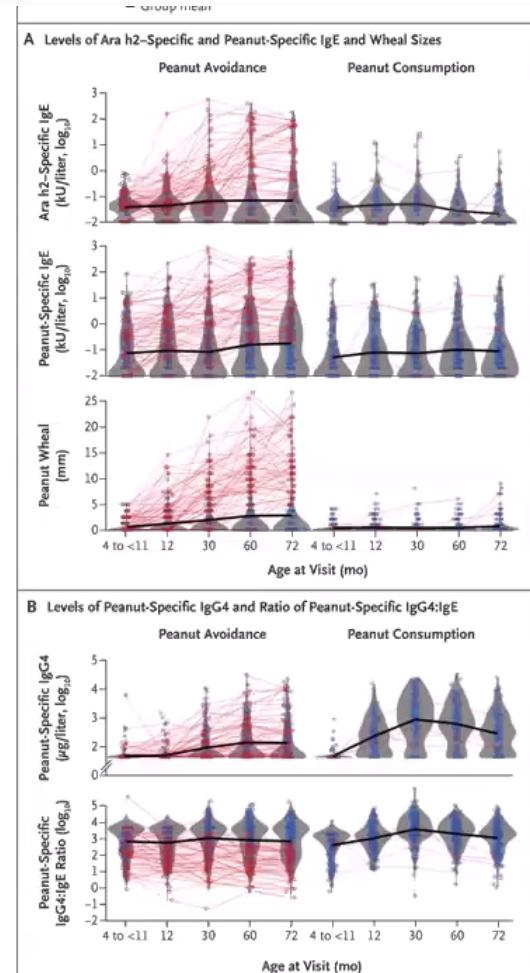
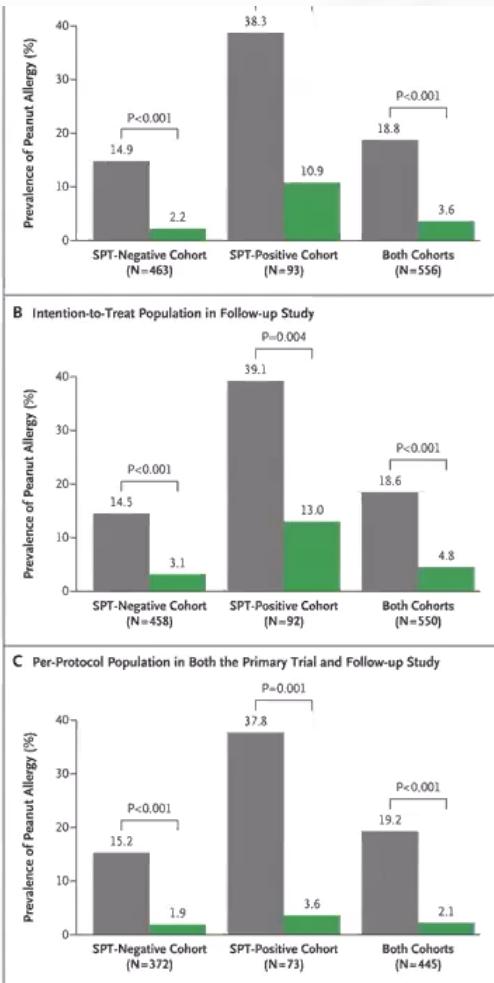


Du Toit G, Roberts G, Sayre PH, et al. Randomized trial of peanut consumption in infants at risk for peanut allergy [published correction appears in *N Engl J Med.* 2016 Jul 28;375(4):398]. *N Engl J Med.* 2015;372(9):803-813.  
doi:10.1056/NEJMoa1414850

# 2016: LEAP-On (Persistence of Oral Tolerance to Peanut) Study

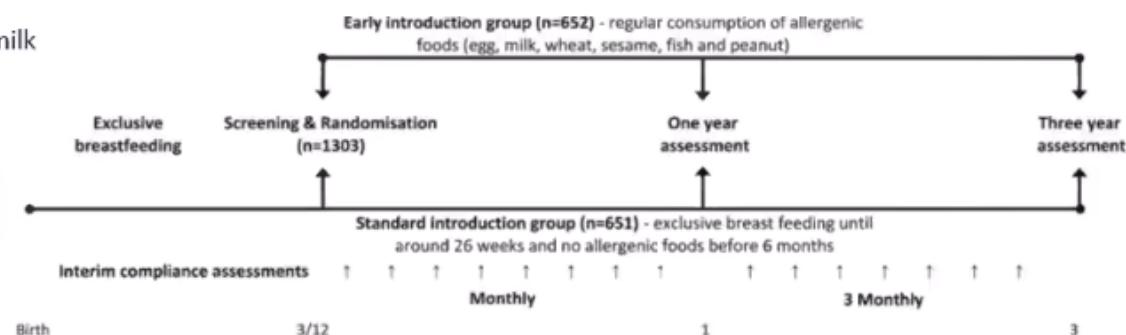
- 556 high-risk infants from LEAP trial
  - 282 from peanut avoidance group
  - 274 from peanut consumption group
- All avoided peanut for 12 months (from 60-72 months)
  - Consumption: 69.3% adherence to avoidance
  - Avoidance: 90.4% adherence to avoidance
- Both groups (n=550) - peanut challenge at 72 months
  - Consumption: 4.8% allergic (13/270)
    - 3 new cases of peanut allergy
    - Lower peanut- and Ara h2-specific IgE
    - Higher peanut IgG4:IgE ratio
  - Avoidance: 18.6% allergic (52/280)
    - 3 new cases of peanut allergy
    - Higher peanut- and Ara h2-specific IgE
    - Lower peanut IgG4:IgE ratio

Du Toit G, Sayre PH, Roberts G, et al. Effect of Avoidance on Peanut Allergy after Early Peanut Consumption. *N Engl J Med.* 2016;374(15):1435-1443. doi:10.1056/NEJMoa1514209



# 2016: EAT (Enquiring About Tolerance) Study

- 1,303 exclusively breastfed infants
  - Mix of standard risk and high risk
- Between 13-17 weeks, randomized to early vs. standard introduction of 6 common food allergens (egg, milk, wheat, sesame, fish, peanut)
  - Early: Skin tested to foods x 2
    - SPT negative: Sequential introduction of 6 foods beginning at 3 months, alongside breastmilk
    - SPT positive: oral food challenge
      - OFC positive: Avoid and pursue EI for other foods, alongside BM
      - OFC negative: Sequential introduction of 6 foods, alongside breastmilk
  - Standard: EBM until 6 months, then per parental discretion
- Difficulty maintaining stringent regimen of EI
  - No significant impact on breastfeeding rates
  - Intention to Treat Analysis: insignificant difference in allergy rates
  - Per Protocol Analysis:
    - Peanut Allergy: 2.5% in SIG vs. 0% in EIG
    - Egg Allergy: 5.5% in SIG vs. 1.4% in EIG

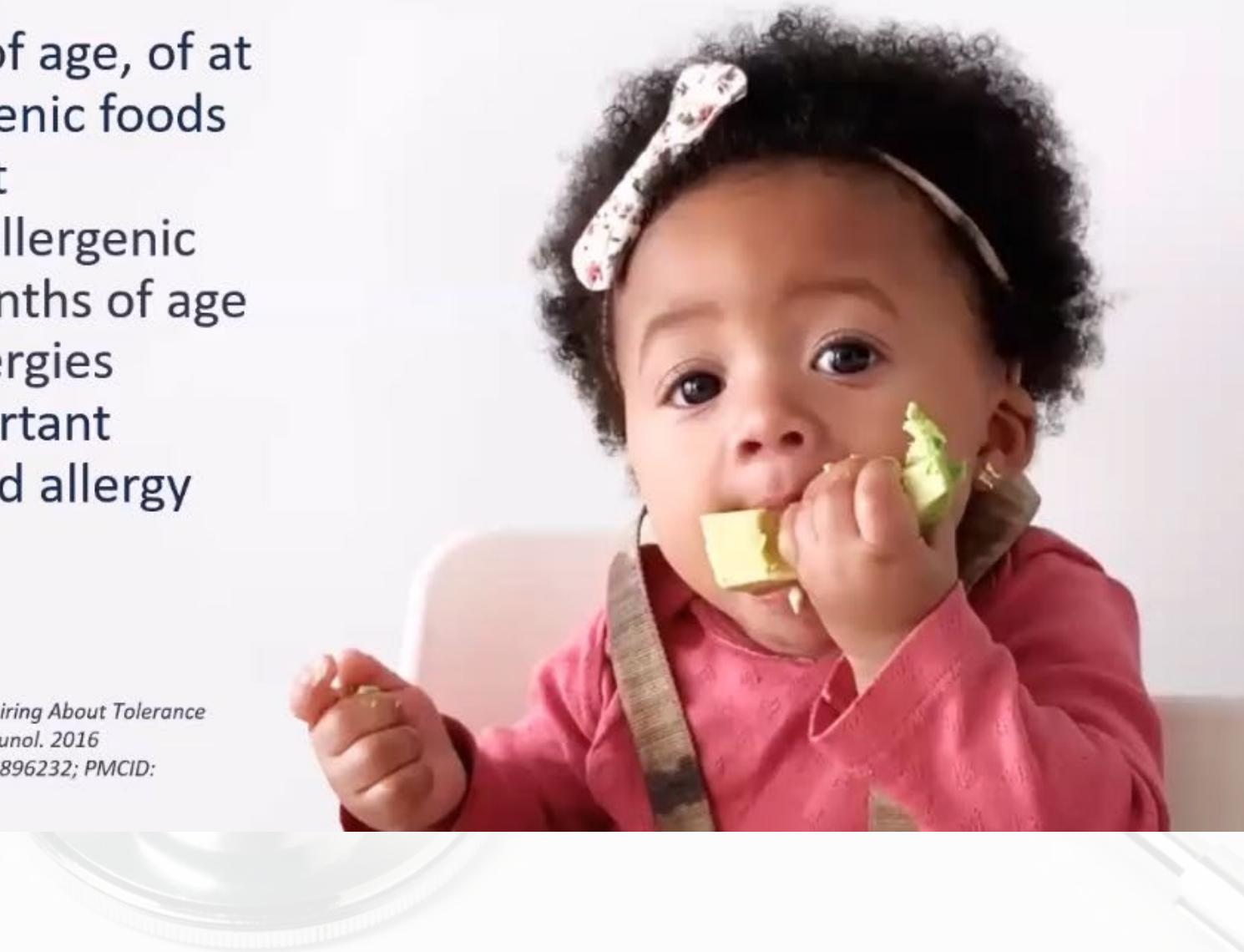


Perkin MR, Logan K, Marrs T, Radulovic S, Craven J, Flohr C, Lack G; EAT Study Team. Enquiring About Tolerance (EAT) study: Feasibility of an early allergenic food introduction regimen. *J Allergy Clin Immunol*. 2016 May;137(5):1477-1486.e8. doi: 10.1016/j.jaci.2015.12.1322. Epub 2016 Feb 17. PMID: 26896232; PMCID: PMC4852987.



# 2016: EAT (Enquiring About Tolerance) Study

Early introduction, before 6 months of age, of at least some amount of multiple allergenic foods appears achievable and did not affect breastfeeding. Early introduction of allergenic food in sufficient quantity from 3 months of age may be able to help prevent food allergies developing in children. This has important implications for the evaluation of food allergy prevention strategies.



Perkin MR, Logan K, Marrs T, Radulovic S, Craven J, Flohr C, Lack G; EAT Study Team. Enquiring About Tolerance (EAT) study: Feasibility of an early allergenic food introduction regimen. *J Allergy Clin Immunol*. 2016 May;137(5):1477-1486.e8. doi: 10.1016/j.jaci.2015.12.1322. Epub 2016 Feb 17. PMID: 26896232; PMCID: PMC4852987.

# 2016: EAT (Enquiring About Tolerance) Study

## Did it work well for all the kiddos in the trial?

Study outcome: No, and Yes (for egg & peanut - if introduced with sufficient quantity and frequency)

- 1.5 teaspoons peanut butter (~7.5-8 peanuts)/week
- 1 small boiled egg/week

Real-world impact: Early allergen introduction can be recommended without negatively impacting breastfeeding, but families will require support to introduce food allergens in ways that actually decrease risk of developing future allergy.



# And then, just last month the first data on impact!

Volume 156, Issue 5

November 2025



ARTICLES | OCTOBER 20 2025

## Guidelines for Early Food Introduction and Patterns of Food Allergy **FREE**

Stanislaw J. Gabryszewski, MD, PhD; Jesse Dudley, MS; Jennifer A. Faerber, PhD; Robert W. Grundmeier, MD; Alexander G. Fiks, MD, MSCE; Jonathan M. Spergel, MD, PhD; David A. Hill, MD, PhD

Address correspondence to: David A. Hill, MD, PhD, Division of Allergy and Immunology, Children's Hospital of Philadelphia, Abramson Research Building, 1208B, 3615 Civic Center Blvd, Philadelphia, PA 19104. [hilld3@chop.edu](mailto:hilld3@chop.edu)

*Pediatrics* (2025) 156 (5): e2024070516.

<https://doi.org/10.1542/peds.2024-070516> Article history

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Managing Acute and Chronic Pain and Substance Use Disorders in Pediatrics Update



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PediaLink® AAP EDUCATION - WHERE KNOWLEDGE THRIVES

# And then, just last month the first data on impact!

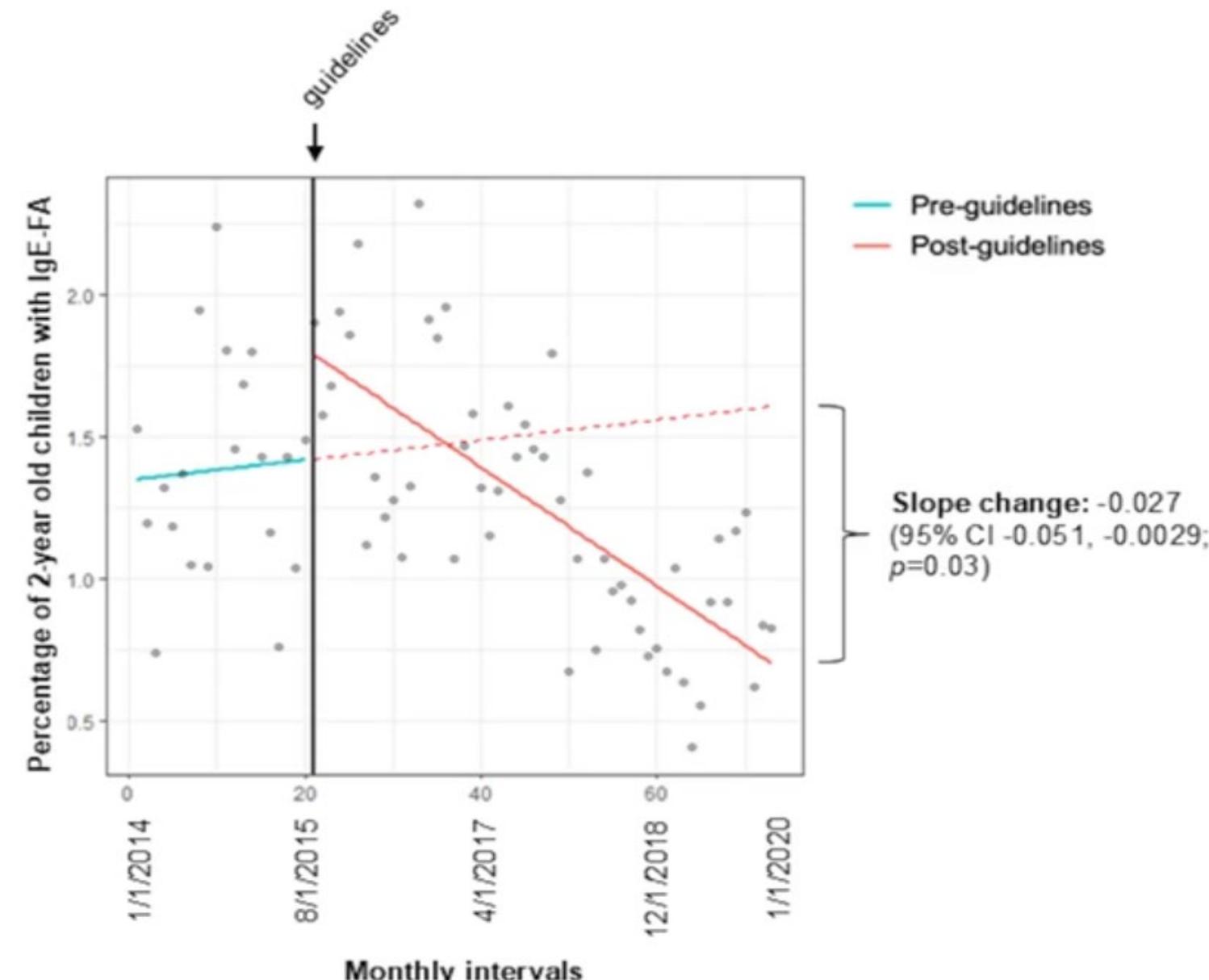
Cohort	Peanut IgE-FA	$\geq 1$ IgE-FA	$\geq 2$ IgE-FA
2012-2015 <b>Pre-guidelines</b>	0.79%	1.46%	0.56%
2015-2018 <b>Post-guidelines</b>	0.53% **** <i>Percent change</i>	1.02% **** <i>Percent change</i> -32.9%	0.41% ** <i>Percent change</i> -30.1% -26.8%
2017-2020 <b>Post-addendum guidelines</b>	0.45% **** <i>Percent change</i> -43.0%	0.93% **** <i>Percent change</i> -36.3%	0.40% *** <i>Percent change</i> -28.6%

\*\*  $p<0.01$ , \*\*\*  $p<0.001$ , \*\*\*\*  $p<0.0001$

*Not shown:* Comparison of pre-guidelines vs. post-guidelines cohorts with a minimum 2-year observation requirement.

- ↓ cumulative incidence of peanut IgE-FA and  $\geq 1$  IgE-FA(s) in the post-guidelines period in all children, *regardless* of preceding atopic dermatitis and/or egg IgE-FA

# Rate of Food Allergy Before and After Guidelines



HEALTH • 4 MIN READ

# Advice to feed babies peanuts early and often helped 60,000 kids avoid allergies, study finds

UPDATED OCT 20, 2025

Associated Press



Thousands of kids avoided developing peanut allergies after guidance recommended introducing the allergen to infants starting as early as 4 months, a new study found. (Sandra Milena Valero Orjuela/iStockphoto/Getty Images)

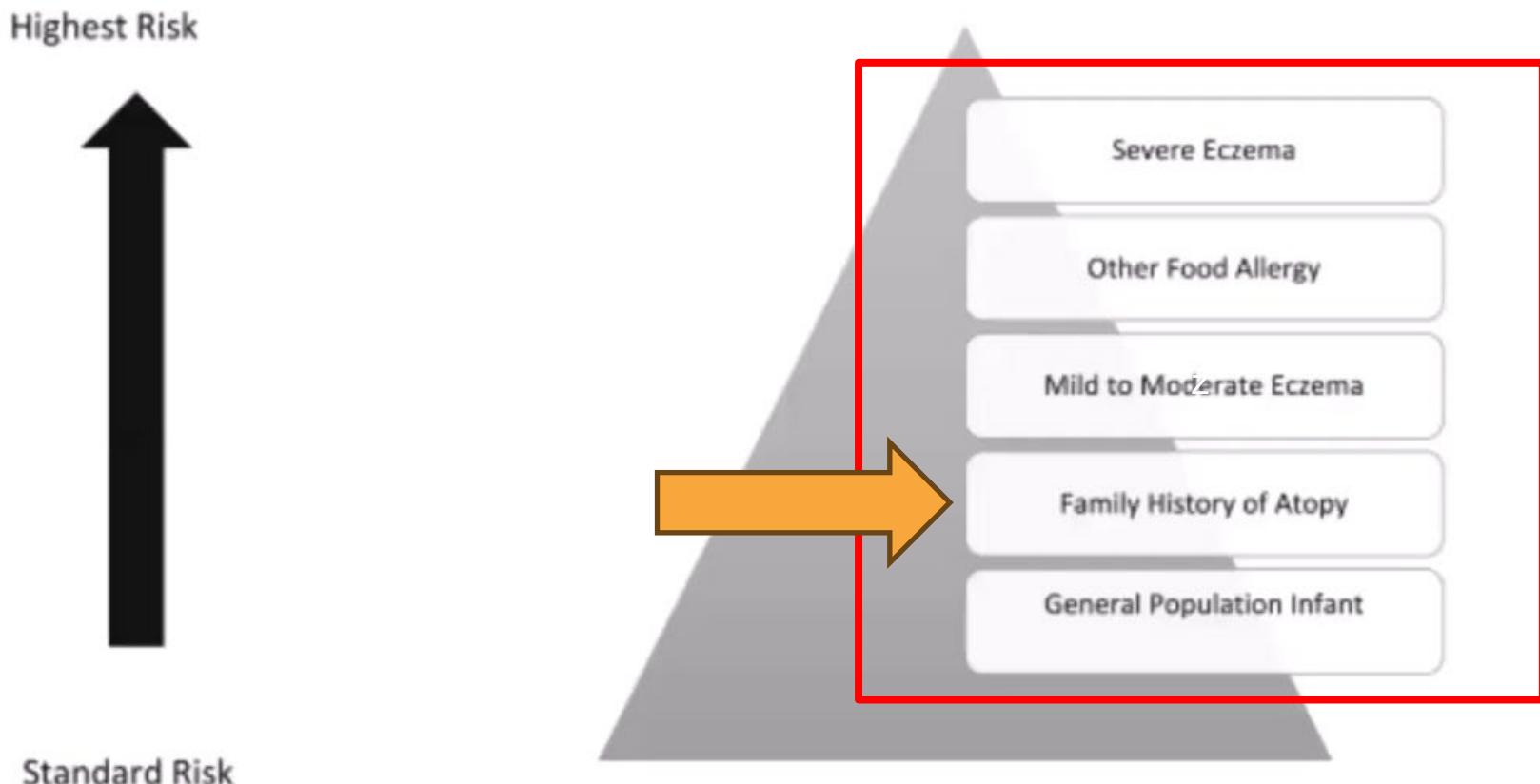


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Ad Feedback

# Risk Stratification for the Development of Food Allergy

## Risk Stratification for the Development of Food Allergy



Fleischer DM, Chan ES, Venter C, et al. A Consensus Approach to the Primary Prevention of Food Allergy Through Nutrition: Guidance from the American Academy of Allergy, Asthma, and Immunology; and the Canadian Society for Allergy and Clinical Immunology. *J Allergy Clin Immunol Pract.* 2021;9(1):22-43.e4. doi:10.1016/j.jaip.2020.11.002



## • Review

- Adding in peanut reduced allergy risk by approx. 90%
- Once tolerance was introduced it persisted even if eating the peanut stopped
- Introducing peanut and egg to breast fed infants prevented peanut and egg allergy and did not affect breast feeding
- The amount needed and frequency of feeding: 3 x per week and 1.5 teaspoons of peanut butter and 1 small egg per week.
- The risk to infants is severe
  - eczema>other food allergy>moderate eczema>family/sibling with allergy  
(family hx increases risk of allergy overall but not peanut or any one specific food allergy)
- Waiting till after 6 months or after 8 months to introduce peanut greatly increases risk in kids with eczema. (about 20% greater increase in risk for every month after 6 months)

# Addendum Guidelines for Peanut Allergy Prevention (NIAID)

Three recommendations based on infant risk level:

Hauk L. Peanut Allergy Prevention: Guidelines from the NIAID. Am Fam Physician. 2017 Jul 15;96(2):130. PMID: 28762705.

## No Eczema or Food Allergy

- Introduce peanut products and a variety of foods (including other allergens)
- When developmentally ready (4-6 months)
- Following cultural and family preferences, but do not delay



## Mild to Moderate Eczema

- Introduce peanut products
- When developmentally ready (6 months)

## Severe Eczema and/or egg allergy

- Strongly consider IgE blood test to peanut and/or skin test
- If negative <0.35 kU/L- introduce peanut at 4-6 months at home or in primary care office - do not delay!
- If positive >0.35 kU/L - refer to allergist for evaluation ASAP - do not delay early introduction

If reaction occurs recommendation is to avoid the food and confirm with an allergist

# American Academy of Pediatrics 2019

**Recommend early introduction of peanut and not delaying any food including allergens after 4-6 months**



Sicherer, S. H., Burks, A. W. (2019). The effects of early nutritional interventions on the development of atopic disease in infants and children: The role of maternal diet restriction, breastfeeding, hydrolyzed formulas, and timing of introduction of allergenic complementary foods. *Pediatrics*, 143(4), 1-11. <https://pediatrics.aappublications.org/content/pediatrics/early/2019/03/15/peds.2019-0281.full.pdf>

# Dietary Guidelines for Americans 2020-2025

Make every bite count, infants eat small amounts



Recommend exclusive breastfeeding for first 6 months  
Provide vitamin D supplementation, as needed

Continue breastfeeding through 1 year and beyond if desired  
Substitute iron-fortified formula if breastmilk not feasible



Add complementary foods including allergens at 6 months and developmentally ready

# **AAAAI, ACAAI, and CSACI Consensus Guidelines (2020)**

- Infants with Eczema at highest risk for IgE-mediated food allergy
- Prevent peanut and egg allergy by introduction between 4-6 months of age
- Screening of infant for potential food allergy is not required, but may occur if family prefers
- Introduce all allergens when solid foods introduced so infant consumes a diverse diet
- Hydrolyzed formula provides no protection from development of food allergy
- Do not recommend mothers restrict diet during pregnancy to prevent food allergy in their infant
- Breastfeeding recommended for all mothers if possible but no correlation between breastfeeding and prevention of food allergy

# Clinician Workflow for Early Peanut Introduction

(Follows NIH 2017 Addendum Guidelines)

Visit [FoodAllergyPrevention.org](https://FoodAllergyPrevention.org) for free resources to help with practice integration and patient education.

## 4 & 6 Month Visits

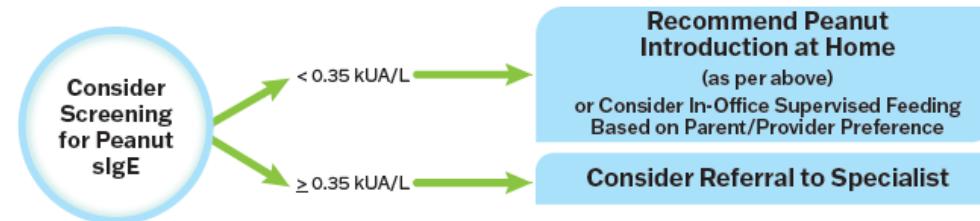
For more than 95% of infants you should:

### Recommend Introduction of Safe Peanut-Containing Foods at Home

As early as 4 to 6 months old when ready for solids and in accordance with family preferences and cultural practices. 2g\* protein per feeding, 3 times per week.

\*NOTE: 2g peanut protein ≈ 2 tsp of thinned creamy peanut butter

**HOWEVER, If Infant Has Severe Eczema and/or Egg Allergy (<5% of infants):**



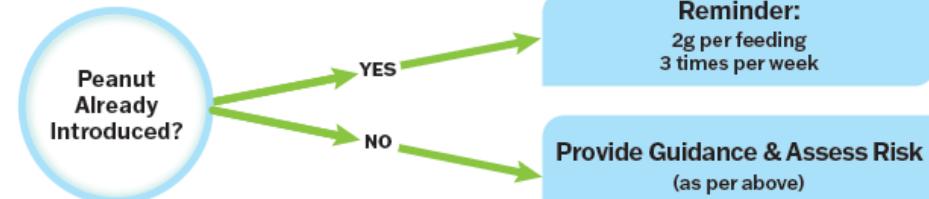
**IMPORTANT CONSIDERATION:** Consensus guidance published in 2020 by three professional associations in North America (AAAAI, ACAAI, CSACI) recommend that screening before peanut introduction is not required, but may be preferred by some families. Fleischer DM, Chan ES, et al. J Allergy Clin Immunol Pract. 2021 Jan; 9(1):22-43.e4. Epub 2020 Nov 26.

### Severe Eczema Examples



**DEFINITION:** Disease is widespread in extent and persistent or frequently recurring. Morphology and distribution reassessed as severe by a health care provider. Requires frequent need for prescription-strength topical corticosteroids, calcineurin inhibitors, or other anti-inflammatory agents despite appropriate use of emollients.

## 6, 9, & 12 Month Visits



**ACKNOWLEDGMENTS:** Workflow adapted from Addendum Guidelines for the Prevention of Peanut Allergy in the United States: Report of the National Institute of Allergy and Infectious Diseases-Sponsored Expert Panel. The following organizations have provided financial support for the FARE-led Food Allergy Prevention Initiative and related educational and awareness activities: National Peanut Board; Gerber; Nestlé Health Science.



Food  
Allergy  
Prevention.org  
Reduce the Risk



FARE  
Food Allergy Research & Education

FARE Workflow Worksheet – based on:

Hauk L. Peanut Allergy Prevention: Guidelines from the NIAID. Am Fam Physician. 2017 Jul 15;96(2):130. PMID: 28762705.

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22102

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(Follows NIH 2017 Addendum Guidelines)

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## 4 & 6 Month Visits

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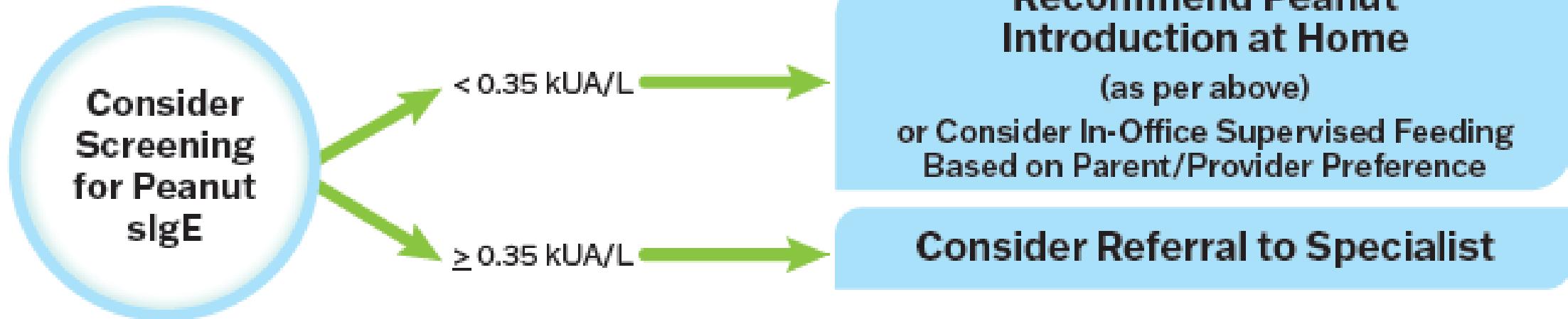
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[www.FoodAllergyPrevention.org](http://www.FoodAllergyPrevention.org)

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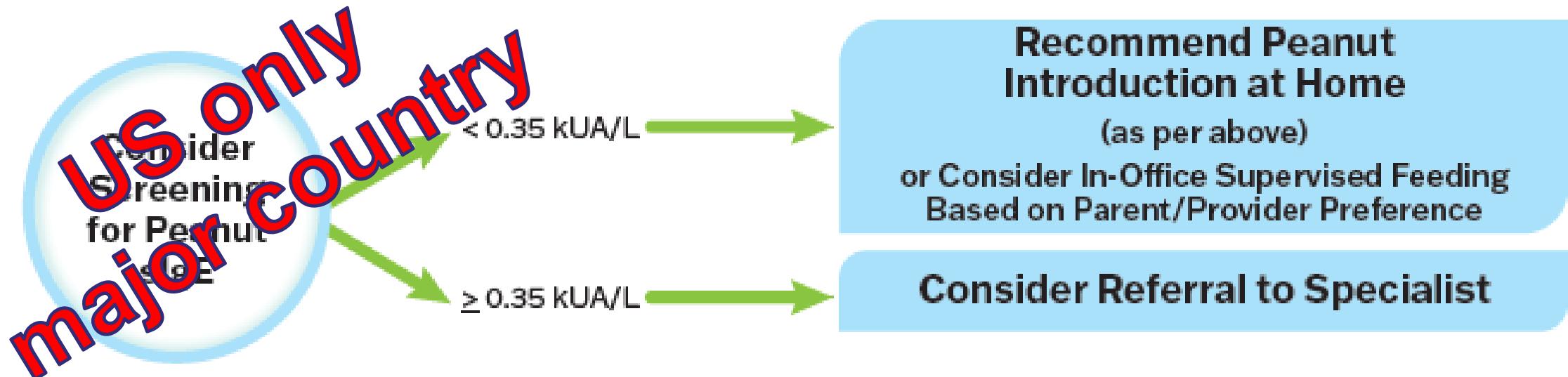
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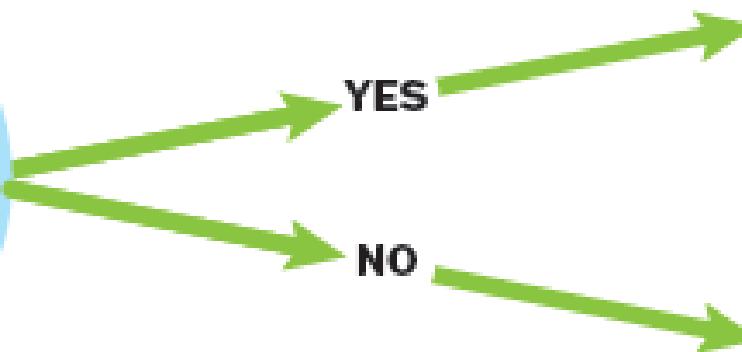
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## 6, 9, & 12 Month Visits



**Reminder:**  
2g per feeding  
3 times per week

**Provide Guidance & Assess Risk**  
(as per above)

**ACKNOWLEDGMENTS:** Workflow adapted from Addendum Guidelines for the Prevention of Peanut Allergy in the United States: Report of the National Institute of Allergy and Infectious Diseases-Sponsored Expert Panel. The following organizations have provided financial support for the FARE-led Food Allergy Prevention Initiative and related educational and awareness activities: National Peanut Board; Gerber; Nestlé Health Science.



# Parent Barriers



## Afraid of an allergic reaction

- 69% would not consider introducing peanut before/around 6 month of age
- ~40% willing to introduce peanut, tree nuts, seafood, but only after 11 months of age

## Parent/guardians or siblings have a food allergy at home

## Practical concerns

- Convenience, cost, and food preparation issues



## Concerns regarding testing

- 51% unwilling to do skin prick test before 11 months
- 56.8% unwilling to do a food challenge before 11 months



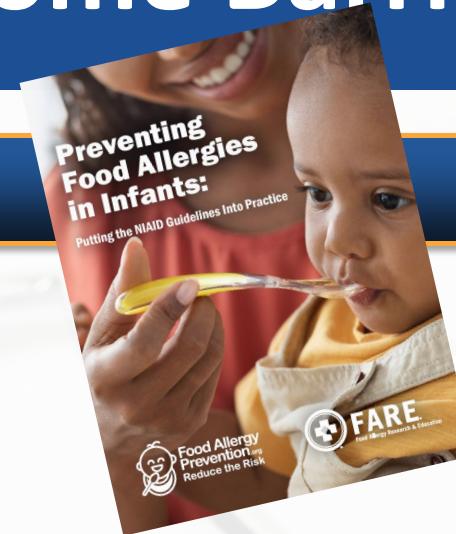
# Practical Tips to Overcome Barriers

## Provider Facilitators

- Increase education/training on the guidelines
- Using practice aids in the office for providers
  - Guide to clinical assessment and recommendations
  - Guide to an in-office supervised feeding
- Collaborate with ancillary support providers
  - Nutrition, psychology, allergist
- Create an environment where introducing allergens early is part of the normal practice

## Working with Families

- Start the conversation early
- Improve access to providers
- Identify affordable sources of potential allergens
- Provide resources to help with the introduction process
- Review anaphylaxis risk and develop a plan for parents in case of a reaction



[foodallergyprevention.org](http://foodallergyprevention.org)



[preventpeanutallergies.org](http://preventpeanutallergies.org)



# Shared Decision Making



Collaborative discussions between providers and patients/families to develop a plan that is both evidence based and inline with personal values

Goal is to empower families with confidence when feeding

Normalize initial reluctance and mixed messages parents receive

Be open, honest and listen to the parents needs and concerns

Provide education on current guidelines and work with families to fit guidelines into their life

Discuss when referral to allergist, nutritionist, or psychologist is needed

# Develop Treatment Plan with Family



**Symptoms occur within minutes to 2 hours after exposure**

- Mild symptoms (skin, no effect on breathing) = **Stop the food and contact clinician**
- Severe symptoms = **Stop the food and seek immediate medical attention/call 911**

**Medication parents can have on hand:**

**Epinephrine on hand if the infant has other confirmed food allergies or if sibling/parent has food allergies.**

**Neffy is the new spray epinephrine**

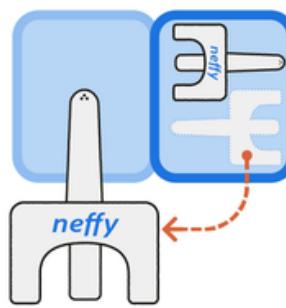


# How to Use Neffy

Using neffy may be easier than injecting epinephrine for some people. But it's important to use it correctly. Improper use may cause it to be less effective.

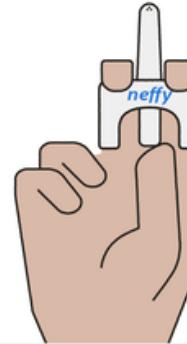
1

Remove one spray from its packaging.



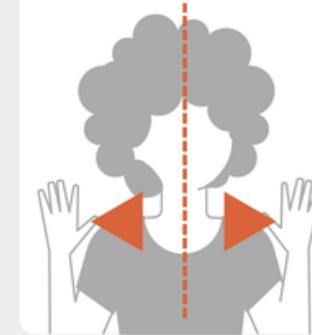
2

Hold neffy in the correct position.



3

Use the right hand to insert into right nostril, or the left hand for left nostril.



4

Insert and press plunger until it snaps up.



5

Call 911. Tell them you've used neffy.

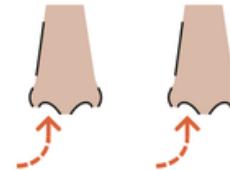


6

Wait at least 5 minutes for a second dose if it's needed.



Use the same nostril as during the first dose.



# If Infant Reacts to New Food

Family may be hesitant to introduce more foods

Discuss risks of reaction, delaying introduction of other foods, and if testing is recommended

Some foods have clinically relevant cross-reactivity

**Important to refer to allergist or decide quickly to not delay early introduction of additional foods!**



# Practical Tips for Introducing Complementary Foods



Check for Readiness

Start with one food at a time

Keep it small and soft

Introduce early in the day

Be patient and keep at it

Make it fun



# Developmental Readiness for Solid Foods

If the infant shows:

- Good head and neck control
- Sits up with support or alone
- Signs of putting objects to mouth
- Grasps small objects
- Ability to swallow pureed food instead of push out with tongue



Supervised feedings in highchair or other safe place sitting upright



**FARE**

## Early Peanut Introduction (4–6 months)\*

Supervised.  
Thinned peanut  
butter only



## Step 1: Thin it.

Never offer  
a glob.



## Step 2: Offer tiny amount.



Pea-sized  
taste



Early peanut  
introduction can  
**LOWER**  
peanut allergy  
risk.

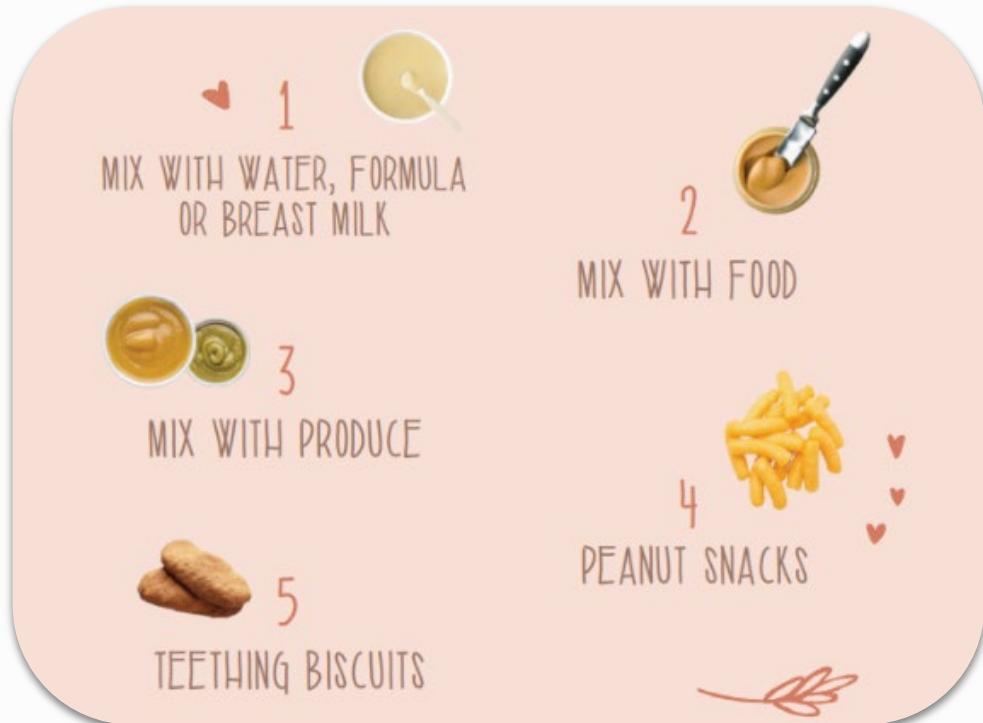


# Strategies for Success

1. Consider having baby sit on your lap
2. Let baby control the experience
3. Dip a spoon on both ends and hand it over
4. Use pureed food or a mash as a sensory activity
5. Watch closely for disengagement cues



# Safe Introduction of Peanut



[www.preventpeanutallergies.org](http://www.preventpeanutallergies.org)

1. Thin 2 tsp of peanut butter with 2-3 tsp. of hot water, breastmilk, or formula (cool before feeding)
2. Blend 2 tsp of peanut butter/powder into 2-3 tbsp of infant cereal, pureed fruit, yogurt
3. Mix 2 tsp of peanut butter/powder into 2 tbsp of any fruit or vegetable purees
4. Give baby peanut puffs, easily dissolvable
5. To keep in the diet, incorporate peanut into baked goods, sauces, teething biscuits



Guidelines advise 2g of peanut protein (2 tsp peanut butter/powder) at any meal or snack, 3 times a week

Should not be the first food introduced into the child's diet

Do Not give whole nuts to a child under the age of 5 years old

Do Not give peanut in lumps/dollops or off a spoon until 4 years old

# Safe Introduction of Egg



- Scramble eggs with water until cooked all the way through
- Mash with water, breastmilk, formula, yogurt, or avocado
- Hard boiled eggs can be choking hazard if not mashed completely
- For older infants/toddlers: make a plain omelet and cut into rectangular strips the size of 2 adult fingers

NEVER feed raw or runny eggs to infants



# Moving Beyond Peanut

- Offer well-cooked egg strips or infant “pancake” made with eggs and bananas
- Offers soy yogurt or tofu strips
- Offer unsweetened cow’s milk yogurt, soft low sodium cheese (mozzarella or ricotta)
- Offer infant wheat cereal, strips of toasted bread or crackers, or well-cooked pasta
- Offer baked salmon or white fish
- Offer cooked shrimp or crab
- Offer thinned tahini on teething crackers or hummus
- Offer ground nuts (walnuts, pecans) or thinned nut butter (almond, cashew)



# Feed Early and Often

Once peanut and egg are introduced with no reaction:

- 1-2 teaspoons of thinned peanut butter and  $\frac{1}{3}$  of mashed egg
- 2-3 times each week



Specific recommendations for other allergens are forthcoming

- Current guidelines recommend introducing a variety of foods that are culturally appropriate including allergens



There is no evidence that restricting the maternal diet during pregnancy or breastfeeding prevents food allergy



**FARE**

# Summary of Early Introduction Recommendations



## Who?

**All infants**  
should start infant safe peanut products and eggs early once developmentally ready and other complementary foods have been introduced and accepted

## When?

**Has No Eczema**  
4 - 6 months  
(delaying increases risk of developing allergy)

**Has Eczema**  
4 months  
(delaying increases risk of developing allergy)

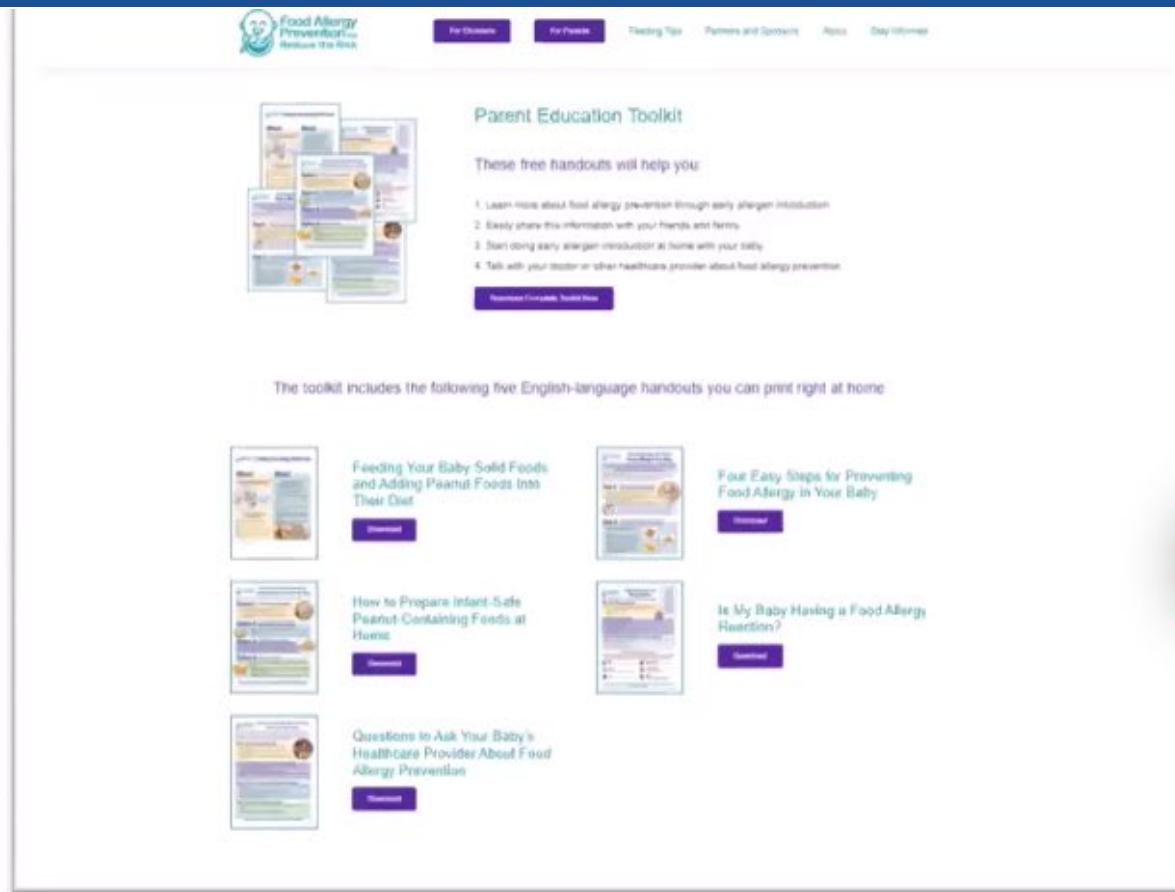
## How much?

**Peanut**  
2 grams 3 times/week  
about 2 teaspoons of peanut butter thinned

**Egg**  
2 grams 3 times/week  
about  $\frac{1}{3}$  of a mashed cooked egg



# Resources for Families



The screenshot shows the Food Allergy Prevention website with a blue header. The main content is the "Parent Education Toolkit" page. It features a "Parent Education Toolkit" icon, a list of benefits, and a list of five handouts with download buttons. A large green play button icon is overlaid on the bottom right of the page.

**Parent Education Toolkit**

These free handouts will help you:

1. Learn more about food allergy prevention through early allergen introduction.
2. Easily share this information with your friends and family.
3. Start doing early allergen introduction at home with your baby.
4. Talk with your doctor or other healthcare provider about food allergy prevention.

[Download Toolkit Now](#)

The toolkit includes the following five English-language handouts you can print right at home:

-  [Feeding Your Baby Solid Foods and Adding Peanut Foods Into Their Diet](#) [Download](#)
-  [Four Easy Steps for Preventing Food Allergy in Your Baby](#) [Download](#)
-  [How to Prepare Infant-Safe Peanut-Containing Foods at Home](#) [Download](#)
-  [Is My Baby Having a Food Allergy Reaction?](#) [Download](#)
-  [Questions to Ask Your Baby's Healthcare Provider About Food Allergy Prevention](#) [Download](#)

[www.foodallergyprevention.org](http://www.foodallergyprevention.org)



The screenshot shows the Solid Starts website with a white header. The main content is an article titled "Introducing Allergens to Babies" with a sub-image of peanuts.

**SOLID STARTS**

## Introducing Allergens to Babies



[www.solidstarts.com](http://www.solidstarts.com)

# Resources for Families

[For Clinicians](#)[For Parents](#)[Feeding Tips](#)[Partners and Sponsors](#)[About](#)[Stay Informed](#)

## Parent Education Toolkit

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[Download Complete Toolkit In English](#)[Download Complete Toolkit In Spanish](#)

The toolkit includes the following five handouts in English and Spanish that you can download to print right at home:

# Recommend FoodAllergyPrevention.org

Welcome to FoodAllergyPrevention.org • Brought to you by the food allergy experts at [FARE](#)



**Food Allergy  
Prevention.org**  
Reduce the Risk

For Clinicians   For Parents   Feeding Tips   Partners and Sponsors   About   Stay Informed

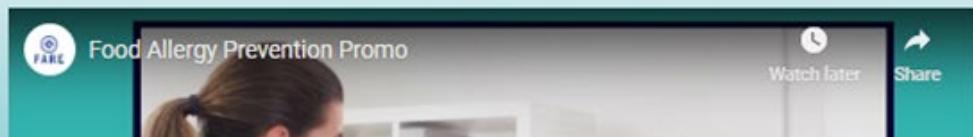
FOODALLERGYPREVENTION.ORG

## We Can Stop a Food Allergy Before It Starts!

Early introduction of infant-safe peanut foods reduces the chance of developing a peanut allergy by as much as 81%.<sup>1</sup>

The Evidence Is Clear.

Guidelines now recommend all infants be introduced to infant-safe peanut-containing foods as soon as they are developmentally ready, starting as soon as 4 to 6 months of age. Increasingly, research is also suggesting that early introduction of other top allergen foods may decrease the development of food allergy.<sup>2</sup>



# Practical Tools for Clinicians

Welcome to FoodAllergyPrevention.org • Brought to you by the food allergy experts at FARE



For Clinicians   For Parents   Feeding Tips   Partners and Sponsors   About   Stay Informed

## Practical Guidance & Tools For Your Clinic

Use the guidance below, along with the downloadable office aids and guides, to help you and your colleagues easily incorporate early allergen introduction into your practice.



All pediatric clinicians should be aware of current guidelines for the prevention of food allergy such as the early introduction of safe peanut foods into the weaning diet.”

**George du Toit, MB, BCh**  
Professor in Pediatric Allergy, Evelina Children’s Hospital London and King’s College London, Investigator on the LEAP Studies

# Adopt the Three E's of Early Peanut Introduction

**ENCOURAGE**

- At-home introduction has been found to be safe for most
- Early and often – provide peanut foods, 2-3 times/week
- Empathize with family who already struggle with allergy

**EVALUATE**

- High-risk infants often benefit the most
- Consider serum testing for high-risk infants
- If serum testing positive, rapid referral to allergy is key

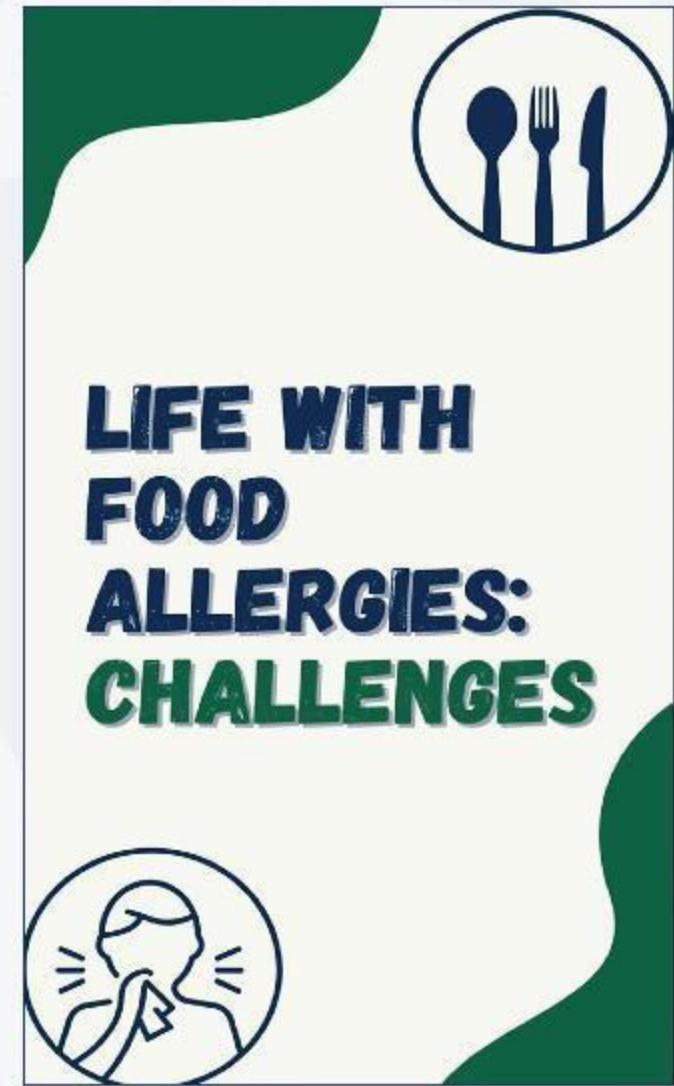
**EDUCATE**

- 2 teaspoons mixed with formula or breast milk
- Introduce top allergen after peanut
- Teach how to recognize severe reactions



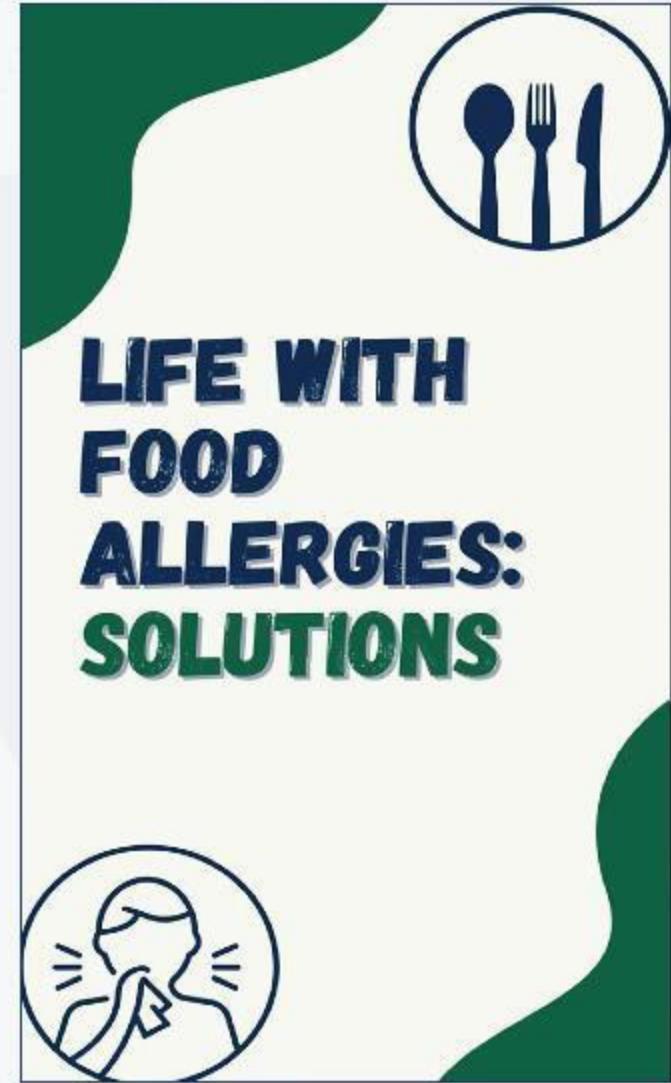


**Scan to watch a  
REEL REVIEW**  
reinforcing what you've  
learned today!





**Scan to watch a  
REEL REVIEW**  
reinforcing what you've  
learned today!





## FOOD ALLERGY & ANAPHYLAXIS EMERGENCY CARE PLAN

Name: \_\_\_\_\_ D.O.B.: \_\_\_\_\_

Allergy to: \_\_\_\_\_

Weight: \_\_\_\_\_ lbs. Asthma:  Yes (higher risk for a severe reaction)  No

NOTE: Do not depend on antihistamines or inhalers (bronchodilators) to treat a severe reaction. USE EPINEPHRINE.

Extremely reactive to the following allergens: \_\_\_\_\_

THEREFORE:

If checked, give epinephrine immediately if the allergen was LIKELY eaten, for ANY symptoms.

If checked, give epinephrine immediately if the allergen was DEFINITELY eaten, even if no symptoms are

PLACE  
PICTURE  
HERE

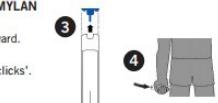


## FOOD ALLERGY & ANAPHYLAXIS EMERGENCY CARE PLAN

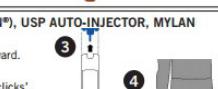
### HOW TO USE AUVI-Q® (EPINEPHRINE INJECTION, USP), KALEO



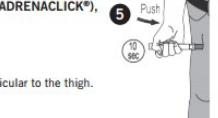
### HOW TO USE EPIPEN® AND EPIPEN JR® (EPINEPHRINE) AUTO-Injector, MYLAN



### OF EPIPEN®, USP AUTO-Injector, MYLAN



### OF ADRENALICK®,



### ADMINISTRATION AND SAFETY INFORMATION FOR ALL AUTO-INJECTORS:

1. Do not put your thumb, fingers or hand over the tip of the auto-injector or inject into any body part other than mid-outer thigh. In case of accidental injection, go immediately to the nearest emergency room.
2. If administering to a young child, hold their leg firmly in place before and during injection to prevent injuries.
3. Epinephrine can be injected through clothing if needed.
4. Call 911 immediately after injection.

### OTHER DIRECTIONS/INFORMATION (may self-carry epinephrine, may self-administer epinephrine, etc.):

Treat the person before calling emergency contacts. The first signs of a reaction can be mild, but symptoms can worsen quickly.

#### EMERGENCY CONTACTS — CALL 911

RESCUE SQUAD: \_\_\_\_\_ DOCTOR: \_\_\_\_\_ PARENT/GUARDIAN: \_\_\_\_\_

#### OTHER EMERGENCY CONTACTS

NAMER/RELATIONSHIP: \_\_\_\_\_ PHONE: \_\_\_\_\_

NAMER/RELATIONSHIP: \_\_\_\_\_ PHONE: \_\_\_\_\_

PATIENT OR PARENT/GUARDIAN AUTHORIZATION SIGNATURE DATE PHYSICIAN/HCP AUTHORIZATION SIGNATURE

FORM PROVIDED COURTESY OF FOOD ALLERGY RESEARCH & EDUCATION (FARE) (FOODALLERGY.ORG) 4/2017

FORM PROVIDED COURTESY OF FOOD ALLERGY RESEARCH & EDUCATION (FARE) (FOODALLERGY.ORG) 4/2017

<https://www.foodallergy.org/living-food-allergies/food-allergy-essentials/food-allergy-anaphylaxis-emergency-care-plan>

## EMERGENCY ACTION PLAN

I am allergic to: \_\_\_\_\_

- **READ ENTIRE FOOD LABEL** and check for food allergens
- **ONLY SERVE SAFE FOODS.** If unsure, call caregiver
- **WASH hands, tables, and eating utensils** with soap and water before serving me food

• **NOT ALLOW SHARING** of food, cups, plates, or utensils

### Most Common Signs of an Allergic Reaction

checked at least **TWO** symptoms or any **ONE** symptom with a star ★ then give **EPINEPHRINE AUTO INJECTOR**

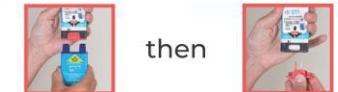
I to speak ★	<input type="checkbox"/> Hard to breathe ★	<input type="checkbox"/> Passing out ★
I to swallow ★	<input type="checkbox"/> Continuous cough ★	<input type="checkbox"/> Stomach pain or vomiting
at tightening ★	<input type="checkbox"/> Wheezing ★	<input type="checkbox"/> Hives, itching, or swelling
or faint ★	<input type="checkbox"/> Chest Pain ★	

Giving Epinephrine Auto-Injector: \_\_\_\_\_

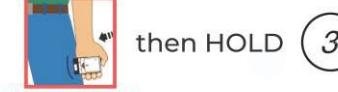
#### 1. Remove Cap



#### Remove Case & Cap



#### 2. Place on THIGH and PUSH HARD. Hold for 3 seconds.



#### 3. Call 9-1-1 and GET EMERGENCY CARE.

While waiting for care, if child is **NOT** improving, give 2nd Epinephrine. This can be life-saving.

If I have asthma or breathing symptoms, also give me my **ALBUTEROL RESCUE INHALER:** \_\_\_\_\_



If Epi is **NOT** needed based on symptoms, please give me my **ALLERGY MEDICINE (Benadryl, Zyrtec):** \_\_\_\_\_ **DOSE:** \_\_\_\_\_

<https://www.feinberg.northwestern.edu/sites/cfaar/food-allergy-asthma/food-allergies/index.html>

# Increase Caregiver Knowledge and Confidence in Early Introduction

- Discuss the process and share resources on early introduction with new parents
- Available in English and Spanish – email [cfaar@northwestern.edu](mailto:cfaar@northwestern.edu)



## Feeding Your Baby Solid Foods

### When?

Babies become interested in solid foods around ages 4 to 6 months.

How will I know if they are ready?

Shows good head and neck control

Sits upright with little to no support

Opens mouths when offered baby food

Tries to grab food, toys, or other objects

### What?

#### Recommended First Foods

- Start with **one-ingredient** foods like fortified baby cereal, fruit, or vegetable.
- First offer thin purees. Then try a mashed consistency as your baby becomes used to different textures.
- Introduce **two-ingredient** foods, like a meat mixed with a vegetable, once your baby gets used to one-ingredient foods.
- DO NOT add any sugar, salt, or spices to baby food.
- DO NOT give any cow's milk, juice, or honey\* until their first birthday.

\*Giving honey to children under 12 months can cause a botulism infection, which is life-threatening.

### How?

#### Instructions for Feeding

- Place your baby in a secure high chair and stay with them the entire time to watch for choking.
- Introduce **one new food at a time**. First offer small amounts on a spoon, then start increasing based on your baby's appetite.
- Start with one meal per day, then increase to three per day as your baby grows.
- Continue giving breastmilk or formula** during your baby's first year of life.
- Slowly offer a variety of foods as your baby becomes used to new flavors.

*It may take many attempts before your baby accepts a new solid food. Be patient, and ask your doctor if you have any concerns!*

#### CHOKING HAZARDS TO AVOID UNTIL AGE 4+ YEARS

Hard, round, or sticky foods like nuts, grapes, raw carrots, candy, lollipops, popcorn.



## Adding Peanut Protein to Your Baby's Diet

These are general instructions for feeding peanut-containing foods to your baby. When introducing peanut-containing foods, *pick a time when your infant is healthy and able to have your full attention for at least 2 hours to watch for an allergic reaction.*  
*If your baby has severe eczema or an egg allergy, please wait to give peanut-containing foods until your doctor says it is okay.*

### How To Introduce

Offer a small amount\* of smooth peanut butter on the tip of a baby spoon.

Wait 10 minutes to see how your baby responds.

If there is no allergic reaction (see below), continue feeding your baby.

### Allergic Reaction Signs

**MILD** symptoms include new rash or hives, especially around the mouth.

**SEVERE** symptoms include:  
Lip or tongue swelling      Widespread hives  
Vomiting or diarrhea      Skin color changes  
Wheezing      Repetitive coughing  
Difficulty breathing      Sudden fatigue

**911** Concerned about your baby's response to peanut? Call 911 for medical attention.

#### Recipe #1

Smooth Thinned Peanut Butter

**\*Start with one serving containing 2g of peanut protein. Gradually increase to three servings per week, adapting to your baby's appetite and preferences.**



- Measure 2 teaspoons of smooth peanut butter.

- Add 2-3 teaspoons of hot water and stir until mixed, thinned, and blended. Let mixture cool.

- Add water or baby cereal to make the mixture as thin or thick as your baby likes.

*Contains 2g of peanut protein per serving.*

#### Recipe #2

Smooth Peanut Butter Puree



- Measure 2 teaspoons of smooth peanut butter.

- Add 2-3 tablespoons of a fruit or vegetable puree that your baby has eaten before. Stir until well blended.

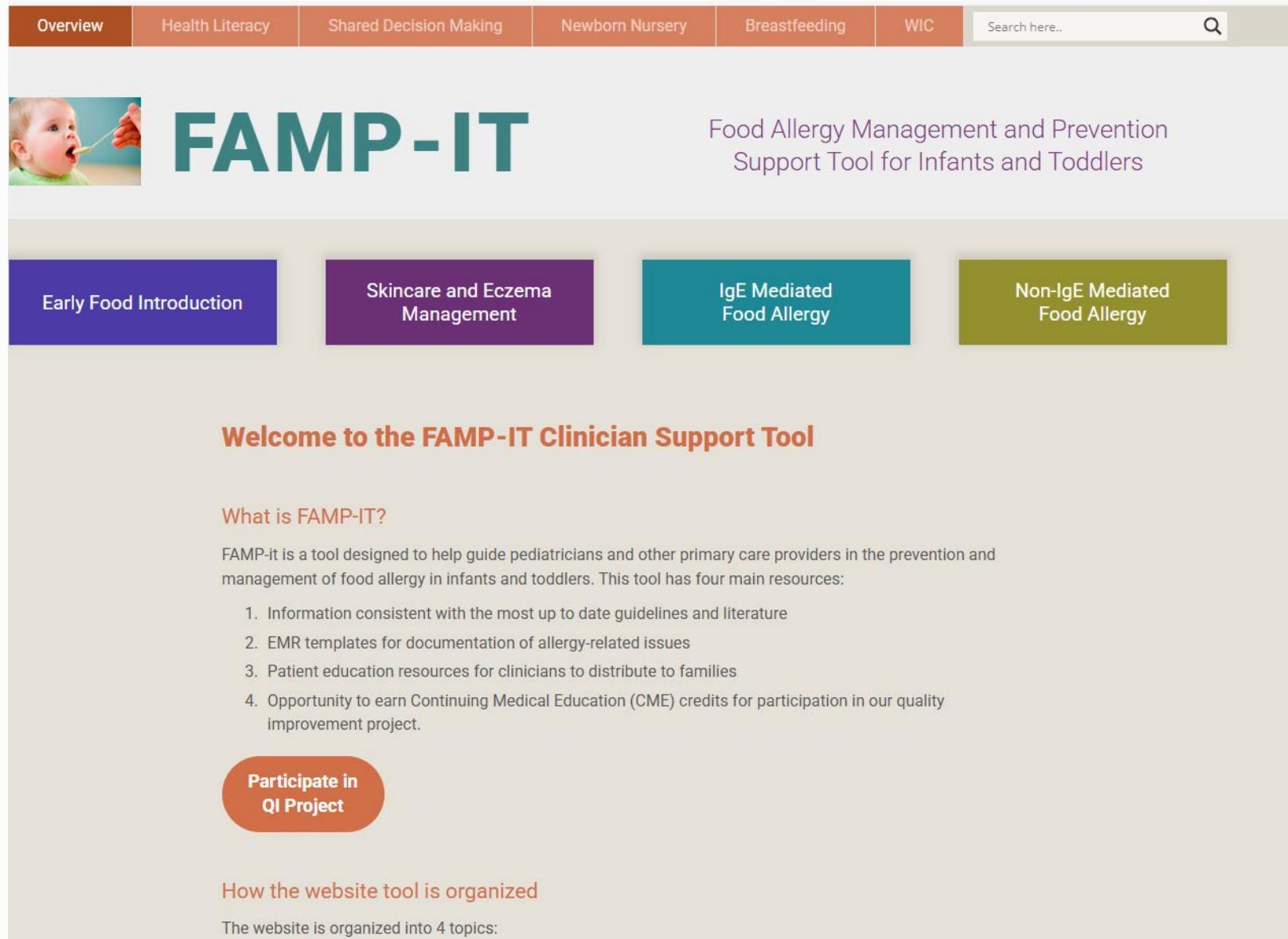
- Add more puree to make the mixture as thin or thick as your baby likes.

*Contains 2g of peanut protein per serving.*

# Resources for Clinicians

[www.famp-it.org](http://www.famp-it.org)

Best single site for medical professionals to find what you need for early introduction



The screenshot shows the FAMP-IT website homepage. At the top, there is a navigation bar with tabs: Overview (highlighted in orange), Health Literacy, Shared Decision Making, Newborn Nursery, Breastfeeding, WIC, and a search bar. Below the navigation bar is a banner featuring a photo of a baby being fed and the text "FAMP-IT Food Allergy Management and Prevention Support Tool for Infants and Toddlers". Below the banner are four colored boxes: Early Food Introduction (purple), Skincare and Eczema Management (dark purple), IgE Mediated Food Allergy (teal), and Non-IgE Mediated Food Allergy (olive green). The main content area has a light gray background. It features a red "Welcome to the FAMP-IT Clinician Support Tool" header, a "What is FAMP-IT?" section with a definition and a bulleted list of four main resources, and a red "Participate in QI Project" button. At the bottom, there is a section titled "How the website tool is organized" with the subtext "The website is organized into 4 topics:".

Overview    Health Literacy    Shared Decision Making    Newborn Nursery    Breastfeeding    WIC     Search

 **FAMP-IT**  
Food Allergy Management and Prevention  
Support Tool for Infants and Toddlers

Early Food Introduction    Skincare and Eczema Management    IgE Mediated Food Allergy    Non-IgE Mediated Food Allergy

**Welcome to the FAMP-IT Clinician Support Tool**

**What is FAMP-IT?**

FAMP-it is a tool designed to help guide pediatricians and other primary care providers in the prevention and management of food allergy in infants and toddlers. This tool has four main resources:

1. Information consistent with the most up to date guidelines and literature
2. EMR templates for documentation of allergy-related issues
3. Patient education resources for clinicians to distribute to families
4. Opportunity to earn Continuing Medical Education (CME) credits for participation in our quality improvement project.

**Participate in QI Project**

**How the website tool is organized**

The website is organized into 4 topics: