

Agenda

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- 1. Introduction 2 min
- 2. Acne Vulgaris Overview and Topical management 20 min
- 3. Rosacea Overview and Management 15 min
- 4. Brief overview of indications to refer for Psoriasis management and Atopic Dermatitis 5 minutes
- 5. Questions & Link to Handout / Slides 15 min

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Introduction and Disclosures

Relationships with commercial interests:

- · Grants/Research Support: AIP Labs
- Speakers Bureau/Honoraria: Abbvie, Arcutis, Galderma, Bausch, LEO, Sanofi, Galderma, L'Oreal, Pfizer, Sun Pharma





Overview: Severity of Acne









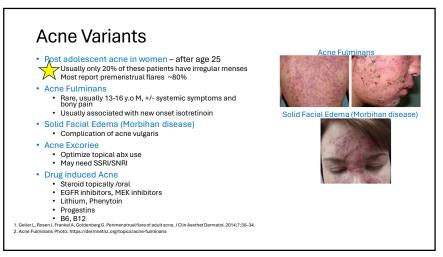
Mild/ Comedonal Acne

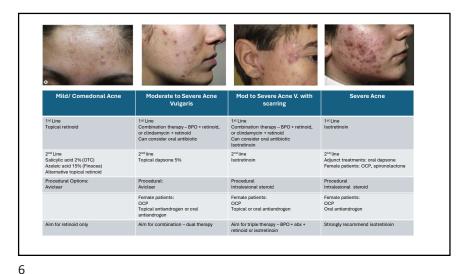
Moderate to Severe Acne Vulgaris

Mod to Severe Acne V. with scarring

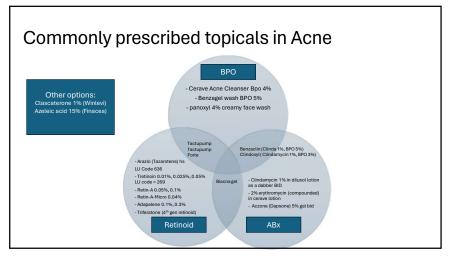
Severe Acne

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New Developments in 2023-2024

New acne topical: clascoterone 1%
Topical androgen inhibitor
Noted to decrease sebum on the skin, and the local effects of androgen
Limited systemic absorption
Tolerability – Off label pearl: great in combination with a topical retinoid due to vehicle
Product monograph recommends BID application (1g daily)
Side effects: burning, irritation in 5-7%

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New Developments

- Discontinuation:
 - , Stieva-A (tretinoin cream) is being discontinued

Newer brands: Vitamin A Acid

- Gel only formulation: Tretinoin 0.01% gel and Tretinoin 0.05% gel (LU code 269 applies)
- Existing tretinoin brands include
 - Gel or cream formulation: Retin-A 0.01%, 0.025% (No LU Code)
 - Cream only formulation: Retin-A 0.05% cream, 0.1% cream. (No LU Code)

New developments

- Tazorac discontinued
- Arazlo topical tazarotene lotion 0.045%
- LU code = 636
- Off label use: post inflammatory hyperpigmentation, photoaging, KP
- My tip: Titrate slower than other retinoids or initiate as short contact daily



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Tips for improving tolerability Hydro Boost od crown ed crown All processors Neutrogens Neutrogens



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Tips for Successful Topical Treatment



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Start every other night pea sized amount to all acne prone areas x 1 month then titrate up as tolerated (not spot treatment)

Offer Benzaclin or Aczone gel for spot treatment

- · Wash face first, let it dry
- Apply moisturizer, apply medication, and then moisturize again no need to wait until moisturizer is fully absorbed
- Dial back frequency to 2x/week as soon as they notice any "burning/stinging" and work up from there
- Remove other AHAs, BHAs from skincare routine

Set Expectations: takes 6-8 weeks to see any result, and 12 weeks for good results.

Post adolescent acne in women

- Often do not have PCOS, or other signs of hyperandrogenemia
- Will often report perimenstrual flares
- Usually age >25

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- Treatment options:
 - OCP: similar effectiveness to oral antibiotics at 6 months.
 - · 3rd generation progestins less likely to contribute to acne
 - · drospirenone, cyproterone acetate, dienogest have antiandrogenic properties
 - Spironolactone 50-100mg for acne, for hirsutism + acne consider 150mg-200mg daily.
 - . Can consider low dose isotretinoin + spironolactone to start

Pregnancy Considerations

- Contraindicated: Use of tetracyclines, isotretinoin, topical retinoids
- Good data to support use of topicals:
 - · Clindamycin 1% daily to bid
 - · BPO 3-10% daily to bid
 - Erythromycin 2% bid
 - · Azelaic acid 15% bid
- Oral options:
 - Consider referral to dermatology
 - Azithromycin 3x/week dosing can be considered in severe cases

Controversy: Diet and Acne

- observational studies in different ethnic groups have found that intake of milk, especially skim milk, is positively associated with acne prevalence and severity
- · Whey protein for body building has also been implicated
- B12 excess can also contribute by disrupting microbiota and producing more proinflammatory cytokines at the skin surface
- · Foods with high glycemic index can contribute to acne

More information can be found at https://www.aad.org/public/diseases/acne/causes/diet

Controversy: IBD and Isotretinoin

- global population-based retrospective cohort study assigned 2 groups of patients with acne initiating isotretinoin (n = 77,005) and oral antibiotics (n = 77,005)
- · Results:
 - lifetime risk of Crohn's disease hazard ratio [HR], 1.05;
 - lifetime risk of UC hazard ratio -1.13
 - Risk of IBD was comparable between study groups (oral abx vs isotretinoin)
 - In time-stratified analysis:
 - isotretinoin-related risk of UC was significantly increased during the first 6 months following drug initiation – hazard ratio 1.93
 - HR decreased afterward to level the risk of the comparator group.

Kridin K, Ludwig RJ. Isotretinoin and the risk of inflammatory bowel disease and irritable bowel syndrome: A large-scale global study. J Am Acad Dermatol. 2023 Apr;88(4):824-830. doi 10.1016/j.jaad.2022.12.015. Epub 2022 Dec 15. PMID: 36529376.

Controversy: Isotretinoin and Depression

- · Causal link reported between isotretinoin and depression
- 1st Study
 - 8,000 patients age 18-65 who were diagnosed with acne between January 2001 and December 2017
 - Forty-one of the 1,087 patients exposed to isotretinoin (3.77 percent) developed depression, compared to 1,775 of the 36,929 who were not exposed to isotretinoin (4.81 percent)
- 2nd study:

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- · Meta-analysis of 25 studies, 1.6 million patients
- Depression endorsed 3.8%
- SI / attempt / completed suicide 0.5%
- No epidemiological evidence to support relative increase in risk of depression with isotretinoin
- · Isotretinoin is not independent risk factor for depression
- Often patients with acne suffer from depression, and rate of depression is higher among adolescents in general

Tan NKW, Tang A, MacAlevey NCYL, Tan BKJ, Oon HH. Risk of Suicide and Psychiatric Disorders Among Isotretinoin Users: A Meta-Analysis. JAMA Dermatol. 2024;160(1):54–6. doi:10.1001/jamadermatol.2024.4579

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Treatment of Scars

- Topicals rarely help with this
 - Some case reports small studies support evidence for topical tazarotene
- Consider cosmetic modalities

RF microneedling

- Microneedling
- Pulse Dye Laser for post inflammatory erythema
- Laser resurfacing in certain skin types (CO2, fractionated)
- TCA peels localized to pitted scars
- Medium depth chemical peels



Rosacea Management

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Rosacea

- Vascular changes redness and flushing
- Epidermal barrier dysfunction (dry skin, burning, stinging)
- Absent comedones
- Thought to be related to demodex mites
- Four types:
 - Erythematotelangiectatic rosacea
 - Papulopustular
 - Rhinophyma
 - Ocular Rosacea



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Acne

- Acne Vulgaris
 - A multifactorial disorder of the pilosebaceous unit
 - Clinically characterized by comedones, papules, pustules, cysts and scarring
 - Look for comedones to differentiate from rosacea



Seborrheic Dermatitis

- Caused by malasezzia furfur complex
- Can mimic ocular rosacea as one of the complaints is often blepharitis
- Look for greasy scale along the brows, lash line, and nasolabial folds to distinguish from rosacea

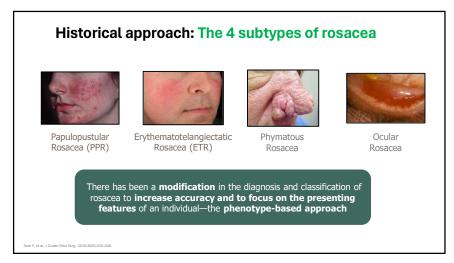


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Perioral Dermatitis

- Lower mid line face distribution
- Absence of comedones
- Burning, stinging, papules, and pustules are common complaints
- Due to steroid use or occlusive cosmeceuticals / cosmetics





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Guideline recommendations: Papulopustular rosacea (PPR)

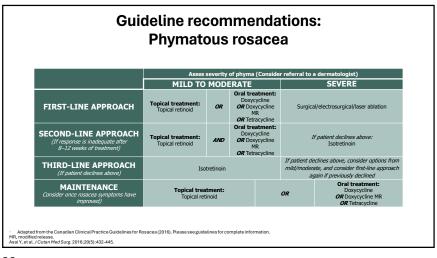
	Assess severity of papules/pustules						
	MILD (Characterized by a few papules/pustules)	MODERATE TO SEVERE* (Characterized by several to numerous/extensiv papules/pustules, with or without plaques)					
FIRST-LINE APPROACH	Topical treatment: Ivermectin OR Metronidazole OR Azelaic Acid	Topical treatment: Ivermectin OR Metronidazole OR Azelaic Acid	AND	Oral treatment: Doxycycline OR Doxycycline MR OR Tetracycline			
SECOND-LINE APPROACH (If response is inadequate after 8–12 weeks of treatment)		Alternative combination of first-line treatment options OR Low-dose isotretinoin†					
MAINTENANCE (Consider once rosacea symptoms have improved)		Topical ivermectin <i>OR</i> Metronidazole <i>OR</i> Azelaic Acid					

- Adapted from the Canadian Clinical Practice Guidelines for Rosacea (2016). Please see guidelines for complete information. MR, modified release. Assily, et al. Cutan Med Surg. 2016;20(5):432-445.

Guideline recommendations: Erythematotelangiectatic rosacea (ETR)

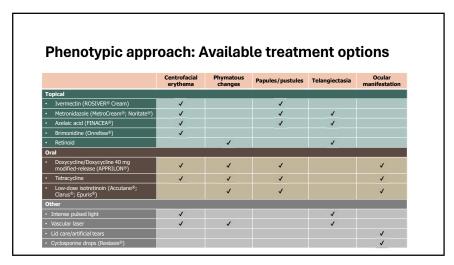
	Asses severity of background erythema* and for presence of telangiectasia				
	MILD		MODERATE TO SEVERE (Consider referral to a dermatologist)		
FIRST-LINE APPROACH	Topical treatment: Brimonidine OR Metronidazole OR Azelaic Acid				
SECOND-LINE APPROACH (If response is inadequate after 8–12 weeks of treatment)	Combinat	Alternative first-line treatment option OR Combination of first-line treatment options OR Intense pulsed light or vascular laser for erythema resistant to therapy			
THIRD-LINE APPROACH (If patient declines above)			Oral treatment: Doxycycline OR Doxycycline MR		
MAINTENANCE (Consider once rosacea symptoms have improved)	Topical treatment: Brimonidine OR Metronidazole	AND/OR	Laser/Intense pulsed light		

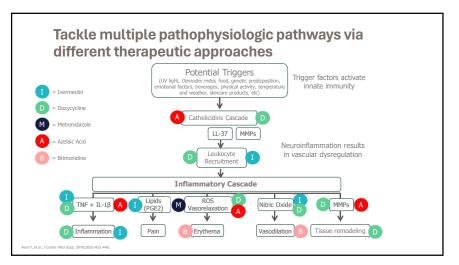
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	Asses s	everity of o	ocular symptoms	(Refer to ophth	almologist if dia	gnostic un	certainty)
	MILD Lid care AND Artificial tears		MODERATE TO SEVERE (Consider referral to a dermatologist)				
FIRST-LINE APPROACH			Refer to ocular specialist* AND Consider initiating treatment with: Lid care/artificial tears		AND	Oral treatment: Doxycycline OR Doxycycline MI OR Tetracycline	
SECOND-LINE APPROACH (If response is inadequate after 8–12 weeks of treatment)	Lid care/artificial tears	AND	Oral treatment: Doxycycline OR Doxycycline MR OR Tetracycline		Isotr	etinoin	
THIRD-LINE APPROACH (If patient declines above)	Consider referral to ocular specialist and/or cyclosporine drops						
MAINTENANCE (Consider once rosacea symptoms have improved)	Lid care/arti	Lid care/artificial tears		AND	Oral treatment: Doxycycline OR Doxycycline MR OR Tetracycline		

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Rosacea in Melanated Skin **Types**



- - · Patient complaints include: burning and stinging diffusely with acneiform eruption
 - · Worse with topical retinoid use
 - Swelling or thickening of the skin on the nose, cheeks, and chin
 - · Signs and symptoms of ocular rosacea





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Rosacea Fulminans

- Typically affects females, younger, can be in someone with hx of rosacea, or new diagnosis
- Peripartum flare usually post partum
- Tx: oral erythromycin post partum, isotretinoin
- Rarely require oral/systemic steroids







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Tips for co-managing Psoriasis and AD patients

Co-managing patients on biologics/cDMARDs

- Lab work up: Usually includes all Hep B serology (sAg, sAb, core), and Hep C, HIV as indicated by risk factors, TB skin test or quantiferon gold and chest x-ray
- 2. Any patient on a JAK inhibitor needs Shingrix vaccine ideally before starting even 18 year olds
- 3. Please ensure all relevant vaccines are up to date ideally before starting
- No live vaccines on systemic agents unless there pause /interruption in therapy that is adequate to allow for the vaccine. Liaise with dermatology if required

Tips: Referrals for Psoriasis

- Joint symptoms: Look for joint symptoms refer to rheumatology and dermatology at the same time
- BSA >10%: If patient has body surface area >10%, take pictures, manage with topicals and refer to derm. Indicate severity on the referral
- Special sites: face, genitals, folds, hands, feet can warrant use of systemic agents
- 4. Difficult to manage with chronic ultrapotent topical steroids and/or phototherapy.

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Tips: Referral for Atopic Dermatitis

- 1. History of recurrent infections (HSV, Impetigo)
- 2. BSA is greater than 10%
- 3. Special Site involvement: face, hands, feet
- 4. Affecting quality of life (itch burden)
- Difficult to manage with topical steroids patient or physician driven difficulty
- 6. Suspected allergic contact dermatitis eyelids, lips, hands
- 7. Occupation associated flares
- 8. Associated comorbidities e.g. asthma that can benefit from systemic therapy (e.g. dupilumab)