Patient Information for Allergic contact dermatitis

Overview

Allergic contact dermatitis is a delayed hypersensitivity reaction (the reaction to the allergen occurs 48–72 hours after exposure). The most common allergens causing allergic contact dermatitis often change with time, as certain chemicals come in or out of use in the manufacture of products that come in contact with the skin. Most recently, common causes of allergic contact dermatitis include nickel, chromates, rubber chemicals, and topical antibiotic ointments and creams. Frequent sensitizers in the general population also include fragrance, formaldehyde, lanolin (wool grease found in ointments and cosmetics), and a host of other common environmental chemicals.

- Nickel is found in jewelry, belt buckles, metal closures on clothing, and some cell phones.
- Chromates are used in the process of tanning leather for shoes and in cement, so they can affect construction workers who are in contact with cement.
- Rubber chemicals are found in gloves, balloons, elastic in garments, mouse pads, and swim goggles.
- Neomycin is common in triple antibiotic first aid ointments such as Neosporin (and
 generic versions of Neosporin) as well as other combination preparations with other
 antibacterials (eg, Polysporin). It may also be found in eye preparations and eardrops.
 Bacitracin is a common ingredient in antibiotic ointments and creams and can cause
 allergic contact dermatitis as well.
- Common allergen-containing products include sunscreens (oxybenzone [benzophenone-3]), cosmetics, soaps, dyes, and jewelry.
- Poison ivy is a frequent cause and is discussed separately.

Who's At Risk

Allergic contact dermatitis can occur at any age in people of all ethnic backgrounds. Individuals with a skin condition (such as stasis dermatitis, otitis externa, or pruritus ani) requiring frequent application of topical agents can develop allergic contact dermatitis over time.

Signs & Symptoms

Allergic contact dermatitis may occur on any location of the body.

- Scaly red to pink areas of elevated skin (papules and plaques) and blisters (vesicles) may be seen. Individual lesions have distinct borders and often have a geometric shape with straight edges and sharp angles.
- Eyelid swelling is frequently seen when the allergen is unknowingly transferred from finger to lid. Affected areas are typically severely itchy.
- When the dermatitis is long-standing, the areas of elevation become thick and secondary bacterial infection is possible.

Self-Care Guidelines

- Avoid the offending agent.
- It may be helpful to avoid common triggers, such as fragrance, lanolin, nickel, etc.
- 1% over-the-counter hydrocortisone cream can be helpful in very mild cases. Topical (applied to the skin) antihistamines should be avoided.

When to Seek Medical Care

Seek medical evaluation for a persistent or recurrent rash of unknown origin. Your physician may perform patch testing to evaluate for potential contact allergies. Skin biopsy is sometimes used to confirm diagnosis.

Treatments Your Physician May Prescribe

Treatment is aimed at preventing contact with the allergen.

- Symptomatic control of itching may include oral antihistamines.
- Medium- and high-potency topical steroids may be prescribed for rashes occurring on the extremities or trunk.
- Mild-potency topical steroids may be prescribed for thinner skin on the face and skin fold areas.
- In severe cases involving large body areas, a course of an oral steroid (prednisone) may be prescribed.