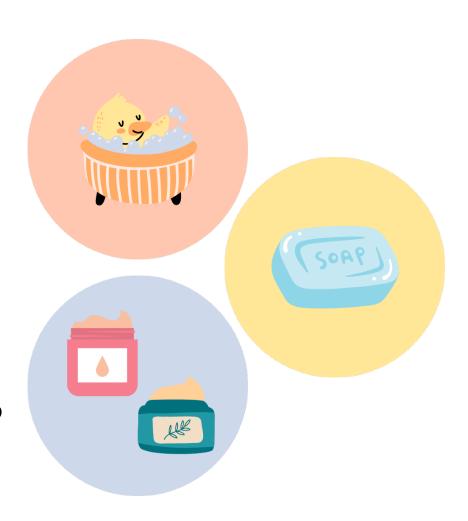
Skin Care and Topicals

Multidisciplinary Atopic Dermatitis Program (MADP) Clinic

Skin Care



- Most experts recommend daily or every other day
 - Baths should last for 5 to 10 minutes
 - Bathe with warm water
- Avoid bathing with harsh soaps
- Apply topical medications (if applicable) prior to moisturizer after bathing







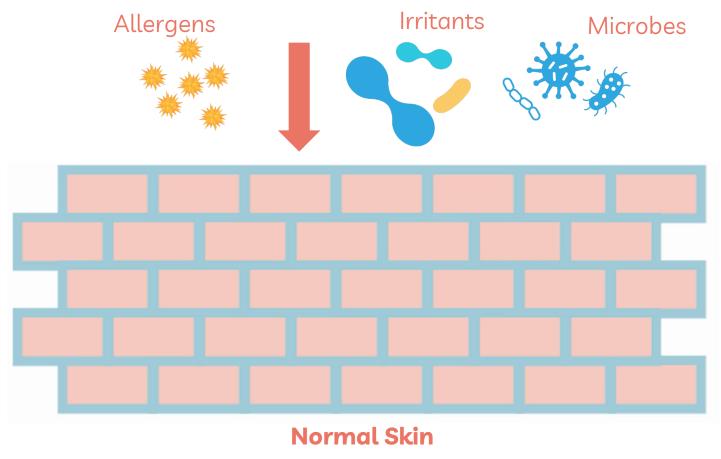
Moisturizers

- Best first line therapy to keep eczema under control
- Frequent use of moisturizer is essential to improve and maintain skin condition
 - Apply 2x a day



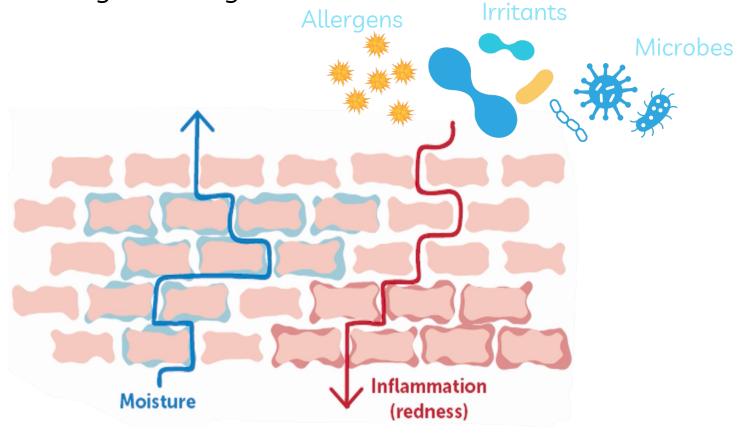


- Our skin provides a barrier that helps control temperature and hydration
- Helps stop allergens, irritants, and microbes from getting through skin



• In people with eczema, the skin barrier does not work as well

Skin tends to be dry and itchy

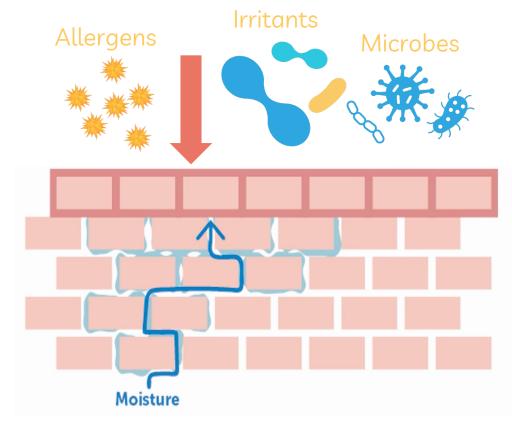


Eczema Skin



Moisturizers

- Moisturizers fill the gaps between the cells
 - This reduces water loss from the skin and increases hydration
- Helps reduce water loss, improve dryness, decrease itch and protect skin from things that make eczema worse
 - (Allergens, irritants, and microbes)



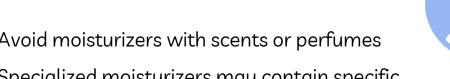
Well-Managed Eczema Skin



Moisturizers

- Not all moisturizers are as good at hydrating
 - Ointments generally work best
 - Thicker moisturizers better than thinner ones

- Avoid moisturizers with scents or perfumes
- Specialized moisturizers may contain specific products or ingredients that are helpful to individuals, ie ceramides









Lotion (water based)

- **Least** hydration
- Easy to rub in

Cream (oil based)

In between; moderate

Ointment (oil based)

- **Best** hydration
- Slowest to absorb

Thickest Thinnest

Wet Wrap Therapy



- Rehydrates and calms skin
- Helps topical medication work better
- Once a day until flare calmed
 - Best left overnight and removed day after



- Soak/wet skin
- Apply topical medication to affected skin



- Dampen gauze in warm water
- Wrap wet gauze around affected area

Materials

- Topical medication
- Gauze
- Bowl with warm water
- Surgical netting, sock with ends cut, or "Coban" self-adhesive wrap



 Grab dry gauze, wrap a second layer on top



- Cover gauze layers
 with surgical
 netting/socks/"Coban"
- Leave overnight or several hours



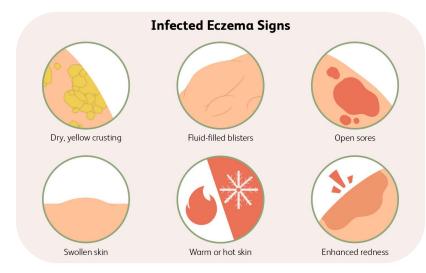


Skin Infections and Eczema

- Bacterial infections
 - Most often from Staph
 - Antibiotics to treat infection
 - Oral antibiotics for severe infections
- Topical antibiotics for localized infections
 - Work differently from topical steroids, usually used together
- Viral infections
 - Most often eczema herpeticum
 - Antivirals to treat infection
 - acyclovir, valcyclovir

 Bleach baths recommended as preventative measure for recurrent bacterial infections







Bleach Baths

- Add bleach to water
 - Full tub: ½ cup bleach
 - Half tub: 1/4 cup bleach
- Soak for 10 minutes
- Rinse with fresh water, gently pat dry
- Apply topical medication to affected areas
- Apply moisturizer to entire body

Medical provider will let you know how often to have bleach baths

Spray Bottle Method

- In spray bottle:
 - Ratio: 1 teaspoon bleach to ~1/2 gallon water
- Spray all affected areas in shower
- Leave on for several minutes
- Rinse with fresh water, gently pat dry
- Apply topical medication to affected areas
- Apply moisturizer to entire body







Topical Steroids

- Medicine cream or ointment
 - Standard for treating inflammation
 - Used when moisturizers not strong enough

Inflammation

- Red, bumpy, oozy, or flaky skin
- Range from weak to strong types of topical steroids
- Follow instructions from medical provider for safe and proper use

Directions

- Once to twice every day
- Apply on skin inflammation
- Ask medical provider how much medicine to place



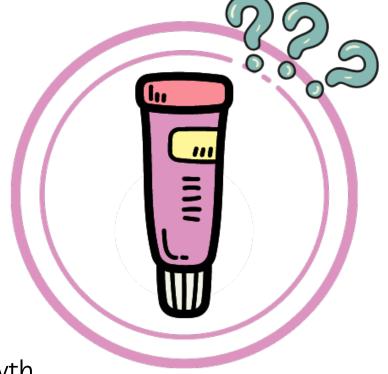
Commonly Used Topical Steroids

| Class and Potency | Drug Name, Concentration (Vehicle) | |
|------------------------|---|--|
| Class 1 – Very Potent | Clobetasol, 0.05% (ointment, cream, gel, solution) | |
| Class 2 - Potent | Fluocinonide, 0.05% (ointment, cream, gel, solution) Mometasone, 0.1% (ointment) Betamethasone, 0.05% (cream, foam, ointment, solution) | |
| Class 3-5 - Medium | Triamcinolone, 0.1% (cream, ointment) | |
| Class 6 – Low | Fluocinolone, 0.01% (oil)Desonide, 0.05% (ointment, cream, foam) | |
| Class 7 – Least Potent | • Hydrocortisone, 1%, 2.5% (cream, ointment) | |

Possible Side Effects

- Skin thinning* and stretch marks
- Slow growth?
 - Only if steroids are taken as a pill
 - Very rare if steroid is taken as a topical





* See next slide



Topical Steroid Safety

- Skin thinning is a very rare side effect
- Should not occur unless
 - Highly potent topical used on clear skin over long period of time
 - Moderately potent topical used on sensitive area
 - Face armpits, groin
 - Use weaker topical instead, shorter time period



- Continue using topical steroid until skin is clear or as directed by your medical provider
 - Generously apply to affected/inflamed area



Non-Steroid Topical Medication

- Also helps decrease inflammation
- May be used on any skin surface
 - Especially used for sensitive areas
 - Face and skin folds (groin, armpits, knee and arm fold)

- Used to control eczema during frequent breakouts
- May be used "proactively" or as "preventative therapy" for frequently flaring areas
- Application may cause slight burning and stinging
 - Typically resolves after first couple uses

| Topical Calcineurin Inhibitors | Topical Phosphodiesterase- 4 Inhibitors | Topical JAK Inhibitors |
|--|--|---|
| Tacrolimus ointment 0.03%, 0.1% (Protopic) Pimecrolimus cream 1% (Elidel) | Crisaborole ointment (Eucrisa) | Ruxolitinib cream 1.5% (Opzelura) |

JAK Inhibitor

Ruxolitinib



- FDA approved for adults and +12 years
 - September 2021
 - Phase 3: 2 to < 12 years

Clinical Trials

- Higher score of clear to almost clear after 8 weeks of continuous use
- 75% improvement from start of trial
- Reduction of itch as early as 12 hours within use; improved nighttime itch

- JAK1 and JAK2 inhibitor
- Topical cream, apply thin film on affected area twice daily
 - Up to 8 weeks continuous use
- May use on delicate/thinner skin
 - Face, eyelids, genitals, and skin folds

Limitations of Use

 Should not be used for more than 20% body surface area



Black Box Warning

JAK Inhibitors

Black Box Warning

- FDA required for medication with serious safety risks
 - Cancer, major cardiac events, serious infections, blood clots
 - Actual rates are same or marginally higher than not being on the drug
- Based on studies in patients with rheumatoid arthritis on alternative JAK inhibitor not used in eczema
 - Older population (> 65 years) may have already had risk factors or other comorbidities
 - History of CAD, HTN, smoking increased risk of adverse events

Black Box Warning

Tacrolimus and Pimecrolimus



Black Box Warning

- FDA required for medication with serious safety risks
- Based on data from oral use in transplant patients
 - Oral tacrolimus, when used as a transplant drug, increase risk for skin cancer, lymphoma and other adverse events
- Reports from older population (> 55 years) of adverse events
 - May have already had risk factors associated with cancers





Long-Term Eczema Control

- Mix and match topical therapies
 - Topical steroid + non-steroid cream/ointment
 - Safe combination to minimize and prevent rash
- Proactive treatment
 - Focus on "hot spots" to control eczema
 - For example: Applying steroid or non-steroid 2-3 times a week



- 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 ©