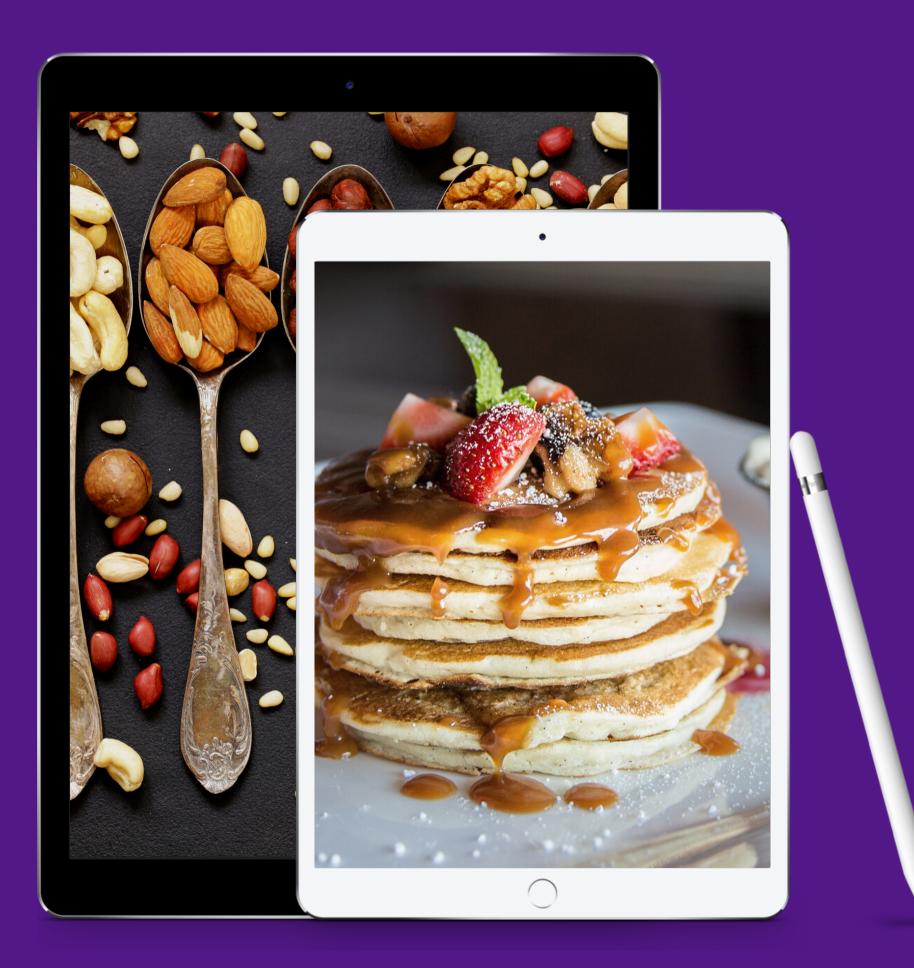


NORLIA MAHROR 24/11/2020



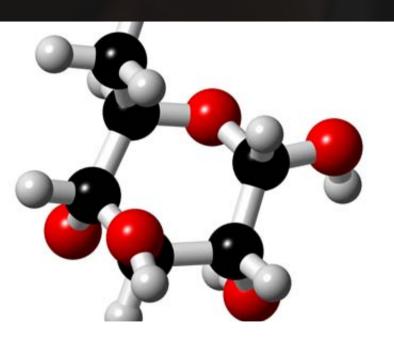
CONTENT

Types of food

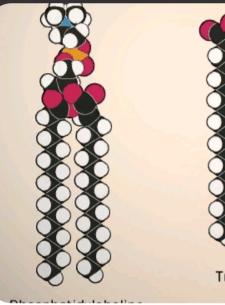
Allergen labelling

Allergic reaction

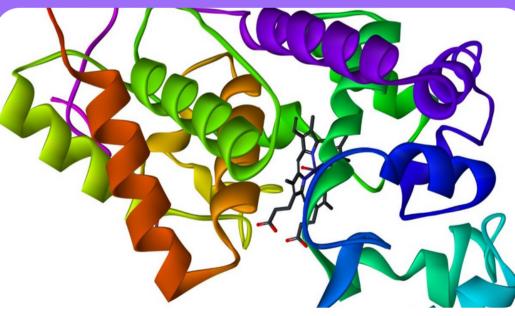
Food Components



Carbohydrate



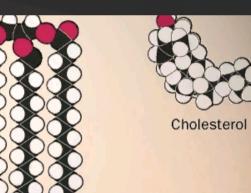
Lipid



Protein

Can cause allergic reactions in certain people





Triacylglycerol



Micronutrient



https://www.fda.gov/food/food-labeling-nutrition/food-allergies

TREE NUTS

PEANUTS



SOYBEANS



MILK

Milk allergy is caused by alpha S1-casein protein in cow's milk.

Milk allergy involve the immune system & trigger allergic reaction (safety issue)

Lactose intolerance involve the digestive system (not a safety issue)

- person lacks the enzyme (lactase) to metabolize lactose — a milk sugar — in the intestines.
- undigestive lactose is broken down by bacteria cause bloating and gas

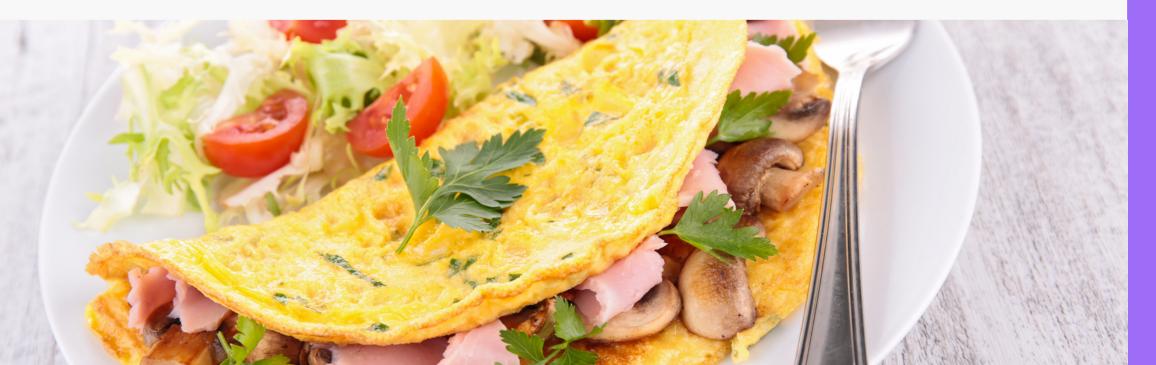




Both egg white and yolk can trigger allergic reaction

Some people can safely consumed baked/heated product that contain egg

Many children may outgrow egg allergy within a few years







Fish allergies are more predominant in adults

An allergy to fish tends to be lifelong.





SHELLFISH

Protein (tropomyosin) in shellfish trigger immune response

Adults may suddenly develop shellfish allergy & the allergic reaction become more severe with each exposure





WHEAT

Wheat proteins that can trigger immune responce — albumin, globulin, gliadin and gluten.

Wheat allergy is most common in children and may outgrow it within a few years







Peanut allergy is common in children and could be a lifelong conditions





TREE NUT

Tree nut includes walnut, almond, hazelnut, pecan, cashew and pistachio

An allergy to tree nuts tends to be lifelong.

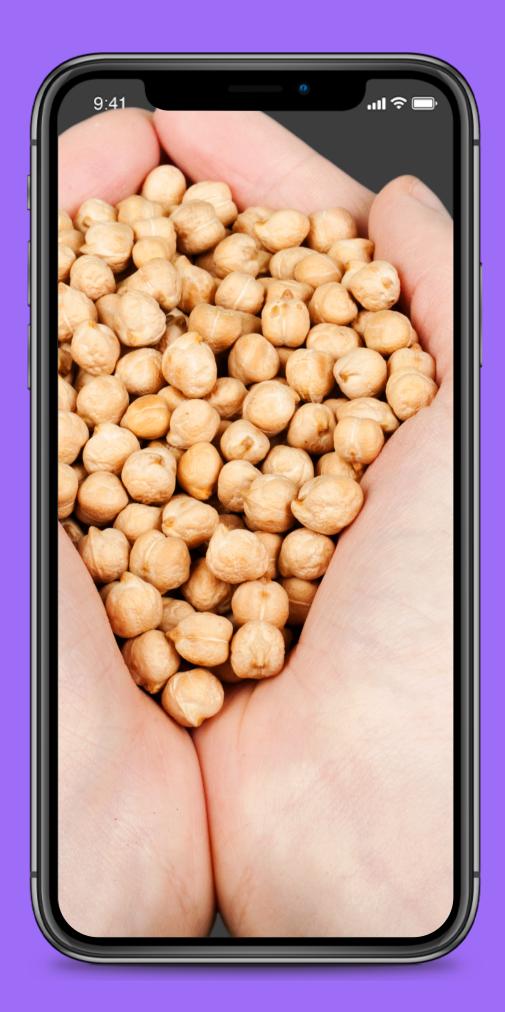




SOYBEAN

Common ingredient in infant formula Most children can outgrow soy allergy Rarely cause anaphylaxis,





OTHER FOOD ALLERGENS

CEREALS CONTAINING GLUTEN

A group of protein found in certain grains (wheat, rye, barley)



CELERY

Protein in the pollen trigger allergic reaction



MUSTARD

Condiment made from the seeds of a mustard plant

COLOUR AND FOOD ADDITIVES

Colour additive (e.g. FD&C Yellow No. 5 / tartrazine / E 102



SESAME Seed, oil, paste

SULPHITES

Food additive used as preservative



LUPIN

legume belonging to the same plant family as

peanuts





Unlabeled allergens presents a significant health hazard for foodallergic consumers!!!

INGREDIENTS

Water, Carrots, Onions, Red Lentils (4.5%) Potatoes, Cauliflower, Leeks, Peas, Cornflower, **Wheat**flour, Cream (**milk**), Yeast Extract, Concentrated Tomato Paste, Garlic, Sugar, **Celery** Seed, Sunflower Oil, Herb and Spice, White Pepper, Parsley

ALLERGY ADVICE

For allergens, see ingredients in **bold**





Method for allergen labelling

- In parentheses following the name of the ingredient.
 e.g: "lecithin (soy)," "flour (wheat)," and "whey (milk)"
- Immediately after or next to the list of ingredients in a "contains" statement.
 e.g: "Contains Wheat, Milk, and Soy.

Allergy Advice

Contains: Egg, Mustard

May contain: Nuts, Peanuts, Sesame Seeds, Celery, Wheat, Barley, Fish, Soybeans, Milk, Sulphites and Cereals containing Gluten.

12 Breaded mozzarella sticks.

Ingredients Mozzarella Cheese Filling (65%), Breadcrumb Coating, Batter. Mozzarella Cheese Filling contains: Mozzarella Cheese (Milk), Water, Dried Potato, Potato Starch, Stabiliser (Methyl Cellulose). Breadcrumb Coating contains: Breadcrumb, Intermediate Breadcrumb, Sunflower Oil, Batter, Water. Breadcrumb contains: Wheat Flour, Water, Yeast, Salt. Intermediate Breadcrumb contains: Wheat Flour, Water, Yeast, Salt, Sunflower Oil. Batter contains: Wheat Flour, Water, Yeast, Salt, Sunflower Oil. Batter contains: Wheat Flour, Wheat Starch, Cornflour, Rice Flour, Salt, Paprika, Dried Egg. Wheat Flour contains: Wheat Flour, Calcium Carbonate, Iron, Thiamin, Niacin.

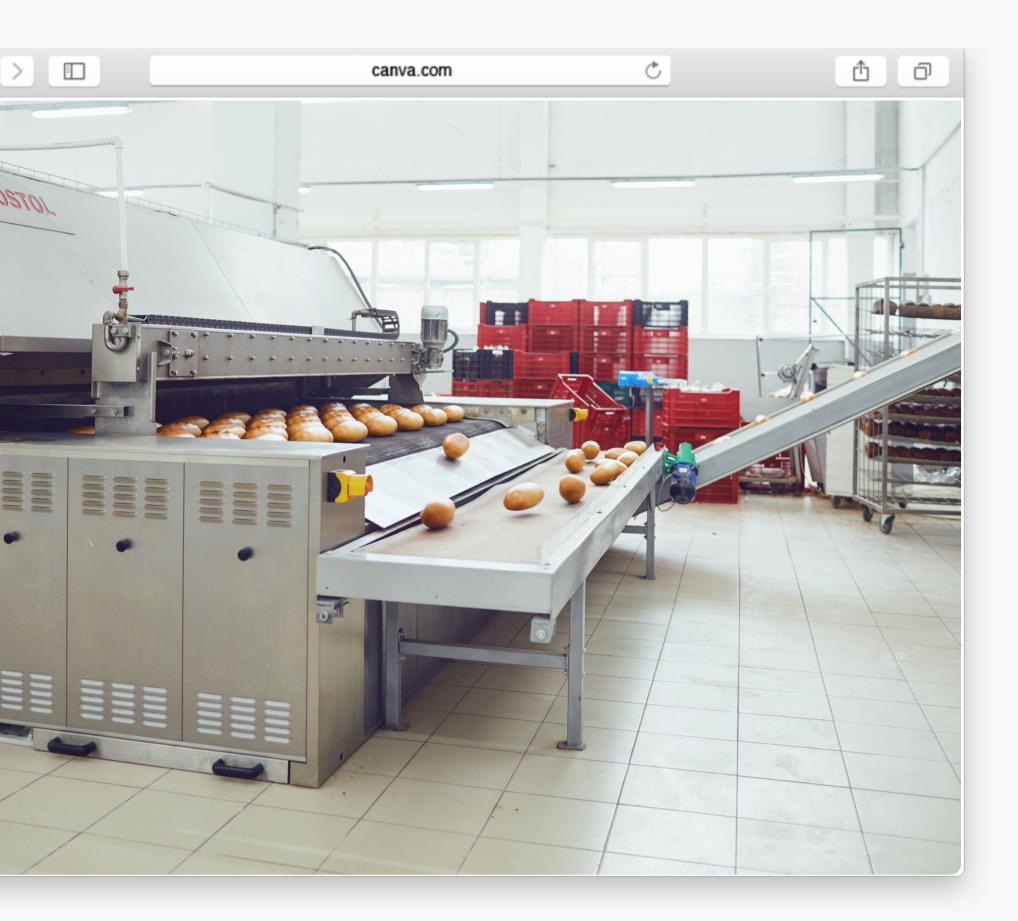
Allergy advice For allergens, including cereals containing gluten, see ingredients in **bold**. Also, may contain nuts.



REDISUES OF ALLERGENIC FOOD BECOME INCORPORATED INTO ANOTHER FOOD WHICH NOT **INTENDED TO CONTAIN IT**

Manufacturer can include an advisory statement on the food packaging to notify the consumer about the possible presence of the allergen

e.g "may contain [allergen]", "produced in a facility that also uses [allergen]



What is "cross-contact" ??





















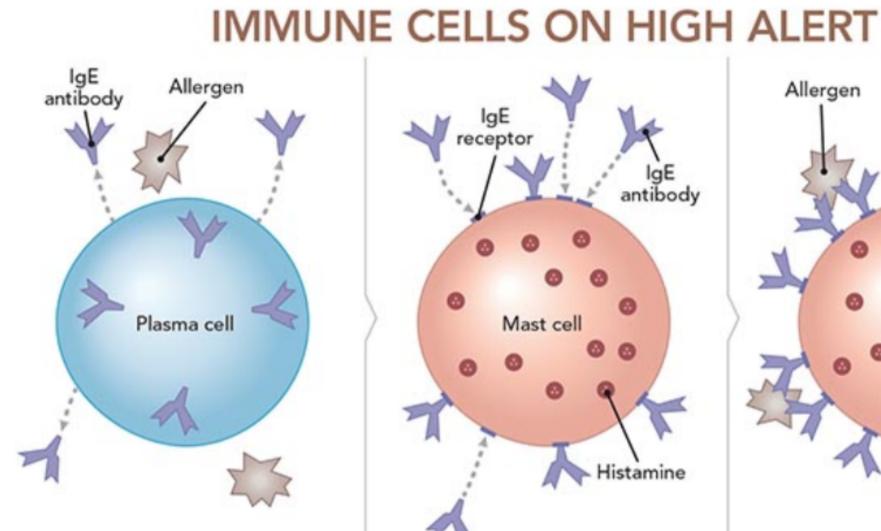
Anaphylaxis

Severe, potentially life-threatening allergic reaction & Require epinephane injection

- SUDDEN DROP IN
 BLOOD PRESSURE
- SUFFOCATION BY SWELLING OF THE THROAT
- NARROW AIRWAYS IN THE LUNGS

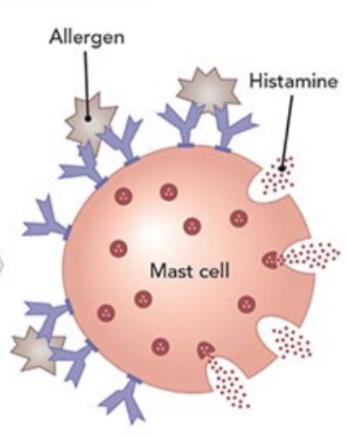


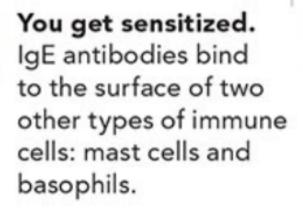
HOW DOES A FOOD ALLERGY WORKS?



You're exposed.

Immune cells called plasma cells (or B cells) release immunoglobulin E (IgE) antibodies after you eat an allergen.





You're exposed again...and react.

When an allergen binds to IgE on a mast cell, the cell releases histamine and other chemicals that cause allergy symptoms.

THANK YOU

