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Latex Sensitivity Reactions

There are three main types of latex sensitivity reactions.

Irritant contact dermatitis (non-allergic or non-immune) has a gradual onset, taking days, and is caused by additives used in the latex glove manufacturing such as "rubber accelerators." Symptoms can include redness, cracks, fissures, and scaling.

Allergic contact dermatitis begins 6 to 48 hours after contact. Symptoms, which are also caused by the rubber accelerators and chemical additives, include redness, tiny blisters, itching, crusting and sometimes blisters. This can resemble the reaction to poison ivy or poison oak. Approximately 80 percent of allergic reactions are this type.

The third type of reaction is immediate hypersensitivity, or "IgE mediated" reaction, which is caused by the natural latex proteins found in rubber. It starts within minutes and rarely lasts longer than 2 hours. Early symptoms are usually itching and burning on the hands and a runny nose. More severe symptoms include hives on the body, light-headedness, swelling of the lips or eyelids, nausea, vomiting, abdominal cramps, , wheezing, and anaphylactic shock. It is possible to have used latex for years without problems and suddenly progress to systemic symptoms. Anaphylactic reactions to latex have occurred in people who have previously experienced only mild hand rashes from latex.

FDA-approved lab tests to measure latex allergy are available. Perhaps 6% of the population has a tendency to develop allergy to latex according to lab tests, but only about 1.5% actually develops it. These tests are limited because a positive result does not always prove or disprove latex allergy. Tests include the Pharmacia CAP and the AlaSTAT tests. A negative lab test despite a strong positive history of allergic sensitivity would need a skin prick test to confirm the diagnosis. People heavily exposed to latex are much more likely to become allergic.

Because latex is a natural product of the rubber tree, many other fruits in this family of plants will have similar proteins. These proteins are so similar that the immune system recognizes these as latex proteins and then responds to it. The most common cross-reactivity has been found between latex and such foods as banana, avocado, chestnut, passion fruit, kiwi fruit, potatoes, and tomatoes, all of which have been found to be chemically ("antigenically") similar to latex.

Products That Contain Latex

Medical Products:

Adhesive tape
Ambu bags
Blood pressure cuffs
Bulb syringes
Crutches (arm and hand pads)
Electrocardiogram electrode pads
Elastic bandages
Electrode pads
Endotracheal tube
Face masks, straps

Gloves

Mattresses on stretchers

Nasopharyngeal and oropharyngeal airway tubes

Reservoir breathing bags

Rubber syringe stoppers

Stethoscope tubing

Teeth protectors

Tourniquets

Tympanometers

Urinary catheters

Ventilator bellows and hoses

Wheelchair tires, cushions

Wound drains

Household and Personal Items:

Automobile tires

Bath mats

Buttons on electronic equipment

Carpet backing and pads

Computer mouse pads

Condoms

Contraceptive sponges

Diaphragms

Dishwashing gloves

Foam rubber Hot water bottles

Pencil erasers

Rubber bands

Rubber cements

Infant and Child Items:

Balloons

Bottle nipples

Elastic in clothing and disposable diapers

Halloween masks

Infant pacifiers

Rubber balls

Rubber toys

Sports Items:

Athletic shoe soles

Rubber boats

Scuba face masks

Sports racquet handles

Swimming caps and goggles

Foods that Commonly Cross-React with Latex:

Avocados

Bananas

Chestnuts

Kiwi

Passion fruit

Potatoes

Tomatoes

Other Foods that can Cross-React with Latex:

Apples

Apricots

Celery

Cherries

Figs

Grapes

Melons

Milk

Papayas

Peaches

Pineapples

Questionnaire to determine Latex Sensitivity:

Allergies

- 1. Do you have a history of hay fever, eczema, asthma, hives, rashes, or allergic reactions to certain drugs?
- 2. Do you have a history of allergic reactions (rash, swelling, oral itching or wheezing) after eating certain foods such as bananas, avocados, kiwis or chestnuts?

Occupationally related symptoms

- 3. Have you ever had an allergic response to something in your work environment?
- 4. Are you exposed to any latex-containing products at work?
- 5. Have you ever developed a rash on your hands after wearing latex gloves? If so, how long after wearing the gloves did the rash develop, and what did the rash look like?

Risk factors for latex allergy

- 6. Do you have spina bifida or urinary tract problems requiring frequent catheterizations?
- 7. Have you ever had an operation? If so, how many?
- 8. Have you ever worked in an environment with latex products?

Hidden reactions to latex

- 9. Have you ever had a rash, swelling, shortness of breath, itching, cough, wheezing, or itchy eyes while wearing household gloves, blowing up a balloon, using a condom or diaphragms, or after a rectal or vaginal examination?
- 10. Have you ever had an allergic reaction without a known cause, especially during surgery, hospitalization, or dental procedure?