



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

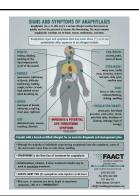
Reactions can be life-threatening

Reactions are unpredictable

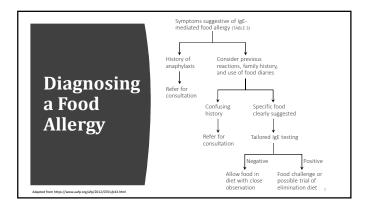
Reproducible every time the food is eaten

Treatment is avoidance, emergency medications

Signs and Symptoms of Food Allergies



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## **Everything Starts with History**

Initial questions and information to consider for clients with possible food allergy:

	Items to Consider
Symptom and atopic history	Ask specific questions about symptoms and pattern of appearance by system, including details regarding skin, oropharangeal, gastrointestinal, upper and lower airway, and cardiovascular symptoms. Has anaphylaxis occurred? Do symptoms occur intermittently or continuously?
	Determine the age, circumstances under which, and location where symptoms first appeared.
	What were past treatment experiences?
	Were there any extrinsic factors, such as medications, exercise, or alcohol that might influence reactions?
	Are there current and/or previous potentially associated conditions (eg. other atopic disease or asthma) in the client? What abouther family members? Infertility or pregnancy?
	Assess anxiety regarding condition.
	Catalogue current medications or supplements.
Linking foods to symptoms	Determine what previous food elimination may have been attempted and whether or not it was helpful.
	Ask about symptoms related to food. Collect a detailed list of potential foods currently being avoided as a means to avoid symptoms.
	Based on the information collected, determine whether or not the individual is currently on a restricted diet and/or at risk for deficiencies.

# **Unproven Tests for Diagnosing Food Allergy**

- Allergen-specific immunoglobulin G
- Applied kinesiology
- Basophil histamine release/activation
- Cytotoxic assays
- Electrodermal test
- Endoscopic allergen provocation
- Facial thermography
- Gastric juice analysis
- Hair analysis
- Intradermal allergy testing
- Mediator release assay (LEAP diet) provocation neutralization

#### Food Allergy Prevalence in Childhood

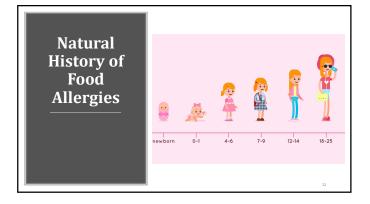
- "There is no known food allergy prevalence." - The National Academies of Sciences, Engineering, and Medicine expert, ad hoc committee
- Estimated at 6-8% of children
- Prevalence varies and is widely based on age (and the study)



# Most Common Food Allergens in the US

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





	Milk and egg are most likely to resolve in early childhood	
Food	Peanut and tree nut are less often outgrown	
Allergies	BUT children are holding on to their allergies longer than in years past	
CAN Be	Following IgE levels can help determine if/when resolution happens, but only OFC can truly tell	
Outgrown	Baked milk and egg, if tolerated, can help hasten resolution	
	Severity of reactions does not necessarily get worse with repeated exposure, but infants are less likely to have anaphylaxis than older children	





Normal eating	Normal eating	
is going to the table hungry, and eating until you are satisfied.	is leaving cookies on the plate because you will let yourself have cookies again tomorrow, or eating more now because they taste so great!	
Normal eating is being able to choose food you enjoy and to eat it and	Normal eating	
truly get enough of it—not just stop eating because you think you should.	is overeating at times, and feeling stuffed and uncomfortable and undereating at times, and wishing you had more.	
Normal eating	Normal eating	
is being able to give some thought to your food selection so you get nutritious food, but not being so wary and restrictive that you miss out on enjoyable food.	is trusting your body to make up for your mistakes in eating.  Normal eating	
Normal eating	takes up some of your time and attention, but keeps its place as only one important area of your life.	
is giving yourself permission to eat because you are happy, sad, or bored, or just because it feels good.	In short, normal eating is flexible	
Normal eating	it varies in response to your hunger, your schedule, your food, and your feelings.	
is mostly three meals a day—or four or five—or it can be choosing to munch along the way.	16	
	Miles is assessed assistant Common and Commo	



With Food Allergies...

- ...normal eating is interrupted
- ...picky eating can be exacerbated because of fear
- •...multiple food allergies are a significant issue

## Interventions to Consider

- Coach the family on division of responsibility
- Promote a diverse
  diet
- Educate to reduce fear



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### **Specific Nutrients of Concern**



Milk – protein, calcium, vitamin D



Fish, Peanuts, Tree Nuts – protein, healthy fats, vitamin E, niacin



Wheat – B vitamins, fiber, folic acid



Eggs – protein, vitamins A & D, choline

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Normal Growth May Be Impaired Having any food allergy (OR perceived food allergy) risks normal growth in young children.

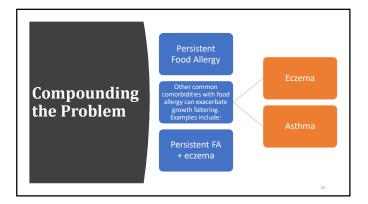
Those with cow's milk allergy (CMA) are at a particularly high risk, especially those under 2 years of age.

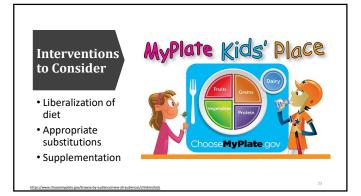
Having more than 2 food allergies increases risk even more.

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4291552/

Statistics for Growth Faltering with CMA

- In one study of more than 1,000 children, those with milk allergy had lower weight and height compared to those with peanut/tree nut (TN) allergy
- A separate study of adults with lifelong CMA showed milk-allergic adults to be shorter than those without a CMA
- Intake of calcium, vitamin D, and protein tend to be lower in those with CMA







#### **Avoidance**

- Currently, the only approved "treatment" for food allergies is strict avoidance and emergency medications (epinephrine) as needed
- Most reactions occur as the result of accidental exposure from a caregiver (37%), but also happen outside the home
- Education is the key to successful avoidance, but reactions are common and preparation is essential for better outcomes







EPINEPHRINE IS THE ONLY RECOMMENDED TREATMENT FOR ANAPHYLAXIS.





## **Label Reading & PAL**



- Food Allergy Labeling and Consumer Protection Act (FALCPA)

  - Only addresses top 8 allergens

    Must be explicitly listed on the labels by common name (including specific type of nut, fish, and shellfish)

    Does not include fresh foods (produce, meats, fish)

  - Does not metable than 50 the properties:
     Highly refined oils (e.g. soy and peanut)
     Soy lecithin
- Precautionary Advisory Labeling (PAL)
   Not regulated
   Varies widely between and within manufacturers
- Food allergen recalls are not uncommon and most often due to milk

#### Read Labels 3 Times

- At the store
- When putting away at home
- Before preparing to eat



### **Prevent Cross Contact**

- When storing and preparing foods, it is important to prevent cross-contact
- It is not necessary, thought it may be preferred, to remove allergens from the home
- Even a small amount of protein, which cannot be seen, can cause a potentially serious reaction

## Meal Preparation

- Teaching cooking skills is an important part of nutrition education for families managing food allergy
- Determine who typically shops for and prepares
  food, access skill level.
- Educate extended family members and/or childcare providers
- Consider in-home cooking lesson(s), if necessary



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#### **School Nutrition**

- "Reasonable Accommodations" in school are required by the Americans with Disabilities Act (ADA)
- Safe and equal access to education is required by law
- Parents may request a 504 Plan for the accommodation if necessary
- Does not require that the school be "free from" any allergens (and research shows this may not reduce risk)

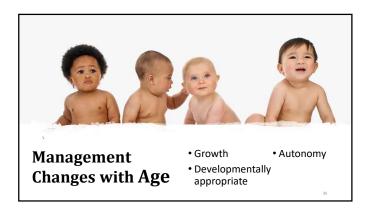


## **College & University Dining**

- Accommodations are also required in college and universities
- Types of accommodations vary widely from allergen-safe dining halls to exemptions from meal plans
- Adolescents with persistent food allergies should begin the process of considering school choice early
- Parents can participate, but students ≥18 are legally adults, therefore early self-advocacy training is important

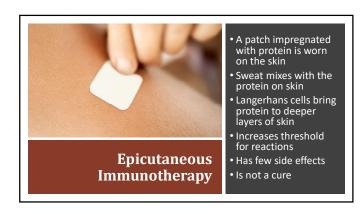




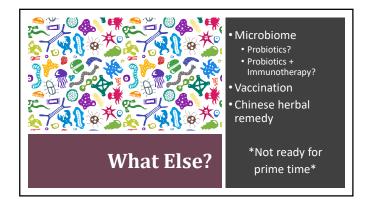












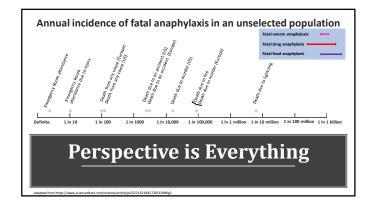


Quality of Life (QOL)

#### **Having Food Allergies Adversely Effects QOL**

- Mothers carry disproportionately more anxiety than fathers
- Parents significantly restrict normal activities for family and child
- Children of highly-anxious parents tend to be highly anxious, too
   Parents and caregivers are most fearful of death due to anaphylaxis
- Wheat, soy, and milk are associated with worst QOL











Practice Pearls Be a reliable partner for parents and children. Food allergies are a family condition.

Educate to empower at every age with a focus toward safety <u>and</u> QOL.

Employ liberalization of the diet as much as is safely possible.

Encourage family to continue regular visits to allergist for retesting and possible resolution.

Keep up with the latest research and news for available treatments for food allergies.

Children with Food Allergies Are Not Little Adults



#### **For More Resources**

**International Network for Diet and Nutrition in Allergy** 

Food Allergy & Anaphylaxis Connection Team (FAACT, foodallergyawareness.org)

Food Allergy Research Education (FARE, foodallergy.org)

Kids with Food Allergies (kidswithfoodallergies.org)



## 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

#### CREDIT CLAIMING INSTRUCTIONS:

- 1. Go to www.CE.TodaysDietitian.com
- 2. Go to "My Courses" and click on the webinar
- 3. Click "Take Course" on the webinar description page.
- 4. Select "Start/Resume" Course to complete and submit the evaluation.
- 5. Download and print your certificate.

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