Dermatology: What you need to know in primary care Part I

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20 most common dermatology diagnoses

1. acne 11. hemangiomas/port-wine stain 2. rosacea 12. verruca/condyloma 3. psoriasis 4. seborrheic dermatitis 13. molluscum contagiosum 14. seborrheic keratosis 5. atopic dermatitis 15. actinic keratosis 6. contact dermatitis 16. melanocytic nevi 7. stasis 17. impetigo, folliculitis, dermatitis/ulcers abscess 8. urticaria 18. herpesvirus infections 9. dermatophyte 19. scabies

20. pityriasis rosea

infections

10. tinea versicolor

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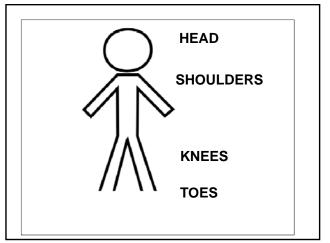
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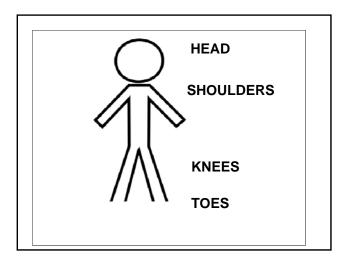
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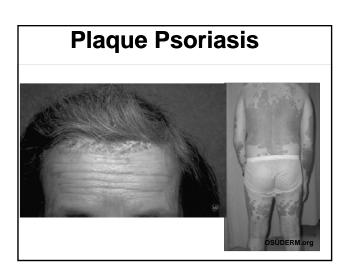




PSORIASIS

Psoriasis

- Four Main types:
- Plaque
- Guttate
- Pustular
- Inverse
- Arthritis can be seen with any type

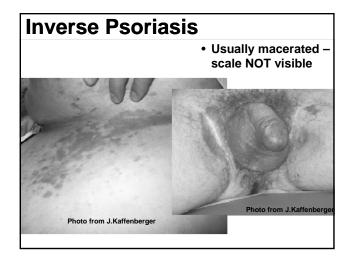


Plaque Psoriasis

- Most common type
- Scalp, Elbows, Knees, Sacrum
- Usually itches



• More common in children • Related to strep infections • Trunk most involved • May resolve spontaneously



Pustular Psoriasis

- Most acute type
- Can be life threatening
- May have fevers, high WBC
- Can be caused by withdrawal of systemic steroids



Psoriasis

Treatment

Topical

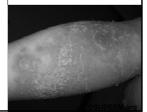
- Steroids: mid-strong potency
 - Triamcinolone 0.1% (only one that comes in a tub)
- Calcipotriene
- Tacrolimus/Pimecrolimus: usually for inverse pso (offlabel)
- Ultraviolet light: 2-3x weekly

Systemic

- Acitretin, cyclosporine, biologics (call dermatologist)

Other:

- Pustular pso: call derm
- AVOID systemic steroids – can cause severe flare when stopped



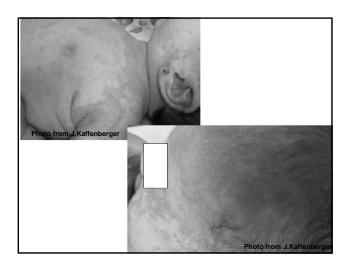
Psoriasis Pearls:

- Give appropriate amount of topical medication
 - (Whole body application approx 30g)
- Pso = lifelong condition -choose therapies accordingly
- Make sure correct vehicle for all pso locations
 - Scalp = oil, solution, foam
 - Body = cream, ointment

SEBORRHEIC DERMATITIS



- Most common = Face and scalp
 - · "butterfly rash"
- Can affect intertriginous areas esp in children
- Yellow/greasy scale
- Cause: Pityrosporum ovale
- +/- itch



Seborrheic dermatitis

Treatment

- Zinc, selenium sulfide, or ketoconazole shampoos
 - Leave in for 3-5 min before rinsing
 - Use on side of nose and eyebrows too
- Scalp: Clobetasol solution
- Face: <u>Intermittent</u> (minimize use) hydrocortisone 1-2.5%, or tacrolimus/pimecrolimus

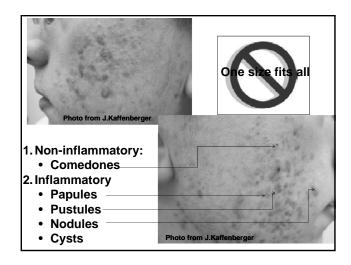
Seborrheic dermatitis pearls

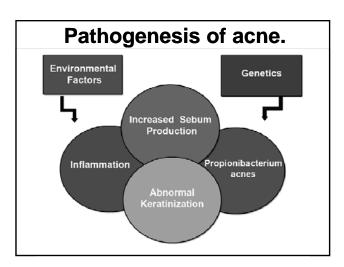
- Manage expectations: can't cure, can control
- Assoc with Parkinson's and AIDs
- Can overlap with psoriasis "sebopsoriasis"

ACNE









Non-inflammatory acne - abnormal keratinization

- increased sebum production





Open <u>comedones</u> = blackheads Closed <u>comedones</u> = whiteheads

Non-inflammatory acne

- Treatment:
- **Retinoid**
- Adapalene
- Tretinoin
- Tazarotene
- Benzoyl peroxide wash or gel
- Salicyclic acid

Inflammatory Acne



Pathogenesis:

- Abnormal keratinization
- Increased sebum production
- Inflammation
- P. acnes

Lesions:

- Papules
- Pustules
- Nodules
- Cysts

Inflammatory acne

- Treatment target all causes!
- "Triple therapy"
- 1. Antibiotics
 - Doxycycline 100mg PO BID
 - Minocycline 100mg PO BID
 - Minimize course to 3-6 months
- 2. Retinoid
- 3. BPO

SPECIAL CASES

Inflammatory acne - severe





- Nodules > 0.5cm in diameter and depth
- Cysts
- Scars

Severe inflammatory acne

Treatment

- Isotretinoin
 - Synthetic Vitamin A Derivative
 - Highly teratogenic controlled by gov't
 - Numerous A/E:
 - Xerosis
 - Hyperlipidemia
 - ? depression/suicide
 - Send to derm if not part of Ipledge program

Inflammatory acne – adult female "O" distribution

Treatment:

- Hormonal therapy
 - **OCPs**
 - 3 "approved"
 - Reality: all likely work,
 - Ideally pick one w/ low androgenic progestin
 - (norgestimate, desogestrel, drospirenone, 3rd gen progestins)
 - Spironolactone (off-label)
 - **Blocks androgens**
 - Dose: 50mg BID, can increase to 100mg PO BID
 - S.E.: Breast tenderness, irreg periods, headache, feminization of male fetus

Acne pearls

- Biggest cause of treatment failure: Poor compliance
- * Counsel takes 2-3 months for therapy to work!
- Diet and acne.....the jury is still out

ROSACEA

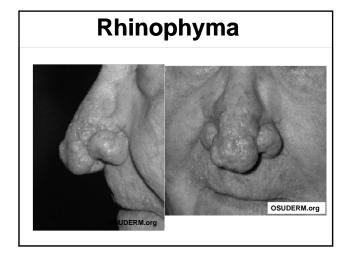
Rosacea OSUDERM.org OSUDERM.org

A Types: 1. Erythrotelangiectatic 2. Papulopustular 3. Phymatous 4. Ocular

Rosacea

Treatment:

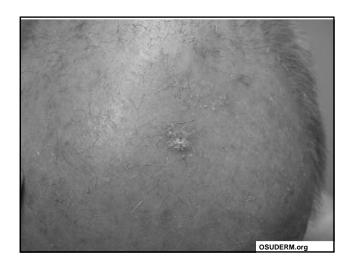
- 1. Erythrotelangiectatic
 - Aug 2013: Brimonidine topical gel, 0.33%
 - Alpha-2 adrenergic agonist
- 2. Papulopustular
 - · Metrogel or metrocream
 - Oral doxycycline (off-label)
 - · Anti-inflammatory dosing
- 3. Ocular
 - Oral doxycycline (off-label)
- 4. Phymatous
 - Surgery/ Shaw scalpel



Rosacea pearls

- Anti-inflammatory dosing of doxycycline
 - Doxycycline 20mg PO BID, 40mg PO daily, 50mg PO BID
 - Effective
 - · Lower incidence of GI side effects
- Ask about eye symptoms
 - · Dry, gritty eyes
 - · Need oral doxycycline

ACTINIC KERATOSES



Actinic Keratoses

Treatment:

- Cryotherapy
- "Field therapy": 5-fluorouracil, imiquimod, diclofenac
- New therapy: ingenol mebutate
 - Intracellular protein kinase C agonist
 → cellular necrosis
 - Also immunostimulatory → get cytotoxic Ts against dysplastic cells
 - Face 0.015% x 3 days, Trunk/extremities 0.05% x 2 days
 - Face/scalp: 83% median reduction, Trunk: 75% median reduction

Actinic keratoses pearls

- Don't need to treat them all treat bothersome areas
- Field therapy can be difficult esp for elderly pts

IMPETIGO

Impetigo



Photo from J.Kaffenberger

- Most common: S. aureus
- "Honey-colored" crusts more than pustules
- More superficial than ecthyma
- More likely in kids w/ atopic derm
- **Treatment:**
- Topical antibiotic, antibacterial wash
- More severe: oral antibiotic (cephalexin)

When to consult your local dermatologist?

Managing the "STAT acne consult"

Common rashes in primary care Part 2:

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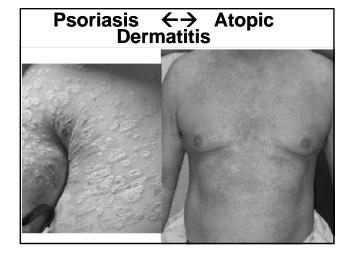
Objectives (I can Identify common patterns of)

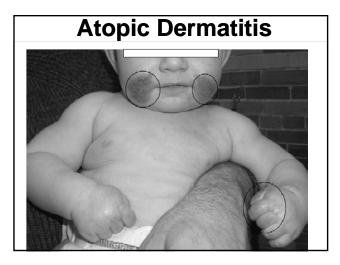
- 1. Dermatitis/Eczemas
 - A. Atopic Dermatitis
 - B. Asteatotic eczema (Eczema craquele)
 - C. Allergic/Irritant Contact Dermatitis
 - **D. Stasis Dermatitis**
 - E. Dermatophyte infections
 - F. Tinea Versicolor
 - G. Scabies
- 2. Urticaria
- 3. Hidradenitis Suppurativa
- 4. Severe cutaneous adverse reactions from drugs

Topical Steroids You need to know Low: Hydrocortisone 2.5% crm/oint

Medium: Body – Triamcinolone 0.1% crm/oint

High Potency: Body, thick plaques – Betamethasone dipropionate augmented 0.05% crm/oint/lot







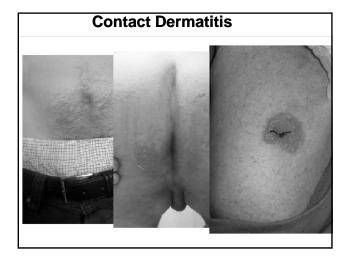
Treatment of Atopic Dermatitis (AD)

- Moisturization (most important)
- Avoid triggers (food allergens, infections, airborne allergens)
- Antihistamines
- Topical steroids
- For severe disease: Send to dermatologist!



Asteatotic Eczema

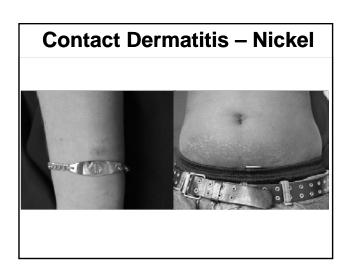
- Always elderly patients
- · Always on the legs
- Worst in the wintertime
- Best treatment moisturization (ammonium lactate although triamcinolone can be beneficial initially)





Contact Dermatitis – Poison Ivy Toxicodendron radicans.

- Very common, probably 75% of the population is sensitized
- "Streaky Dermatitis"
- New spots can appear for days after rash starts
- · Blister fluid does not spread the rash
- Treat with 3 weeks of prednisone if severe otherwise high-potency topical steroids



Contact Dermatitis - Nickel

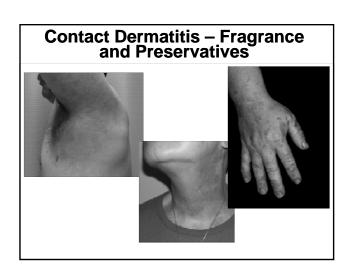
- Most common cause of chronic allergic contact
- Common sources of exposure:
 Jewelry (earrings, watches, etc)
 Clothing (belts, snaps, rivets, etc)
 Coins, Keys, Eyeglasses

Internet for sources of nickel free jewelry

Contact Dermatitis – Triple Antibiotic ointment (neomycin or bacitracin)

Contact Dermatitis - Neomycin

- Very common, up to 10% of the population is allergic
- Both Neomycin (most common cause of allergic contact dermatitis from topical medications) and Bacitracin
- If a patient has used neomycin/bacitracin, have patient perform a "repeat open application test"



Contact Dermatitis – Fragrance and Preservatives

- · Face, Neck, Hands
- Common exposures:
 - Shampoo, soap, conditioner, hair products, moisturizer, perfume, deodorant
- Very difficult to avoid these substances as even products that say "hypoallergenic" or "dermatologist tested" often have fragrances
- Allergic patients only react to some fragrances and preservatives

Contact Dermatitis – Perianal



Ask about diarrhea and use of diaper wipes
 If using diaper wipes – stop and give high potency steroid

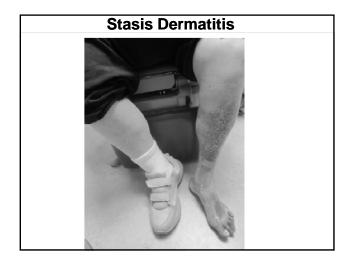
Irritant Hand Dermatitis





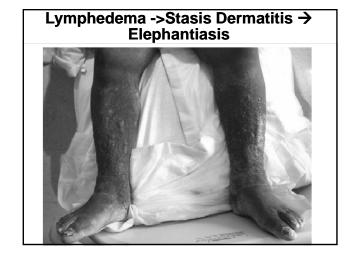
Irritant Hand Dermatitis

- Most commonly due to repetitive exposure to soap and water
- Interdigital and dorsal hands
- Ask about frequency of handwashing
- Hand sanitizer is less damaging than soap
- Need thick ointment to protect



Stasis Dermatitis

- For mild cases, compression is key
- Predisposed by lower limb injury, surgery, obesity, lymphedema, and increased age
- May apply Triamcinolone underneath stockings
- Contact dermatitis is common





Tinea

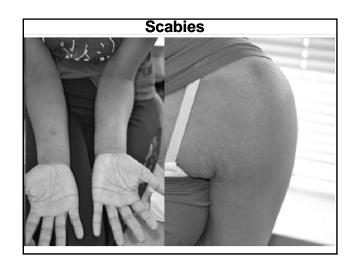
- Look for annular/arcuate appearance
- Also look for interdigital scale, mild tinea pedis
- KOH examination or skin biopsy will confirm
- Treat with Ketoconazole 2% cream bid UNLESS features suggestive for hair-follicle involvement

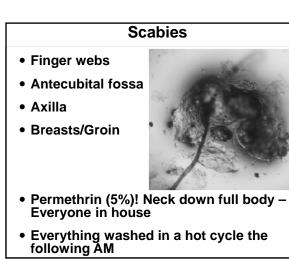


Tinea Versicolor

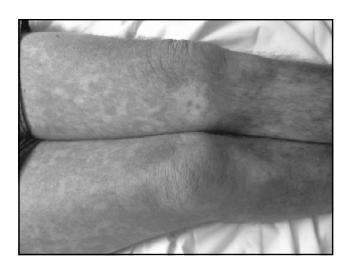
Tinea Versicolor

- Upper body, summer time, young-adults, typically in humid environments
- Scrape with slide or fingernail, scaling can confirm it
- Treat: Fluconazole 300 mg x 2, 1 wk apart
- For maintenance, have patient use OTC dandruff shampoo (zinc pyrithione, selenium, or ketoconazole) as body wash tiw









Urticaria

- Itchy, evanescent, and transient wheels
- *If greater than 24 hrs in one place, it is not urticaria!!
- Common causes include strep infections, drugs, hymenoptera envenomations
- Never scaly
- Titrate cetirizine (start 10 mg bid) for treatment

Hidradenitis suppurativa





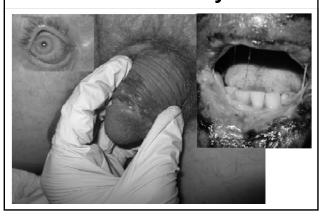
Hidradenitis suppurativa

- Treatments:
- Topical acne treatments
- Weight loss
- Chronic antibiotics (Doxycycline 100 mg bid)
- ??Adalimumab, infliximab?? Needs referral to dermatology.
- If severe and can't get into dermatology consider referral to plastics/gen surg for excision and skin grafting

Severe Cutaneous Adverse Reactions Stevens-Johnson Syndrome



Stevens-Johnson Syndrome



Stevens-Johnson Syndrome



Stevens-Johnson Syndrome

- Acute death of epidermis due to exposure to a medication
- Key early finding is pain/involvement of multiple mucous membranes, followed by sloughing of the skin
- Usually within 1-3 weeks of starting med
- Aromatic Anticonvulsants, allopurinol, Sulfa, NSAIDS,
- High Mortality Stop med, call dermatology/hospital with dermatology capabilities

Lastly – Bed Bugs or Cimex lectularius

- C. Wayne Elliott Plant and Pest diagnostic center.
- ppdc@cfaes.osu.edu, 614-292-5006



Thanks Everyone