

Overview of Food Allergy Training

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- Review existing science and recommendations for diagnosis and management of food allergies
- Provide evidence-based recommendations for dietetics practice and nutrition counseling for clients with food allergies
- Equip the registered dietitian to deliver sound nutrition intervention for clients and patients with food allergies
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Learning Objectives

- Summarize the basics of food allergy diagnosis and prevalence and incidence
- Distinguish between food allergies and other adverse food reactions using guidelines developed by the experts

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• Describe opportunities for the RD and DTR in the area of food allergy management

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Food Allergies in the Headlines

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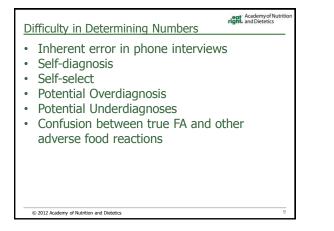
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- The Trials an Triumphs of a Food Allergy Family (Barista Kids)
- Law Requires Schools to Carry EpiPens
- Market for food allergy and intolerance set to hit \$26.5bn (Food Navigator)
- Consumers often ignore food allergy labels: study (Chicago Tribune)
- Food Intolerance Testing False Positives are Leading to Overdiagnosis (Diets in Review)



Let's Practice: Is it food allergy? Scenario: •CC presents stating he has a food allergy and would like help with his diet •His history is significant for environmental allergies, limited fruit and vegetable intake •S/S include: • Occasional constipation • Itchiness in the mouth after eating raw apples and carrots • Thinning hair and dry skin •He has never seen an allergist

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Best Estimates

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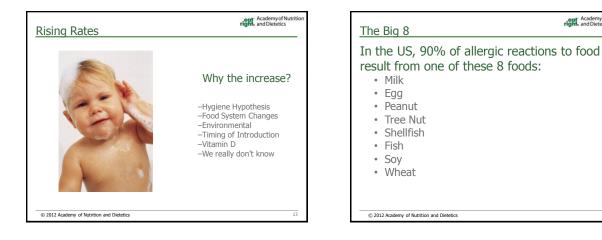
- American Academy of Allergy, Asthma and Immunology (AAAAI)
 - >3% of adults
 - 6% of children

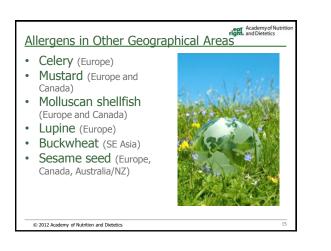
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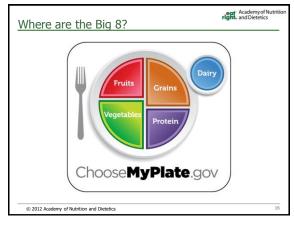
- National Institute of Allergy and Infectious Disease (NIAID)-Sponsored Panel
 - 4% of teens and adults
 - 5% of children under five years old

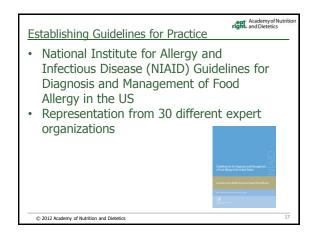
Are food allergies rising? • Increased awareness & diagnosis • Increase in all allergies and autoimmune diseases • Food allergy increase 18% in children • Z012 Academy of Nutrition and Dietetcs

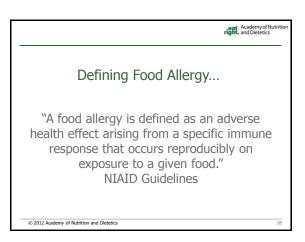
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Sensitization vs. Food Allergy

• Sensitization:

· Occurs when the body creates antibodies to a specific substance

 May occur without oral introduction, possibly via cutaneous exposure

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- Does not necessarily manifest in food allergy
- Food allergy describes the immune response that occurs due to sensitization

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Signs and Symptoms

runny nose

reaction.

• Skin – hives, swelling, itchiness

Gastrointestinal – itching, swelling, tingling,

Respiratory – coughing, wheezing, sneezing,

Cardiovascular – hypotension, cardiac arrest

*Anaphylaxis involves more than one organ system and often refers to a life-threatening

vomiting, diarrhea, throat tightness

IgE Mediated Food Allergy • Acute onset within minutes to up to 2 hours Involves the immune system Usually involve skin, gastrointestinal tract and respiratory tract May involve cardiovascular system



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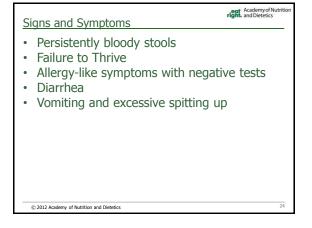
Non-IgE Mediated

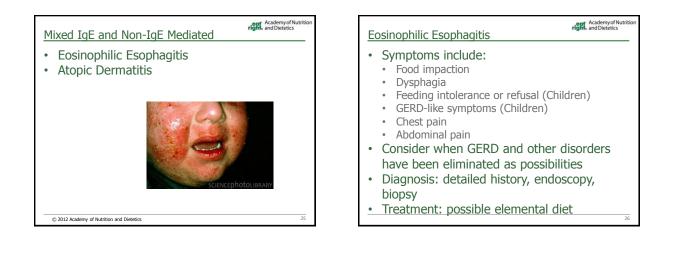
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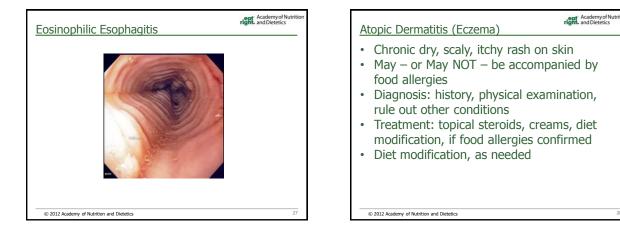
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- Protein-induced enterocolitis, proctocolitis, and enteropathy syndromes
- Usually infants and young children
- Typically involves the gastrointestinal tract
- May take hours, days or longer to manifest

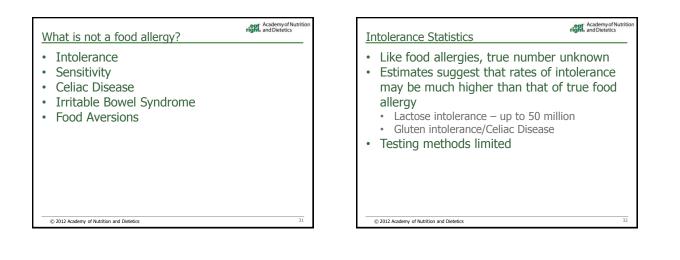


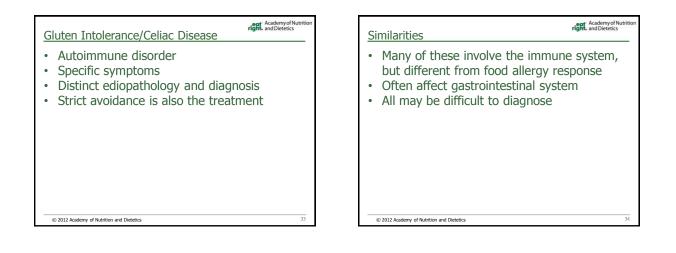


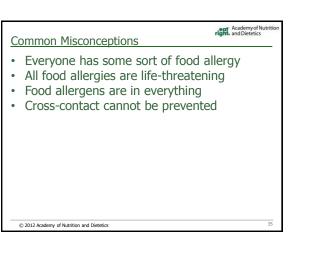


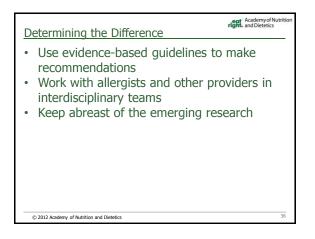


Oral Allergy Syndrome	ear Academy of Nutrition right. and Dietetics
 Food allergy-like symptoms Related to pollen allergies (ex. Bir Often develop in adulthood Does not seem to pose significant threatening risk Often can eat fresh fruits and veg when cooked 	t or life-
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 Key Takeaways for the Practitioner
 Issues with

 • Guiding clients through the process of accurate diagnosis is vital
 • Lack of Historia standa

 • Be ready to address food allergy misconceptions
 • Non-st common allergy and how to tell the difference between it and other conditions





Questions to Ask

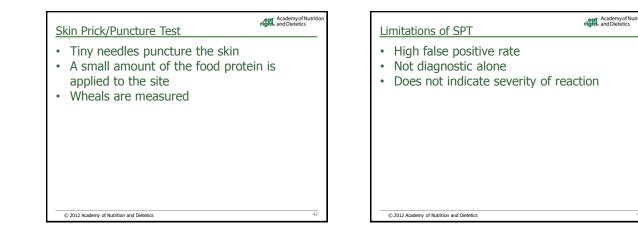
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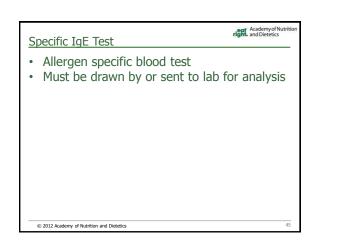
- 1. Record foods eaten
- 2. Symptoms diary

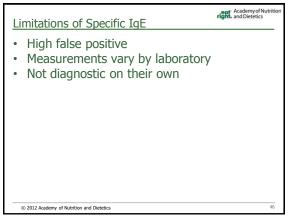
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- 3. List of foods already eliminated
- 4. Is reaction associated with certain food
- 5. How much of the food was eaten
- 6. Did anyone else get sick when they ate this food
- 7. Did reaction require any medication

right. Academy of Nutri Elimination Diets Assistive in diagnosis of few foods • Particularly helpful in specific disorders Need to ID all potential dietary sources © 2012 Academy of Nutrition and Dietetics







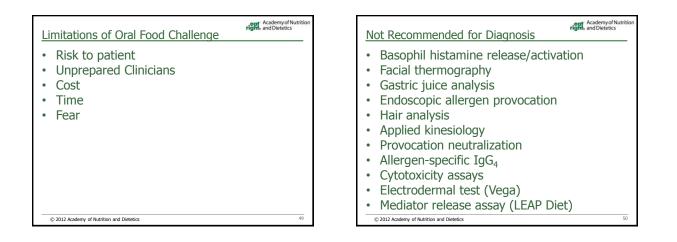
Oral Food Challenge

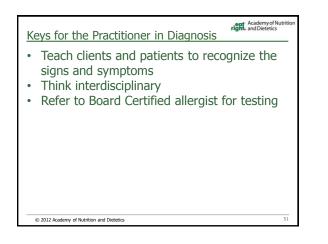
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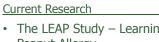
- Gold Standard for diagnosis of food allergy
- Should only be done under medical supervision
- Opportunity for partnership between RD and allergist (MD)
- Single-Blind, Double-Blind, Open

Recommendations for OFC
 Eliminate suspect food for at least 2 weeks Careful supervision with emergency medication ready Start with a very small dose and gradually move up to a standard amount eaten Keep patient in office 2 hours after last dose or longer based on clinical history
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- The LEAP Study Learning Early About Peanut Allergy • Looking at whether and how withholding vs.
 - introduction affects the development of peanut allergy
 - In the last year

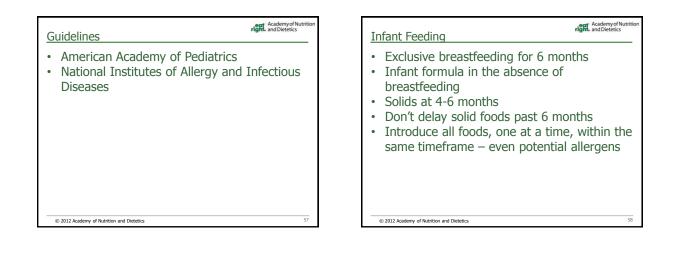
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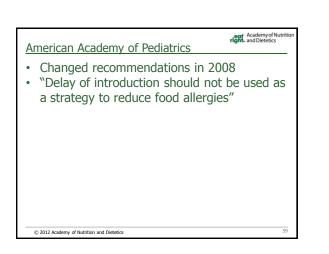
- EAT Enguiring About Tolerance
 - To determine how breastfeeding along with complimentary feeding, starting at 3 months, affects allergy development
 - In recruitment phase

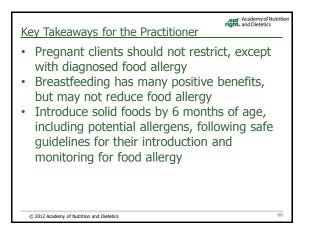
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Risk Factors
• Having a first-degree relative with food
  allergy may increase risk
• Eczema and atopic diseases (such as food or
   environmental allergies, atopic dermatitis,
  allergic rhinitis, asthma)
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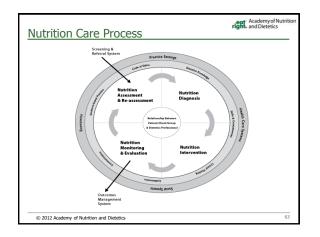
Pregnancy	Lactation
 Eating potential allergens may increase the risk of sensitization Lack of evidence that eating potential allergens increases risk of true food allergies Even in high risk women, no recommendation to restrict during pregnancy 	 Research inconclusive on protection against food allergies Food proteins can pass through breast milk Food restrictions not recommended as a strategy to prevent food allergies
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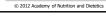


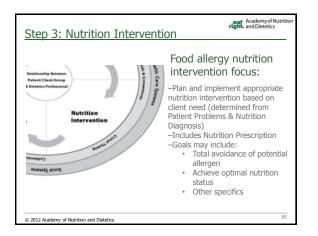


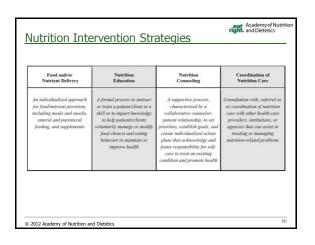


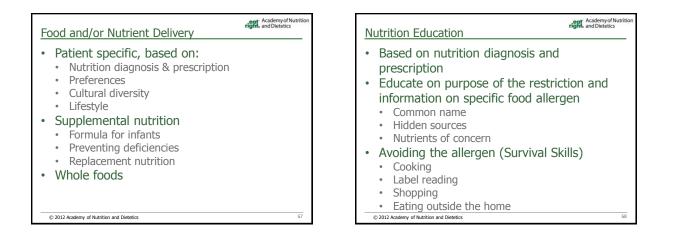


PES Statement	of Nutrition tics
 Problem: Nutrition Diagnosis (ex. Nutrition deficiency) Etiology: Cause or contributing factors (ex. Extremely restricted diet related to food allergy) Signs and Symptoms: What proves a problem exists (ex. Low Hgb/Hct; 3-day food history with nutrient analysis shows deficiencies in micronutrients; lack of energy) 	
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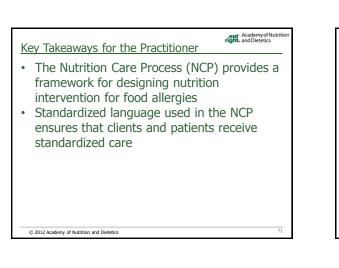












Let's Practice: Answer	right. Academy of Nutrition and Dietetics
 What do you think? What's your PES? Problem: Inadequate fiber and micr Etiology: Restricted diet, particularly vegetables Signs and Symptoms: Occasional co thinning hair and dry, scaly skin 	/ fruits and
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What's your intervention?

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- Educate about benefits of a varied diet including all food groups
- Provide some easy recipes for acceptable fruits and vegetables
- Discuss other ways to incorporate high fiber foods into the diet
- Consider recommending supplemental fiber and multivitamin/mineral
- Provide education about S/S of true food allergy vs. other conditions

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Further recommendation

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- Environmental allergies plus...
- Itchiness in the mouth with raw apples and carrots suggest possible oral allergy symptom
- Recommend additional testing with a Board Certified allergist









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Doug Wordell

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"RDs and DTRs can be instrumental in developing an effective strategy to reduce the risk to students, staff, and the school district."



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Spotlight: Leah McGrath

Ingles Supermarkets "Working directly with the public, I get many questions about food allergies. I help our company decide on products to meet consumer needs, as well as write food allergy education and marketing materials. All supermarkets need a dietitian."



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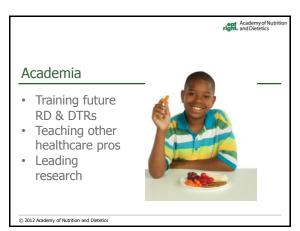


Spotlight: Sherry Coleman Collins National Peanut Board "There is a lot of confusion and industry and among consumers about food allergies. Dietitians can serve as a reputable and trustworthy source of nutrition information to help shape marketing messages and communication strategies."

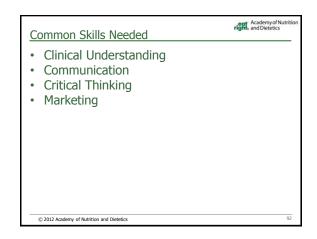


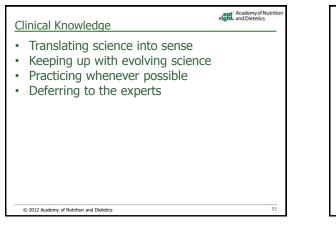


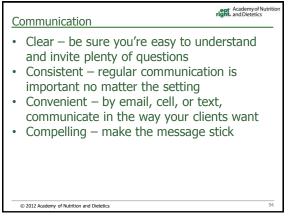












Critical Thinking

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- Essential for problem solving
- With the individual for meals, substitutes, navigating life
- For the retailer and foodservice client to manage products, reduce risk and comply with regulations

Marketing	eqt Academy of Nutrition right. and Dietetics
 Your services A healthy lifestyle Successful options 	
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