

### **Common Skin Complaints and Updates**

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#### **Disclosures**

- No financial disclosures
- I will be discussing the off-label use of spironolactone in the treatment of acne

# Agenda

- Sunscreen
- Acne vulgaris
- Rosacea
- Seborrheic dermatitis
- Tinea
- Intertrigo
- Scabies
- Herpes

#### Sunscreen

- Broad-spectrum (protects against UVA and UVB rays)
- SPF 30 or greater
- Water-resistant
- Chemical vs physical sunscreens
  - Physical: zinc oxide or titanium dioxide
  - Tinted sunscreens protect against visible light (indoors) which can worsen dark spots and melasma



#### Sunscreen

- FDA issued a proposed rule in 2019, later a proposed order in 2021
  - Generally recognized as safe and effective (GRASE)
    - Zinc oxide
    - Titanium dioxide
  - Not GRASE (these aren't present in legal US sunscreens)
    - PABA
    - Trolamine salicylate
  - Requesting more information
    - Commonly used in US: ensulizole, octisalate, homosalate, octocrylene, octinoxate, oxybenzone, avobenzone
    - Not commonly used in US: cinoxate, dioxybenzone, meradimate, padimate O, sulisobenzone

# Take home sunscreen points

- The FDA has not deemed these ingredients unsafe and has not asked the public to stop using sunscreens that contain them
- If the proposed rule makes you or your patients uneasy, look for sunscreens whose active ingredients are the physical blockers zinc oxide or titanium dioxide

### Acne vulgaris

- Assess severity
  - Mild
  - Nodules, scarring
    - Moderate
    - Severe
- Target treatments based on severity
  - Mild may respond to topicals alone
  - Moderate to severe typically necessitates oral therapy (antibiotics, isotretinoin)
- Key point: oral antibiotics should be prescribed WITH topicals as the latter will hopefully serve as the long-term maintenance regimen

### Acne vulgaris: moderate





Source:DermNet - https://dermnetnz.org/topics/acne-face-images

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### Acne vulgaris: severe



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### Acne vulgaris

- Prescription topicals
  - Topical antibiotics (clindamycin, erythromycin): should be given with anti-bacterial like benzoyl peroxide (BPO) to prevent formation of antibioticresistant bacteria
    - BPO 5%/Clindamycin 1%(Benzaclin) and BPO 5%/Erythromycin 3% (Benzamycin) are popular
    - BPO comes in wash, solution, and gel forms
      - Wash is great for back/chest acne
    - Some patients may only tolerate BPO as a spot treatment because of side effects (dryness)

### Acne vulgaris

- Prescription topicals
  - Topical antibiotics
    - Dapsone 7.5% gel: can consider if above topical antibiotics not effective or patient not tolerating combo with BPO, typically more expensive/harder to get (even though now generic), cannot use with BPO due to temporary yellow/orange discoloration of skin and hair

### Acne vulgaris

- Topical retinoids (adapalene, tretinoin): mainstay of acne treatment, works on skin turnover, particularly effective for comedones, can improve dyspigmentation, a bit of wrinkle reduction
  - Apply to full face (avoid periocular skin)
  - Tretinoin: I typically start at 0.05% (mid-strength) and escalate to 0.1% (highest strength) if tolerated
  - Adapalene: low strength (0.1%) now available OTC

### Acne vulgaris

- Counseling
  - Acne worsens before it improves
  - Can take 3-4 months to see full effects of meds
  - Dryness/flaking/redness/peeling! Most will **build tolerance with consistent use**, but minority of patients cannot tolerate these
  - Use non-comedogenic moisturizer to counteract side effects
  - Start topical retinoids every other night and increase to nightly as tolerated
- Gentle face washes are best, do not need to scrub harshly

### Acne vulgaris

- Oral antibiotics
  - Guidelines advise only 3-4 month courses!
    - If patient does not respond after 3-4 months OR does not maintain adequate response on topicals alone after finishing antibiotics, should be referred to derm for consideration of isotretinoin
  - Because of side effect profile (short and long term), doxycycline is typically preferred over minocycline or bactrim
  - Typical regimen: doxycycline 100 mg BID x 3-4 months
    - WITH topicals!
- Isotretinoin (only dermatologist can prescribe)

### Special considerations

- **Spironolactone** in females
  - Off-label, but extensively used
  - Unlike oral antibiotics, can be long-term option
  - 50 mg daily can suffice, but can increase to 100-200 mg daily
  - Counseling: should not get pregnant while on drug, debate over lab monitoring, I don't typically check potassium unless taking greater than 100 mg daily, can cause menstrual irregularities like spotting

### Special considerations

- Newer topicals: studies almost always compare to vehicle alone (not existing acne topicals), usually more expensive/harder to get
- Clascoterone 1% cream (Winlevi, 2020): topical androgen receptor inhibitor, approved for males and females age 12 and older, applied BID
  - Consider adrenal suppression when using large amounts
  - I consider in patients whom I suspect hormonal component to acne, females who don't want spironolactone, can use with topical retinoid if tolerated
- Clindamycin 1.2%/adapalene 0.15%/BPO 3.1% gel (Cabtreo, 2023)

### Benzenes in BPO products

- Benzene is a carcinogen and can form when BPO degrades, low levels of benzenes are acceptable but high levels are concerning
- Independent testing lab (Valisure) studied levels of benzene in BPOcontaining cleansers and lotions, found elevated levels of benzene when products incubated at room temp, 98.6 F (body temp), 122 F (accepted pharmaceutical stability testing temp), and 155 F (hot car temp)
- Valisure used FDA's methods for measuring benzenes which are more accurate than USP's methods
- My take: do not dismiss findings, more data needed, telling pts to refrigerate BPO products, discard after 3-6 months, avoid heated storage

https://www.dermatologytimes.com/view/updates-on-benzene-in-benzoyl-peroxide-products-at-aad

#### Rosacea



Source:DermNet - CC BY-NC-ND 3.0 NZ

https://dermnetnz.org/images/rosacea-images



#### Rosacea

- Pink bumps and pustules respond to topicals and oral antibiotics, but redness does not typically respond much
  - Metronidazole gel or cream daily (1% once daily, 0.75% BID)
    - Azelaic acid 15% gel once daily: some activity against redness, more irritating than others
    - Ivermectin 1% cream once daily
    - Sodium and sulfur combo: sulfacetamide sodium-sulfur 10%-5% topical lotion once daily (great for combo rosacea/sebderm)
  - Some compounding pharmacies combine several of above into one topical
  - Doxycycline: flare dosing is similar to acne (100 mg BID x 3-4 months), if pts recurs off flare dosing can consider 40-50 mg once daily long term

#### Rosacea

- Redness/flushing
  - Avoid triggers
  - Sun protection
  - Gentle skin care
  - **Topical vasoconstrictors** (brimonidine 0.33% gel, oxymetazolone 1% cream): typically used QAM
    - More data on oxymetazolone re: rebound redness
  - Most responsive to laser (PDL, KTP), usually requires cash payment, multiple treatments

# Phymatous rosacea



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https://dermnetnz.org/images/rosacea-images

### Seborrheic dermatitis





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https://dermnetnz.org/topics/seborrhoeic-dermatitis

#### Seborrheic dermatitis

- **Ketoconazole 2% shampoo** is mainstay, works better than OTC shampoos, use **2-3 times weekly**, leave on for 2 min or so before rinsing off, can also use as face wash
  - Ciclopirox 1% shampoo is alternative for those who don't like how keto makes their hair feel
  - Can also use ketoconazole 2% cream BID x 2-3 week to active rash on face
  - Alterating shampoos, including OTCs, helpful for some
- Topical steroids in solution or oil form can help with itch
  - I typically give clobetasol 0.05% solution can use BID prn to itchy spots on scalp
  - Alternatives: lidex (fluocinonide 0.05% solution), dermasmooth (fluocinolone 0.01% oil)

#### Seborrheic dermatitis

Differential diagnosis: psoriasis

#### Tinea

- Tinea capitis is rare in adults (more likely in children), flaky scalp should be treated as seborrheic dermatitis, if not responsive should be referred to derm
- Tinea corporis
- Tinea pedis
- Tinea unguum/onychomycosis

## Tinea corporis







Source:DermNet - CC BY-NC-ND 3.0 NZ

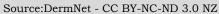
https://dermnetnz.org/topics/tinea-corporis-images

### Tinea corporis

- If focal, treat with **ketoconazole 2% cream BID x 2-3 weeks**, refer to derm if does not clear
- If more extensive, can treat with oral antifungals, I typically use **terbinafine 250 mg daily x 2 weeks** if no contraindications, refer to derm if does not clear
- Differential diagnoses: nummular dermatitis (variant of eczema), granuloma annulare, cutaneous T-cell lymphoma

### Tinea pedis





https://dermnetnz.org/topics/tinea-pedis-images



### Tinea pedis





https://dermnetnz.org/topics/tinea-pedis-images



Author: Dr Hari K Kasi - CC BY-NC-ND 3.0 NZ

### Tinea pedis

- •Tinea pedis (and lower legs): can be itchy, can also service as nidus for infection (cellulitis) so I'm more inclined to treat
  - I first try **ketoconazole 2% cream BID x 2-3 weeks** when rash active, if responds but recurs have pt use BIW even when clear

### Tinea unguum/onychomycosis

- Unsightly for pts, but not dangerous, treatments are not reliably effective, topicals have about 5-8% success, oral antifungals have about 50% success rate
  - Oral terbinafine 250 mg x 3 months, debate about lab monitoring, some do LFTs prior to starting and after 6 weeks in older pts or those with co-morbidities
  - Pulse itraconazole, beware of drug-drug interactions

#### Intertrigo



Brodell RB, et al. Intertrigo. In: UpToDate, Connor RF (Ed), Wolters Kluwer. (Accessed May 7, 2024.)



#### Intertrigo

- Presents in skin folds, most commonly inguinal folds and under breasts, sometimes in axillae
- Secondary to a combination of heat, moisture, bacteria, fungus/yeast
- Mild cases respond to topical anti-fungals/yeast, more severe cases require topical anti-inflammatory and barrier cream (diaper paste) as well and/or oral antifungal

#### Intertrigo

- I generally start with **ketoconazole 2% cream** BID x 2-3 weeks to active rash, if resolves but recurs try use BIW even when clear
  - If interested in clearing faster/providing more immediate relief, you can also have pt use hydrocortisone 2.5% cream or ointment 1-2 times daily for 1 week BUT must be careful about overuse bc of side effects and that overuse of topical steroids may exacerbate some of the drivers of intertrigo long-term

### Intertrigo

- If recalitrant, I have patients start using zinc oxide barrier/diaper paste (I like Triple Paste or Extra Strength Desitin) daily, always applying over any prescription topicals
- Sometimes short courses of oral fluconazole are necessary for quicker relief, but topicals will still be maintenance regimen
  - If **satellite papules**, likely strong **yeast** component and would go for fluconazole earlier

### Candida intertrigo



Source:DermNet - CC BY-NC-ND 3.0 NZ

https://dermnetnz.org/topics/skin-problems-associated-with-diabetes-mellitus

# Inverse psoriasis



Brodell RB, et al. Intertrigo. In: UpToDate, Connor RF (Ed), Wolters Kluwer. (Accessed May 7, 2024.)

### Tinea cruris



**Brodell RB, et al. Intertrigo. In:** UpToDate, Connor RF (Ed), Wolters Kluwer. (Accessed May 7, 2024.)

# Inverse psoriasis



Brodell RB, et al. Intertrigo. In: UpToDate, Connor RF (Ed), Wolters Kluwer. (Accessed May 7, 2024.)

# Intertrigo



Brodell RB, et al. Intertrigo. In: UpToDate, Connor RF (Ed), Wolters Kluwer. (Accessed May 7, 2024.)

### Lichen sclerosus





#### Lichen sclerosus

- Females: labial, perineum, perianal skin
- Clinical clues: tearing during intercourse, fissures (sometimes very shallow), itching and/or pain (but not always), loss of architecture later in disease course
- Also consider in pre-menopausal adult women
- Males: typically involves tip/head of penis
- Requires high potency topical steroids (usually clobetasol 0.05% ointment) usually daily during flares and twice weekly as ongoing maintenance
- Recommend specialist referral to confirm diagnosis (often with biopsy) and for ongoing monitoring given increased risk for dysplasia

### Perianal extramammary Paget disease



Source:DermNet - CC BY-NC-ND 3.0 NZ

https://dermnetnz.org/topics/extramammary-paget-disease

### Combination topicals

- Clotriamzole/betamethasone: dermatologists mostly steer clear of combination topical anti-fungal/yeast and steroids bc of the risk for tinea incognito
  - Topical steroid helps with visible inflammation in the short term, but actually promotes the growth of fungus/yeast (if they're present) such that the rash continues to recur and the fungus/yeast are actually driven deeper in the skin and are harder to treat, eventually requiring oral meds

### Topical anti-inflammatories

- Topical steroids
  - Face, groin, folds of skin: low strength
    - Hydrocortisone 2.5% cream/ointment
    - Desonide 0.05% cream/ointment
  - Torso and extremities: medium strength
    - Triamcinolone 0.1% cream/ointment
  - Hands, feet, scalp: high strength
    - Clobetasol 0.05% cream/ointment/solution (scalp)

### Topical anti-inflammatories

- General rules for topical steroids
  - Ointments stronger than creams but also more greasy
  - Creams can be more irritating than ointments be they contain alcohol
  - Can use BID prn, if using BID daily need to start thinking about taking breaks, I advise BID Mon-Fri and breaks on weekends OR BID x 2 weeks and then 1 week break before restarting

### Topical anti-inflammatories

- Topical non-steroidal anti-inflammatories
  - Can be nice because you don't have to worry about topical steroid side effects of thinning/atrophy with consistent use
  - Burning sensation may limit use in some
  - Generally not used diffusely, often considered for face, folds, neck
  - Tacrolimus 0.1% ointment: BID prn to affected skin
    - Can be used on face, groin, and folds, but may be more likely to burn in these locations
    - 0.03% ointment is strength approved for kids, may be helpful for pts who cannot tolerate 0.1% secondary to burning
  - Pimecrolimus 0.1% cream: BID prn to affected skin

### Topicals for itchy, dry skin

- Thick, bland emollient without scent in tub or jar
- Vaseline/petroleum jelly
- Cetaphil
- CeraVe
- Vanicream
- Sarna anti-itch cream/lotion (camphor-menthol 0.5%/0.5%)
- Aquaphor: contains lanolin which is an allergen for some

### **Scabies**







Author: GZZZ- CC BY-SA 4.0



Author: Fhgd - CC BY-SA 3.0

# Scabies



Author: Dogad75

# Scabies





Source:DermNet - CC BY-NC-ND 3.0 NZ

https://dermnetnz.org/topics/tinea-pedis-images

#### **Scabies**

- Permethrin 5% cream: apply from neck down once, rinse off 6-8 hours later, repeat this 7 days later
- Alternative: oral ivermectin 200 mcg/kg as single dose followed by a repeat dose in 1-2 weeks
  - 0.2 x weight in kg
  - Only comes in 3 mg pills
- Wash sheets in hot water
- Close contacts should be treated as well

#### Herpes simplex virus (HSV)

• Classic presentations: orofacial or genital

https://commons.wikimedia.org/ wiki/File:Herpes\_labialis\_-\_opryszczka\_wargowa.jpg





#### Varicella zoster virus (VZV)

 Classic presentations: varicella (chicken pox) or zoster (shingles)





https://commons.wikimedia. org/wiki/File:Genital\_herpes\_ female.jpg

Author: - CC BY-SA 3.0

# HSV and VZV: 'dew drops on a rose petal'



Author: Arenavittorio - CC BY-SA 4.0

# HSV and VZV: scalloped borders



Source:DermNet - CC BY-NC-ND 3.0 NZ

https://dermnetnz.org/topics/tinea-pedis-images

#### **HSV** and VZV

- Diagnosis
  - PCR swab the base of lesion (de-roof if base is not exposed)
  - Send for HSV 1/2 PCR and VZV PCR (2 separate orders)

#### **HSV** and VZV

- Treatment
  - Best if initiated within 72 hours of onset, but likely still some benefit thereafter (definitely if still getting new lesions)
  - Recommend looking up because regimen depends on HSV or VZV, local or generalized, primary or recurrent, and whether patient is immunocompromised
  - I prefer valacyclovir over acyclovir because less frequent dosing and better absorbed