

# Common skin diseases



Lyne Giroux, BSc, MD, FRCPC (Dermatology)  
Northern Ontario School of Medicine  
Assistant professor

# Objectives of talk

- Review some common skin diseases and management

# Disclosure

- Relationships with commercial interests: none
- Research: clinical trials Pfizer, AbbVie, Novartis, Janssen, Galderma



# Speaker disclosures

- received speaker or consultant honoraria and/or research grants from the following companies:

- Abbvie
- Actelion
- Amgen
- Aralez
- Bausch
- Galderma
- Glaxo Smith Kline
- Janssen
- Johnson & Johnson
- La Roche Posay
- LEO Pharma
- Lilly
- Novartis
- Pediapharm
- Pfizer
- Sanofi
- UBC
- Valeant

- I had full editorial control over the content of this presentation and wish to advise that it may contain content that is not consistent with the approved Canadian Product Monographs.

# Atopic Dermatitis



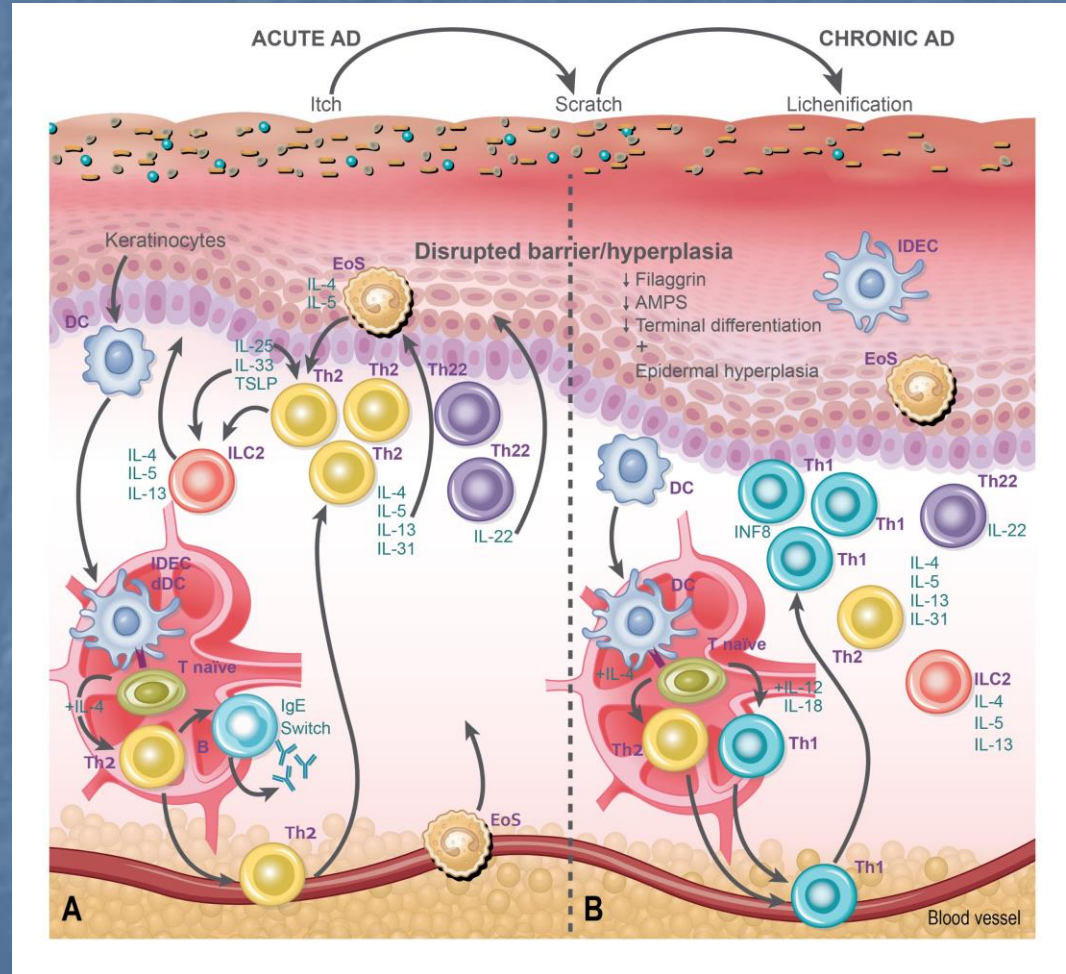




# AD is Caused by a Dysfunctional Skin Barrier and Dysregulation of the Immune System<sup>1-5</sup>

## Barrier disruption

- filaggrin mutation
- alteration in skin microbiome
- irritants
- low humidity



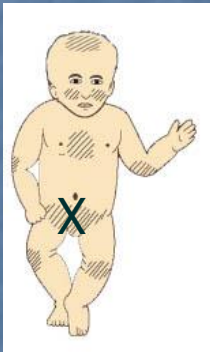
- 1. Jarnagin K *et al.* *J Drugs Dermatol.* 2016;15(4):390-396. 2. Chan SC *et al.* *J Allergy Clin Immunol.* 1993;91(6):1179-1188.
- 3. Gooderham M *et al.* *J Am Acad Dermatol.* 2018;78(3S1):S28-36. 4. Sawai T *et al.* *Br J Dermatol.* 1998;138(5):846-848.
- 5. Hanifin JM *et al.* *J Invest Dermatol.* 1996;107(1):51-56.



# Atopic Dermatitis Location by Age

## Infantile type

Face, scalp, trunk, extensor surfaces of extremities



Diaper area usually spared

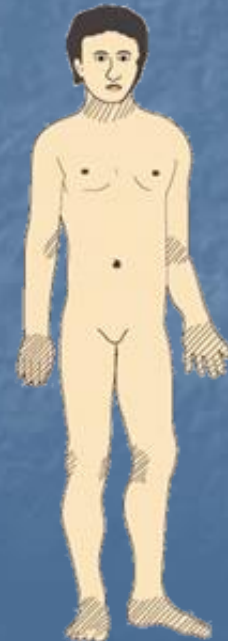
## Childhood type

Flexural folds of extensor (antecubital and popliteal fossa, neck, ankles)



## Adult type

Can be flexural  
nummular pattern  
Hands  
Consider drug induced





# Acrodermatitis enteropathica

## zinc deficiency from genetic malabsorption



- failure to thrive, diarrhea, irritability, alopecia, increased infections
- seen most often post weaning from breastfeeding
- zinc deficiency also seen in Crohn's, Cystic fibrosis, sickle cell, liver/renal disease, parenteral nutrition, athletes, poor nutrition
- responds dramatically and quickly to zinc supplementation

# Nummular pattern

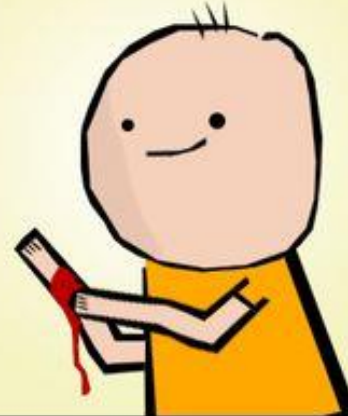


# ECZEMA ITCH BE LIKE...

Just a lil' scratchy



Yes, that's better



Almost



Perfect

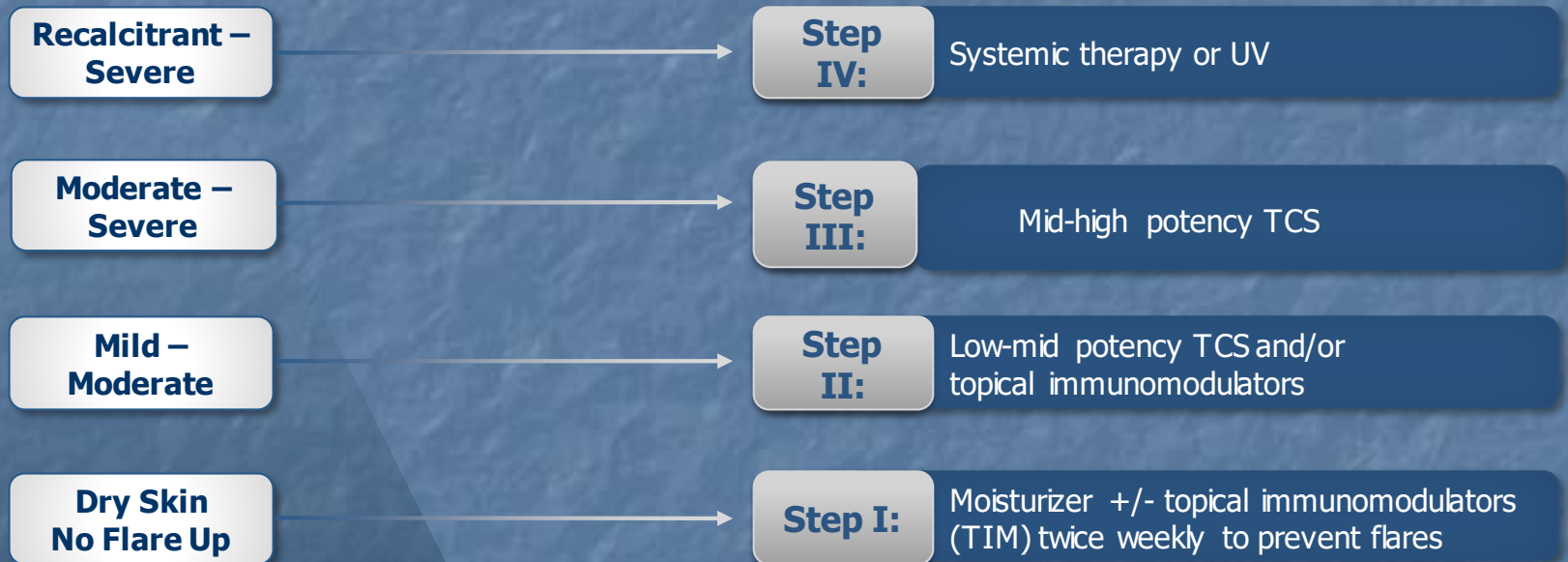


Happy Scratch by TopEczemaTreatments.com



# Treatment Steps Adapted to Disease Severity in AD<sup>1</sup>

European Academy of Allergy: Consensus Report



1. Akdis et al. *J Allergy Clin Immunol*. 2006;118:152–69.

# Basic skin care for AD

- Keep baths/showers short lukewarm
- Use scent free synthetic detergents with no allergenic preservatives
- Avoid washing whole body with cleansers just use in folds/"smelly parts"/face
- Do not sit in bath with suds
- Moisturize while damp
- Use scent laundry detergent & static balls

# Corticosteroid classification

Ultra Potent:	Class 1	Clobetasol
	Class 2	Fluocinonide (Lyderm)
Mid Potency	Class 3	Mometasone, BMV 0.1%
	Class 4	BMV 0.05%
	Class 5	Hydrocortisone 17 valerate (Hydroval)
Low Potency	Class 6	Desonide
	Class 7	Hydrocortisone



# Acute care of atopic dermatitis flare

- -Ointments or oil preferred when acute
  - More effective and potent than cream
  - Stings less on acutely flared skin
  - Not tolerated as much in summer
  - Fluocinonide oil (Derma-smooth) covered by private plans/NIHB only
- Consider using with wet wrap “2 PJ Rx”
- +/- Prednisone or prednisolone
- +/- antibiotic if secondarily infected

# Treatment for atopic dermatitis

- Use mid potency CS to clear skin
  - Betamethasone valerate 0.05-0.1%, mometasone, fluocinonide oil (Dermasmooth)
  - (1-2 weeks body and 2-3 days face folds)
- Alternate with low potency CS or non cortisone alternatives
  - Elidel (pimecrolimus) cream (3 months and up)
  - Protopic 0.1%, 0.03% (tacrolimus) oint (2+)
  - Eucrisa (crisaborole) oint (3 months and up)

# CDA Position Statement (2018)

Elidel (pimecrolimus) Protopic 0.1%, 0,03% (tacrolimus)

## Background

As of 2018, 6.7 million patients have used tacrolimus/pimecrolimus since marketed

“CDA believes that the FDA and TPD recommendation for a warning of this nature remain unsupported by medical evidence and ever broadening clinical experience”

nts of  
to show  
kemia,  
CIs

2015 Cochrane

- 20 studies, 5885
- No evidence of tacrolimus association with risk of malignancies

CDA is in agreement with AAD, EADV Eczema Task Force, Asia-Pacific Consensus Group for AD, Canadian Society of Allergy and Clinical Immunology

CDA: Canadian Dermatology Association  
FDA: Food and Drug Administration  
TPD: Therapeutic Product Directorate

<https://dermatology.ca/tci-position-statement/>

black box warning removed in Canada Oct 2019



# Nummular dermatitis

- -coin shaped eczema
- -can occur any age
- -can be harder to treat
- -often use 10% LCD (tar) with clobetasol
- -worse in winter and dry skin
- -can be seen as “Id” or auto-eczematization reactions to venous stasis, tinea, medications (topical antibiotics, isotretinoin, INF)



# Herpes and Staph aureus in a patient with AD



# Atopic dermatitis –when to refer

- frequent flares
- suspect allergic contact dermatitis for patch testing
- needs systemic steroid sparing agent (acitretin, methotrexate, cyclosporine, mycophenolate mofetil/myfortic, azathioprine)
- biologic dupilumab-Dupixent (anti-IL 4) >6
- Jak 1 inhibitor (upadacitinib- Rinvoq) >12



# Credible patient educational resource sites

- Eczema Society of Canada [www.eczemahelp.ca](http://www.eczemahelp.ca)
- Atopic Dermatitis Foundation [www.fondation-dermatite-atopique.org](http://www.fondation-dermatite-atopique.org)
- National Eczema Association [www.nationaleczema.org](http://www.nationaleczema.org)
- American Academy of Dermatology [www.aad.org/public/diseases/eczema/types/atopic-dermatitis](http://www.aad.org/public/diseases/eczema/types/atopic-dermatitis)
- DermNet NZ [dermnetnz.org](http://dermnetnz.org)

# Neck allergic contact dermatitis



- Fragrance or preservative in cr/washes/sprays
- Azo dye in scarf/clothing
- Metal jewelry
- Nail products
- Rubber gloves
- Aerosolized agents (Mi/Mci in paints, essential oils...)

# Lip ACD



- Lipsticks, lip balms
- Toothpastes
- Dental material
- Foods
- Nail products
- Gloves
- Medications
- Metals/wood reed musical instruments
- Aerosolized agents
- Fragrance or preservative in creams/washes



# Eyelid ACD



Gold released in presence of  
Titanium dioxide in cosmetics

- fragrance preservatives in  
creams, spf, makeup,  
cleansers, sprays
- essential oils (vapourizers)
- nail products
- gloves
- eye drops
- contact lens solutions  
(benzalkonium chloride)
- spectacle frames
- rubber goggles
- mascara
- fake eyelash (adhesive)
- eyelash curlers (Ni)
- hair dyes (PPD)
- eyelash perms
- airborn allergens

ACD whole body

Dove Men shampoo

formaldehyde  
releaser  
dmdm hydantoin  
MI/MCI  
and  
Fragrance





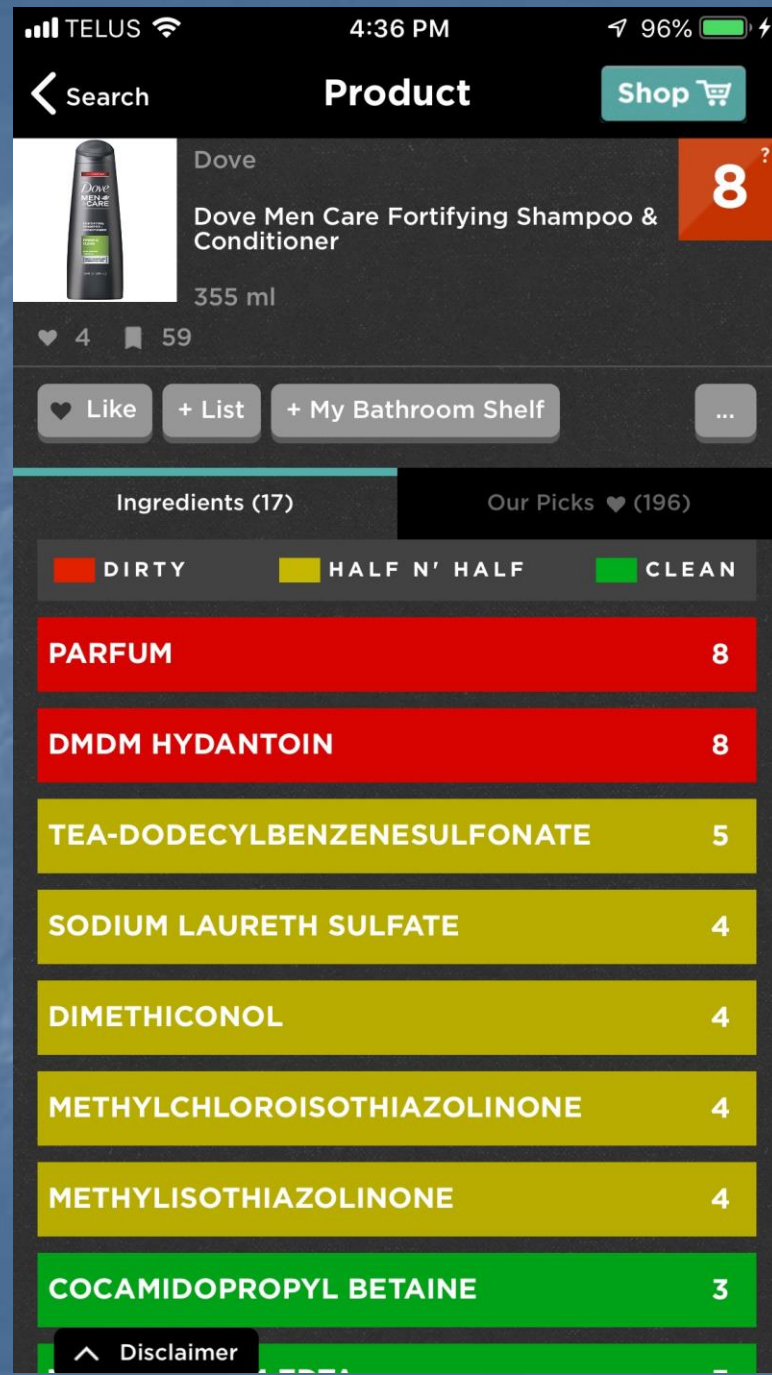
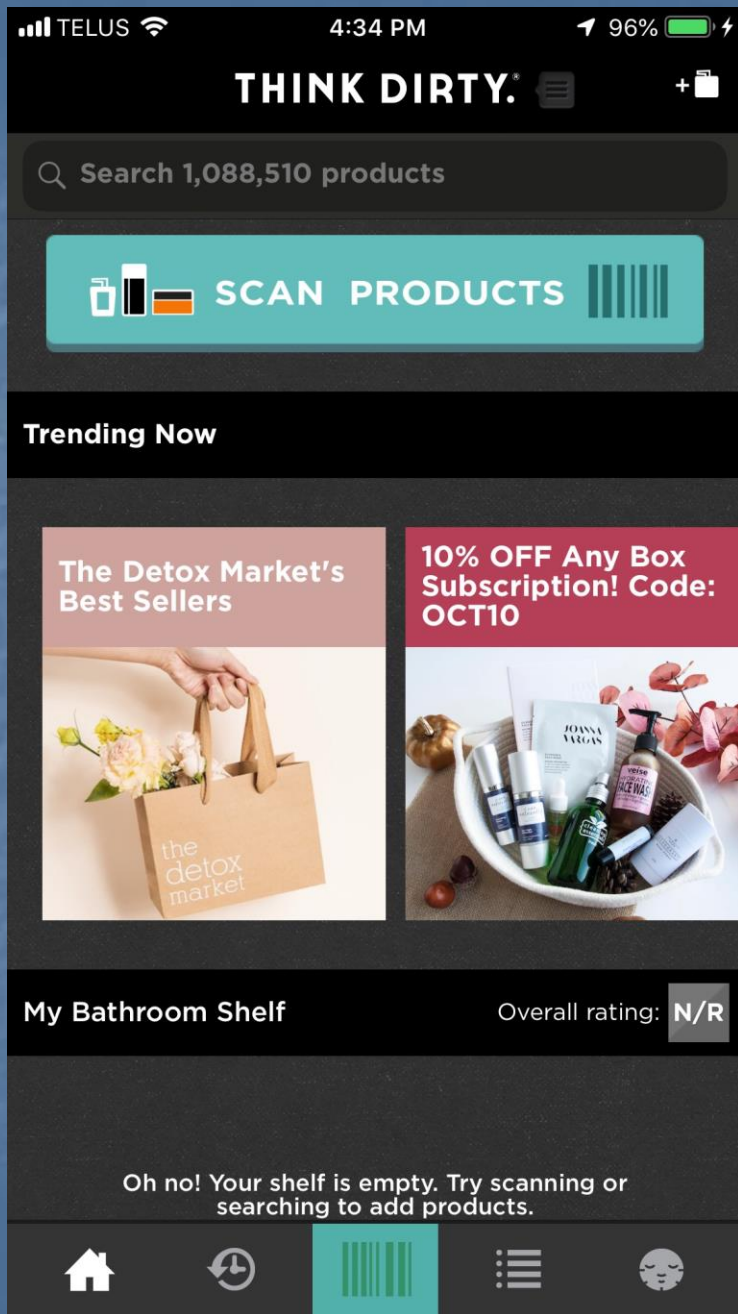














# ACD- Nickel or cobalt in a belt

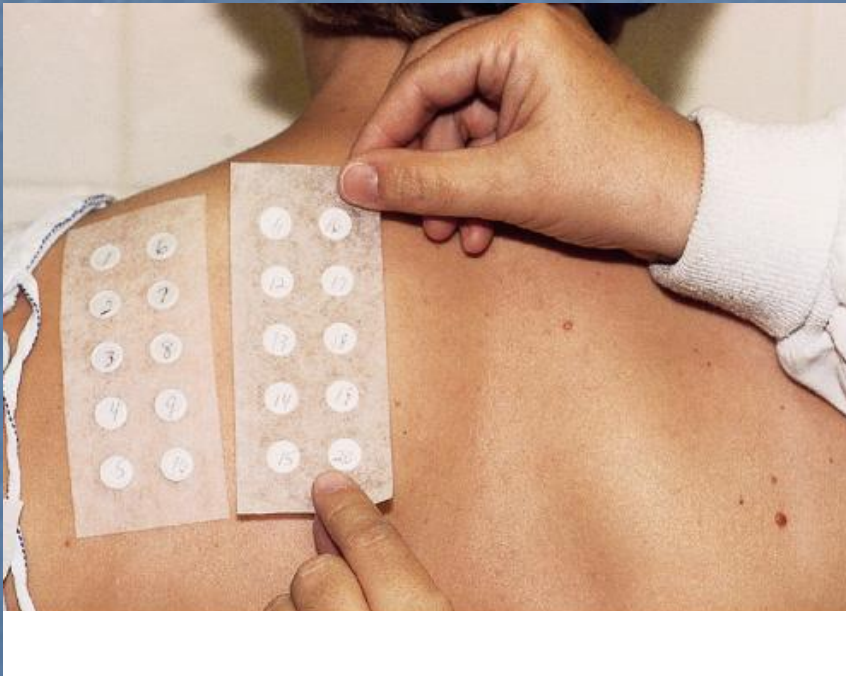


# Reaction to foam on skate tongue

## P-tert-butylformaldehyde resin



# Patch Testing for Allergic Contact Dermatitis



Apply Monday

Outline and remove Wednesday

Read Friday



[www.product elimination diet.com](http://www.producteliminationdiet.com)



# Severe venous stasis dermatitis and ulcers

-consider referral early if  
not comfortable  
managing as more  
difficult to manage  
when become chronic



# Treatment of venous ulcer

## order home care

- If diabetic, order arterial studies
- If not diabetic, ask home care to do ABI
- Treat any infections
- Clobetasol oint for dermatitis around ulcer
- Dressing on ulcer (ie. Aquacel Ag)
- If arterial circulation adequate ABI > 0.80 and below 1.31 can use 30-40 mmHg can use Coban 2 or Unna boot (Viscopaste)



# Coban 2 compression



# Allergic contact dermatitis also common in VSD



# Psoriasis





# Psoriasis



# Psoriasis



# Psoriasis topical treatment

Body: Clobetasol +/- sal acid +/- tar  
betamethasone dipropionate and  
calcipotriol (Dovobet oint,gel  
Enstilar foam)

Face/folds:

low potency CS: hydrocortisone 1%,  
hydrocortisone valerate

non cortisone: tacrolimus (Protopic),  
pimecrolimus (Elidel),  
crisaborole (Eucrisa)



# Psoriasis Scalp Rx

- Shampoos, liquids or gels preferred
  - Rx Clobex shampoo, Stieprox
  - Priv plan: Topisalic lotion
- Dermasmooth oil treatments
- Intralesional triamcinolone 5 mg/cc

# When to refer psoriasis?

- >10% BSA
- scalp, genitals, hands and feet
- guttate psoriasis for phototherapy
- suspect psoriatic arthritis
- not responding to topical therapy
- decreased quality of life
- pustular psoriasis
- consideration for clinical trial

Increased risk post prednisone to have an erythrodermic or pustular flare.





# Pustular psoriasis



# Options for psoriasis

## Phototherapy

- Narrow band UVB/ PUVA

## ■ Systemic treatments

- acitretin (Soriatane) not for women of childbearing potential
- methotrexate
- cyclosporin

## ■ Biologics

# Narrowband UVB and PUVA





# Psoriasis Biologics

- Anti TNF:

etanercept (Enbrel, Brenzys, Erelzi)

adalimumab (Humira, 5 biosimilars)

infliximab (Remicade, Inflectra, Renflexis)

- Anti IL 12/23 ustekinumab (Stelara)

- Anti IL 23      guselkumab (Tremfya)  
                     rizankizumab (Skyrizi)

# Psoriasis Biologics

- Anti IL 17 antibodies:
    - secukinumab (Cosentyx)
    - ixekizumab (Taltz)
  - Anti IL 17 receptor: brodalumab (Siliq)
  - Anti IL 7 A and F antibodies: bimekizumab
- Oral:
- Anti phosphodiesterase 4: apremilast (Otezla)



According to Google, it's either  
a rare buttock fungus or you've  
been sitting on the remote



# Tinea versicolor



- common and recurrent, not contagious
- caused by *Malassezia* which changes from yeast bud to hyphae
- triggered by hot and humid conditions, hyperhidrosis, use of skin oils

# Tinea-dermatophyte



# Tinea Capitis





# Tinea

- Advancing border is scaly
- It is a hypersensitivity reaction to the dermatophyte
- Inflammation is in the epidermis, so there is scale
- Look for asymmetry (ie: one hand and both feet, or 1 foot only )



## Tinea Incognito

Patient with tinea post treatment with prednisone



Tinea  
incognito

inflammation  
masked by  
steroid

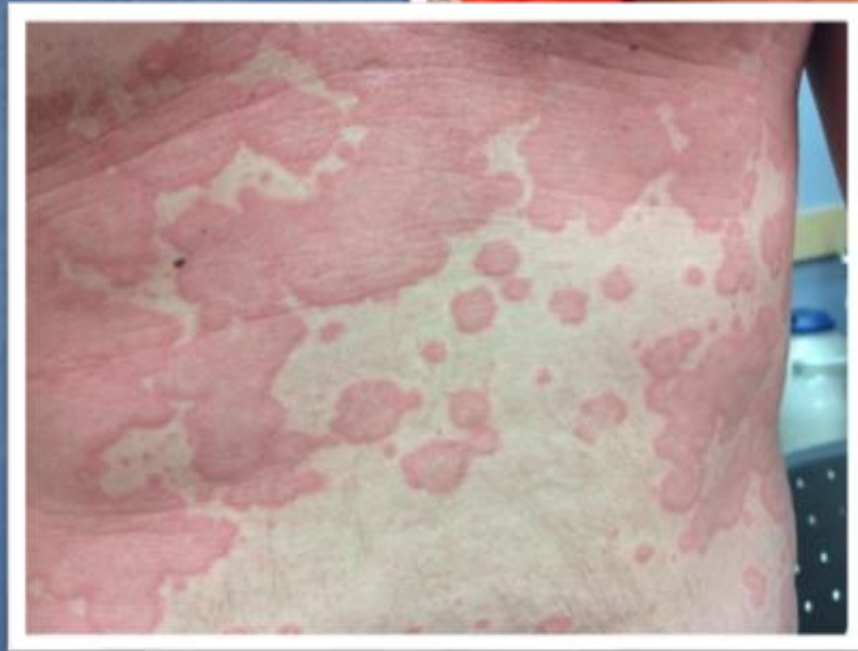




# Tinea Incognito

- Tinea (dermatophyte) infection which has been treated with a topical or oral corticosteroid
- The corticosteroid masks the inflammation and can become widespread or less scaly and form “Majocchi” granuloma deep in follicle
- treat oral anti fungal agents

# Urticaria



# Urticaria





# Urticaria

**Individual wheals last < 24-48 hrs  
but can reappear in new locations**

**Blanch with pressure and no scale**

**Angioedema can last 72 hrs**

# Distinguishing Acute vs. Chronic Urticaria

## Acute (< 6 wks)

### Common causes:

- **Thought to be viral infections (> 80% of cases in children, 50% in adults)**
- Drug reactions (allergic or non-specific, e.g., NSAIDs)
- Allergic reactions (food, insect stings, direct allergen contact)

## Chronic ( $\geq$ 6 wks)

### Common causes:

- **NOT allergy!**
- **Idiopathic (> 95%)**
- Inducible (physical triggers)
- Rare diagnoses (e.g., CAPS, urticarial vasculitis, autoimmune disorders, parasitic infections, mast cell disorders)

# CIU Can be Long-lasting

**50% of all CIU cases resolve within six months of onset<sup>1,2</sup>**

- ▶ Another 20% within three years
- ▶ Another 20% within 5-10 years
- ▶ < 2% within 25 years

**Risk factors for longer duration:<sup>1,3,4</sup>**

- More severe symptoms
- Angioedema
- Inducible urticaria

**50%+ experience at least one recurrence of CIU after spontaneous resolution**

Review 29 studies = 6462 pts, 1.6 % had internal diseases

80-90% have no underlying cause

<sup>1</sup>Maurer M *et al. Allergy* 2011;66:317-30.

<sup>2</sup>Adapted from: Beltrani VS. *Clin Rev Allergy Immunol.* 2002;23:147-69.

<sup>3</sup>Toubi E *et al. Allergy* 2004;59:869-73.

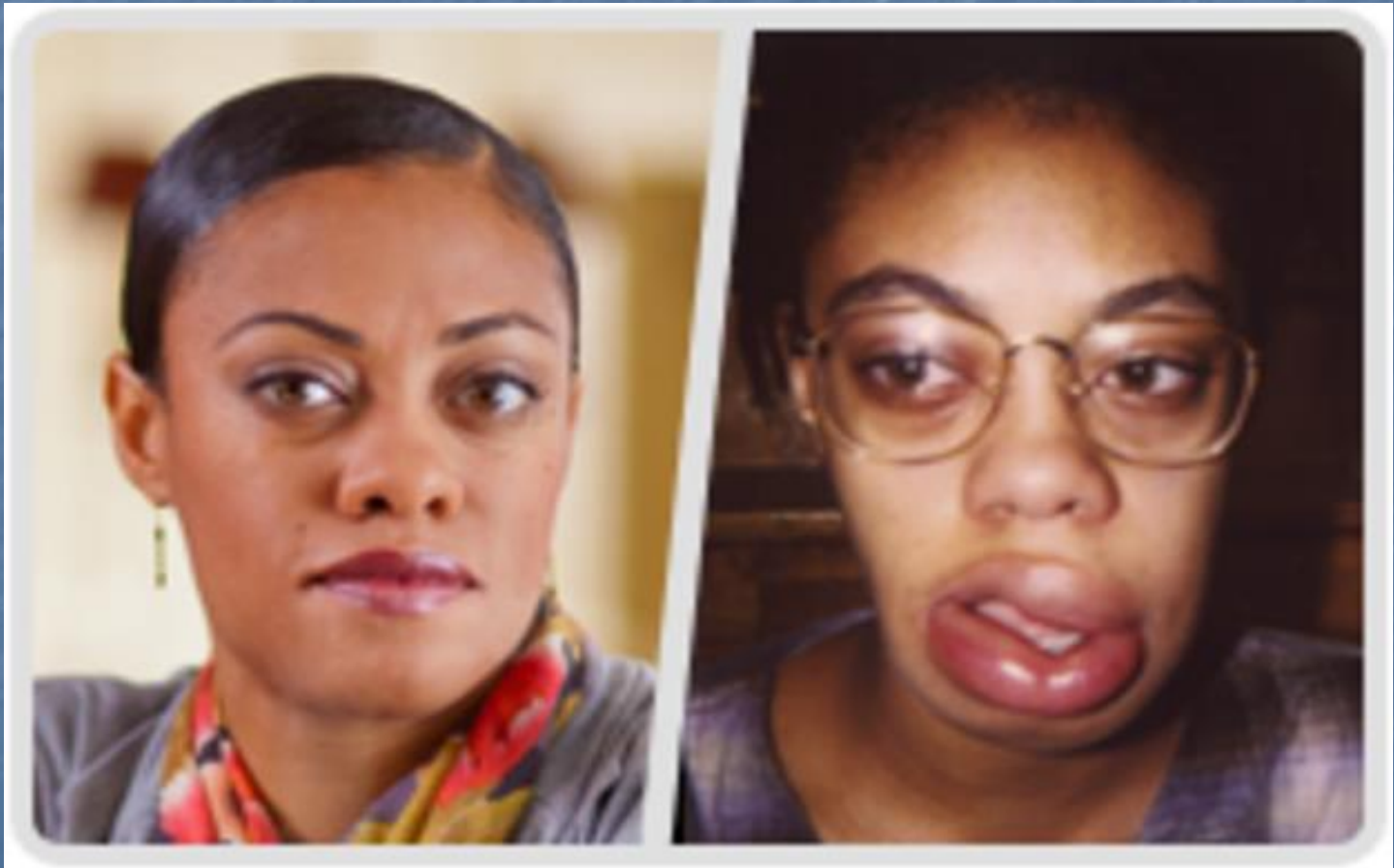
<sup>4</sup>Kozel M *et al. J Am Acad Dermatol* 2001;45:387-91.



# Dermatographism



# Angioedema -40% in CIU



# Chronic urticaria investigations

- CBC, ESR/CRP, TSH (+/- thyroid ab)
- CBC looking for eosinophilia
- If elevated ESR/CRP
  - ANA, SPEP, cryoglobulins, hepatitis b/c, CH50
- Gi symptoms- h. pylori, celiac



# Chronic urticarial treatment

- Avoid NSAIDs, ace inhibitors, narcotics, ETOH
- Pseudo allergen (high histamine release) free diet
- Avoid known physical triggers

# Chronic urticaria treatment

Start with non sedating h1 antihistamine

- Cetirizine (Reactine) 10 mg  
(20 mg cetirizine covered by priv plans, NIHB)
- Fexofenadine (Allegra) 180 mg
- Loratadine (Claritin) 10 mg
- Desloratadine (Aerius) 5 mg

Prescription only private plans:

- Rupatidine (Rupall) 10 mg (pediatric dosing)
- Bilastine (Blexten) 20 mg

# Chronic urticaria treatment

- If non sedating anti-histamine fails

increase to 4 x recommended dose



# Chronic urticaria treatment

- Add H2 antihistamine (ranitidine)
- Add leukotriene inhibitor (montelukast)
- Add sedating anti histamine pm
  - Hydroxyzine
  - Doxepin
  - Diphenhydramine
- Omalizumab anti IgE (Xolair) monthly inj
- Rarely use prednisone

# Granuloma Annulare



Clobetasol or intralesional triamcinolone

40 yo woman gets pruritic rash  
on sun exposed skin





# Sub acute cutaneous lupus



# Subacute cutaneous lupus

- 15% of patients with cutaneous LE
- 70% have anti Ro/La SSa/SSb (ENA)
- No scarring after resolution
- Rare to have severe SLE, up to 50% may have arthralgia, arthritis, low WBC
- increased risk of neonatal lupus
- Presentation:
  - Psoriasiform (not itchy)
  - Annular

# Drug induced subacute LE

- 1/3 cases are due to drug- esp older or male
- More than 100 drugs
- CCB, ACEI, terbinafine, TNF inh, HCZ  
anticonvulsants, PPI, thrombocyte inh, nsoids
- No significant clinical, histo or lab features
- Suspect in new onset older person,  
widespread involvement of skin
- Months to yrs after continued exposure



# Chronic cutaneous lupus

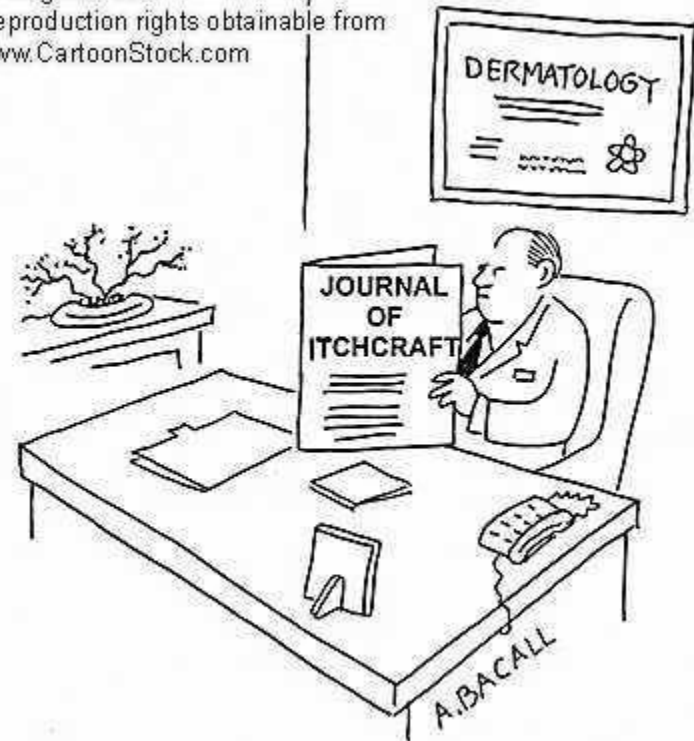


# Management

- Screen for systemic lupus, drug induced
- Sun protection
- Clobetasol cr, intralesional triamcinolone
- Hydroxychloroquine (Plaquenil)
- Methotrexate, mycophenolate
- Anti B lymphocyte stimulator (Benlysta), rituximab (anti cd20)

# QUESTIONS?

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