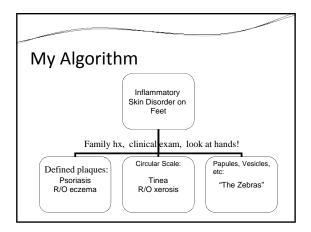
Inflammatory Skin Disorders: Differential Diagnosis and Management

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Questions to ask...

- Do you or your family have a history of?...
 - Allergic rhinitis, "Sensitive" skin, Asthma
 - Skin Cancer
- Have you ever seen a dermatologist?
- Has your skin ever been biopsied?
 - A skin scrape DOES NOT COUNT!!!!

More Questions to ask...

- What colored socks do you wear?
- Occupation/hazards?
- What have you used OTC or homeopathic?
- What is the first lesion to appear, and what is the newest lesion to appear on your skin?

Skin Signs of Inflammation

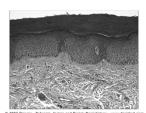
- Calor heat
- *Rubor* redness
- *Tumor* swelling
- Pruritus itching



= Skin Barrier Dysfunction

Skin Barrier: Definition

- Stratum corneum forms the "skin barrier"
 - Corneocytes filled with keratin
 - Extracellular matrix lipid enriched
- Protective wall
 - Regulates homeostasis TEWL
 - Prevents the entry of foreign particles and pathogens into the body



Epidermis in Palm/Sole

Palms and Soles unique skin characteristics

- Variations in intercellular lipid content & membrane structure provide basis for variation in permeability (soles vs face)
- Palms & soles contain a much smaller proportion of lipids = poorer barrier function
- Number of desmosomes stays constant through all layers of soles & palm. In other skin, increased number in deeper layers which decrease in the superficial layer (20% of deeper layers)

Barrier Function Disruptions

- Peri-wound Skin
- Eczema
- Psoriasis
- Venous Stasis Dermatitis
- Diabetic Skin Issues



Common Podiatric Skin Conditions associated skin barrier dysfunction

- Xerosis
- Wet to dry foot syndrome
- Hyperkeratosis
- Psoriasis
- Eczema/dermatitis
- Lichen planus
- Atopic dermatitis
- Contact dermatitis
- Lichen simplex chronicus Stasis
- Dyshidrotic eczema
- edema/dermatitis/ulcer
- Dermatophyte infection

= Skin Barrier Dysfunction



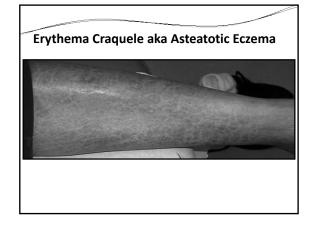
Dry Skin asteatotic/xerotic eczema

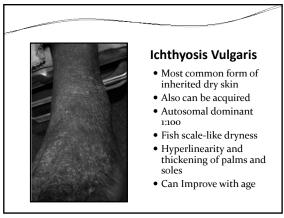
- "Winter itch"- worse in winter and dry climates
- Decreased humidity

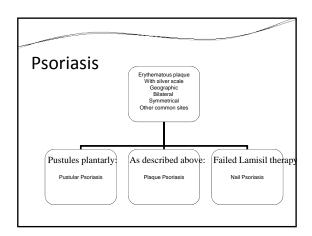
- Decreased humidity
 Frequently misdiagnosed as "ring worm" (tinea corporis)
 Commonly located lateral aspect of the leg
 Pruritic, erythematous scaling annular patches



Cracked Heels (keratoderma climacterum)

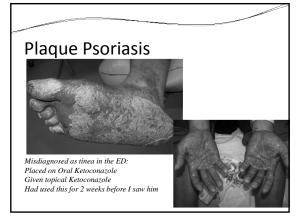






Psoriasis

- Develop as a child or as an adult
- Most classic form is plaque, followed by pustular
- Most commonly symmetrical, bilateral
- May be pruritic
- Affects joints, nails
- First line of treatment: topical steroids





Pustular Psoriasis





Misdiagnosed as interdigital tinea

Diagnosed as "dry skin"





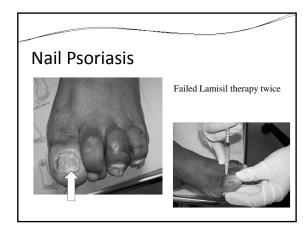
Misdiagnosed as "dry skin"

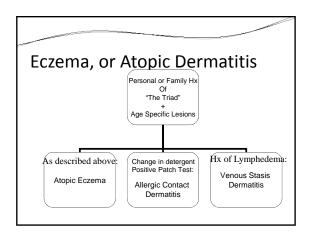


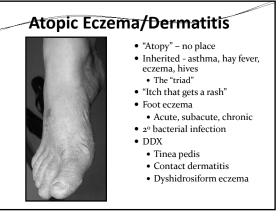


Why Is there Not much Improvement After 2 months???

2/18/09







Acuté

Eczema/Dermatitis

- · Moderate to intense itching
- Red, scaling, weeping, oozing skin rash
- Clinical presentations:
 - Atopic dermatitis
 - Dry skin eczema
 - Contact dermatitis
 - Stasis dermatitis
 - Dermatophyte infection



Superinfected tinea Week 1

Sub-Acute Eczema/Dermatitis

- · Mild to moderate itching
- Red, scaling, dry, fissured, skin rash
- Clinical presentations
 - Atopic dermatitis
 - Contact dermatitis
 - Stasis dermatitis
 - Dry skin eczema
 - Dermatophyte infection



Chronic

Eczema/Dermatitis

- · Moderate to intense itching
- Hyper/hypopigmented, dry, scaling, lichenified, excoriated, fissured skin rash
- · Clinical presentations
 - Atopic dermatitis
 - Lichen simplex chronicus
 - Habitual scratching/rubbing





Contact Dermatitis irritant vs allergic

- Irritant contact dermatitis
 - Everyone
 - Skin barrier dysfunction
- Allergic contact dermatitis
 - Antigen-antibody reaction
 - 8 to 28 days





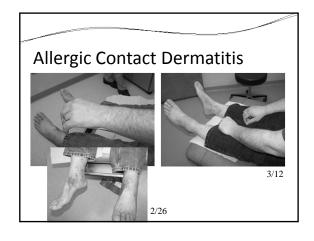
Allergic Contact Dermatitis

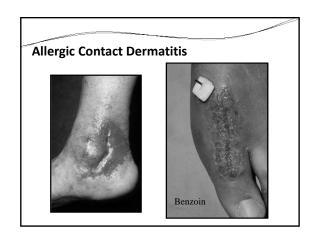


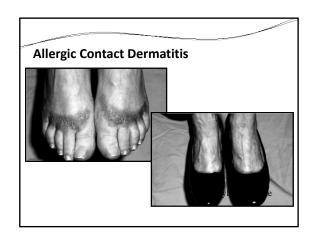


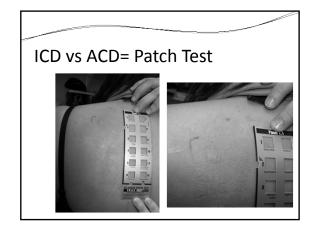
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4/14









A Note on Dyshidrotic Eczema

- This is <u>not</u> an overall term to be applied to every skin dermatitis
- Tapioca Pudding
- No erythema
- Self Limiting
- Mostly on hands



