

PATIENT INFORMATION

Allergies in Children

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You probably know a child who has asthma or allergies. Perhaps it is your own child. Asthma, hay fever, hives, and eczema are familiar words for most of us. In fact, in the United States, over 35 million adults and children have these allergy-related problems.

Allergies can be as minor as sneezing and itching. For some children, however, allergies can become very serious or even life-threatening. Whether minor or serious, allergies can be prevented and controlled. The more you understand about allergies and asthma - the better prepare you will be to improve the quality of life for your child.

What is an allergy?

An allergy occurs when the human body's natural defense system (the immune system) reacts to an otherwise harmless substance (like pollen). There are many ways in which an allergy can show itself:

- **Asthma** is when airways swell and air passages in the lungs become narrow. This may be triggered by an allergic reaction, although nonallergic triggers can be involved.
- **Allergic rhinitis** is an allergic reaction, mainly in the nasal passages. It can occur in one or more "seasons" (seasonal allergic rhinitis or "**hay-fever**") or all year long (perennial allergic rhinitis).
- **Eczema** (atopic dermatitis) is a chronic, itchy rash, mostly found in young children. It may be made worse by certain allergies.
- **Hives** (urticaria) are itchy welts that may be due to allergies, viral infections, or unknown causes. Certain foods, viral infections, and medications cause hives.
- **Contact dermatitis** can be just a skin irritation or an allergic reaction. The allergic type is an itchy skin rash caused by touching, rubbing, or coming into contact with things like poisoned ivy, chemicals, or household detergents.
- **Food allergy** is an allergic reaction to food that can range from stomachache, to skin rash, to a serious respiratory and medical emergency.

What causes allergies?

The causes of allergies are not fully understood. Children get allergies from coming into contact with allergens. Allergens can be inhaled, eaten, injected (from stings or medicine), or they can come into contact with the skin. Some of the more common allergens are:

- Pollens
- Molds
- House dust mites
- Animal dander and saliva (cat, dog, horse, rabbit)
- Some foods and medicines
- Venom from insect stings

The tendency to have allergies is often passed on in families. If a parent has an allergy problem, there is a higher than normal chance that his or her child will also have an allergy.

How can I tell an allergy from a cold?

The symptoms from an allergy include:

- An itchy runny nose, with thin, clear nasal discharge, and/or a stuffy nose.
- Itchy watery eyes.
- Repeat attacks of sneezing and itching of the nose, eyes, or skin that last for weeks or months
- No fever.
- Often seasonal (spring, summer, fall before frost).

Cold symptoms include:

- Stuffy nose.
- Nasal discharge, that is usually clear initially, that can turn colored and a thick.
- A duration of three to 10 days, with or without fever.
- Occasional sneezing.
- Absence of itching.

When do allergies and children first show up?

A few children show signs of allergic reactions during infancy. Other children experience their first problems during adolescence. The first signs of eczema often occur in the first few years of life. Children with asthma and hay fever usually start to show signs during preschool or at least by early grade school. For some children, allergies lessen around the time of puberty. Others will continue to have problems into adult years.

Do drug treatments help?

There are many good medicines to treat allergies and asthma. Some, like antihistamines, are available over-the-counter. They may help to relieve many of the symptoms of hay fever and eczema, especially itching, sneezing, and runny nose. Other kinds of medications are prescribed. Some antihistamines may cause sleepiness, sometimes interfering with mental tasks. Decongestants (like pseudoephedrine) and oral asthma medications (like albuterol) may make it your child irritable. Before using any medication, you should talk to your pediatrician and carefully read the warnings listed on the label. If any of these medications failed to relieve the symptoms, or its side effects interfere with rest, school, or play, your child may need a different medication or dose.

When does my child need to see an allergist?

In some cases, avoiding the cause of the allergy or using medicines may not control allergic symptoms. If this happens, your pediatrician may recommend that you see a *pediatric allergist*, a doctor who specializes in hay fever, asthma, eczema, and other allergy-related diseases.

Allergy shots may be recommended. These shots contain a small, but gradually increasing amounts of the substance to which your child is allergic. This binds to the antibodies that caused the allergic symptoms. So your child is less sensitive to these substances. Allergy shots are not effective for food allergies. Staying away from the substance that causes the trouble is best. Only a small number of children require allergy shots.

How can I help my child?

If you know your child has an allergy, you can try to prevent a problem with the following measures:

- Keeping windows closed during the pollen season, especially on windy days when dust and pollen blow around, and in the morning when some pollen counts are highest.
- Keeping the house clean and dry to reduce mold and dust mites.

- Keeping the household free of pets and indoor plants.
- Avoiding foods or other substances known to cause allergic reactions in your child.
- Preventing anyone from smoking anywhere near your child, especially in your home, and/or car.

Milk allergy.

Everyone has heard of children who are allergic to ordinary cow's milk. However, a milk allergy is rare. Only 1 child in 100 is truly allergic to cow's milk.

If you suspect your baby has a milk allergy, talk to your pediatrician. Be sure to mention if there is a family history of allergy. Contact your pediatrician or go to the emergency room **right away** if your child:

- Has difficulty with breathing
- Turns blue
- Is pale or weak
- Has swelling in the head and neck area
- Has bloody diarrhea

The best way to prevent a milk allergy is to breast-feed your baby for as long as possible. Very few breast-fed babies develop milk allergy. This is especially important if anyone in the immediate family is allergy-prone. When you introduce other foods to your baby, do it gradually (a new one at one-or two-week intervals). Begin only after your infant reaches four months of age and watch for signs of allergies. There are formulas that are milk free or lactose free.

Condition	Triggers	Symptoms
Asthma	A wide range of things can trigger an asthma attack. These include cigarette smoke, viral infections, pollen, dust mites, furry animals, cold air, changing weather conditions, exercise, and even stress.	Coughing, wheezing, difficulty breathing; coughing with activity or exertion; chest tightness.
Hay fever	Pollen from trees, grasses, or weeds.	Stuffy nose, sneezing, and a runny nose; breathing through the mouth, because a stuffy nose; rubbing or wrinkling of the nose and facial grimacing, to relieve nasal itch; watery, itchy eyes, redness or swelling in and under the eyes.
Food allergies	The most common are eggs, peanuts, nuts, soy, fish, wheat, peas, and shellfish.	Vomiting, diarrhea, hives, eczema, difficult breathing, and possibly a drop in blood pressure (shock).
Eczema. (Atopic dermatitis)	Sometimes made worse by food allergies, contact with allergens (pollen, dust mites, furry animals), irritants, sweating.	A patchy, dry, red, itchy rash that often occurs in the creases of the arms, legs, and neck; however, in infants. It often starts on the cheeks, behind the ears, and on the thighs.
Hives	Viral infections, food allergies, and drugs (such as aspirin, penicillin, or sold for), but the cause is often unknown	Itchy, mosquito-bite-like skin patches that are more red or pale than the surrounding skin. Hives

		may be found on different parts of the body and do not stay at the same spot for more than a few hours.
Contact dermatitis	Contact with a plant substance such as poison ivy or oak, household detergents and cleansers, and chemicals in some cosmetics and perfumes.	Itchy, red, raised patches that may blister, if severe. Most of these patches are confined to the areas of direct contact with the allergen.