

Multidisciplinary Atopic Dermatitis Program (MADP) Clinic

Allergic March

- Eczema is not just a rash it can have long-lasting effects
- Many patients with eczema will go on to develop allergies
 - This is what doctors refer to as the allergic march
 - If eczema or allergies aren't treated, it can lead to sensitization
- This includes food allergies, environmental allergies (i.e. hay fever), and asthma

Dry Skin

Begins at birth

Eczema/Atopic Dermatitis

First few weeks or months of life

Food Allergies

First few months or first few years of life

Nasal Allergies

Around 2-4 years of life

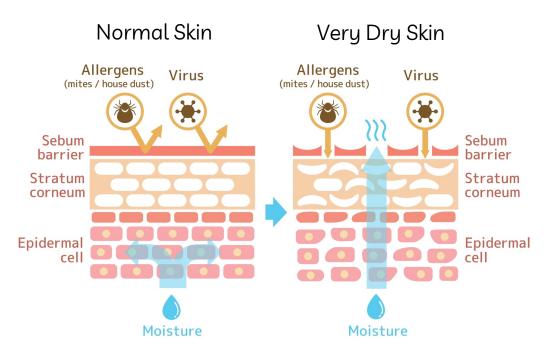
Asthma/Rhinitis

First few years of life

Allergies develop more commonly in people with eczema



- Many children with eczema may develop asthma and/or environmental allergies later in childhood
- Allergies play a role in eczema
 - Allergens can enter broken barrier more easily and activate immune system
- Important to manage allergies
 - Avoid allergens and minimize allergic reactions
 - Understand relation to eczema care
 - Cool inflammation with proper treatment



Patients with eczema have dry skin





Allergies and Eczema: Always Related?

Eczema is a big risk factor for allergies

However:

- Some allergic reactions don't influence eczema (and vice versa)
- Eczema flares may not be related to allergies
- After age 4, eczema-driven allergies more likely due to environment allergens





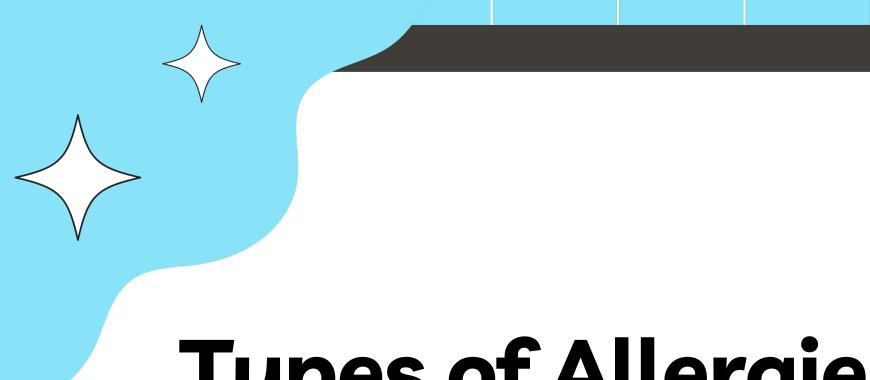
- Positive Test = Sensitization
 - Sensitization body becomes sensitized to a particular substance
 - Does not necessarily lead to symptoms
 - Skin prick and blood testing may not be positive
- Positive Test ≠ True Allergy
 - Body reacts whenever we ingest food or are exposed to environment
 - Can have positive test to something you're not allergic to

True Allergy

- Produces symptom whenever exposed/ingested
- Positive test AND allergic reaction when exposed







Types of Allergies

Food Allergies

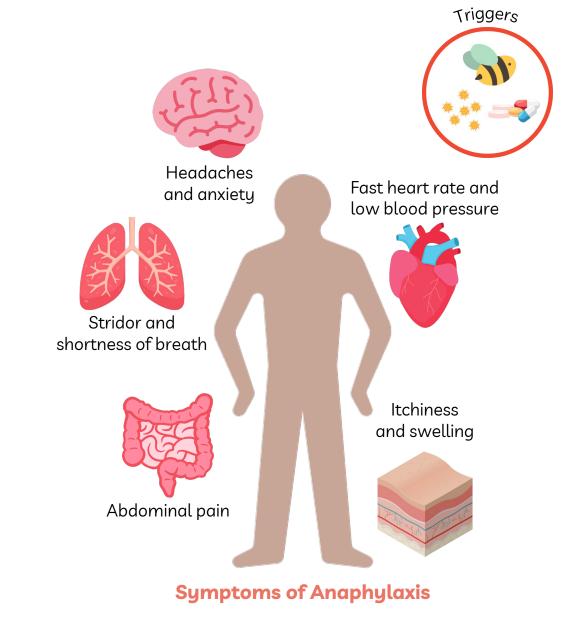
- Infants with history of moderate to severe eczema at higher risk
- Early food introduction may prevent allergies
- Most common food allergens
 - Eggs, peanut, tree nuts, milk, soy, fish, shellfish, sesame, and wheat
- Symptoms
 - Rash, swelling, vomiting, and trouble breathing
 - Range from mild to life-threatening
 - Generally occur immediately after eating





Anaphylaxis

- Immediate medical attention needed
- Serious form of allergic reaction
- Whole-body allergic response
 - Leads to worsening of symptoms
 - Hives, swelling, difficulty breathing, nausea/vomiting





- Body's immune response to surroundings
 - Dust mites
 - Animal dander (cat, dog)
 - Grasses, trees, weed pollens
- Increased exposure to environmental allergens may worsen eczema symptoms



Other Environmental Allergies

- Smoking
- Pollution
- Wildfires







 Exposure may trigger eczema flares and exacerbate patients' allergies and skin condition





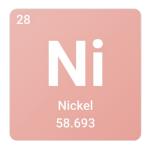
Allergic Contact Dermatitis

- Children with eczema have higher risk of developing allergic contact dermatitis
- Allergic reaction may occur when skin comes in contact with objects
 - Chemicals, metals, some medications

Many times, the rash will be in localized areas



Plants



Nickel



Occupational Irritants



Cosmetics and Perfumes



Topical Medications

How Are Allergies Diagnosed?

- Patient history
- Skin testing
- Lab blood draws

Remember: Positive testing does not always mean it is a true allergy



Test for food and environmental allergies if you have moderate to severe eczema



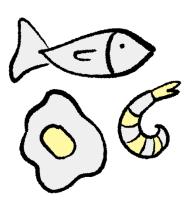
Types of Testing





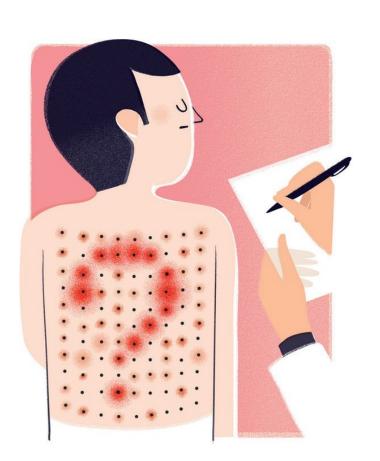
Testing

- No single test is perfect in accurately diagnosing food or environmental allergies
- Testing may include
 - Skin prick testing
 - Specific IgE testing (blood)
 - Food challenges (in office)
 - Patch testing



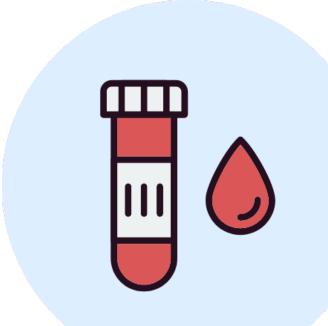


- Small, plastic applicators with individual allergens scratched on back
 - For example, common environmental or food substances
- Wait 20 minutes for body to react
- Positive reaction occurs when a wheal forms
 - Wheal: An itchy bump surrounded by red rash
- May suggest allergies; positive test alone does not definitely mean allergy





- Blood test
- Used to assess if body made antibodies against specific allergens
 - Food or environmental
- Positive test alone does not mean allergy







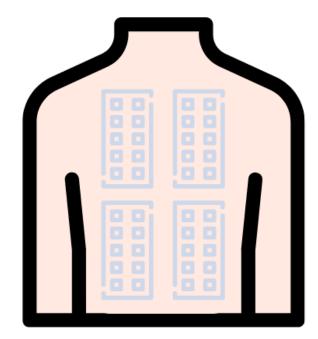
Oral Food Challenges

- Conducted under strict medical supervision
- Patient fed tiny amounts of suspected food trigger
 - Dose increases over time
 - Carefully monitored by medical staff for reaction
- When useful:
 - Patient history unclear
 - Skin/blood tests inconclusive
 - Determine if allergy outgrown





- Used to test for contact allergic reactions
 - Latex, medication, fragrance, hair dye, metals
- Adhesive patches with individual allergens placed on back
- Patches stay attached for total of 3 days
 - Placed on Monday, removed and checked on Wednesday, re-checked on Friday
 - Positive reaction: redness with bumps or blister from allergen



Can be helpful in suggesting contact allergies contributing to eczema

Understanding a Positive Patch Test

- A positive test may just be a positive test or may be clinically important
- May not be relevant in terms of eczema unless:
 - Has been exposed to chemical in past
 - Reaction occurs at location of chemical contact
 - Exposure causes signs and symptoms of eczema
- Keep in mind what causes flares at home or work this will help with testing

Types of Treatment

Antihistamines

Examples:

Zyrtec (cetirizine)

Benadryl (diphenhydramine)

Atarax (hydroxyzine)

- Used to help allergies, like hay fever, itchy eyes, and hives
 - Does not directly address itching caused by eczema
 - While commonly prescribed, they are of limited help for eczema associated itching
- Some can make people sleepy (sometimes taken to help with sleep)

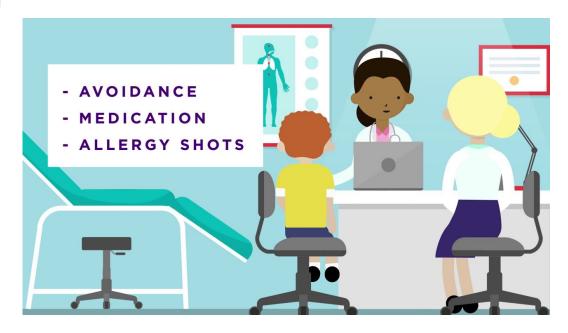




Beneficial for those with allergies and eczema

Treatment for Environmental Allergies

- Environmental control: avoiding known triggers
- Medications for symptom relief
- Immunotherapy
 - Allergy shots and tablets
 - Gradual exposure to increasing amounts of allergen
 - Retrains immune system







Treatment for Food Allergies

- Avoid triggers
- Epinephrine for anaphylaxis
 - Anaphylaxis Plan
 - Preventing, recognizing, and managing food allergies
 - Copy of allergies given to school
 - Keep 2 self-administered epinephrines with you at all times – one twin pack at school, one twin pack at home
- Oral immunotherapy
 - Gradually increasing amounts of food allergen under medical supervision over time







Treatment for Allergic Contact Dermatitis

- Avoid substance that causes reaction
 - Use alternative products
- Topical steroids and/or antihistamines
 - As needed for symptom relief
- Severe cases
 - Prescribed course of oral steroids





What Does This All Mean?

- Eczema patients frequently develop allergic disease
- Young children with moderate to severe eczema should consider food allergy evaluation
 - When helpful
 - Reactions to food in the past
 - Eczema persists despite good topical therapy
- Environmental allergies can be related to eczema flares and are important to be aware of
- Allergy counseling/testing may help identify triggers for eczema or allergies unrelated but important to recognize







Summary

- Goal
 - Minimal eczema rashes
 - Less itch
 - Undisturbed sleep from itching or scratching

- Reach goal by
 - Using good skin care
 - Avoiding triggers
 - Using medicines regularly or as needed

- Many ways to treat and control eczema
- Read more about eczema
 - www.nationaleczema.org
 - Search "Rady" and "Eczema"
 - https://www.rchsd.org/programs-services/dermatology/eczema-and-inflammatory-skin-disease-center

Eczema is complicated. Please reach out if you have any questions ©

