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Food Allergy Causes

- A food allergy is an abnormal immune system response to a food protein.
- □ A food allergy occurs when the **immune system**:
 - 1) identifies a food protein as dangerous and creates antibodies against it; and 2
 - 2) tries to protect the body against the danger by releasing substances, such as histamine, tryptase, and others, into our blood when that food is eaten 3
- An allergic reaction usually occurs the first time the new food is introduced
- □ From there after when the food allergen is introduced the body automatically releases the antibodies causing an allergic reaction

1. www.foodallergy.org

2-3. www.webmd.com

Food Allergy Awareness

- □ Strict avoidance of the allergy-causing food is the only way to avoid a reaction.
- □ Reading ingredient labels for all foods is the key to avoiding a reaction 2
- □ There is no cure for food allergies ₃
- Studies are inconclusive about whether food allergies can be prevented 4

1-4. www.foodallergy.org

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Symptoms

- Food allergic reactions are different for every individual
- □ Common symptoms include ¬
 - Hives
 - Running nose
 - Abdominal pain
 - Anaphylaxis
 - Difficulty breathing
- Symptoms may appear minutes, hours or days after contact
- Sometimes a reaction to food is not an allergy. It is often a reaction called "food intolerance"

1. www.cdc.gov

Food Allergy vs. Food Intolerance

- □ <u>Food allergy</u> is a potentially serious immune response to eating certain foods
- □ Food Intolerance is an adverse reaction to food that does not involve the immune system and is not life-threatening 2

Example:

Lactose intolerance

□ Trouble digesting milk sugar (lactose)

Symptoms

Might include abdominal cramps, bloating and diarrhea

1-2. www.webmd.com

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Common Food Allergies

- More than 160 foods can cause reactions
- □ Top 8 food allergens:
 - Milk (dairy)
 - Eggs
 - □ Fish (bass, cod, flounder)
 - Crustacean shellfish (crab, lobster, shrimp)
 - Tree nuts (almonds, walnuts, pecans)
 - Peanuts
 - Wheat
 - Soybeans

- The most common problem foods for children are eggs, milk (especially in infants and young children) and peanuts2
- In adults, the more prevalent problem foods include
 - Fish and shellfish, such as shrimp, lobster and crab
 - Peanuts
 - Tree nuts, such as walnuts
 - Eggs

1-2. www.foodallergy.org

Anaphylaxis

- Anaphylaxis is a serious allergic reaction that is rapid in onset and may cause death
- □ Food allergy is believed to be the leading cause of anaphylaxis outside the hospital setting 2
- □ Anyone with a previous history of anaphylactic reactions is at risk for having another severe reaction 3
- Also at risk are those with a personal or family history of allergic conditions, such as asthma, eczema, or hay fever 4

1-4. www.foodallergy.org

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Anaphylaxis

- □ Signs include:
 - Warm, flushed feeling
 - Tingling in mouth
 - Red, itchy rash or hives
 - Lightheadedness
 - Shortness of breath
 - Severe sneezing
 - Anxiety
 - Stomach cramps

- Vomiting
- Diarrhea
- Airway constriction
- Drop in blood pressure
- Rapid pulse
- Dizziness
- Loss of consciousness

1. www.foodallergy.org

Anaphylaxis

- □ Treatment options
 - Written emergency care plan
 - Emergency medicines
 - EpiPen
 - Twinject
 - Medication must enter the bloodstream quickly
 - After the first injection of medication you must call for emergency response (911)

1. www.foodallergy.org

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Facts

- □ Food allergies affect 2-4% of adults and 6-8% of children
- □ The most common food intolerance is lactose intolerance and it affects nearly 10% of Americans
- □ Children are at greater risk for an allergic reaction if they are younger than age 3 or have a family history of asthma and allergies, a genetic predisposition to allergic disease, or elevated allergen-specific serum immunoglobulin levels 3

1-2. www.depts.ttc.edu
3. www.cdc.gov

WHY SHOULD SCHOOLS BE PREPARED TO ADDRESS FOOD ALLERGIES?

- Responsibility for health and safety of children at school
- Food allergy is the most common cause of anaphylaxis.
- ☐Need for immediate response
- ☐ Factor when dealing with other chronic conditions
- Unique social and emotional challenges

1. www.nsba.org

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Allergies in the School Environment

- Studies show 16% to 18% of children with food allergies have had an allergic reaction to an accidental contact with food allergens while at school
- 25% of anaphylaxis reactions in schools occur among students without a previous food allergy diagnosis 2
- □ School personnel should be aware of how to manage students with know food allergies and should be able to recognize food allergy reactions and symptoms 3

1-3. www.cdc.gov

School Responsibility Towards Allergies

- Be knowledgeable about and follow applicable federal laws including ADA, IDEA, Section 504, and FERPA and any state laws or district policies that apply
- Review the health records submitted by parents and physicians
- Include food-allergic students in school activities. Students should not be excluded from school activities solely based on their food allergy 2
- Identify a core team of, but not limited to, school nurse, teacher, principal, school food service and nutrition manager/director, and counselor (if available) to work with parents and the student (age appropriate) to establish a prevention plan. Changes to the prevention plan to promote food allergy management should be made with core team participation³

1-3. www.nsba.org/foodallergy

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Continued...

- Practice the Food Allergy Action Plans before an allergic reaction occurs to assure the efficiency/effectiveness of the plans
- Coordinate with the school nurse to be sure medications are appropriately stored, and be sure that an emergency kit is available that contains a physician's standing order for epinephrine 2
- Students should be allowed to carry their own epinephrine, if age appropriate after approval from the students physician/clinic, parent and school nurse, and allowed by state or local regulations 3

1-3. www.foodallergy.org

Continued...

- Be prepared to handle a reaction and ensure that there is a staff member available who is properly trained to administer medications during the school day regardless of time or location.
- Work with the district transportation administrator to assure that school bus driver training includes symptom awareness and what to do if a reaction occurs 2
- Follow federal/state/district laws and regulations regarding sharing medical information about the student 3
- Take threats or harassment against an allergic child seriously 4

1-4. www.foodallergy.org

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Laws and Liabilities

- A life-threatening food allergy can be considered a disability under federal laws
 - Rehabilitation Act of 1973, Section 504
 - The Individuals with Disabilities Education Act (IDEA)
 - The Americans with Disabilities Act (ADA), along with the ADA Amendments of 2008 (ADAA)
- Assure compliance for privacy and confidentiality
 - Family Educational Rights and Privacy Act (FERPA) and
 - Health Insurance Portability and Accountability Act of 1996 (HIPAA)
- Civil rights claim on behalf of student
 - Follow the laws or parents/caregivers can file a claim

1. www.foodallergy.org

References

- □ <u>www.nsba.org</u>
- □ <u>www.foodallergy.orgs</u>
- □ <u>www.cdc.gov</u>
- □ <u>www.depts.ttc.edu</u>
- □ <u>www.webmd.com</u>