Tree Nut Allergies

What age group is affected by tree nut allergies?

For both children and adults, tree nut allergies are one of the most common food allergies affecting 0.5–1% of the people in the United States. Over 2% of infants and younger children are allergic to tree nuts. Tree nut allergies are usually a life-long allergy as only 10% of those who have it outgrow it.

What nuts should be avoided when a person has a tree nut allergy?

Typically, individuals with tree nut allergies are not just allergic to one type of tree nut, so State licensed healthcare professionals recommend avoiding all tree nuts and possibly peanuts (even though a peanut is a legume and not a nut). The following six tree nuts are the most reported tree nuts that cause allergies reactions: almond, cashew, hazelnut, pecans, pistachios, and walnuts. Other tree nuts that also cause allergic reactions are fall under this law include Brazil nuts, beechnut, butternut, chestnuts, chinquapin, coconut, filberts, ginkgo, hickory, lychee nut, macadamia nuts, pili nut, pine nuts, and shea nut. Disclosure on the food labels of all of these tree nuts is required by law.

What are the symptoms?

The most common symptoms of an allergic reaction to tree nuts include:

- Eczema
- Hives
- Itching of mouth, throat, eyes, skin, or other areas
- Asthma, shortness of breath
- Runny nose or nasal congestion
- Nausea
- Vomiting
- Digestive symptoms (abdominal pain, cramps, or diarrhea)

- Difficulty swallowing
- Anaphylaxis
 - Constriction of airways (swollen throat or a lump in the throat making breathing difficult)
 - Abdominal pain and cramping
 - Rapid pulse
 - Shock (a severe drop in blood pressure felt as dizziness, lightheadedness, or loss of consciousness)

Tree nuts tend to cause particularly severe allergic reactions, even if very small amounts are consumed. Many people are not aware of previous exposure or allergies to tree nuts when they have their first reaction.



What foods contain tree nuts?

There are many unexpected sources of tree nuts, so reading food labels is important to eliminate exposure to tree nuts. Tree nuts are often ingredients in prepared products and cuisines such as African, Chinese, Mexican, Thai, and Vietnamese. Natural extracts, such as almond or wintergreen extract, may contain tree nut protein. Tree nuts also can be found in household products, such as lotions and soaps.

Many items may not contain tree nuts but may be produced in a facility where tree nuts are used. As a result, cross-contact with tree nuts





may occur. Many snack foods may be produced in a facility where many different types of snack foods or varieties of a product (for example, cereal bars) are produced. Some of the varieties of that product may include tree nuts. A product that is labeled as being produced in a facility with tree nuts should not be consumed by an individual with a tree nut allergy.

Products or Ingredients with Tree Nuts

- All tree nuts (see next page for a full list of tree nuts)
- Artificial nuts and flavoring
- Baked goods
- Barbeque sauces
- Black walnut hull extract (flavoring)
- Breading for chicken
- Candies
- Energy bars
- Fish dishes
- Gianduja (a chocolate-nut mixture)
- Granola bars
- Honey
- Mandelonas (peanuts soaked in almond flavoring)
- Marinades
- Marzipan/almond paste
- Meat-free burgers
- Mortadella
- Natural nut extracts and flavorings (for example, almond, walnut)
- Nougat
- Nut butters (for example, cashew butter)
- Nut distillates/alcoholic extracts
- Nut meal
- Nut meat
- Nut milk (for example, almond milk, cashew milk)
- Nut oils (for example, walnut oil or almond oil)
- Nut paste (for example, almond paste)
- Pancakes, waffles
- Pasta
- Pesto

- Pie crust
- Praline
- Salads and salad dressing
- Walnut hull extract (flavoring)

Where are tree nuts located on food labels?

Food labels that are regulated by the U.S. Food and Drug Administration (FDA) follow the regulations of the Food Allergen Labeling and Consumer Protection Act (FALCPA). In 2021, the Food Allergy Safety, Treatment, Education, and Research Act (FASTER) added sesame as a major allergen. This law took effect on January 1, 2023. FALCPA requires that the major food allergens are listed on the label in one of three ways: (1) using the common name, (2) common name written in parenthesis after the ingredient, or (3) in a "contains" statement.

All FDA-regulated manufactured food products that contain a tree nut as an ingredient are required to list the specific tree nut on the product label. Child nutrition staff should look for the word "tree nut" or any of the following specific tree nuts listed:

- Almonds
- Beechnuts
- Brazil nuts
- Bush nuts
- Butternuts
- Cashews
- Chestnuts
- Chinquapin nuts
- Coconut
- Filberts
- Ginkgo nuts
- Hazelnuts
- Hickory nuts

- Lychee/lichee/litchi nuts
- Macadamia nuts
- Nangai nuts
- Nut pieces
- Pecans
- Pili nuts
- Pine nuts (pignoli, pignolia, pignon, pigñon, and pinyon nut)
- Pistachios
- Shea nuts
- Walnuts





For example, a cereal that contains tree nuts could be labeled in either of the ways shown in the following examples (bold is used for illustrative purposes only):

Label 1 Label 2 **INGREDIENTS: INGREDIENTS:** Whole grain oats Whole grain oats (includes oat bran), (includes oat bran), Sugar, Modified Sugar, Modified corn starch, Honey, corn starch, Honey, Brown sugar syrup, Brown sugar syrup, Salt, Tripotassium Salt, Tripotassium phosphate, Canola phosphate, Canola and/or rice bran oil, and/or rice bran oil, Natural almond flavor. Natural almond flavor (Almond). Contains: Almond

Labels should also be checked for warnings such as "may contain tree nuts," "produced on shared equipment with tree nuts," or "produced in a plant that uses tree nuts in other products." Foods with these advisory statements should be avoided as the product may contain a small amount of tree nuts through cross-contact. USDA-regulated foods, namely meat, poultry, and egg products are not required to follow FALCPA labeling regulations but may do so voluntarily. Only common or usual names of the ingredients are required to be identified on these labels.

All child nutrition staff should be trained to read product labels and recognize food allergens. Because food labels change from time to time, child nutrition staff should check labels for tree nuts and tree nut ingredients for every product each time it is received. The Centers for Disease Control and Prevention (CDC) recommends that labels be maintained for a minimum of 24 hours following every product served in case of a reaction. If the product is saved for later use as leftovers, the labels should be kept for 24 hours after all product has been used up or discarded.

What substitutes can be used for tree nuts in student meals?

When meal modifications for a student with food allergies are outside of the meal pattern. a medical statement from a State licensed healthcare professional or registered dietitian is required. A State licensed healthcare professional is defined as an individual authorized to write medical prescriptions under State law. Registered dietitians are allowed to submit medical statements for meal modifications for students with disabilities even if they do not have a State license. Refer to the manual Accommodating Children with Disabilities in the School Meal Programs; Guidance for School Foodservice Professionals on the USDA website for information on the required content of the medical statement. If there is uncertainty about the statement, or if it does not provide enough information, contact the household or State licensed healthcare professional or registered dietitian (as permitted by the family) for clarification.

However, clarification of the medical statement should not delay the child nutrition department from providing a meal modification. Child nutrition staff should follow the portion of the medical statement that is clear and unambiguous to the greatest extent possible while obtaining the additional information or amended statement.

When planning menus for children with tree nut allergies, consider current food choices offered to determine if a reimbursable meal can be selected from foods offered that do not contain tree nut protein. This approach will minimize the need to prepare special recipes or to make meal modifications. Child nutrition staff should always read labels carefully, even for foods that do not generally contain tree nuts. The following chart lists common menu items that may be used as safe alternatives to items that contain tree nuts.





Common Menu Items That May Contain Tree Nuts	Possible Substitutes or Alternatives That Do Not Typically Contain Tree Nuts*
Granola bars, cereal bars, and breakfast bars	Bars without tree nut proteins
Ready-to-eat cereals	Hot cereals and ready-to-eat cereals without tree nut proteins
Tree nut butters (for example, almond butter and cashew butter) and products including tree nut butters	Soy butter (check label for cross-contact), bean spreads such as hummus
Trail mix or snack mix	Trail mix without tree nuts; soy nuts
Baked goods (for example, breakfast breads, rolls, or cookies)	Breads, rolls, and cookies without tree nut proteins
Asian entrees	Entrees without tree nut proteins (for example, macaroni and cheese)

^{*}Always check the ingredient label to verify ingredients and check for potential cross-contact.

Common Questions

Should coconut be avoided by someone with tree nut allergies?

There is conflicting information about whether or not a person with a tree nut allergy should avoid coconut. Coconut has not been typically restricted for a person with tree nut allergies, but in 2006 the FDA began identifying coconut as a tree nut. There are some documented cases of coconut allergies, but most occurred in people without other tree nut allergies. Always try to get clarification from a State licensed healthcare professional.

Are nutmeg and water chestnuts safe for a person with tree nut allergies?

Yes. These foods are not tree nuts and are usually considered safe for a person with a tree nut allergy. Nutmeg is a seed, and water chestnut is a root.

Can a person with a tree nut allergy use oils made from tree nuts?

Tree nut oils are frequently less refined oils and may contain traces of tree nut protein. They are not usually considered safe for individuals with tree nut allergies.

Should a person with a tree nut allergy also avoid seeds such as sunflower, sesame, poppy, etc.? Seeds usually do not need to be avoided unless recommended by a State licensed healthcare professional or unless the person has an additional allergy to seeds.





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For More Information

Food Allergy Research & Education http://www.foodallergy.org

Institute of Child Nutrition http://www.theicn.org/foodsafety U.S. Food and Drug Administration

Food Allergens

https://www.fda.gov/food/food-ingredients-packaging/food-

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