



Direct parents and patients using the latest guidelines for nutrition intervention to prevent food allergies, obtain an accurate food allergy diagnosis, and successfully manage food allergies. Implement an evidence-based approach as RDs educate patients in order to reduce the risk of food allergy reactions while protecting quality of life. Understand and use the appropriate educational approaches and techniques to teach families, pediatric patients, or adult patients about successful food allergy management.



What is a Food Allergy? (FA) Immunoglobulin E, or IgE, -mediated reaction

Typically to protein, but can be to other substances (e.g. alpha-gal)

Very quickly results in a reaction – usually within minutes, up to 2 hours

Reactions can be life-threatening

Reactions are unpredictable

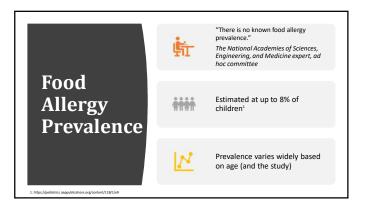
Reproducible every time the food is eaten

Treatment is avoidance, emergency medications

Signs and Symptoms of Food Allergies

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SIGNS AND STRETOMS OF ARAPHTLANS
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Most Common Food Allergens in the US

- Milk
- Egg
- Peanut
- Tree nut
- Crustacean shellfish
- Fish
- Soy
- Wheat
- Sesame (emerging)
- Beef/red meat (emerging)





What MAY Influence the Risk for FA?

- Method of birth delivery
- Pets in the home
- Number of siblings in the home
- Urban vs. rural
- Eczema severity/duration
- Existing food allergy (e.g. egg)
- First degree relative with food allergies
- First degree relative with atopy
 Delayed introduction of food allergens
- Level of education of mother
- Maternal consumption of olive oil





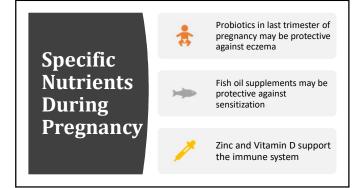
- Even before a baby takes his first foods, he is "tasting" via amniotic fluid
- Baby gets all of her nutrients from mom
- MANY things cross the placenta and support or inhibit healthy growth

Avoidance vs. Consumption in Pregnancy

- Avoidance is not recommended during pregnancy (AAP)
- In one study, consumption of peanuts and tree nuts during pregnancy is associated with lower risk of allergy
- Other studies have found no difference
- Bottom line: the evidence does not support avoiding allergens in pregnancy to prevent food allergies











Why Nutrition Matters in Infancy

- Growth
- Development
- Microbiome
- Palate development
- Allergy prevention





Fed Is Best

- There ARE big differences between breastmilk and formula.
- Formula companies are always improving their products and it's the next best thing to breastmilk
- Babies AND parents need the feeding process to be as low stress as possible
- Some breastmilk is better than none, but babies can be just as healthy if they are formula-fed

What Does the Evidence say About Breastfeeding & Food Allergies?

- Evidence does not support avoidance to prevent food allergies
- Food proteins may be expressed in breast milk
- Breastfeeding + early introduction = may reduce risk



Pre and Probiotics in Breastmilk

- Human Milk Oligosaccharides (HMOs)
- Probiotics in breast milk and on mom's skin
- Unidentified/uncategorized beneficial components?

What About Hydrolyzed Infant Formula?

Current evidence does not support the use of hydrolyzed infant formula to prevent food allergies

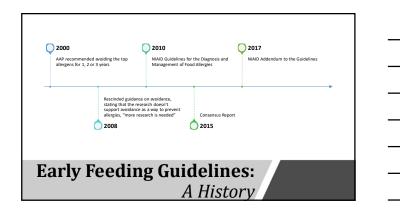






Starting Solids

- Solid foods should start by 6 months
- Look for these cues that baby is developmentally ready:
 - Can hold up head and trunk (mostly) without support
 - Expresses an interest in eating
 - Is AT LEAST 4 months old
- Remember: solids in the beginning are about teaching baby to eat, developing palate, preventing allergies...and having fun!





LEAP Study (Learning Early About Peanut Allergy)

- 540 infants at high risk for developing peanut allergy
 Severe eczema AND/OR
 - Egg allergy
- Randomized to eat or avoid (aged 4-11 months) peanuts for 5 years
- Received significant support from registered dietitians
- Oral food challenges at start and finish
- Up to an 86% reduction in risk for developing peanut allergy



LEAP On Study

- of LEAP study followed "eaters"
- ½ avoided and ½ continued to eat for
- Oral food challen
- Protection



BEAT/HEAP Studies

- BEAT Study Beating Egg Allergy Trial
 Infants with first degree atopic relative
 Randomized to avoid or consume egg white protein at 4 months
 - Significantly reduced sensitization
- HEAP Study Hens Egg Allergy Prevention Non-high risk infants
 - Randomized to placebo or consumption
- Increased sensitization
- Both groups described frequent reactions



EAT Study (Enquiring About Tolerance)

- Breastfed infants with no known risk
- Introduced 6 common allergens - milk, egg, peanut, sesame, fish, wheat - at 6 months
- Difficult to adhere to the protocol
- Results were convincing for peanut, egg, and milk
- Less or not significant for other allergens
- Introduction was safe

NIAID Addendum Guidelines

National Institute of Allergy and Infectious Diseases, or NIAID, Addendum says:

- Group 1 (high-risk) infants with egg allergy or severe to moderate eczema or both:
 - Discuss with pediatrician or allergist before introducing peanut foods
 - Skin prick testing (SPT) may be recommended
 - Depending on SPT results, first oral intro may happen at doc's office
 - Intro recommended at 4-6 months
 - Children should eat 2g peanut protein three times per week thereafter

NIAID Addendum Guidelines

- Group 2 (moderate-risk) mild eczema:
 - Not necessary to discuss with pediatrician first, but may
 - Should introduce at home
 - At or after 6 months
- Group 3 (low-risk):
 - Introduce at home at or after 6 months
 - Age-appropriate and in accordance with family preferences and cultural practices







Other Example Products & Dietary Supplements Hello Peanut! – Powdered peanut butter in sachets with "build up and maintenance" doses

Ready, Set, Food – Peanut, egg, and milk sachets (powder) recommended to give via bottle for 6+ months

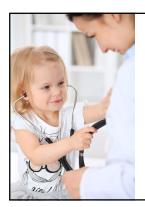
Spoonful One – 16 potential allergens in powder, puff, or cracker form recommended to be given daily for 12 months (or more)





Parental Concerns

- Is my baby ready for solid foods?
- What if my baby has a reaction?!
- Will my baby stop breastfeeding?
- But my baby is at risk for food allergies!
- What about choking hazards?



Pediatrician/Health Professional Concerns

- What if the baby has a reaction?!
- What about choking hazards?
- I've always practiced avoidance with my patients
- It's (LEAP Trial) only one study
- Parents are not going to be receptive
- I don't have time to explain it all to my patients
- We don't have access to an allergist



Particulars for High-Risk Infants

- Food allergy skin and blood testing have high rates of false positives
- Infants with severe eczema are at high risk and skin/blood tests are particularly inaccurate
- Long waits from pediatric screening to allergist to office visit
- The longer we wait, the higher the chance the child will become food allergic



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Limited on Allergy, But... A recent study presented at the European Academy of Allergy and Clinical Immunology (EACCI) showed a reduction in food allergy proportionally related to diet diversity over a 10 year period.





Maternal diet that is plant-based, such as the Mediterranean Diet, may be protective against atopic conditions.

Avoidance of potential allergens in pregnancy and during breastfeeding is not recommended.

The evidence does not support avoiding allergens in infant feeding to prevent food allergies.

Early introduction of peanut foods, starting as early as 4-6 months, can reduce the risk of peanut allergy in high-risk infants.

Diet diversity in infancy and early childhood appears to be protective.

Introducing
Peanuts to
Your Infant
Early Can
Help
Prevent a
Peanut
Allergy





What's Next in Prevention?

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Skin barrier protection guideling of the microbiome?

Guidance for other allergens (beyond peanut)?

"Perfecting" mother's diet?



Credit Claiming

You must complete a brief evaluation of the program in order to obtain your certificate. The evaluation will be available for 1 year; you do not have to complete it today.

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- 2. Go to "My Courses" and click on the webinar title.
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- **4. Select "Start/Resume"** Course to complete and submit the evaluation.
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