FOOD ALLERGY AND INTOLERANCE

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DIFFERENCE

- Food Allergy: Immune system reaction
- Food Intolerance: Inability to digest a food

FOOD ALLERGY

 A group of disorders characterized by immunologic responses to specific food proteins

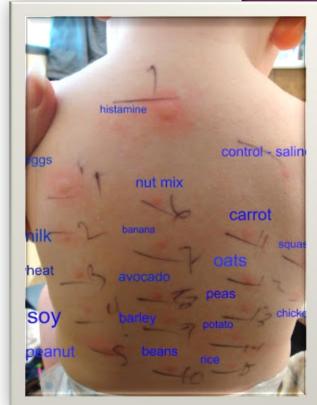
IgE-mediated reaction

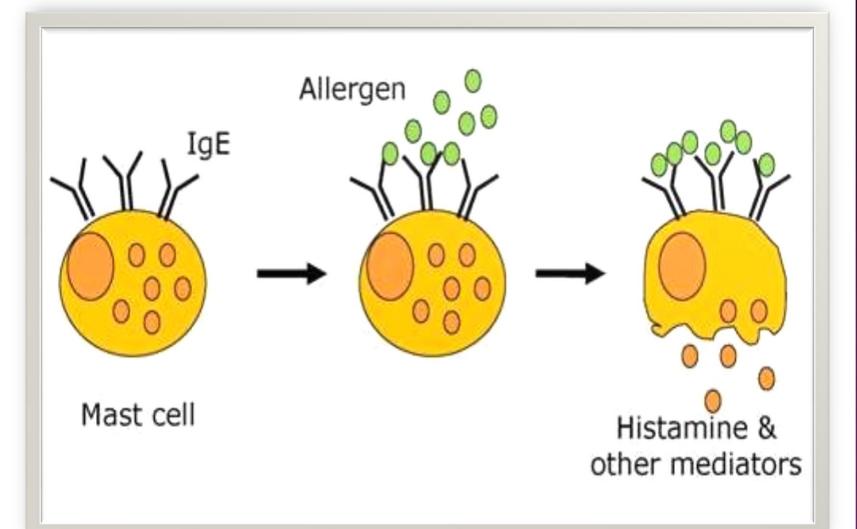
Reaction is not dose-dependent



FOOD ALLERGY

- Over 170 foods have been documented as causing food allergy.
- □90% of food allergies in children are due to:
- Milk Soy Peanut Egg Wheat
- \$\mathbb{e}\$5% of food allergies in
 adolescents and adults are due to:
 - Peanut Fish Tree nuts





SYMPTOMS OF A FOOD ALLERGY

- Symptoms of a food allergy can range from mild to severe.
- Just because an initial reaction causes few problems doesn't mean that all reactions will be similar
- a food that triggered only mild symptoms on one occasion may cause more severe symptoms at another time.

SYMPTOMS OF AN ALLERGIC REACTION

- Vomiting and/or stomach cramps
- Shortness of breath
- Wheezing
- Repetitive cough
- Shock or circulatory collapse
- trouble swallowing
- Swelling of the tongue
- Weak pulse
- Pale or blue coloring of skin
- Dizziness or feeling faint
- Anaphylaxis

Food Allergy: Symptoms

Respiratory symptoms:

- ·asthma
- hoarseness

Skin / mucous membrane symptoms:

- ·urticaria
- ·angio-oedema
- •rhinitis
- conjunctivitis

Cardiovascular symptoms:

anaphylactic shock

Gastrointestinal symptoms:

- ·abdominal pain
- vomiting
- diarrhea

FOOD INTOLERANCE

- A generic term describing an abnormal physiological response to an ingested food or food additive which is not a result of an immune response
- Reaction is dose-dependent: symptoms are dependent on amount and frequency of consumption
- Reaction is sometimes inherited, but not always.

EXAMPLES OF FOOD INTOLERANCES

- Lactose intolerance:Deficiency of lactase
- Sucrose intolerance: Deficiency of sucrase
- Sulphite intolerance:
 Possibly deficiency of sulphite oxidase

Lactose Tolerant (has lactase) Lactose Intolerant (no lactase) Lactose Lactose small intestine small glucose intestine Lactase galactose Bacterial fermentation large intestine large acids gas intestine flatulence, abdominal pain

SYMPTOMS OF FOOD INTOLERANCE

- Bloating
- Migraines
- Headaches
- Cough
- Runny nose
- Feeling under the weather
- Stomach ache
- Irritable bowel
- Hives

CAUSES OF FOOD INTOLERANCE

- 1) Absence of an enzyme
- 2) Chemical causes of food intolerance
- 3) Food poisoning toxins
- 4) Natural occurrence of histamine in some foods

RESOURCES

Asthma and Allergy Foundation of America



Allergy UK

