

**Dermatology for the Primary  
Care Nurse Practitioner**

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- ❖ Bachelor's of Nursing from Wichita State
- ❖ Master's of Nursing- Family Nurse Practitioner from University of Missouri—Kansas City
- ❖ Emergency Department Nurse Practitioner
- ❖ Been in Dermatology for 15 years: 5 years at Moeller Dermatology in Wichita Kansas, 10 years at Dermatology and Skin Cancer Center (part of US Derm Partners) in the Kansas City area
- ❖ Board Certified in Dermatology

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**Disclosures**

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No Disclosures at this time

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## What you will take home

- ❖ Common primary care dermatologic conditions and how to treat them
- ❖ What, when, and why to refer to dermatology

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## Tineas

Tinea Corporis

Tinea Manum

Tinea Cruris

Onychomycosis

Tinea Versicolor

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Figure 2



## Tinea Corporis

- \*"Ringworm"
- \*Well-demarcated border, scaly, itchy
- \*Multiple fungi can cause
- \*Topical treatment is effective if not widespread—  
Iloprox cream bid x1 month
- \*Terbinafine qd x 2 weeks and topical therapy if  
widespread
- \*If involving scalp or beard area, needs oral therapy  
for 4-6 weeks

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Figure 3



## Tinea Manuum

- \*One hand affected
- \*"Two feet-one hand" -check for  
tinea pedis or onychomycosis
- \*Treatment: treat with topicals if  
feet and toenails are not affected.
- \*If toenails are affected treat the  
onychomycosis

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Figure 4



## Tinea Cruris

- \*"Jock Itch"
- \*Well demarcated border, itchy
- \*Check feet/toenails—toenail  
involvement treat for  
onychomycosis
- \*Topical therapy-ketoconazole  
cream, shampoo, foam bid x  
1month.
- \*Recalcitrant cases-terbinafine bid x  
2 weeks.

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## Onychomycosis



- Superficial White onychomycosis- treat with topical antifungals (ketoconazole/loprox) bid x 1month or clear or Jublia qd until clear
- Onychomycosis- nail biopsy for PAS
- Treat with topical Jublia (insurance coverage challenging)
- Terbinafine qd x 6 weeks (fingernails)
- Terbinafine qd x 12 weeks (toenails)
- Lab monitoring: LFT's baseline, 6 weeks and 12 weeks

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## Steroid/Antifungal



\*Steroids will make a fungal infection worse

\*Majocchi's granuloma

\*Tinea Incognita

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## Tinea Versicolor

- Overgrowth of pityriporin ovale
- Flares in the warmer months of the year, but for some can be chronic (tanners, frequent exercise)
- KOH useful in diagnosing
- Treatment: Diflucan 100mg po x 7days
- Ketoconazole/Loprox shampoo qd in shower
- Can use ketoconazole/loprox shampoo 2-3 x week for prevention



Figure 10

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## Dermatitis

Contact

Atopic

Seborrheic

Perioral

Hand

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### Contact Dermatitis

Most common allergens are soap, detergents, hair dyes and jewelry

Can present due to an ingested allergen, especially eyelid dermatitis—nickel, artificial sweeteners

Patch testing options: 36 Truic, NAC 80



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### Perioral Dermatitis

• More common in females

• Season changes, stress related

• Often mistaken for acne or delayed treatment

• Considered a variant of rosacea

**\*Treatment**

• Doxycycline/Minocycline

• Finacea, Metrogel

• Clindaycin



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## Atopic Dermatitis

- “The itch that rashes”
- Often starts in infancy and usually improves with age
- Flexural areas, Morgan-Dennie lines
- Atopic Triad/March (Dermatitis, Allergies, Asthma)
- Psychosocial impact, family dynamics, growth



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## Atopic Dermatitis- -Treatment



- Mild-moderate cases and flares-topical steroids paired with steroid-sparing agents (Protopic, Elidel, Eucrisa)
- Severe cases ages 12 and above-Dupixent
- Bleach sprays
- Zyrtec/Singulair
- Moisturizers- Cerave, Cetaphil Pro Line

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## Seborrheic Dermatitis

- Overproduction of sebum—scalp, ears, eyebrow, ala, and nasolabial fold
- If very scaly use keratolytic to help remove scale—Isal shampoos, Am-lactin lotion
- Ketoconazole shampoo/cream
- Eucrisa, Calcineurin Inhibitors (Elidel, Protopic)
- Vanicream Z-bar (zinc pyrithione)
- Steroids for severely inflamed or recalcitrant cases



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# Psoriasis

Plaque, Inverse, Nail, Scalp  
Guttate Psoriasis  
Psoriatic Arthritis  
Long term effects  
Psychosocial Impact



### Treatment

- Topical (Steroids, Retinoids, Vit D Analogs)
  - Oint (Ozocel)
- Biologics (TNF; IL-17, IL-23)

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# Hidradentitis Suppurativa



- Devastating skin disease that causes painful nodules under the skin
- Cause is unknown
- Can cause significant scarring and sinus tracking
- Psychosocial impact

### Treatment

- \*Mild/Early cases can be managed with topical medications, oral antibiotics and spironolactone for females
- \*Only one medication is FDA approved for HS--Humira

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**Definition of Teenager:**  
Hormonal little freaks that run around thinking they know it all.

Just for fun



<https://www.facebook.com/Jewelsmystique>

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## Acne

"There is no single disease which causes more psychic trauma, more maladjustment between parents and children, more general insecurity and feelings of inferiority and greater sums of psychic suffering than does acne vulgaris."<sup>1</sup> R. Fried 2019

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"I've got goose pimples."

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## Comedonal Acne



\*Comedonal acne has two main causes: **acne bacteria on the surface of the skin and clogged pores**. Another common cause is **hormonal changes** in the body that cause the sebaceous glands in the skin to produce too much **sebum**, which mixes with dead skin cells on the surface of the skin and to create plugs that clog pores. Derm Review Nov 20 2018

\*Treatment mainstay is topical retinoids: tretinoin, tretinoin combo products, adapalene, tazarotene.

\*Consistency is key

\*Set expectations—60-80% improvement in 6-8 weeks

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## Inflammatory acne

Propionibacterium acnes (*P. acnes*)  
Delayed treatment of comedonal acne

### Treatment

- Antibiotics: Minocycline, Doxycycline, Seysara
- Topical antibiotics: Clindamycin, Sulfá
- Topical antibiotic/retinoid combo products (Velin, clinda/tret)
- BPO/retinoid combo products (Epiduo/Epiduo Forte)



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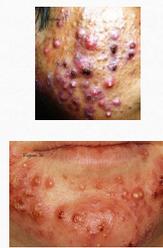
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## Cystic, Nodulocystic Acne

Severe acne with inflammation affecting the deeper layers of skin  
Extremely likely to scar  
The longer the delay in treatment more likely permanent and lasting results from the acne

### Treatment

- ◆ Oral/Topical Antibiotics
- ◆ ACCUTANE (Isotretinoin)



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## Accutane Before/After



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## ACCUTANE

- ❖ Ipledge
- ❖ Side effects
- ❖ Contraception
- ❖ Forms

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## IPLEDGE Education Materials



P-39

IPLEDGE

Figure 39

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## Keratosis Pilaris



Figure 40

Figure 41

- \*Keratosis Pilaris- plugging of the hair follicles with keratin
- \*Genetic
- \*Worsens in the pre-pubescent/pubescent years
- \*Treatment
  - Keratolytics
  - Retinoids
  - Eucerin

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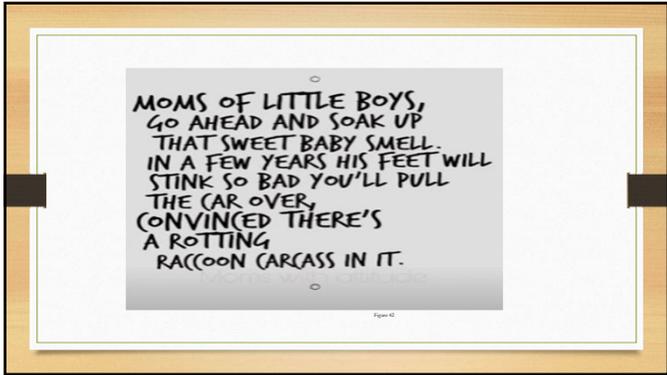
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### Hyperhidrosis

- Excessive sweating—axilla, hands, and feet most common
- Certain-Dri (OTC)
- Drysol (currently on backorder)
- Oral anticholinergics—Robinal
- Topical anticholinergics-Qbrexa
- Botox

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### Bromhidrosis

- Odor caused by bacteria due to hyperhidrosis
- Control the hyperhidrosis
- Control the bacteria
  - Antibacterial soaps
  - Panoxyl (Benzoyl Peroxide) Wash
  - Bleach baths/sprays
  - Hand sanitizer
  - Topical antibiotics (clindamycin wipes, solution, gel)

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## Androgenetic Acne

- Adult female acne
  - Lower on the face
  - More cystic in nature
  - "Never come to a head"
- Treatment
- Spironolactone
  - Sulfu cleansers
  - Low dose Doxycycline
  - Aczone



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## Androgenetic Alopecia

- Post-menopausal females  
Frontal thinning, bi-temporal recession or  
widening part-line
- Treatment
- Baseline lab: CBC, CMP, ferritin, Vit D,  
ANA reflex, T-4, and TSH
- Spironolactone



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Treatment

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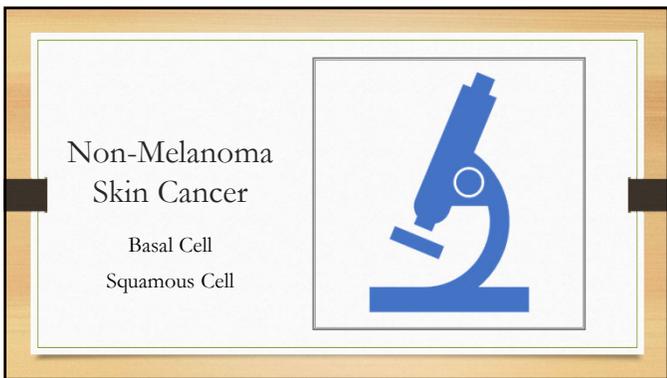
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## Basal Cell Cancer

- Most common skin cancer
- In the US alone, more than 4 million cases will be diagnosed each year
- Slow growing
- Fair skinned
- UV sun exposure
- Multiple sunburns
- Different subtypes (nodular, pigmented, superficial, morphea-form, infiltrative- to name a few). Important in determining treatment plan.



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## Basal Cell

BCC



BCC



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## Treatment of BCC

- Depends on location, size, type and depth
- MOHS
  - Curettage
  - Excision
  - Imiquimod (alone or in combination of other treatments)



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## Squamous Cell Cancer

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## Squamous Cell Cancer

- Second most common skin cancer
- Fair skin
- UV sun exposure/tanning beds
- HPV virus
- Age > 50
- History of actinic keratosis

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## Treatment of Squamous Cell

Bowens (SCC in situ) depending on location

- Excision
- Curettage
- MOHs

Invasive SCC/or appropriate locations

- MOHs

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## Mohs Micrographic Surgery



- Gold standard for skin cancer treatment when location and skin cancer appropriate
- 98% cure rate
- Limits unnecessary tissue removal
- Mohs AUC app

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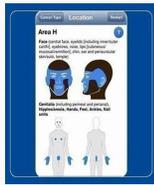
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## Mohs AUC



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## Melanoma

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## Melanoma

- Most dangerous form of skin cancer
- Not as common as non-melanoma skin cancers
- 20-30% arise in existing moles
- Approximately 70% will arise in normal skin
- Fair skin
- Correlation between breast cancer and melanoma
- UV exposure/tanning beds—Tanning beds increase risk by 75%
- Almost 200,000 cases will be diagnosed in 2019 and around 7,000 people will die from melanoma in 2019
- 5 Year survival rate if caught in the early stages is 98%



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## Treatment of Melanoma



- Depends on pathology report and depth
- Breslow is most important in determine treatment
- Breslow 0.1mm-0.7mm typically wide excision
- Breslow 0.7-1.0 "gray area"
- Breslow >1.0 referral to surgeon for wide excision and sentinel nodes, oncology consult
- Other things to consider: age, location, mitotic index

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## WHEN IN DOUBT—**BIOPSY** or **REFER**

Shave biopsy

Punch biopsy

Excisional biopsy

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## Skin Cancer Prevention

- ❖ Limit sun exposure during most intense hours 10am-4pm
- ❖ Hats, Sun Protective clothing
- ❖ Sunscreen
  - SPF >30
  - Physical Blocking Ingredients: Zinc oxide and Titanium Dioxide
  - Reapply water resistant for 80 minutes
- ❖ Regular Skin Exams

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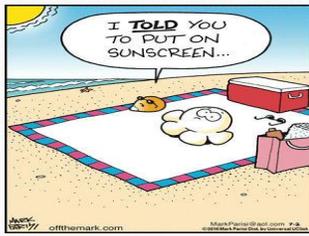
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What's the diagnosis?



Figure 68



Figure 69

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What's the diagnosis?



Figure 70



Figure 71

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What's the diagnosis?



Figure 72



Figure 73

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What's the diagnosis?



Figure 73



Figure 74

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What's the diagnosis?



Figure 75



Figure 76

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What's the diagnosis?



Figure 77



Figure 78

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What's the diagnosis?



Figure 79



Figure 80

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What the diagnosis?



Figure 81



Figure 82

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What's the diagnosis?



Figure 83

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Figure 80-84: US Dertpartners Tamca Wolf APRN

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Figure 43 <http://www.memegenerator.com>  
Figure 67 <http://www.offthemark.com>

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