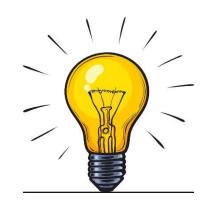






Diagnosis

ID reaction (eczematous type) due to pediculosis Capitus.



DERMATOLOGY for **Doctors**

Mariam Ahmad Baqi, MD.

Consultant Dermatologist

Arab Board

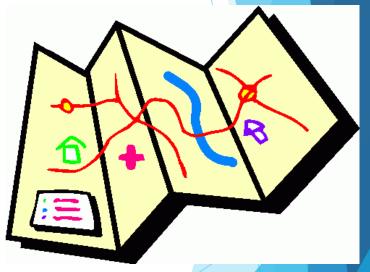
Fellow mount Siani, NYC

Founder and clinical Director of Nadhara Skin Center

Kingdom of Bahrain

2021

- Pearls and rules.
- Acne, rosacea and related disordes.
- Eczema.
- Papulosquamous disorders.
- Urticaria, angioedema.
- Pigmentary disorders.
- Infections.
- Skin and systemic disorders.



PERALS and RULES

- Rash : painful? Burning? Itchy?
- Timing of rash.
- Family history.
- Drug history.
- Travel history.

- Rules
- Fever and systemic symptoms.

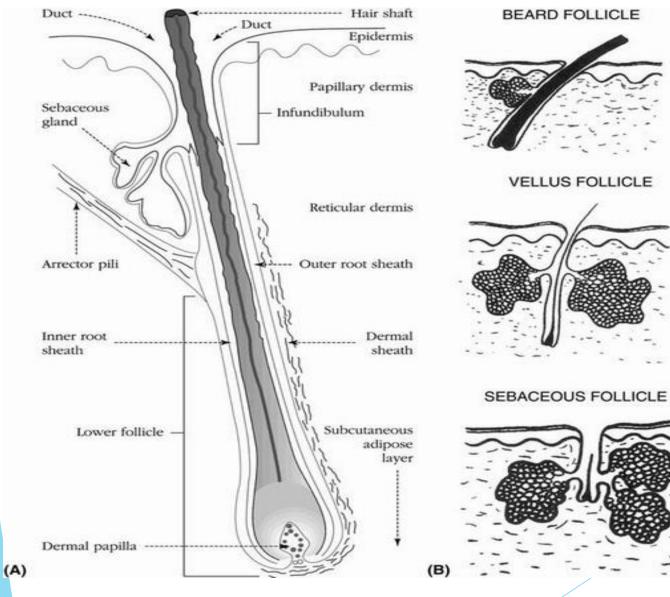
- Examine : scalp, nails, mouth, genitals.
- Any oozy lesion : SWAB for GS, CX , KOH.
- Any doubtful rash : BIOPSY.
- Any scaly lesion : SCRAP for cytology.
- Any nail lesion: CLIP for histology.
- Any chronic lesion that recently changed: BIOPSY.



ACNE and Related disorders



Acne



Acne classification

-1 Acne related to intrinsic causes:

Acne vulgaris

Acne conglobata

Acne fulminans

-2 Acne related to extrinisic causes:

Acne excorie'e

Acne tropica

Acne cosmetica

-3 Childhood acne:

Neonatal acne Infantile acne

Acne classification

- <u>4 -Acneform eruptions :</u>

Rosacea

Steroid Acne Perioral dermatitis Pyoderma faciale Acne mechanica Occupational acne Drug induced acne Gram negative follicultis.



Acne Vulgaris

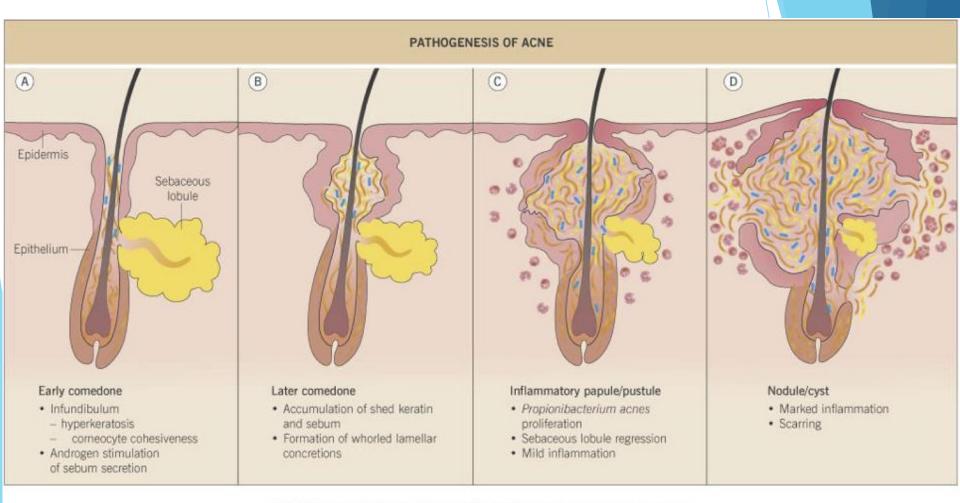


Acne Vulgaris

- Chronic inflammatory disease of the pilosebaceous units.
- Up to 75% 80% of tennagers and yound adults.



Acne pathogenesis



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Other etiolegies

- Stress.
- Pressure.
- Drugs.
- Food???
- Cosmetics with Lanolin or petroleum jelly.
- Oil based sunscreens.



Drug inducing acne

1- chemo

2-INH

3-Steroids

- 4-hormones (OCP, ACTH..)
- 5-Antimalarials.
- 6-Phenytoin.
- 7-chloral hydrate.
- 8-penicillins.
- 9-brmides and iodides.



Morphology



Comedonal (non-inflammatory)

Whitehead (closed): a dilated hair follicle filled with keratin, sebum, and bacteria, with an obstructed opening to the skin. Blackhead (open): a dilated hair follicle filled with keratin, sebum, and bacteria, with a wide opening to the skin capped with a blackened mass of skin debris.



Papulo-pustular (inflammatory)

Papule: small bump less than 5mm in diameter. Pustule: smaller bump with a visible central core of purulent material.



Nodular (inflammatory) Nodule: bump greater than

5mm in diameter.



Morphology based classification

Obstructive Acne

- Open Comedones (Black heads)
- Closed Comedones (White heads)
- Inflammatory Acne (in order of lesion formation)
 - papules
 - pustules
 - nodules
 - cysts
 - Scars



Classification according to sever

Acne Classification Moderate acne: several to Severe acne: numerous Mild acne: few to several many papules/pustules or extensive papules/pustule papules/pustules (10 to 40) along with and many nodules (generally <10) and no comedomes (10-40) and few nodules to several nodules

MODERATE



Investigations

- CBC.
- Lipid profile.
- FBS?
- Hormonal assay?
- Plevic Ultrasound??



Management

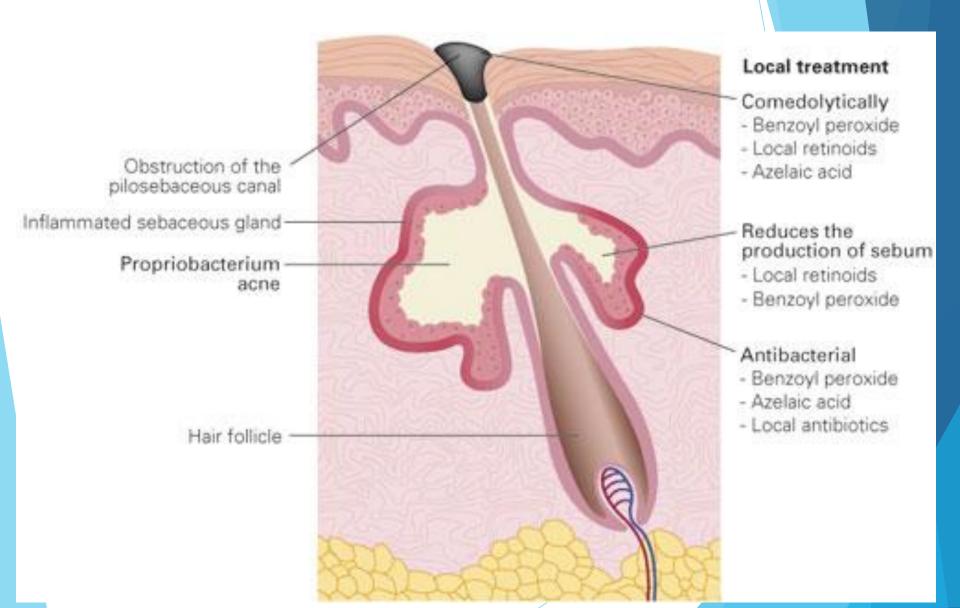
General recommendations:

- Do not squeeze lesions
 - Forces pus into Dermis.
 - Causes inflammation and scarring
- Limit washing face to 2-3 times per day
- Change cosmetics to water based products

Change OCP

- Increase Estrogen.
- Decrease androgenic effects of Progestin.

Drug Therapy







NORMADERM PHYTOSOL

GEL PURIFIANT INTENSE COE LA PEAU EN PROFONDEUR Entended d'organe velotione A RENCER

INTENSIVE PURIFYING GEL DEEPLY CLEANSES THE SON Economic book of plot/ or un INDE OFF

INCACTE CLAICUE PROVIN PRAIE A THIDANCE ACNEGH CUNICALLY PROVIN DRICACY ON BLEMON - PROVIN DRICACY





Eucerin
Dermo PURIFYER
CLEANSER Cleanses gently and effectively
6% Ampho-Tenside

M

Soap & Fragrance Free

MEDICAL SKINCARE



Drug therapy <u>mild acne</u>

Step 1: OTC topical medications for 6 weeks

- Acne wash.
- Topical Benzyl peroxide 2.5% gel in morning.

Step 2: Comedolytics and Topicals for 6 weeks

- Continue topical Benzyl peroxide in morning
- Add comedolytic at night
 - ▶ First-line options
 - ▶ Topical Tretenoin (Retin A) 0.025% cream
 - ▶ Adapelene (Differen) 0.1% gel
 - Warn regarding redness and irritation
 - Use only pea size amount per triangle of face
 - ▶ Use only at night-time

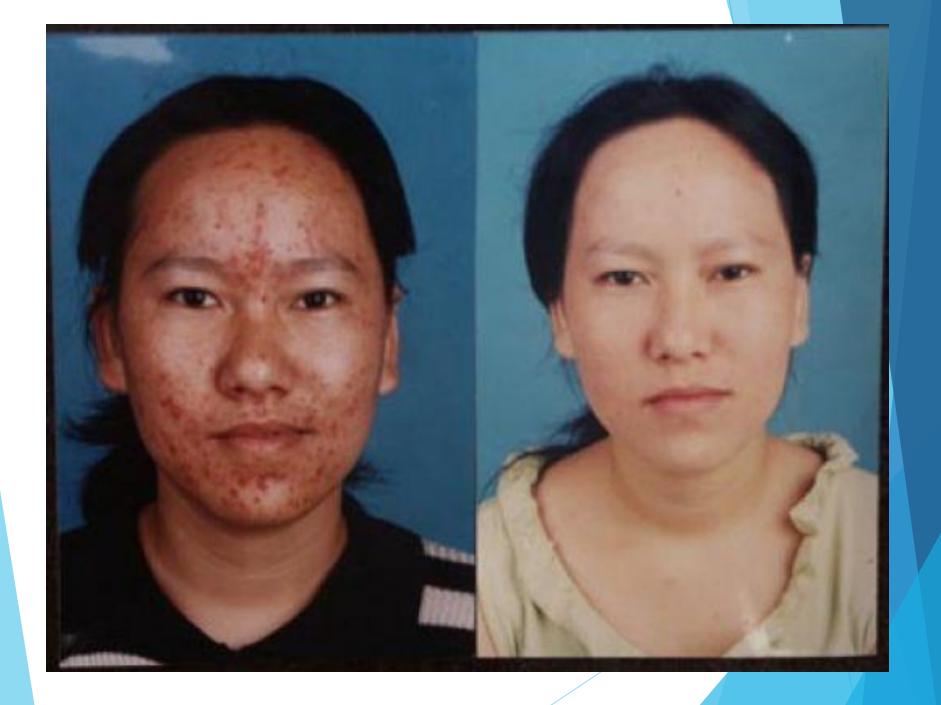
Step 3: Consider adding topical antibiotic

- falling out of favor due to growing resistance
 - Use topical Abx with Benzyl peroxide to prevent resistance.

Isotretenoin







Mechanism of action

- Unknown
- Isotretinoin markedly reduces sebum production and shrinks the sebaceous glands.
- It gets rid of comedones and prevents new ones forming.
- Treated skin is dry, inhibiting the growth of *P.acnes*.
- It has anti-inflammatory properties



indications

- Nodular or nodulocystic.
- Acne fulminans or acne conglobata.
- Scarring acne .
- Moderate acne which has failed to respond to topicals combined with oral abx.
- Acne which relapses rapidly on discontinuing treatment.
- Acne which has persisted for several years, or older sage groups.
- When the acne has a significant adverse occupational, social or psychological effect on the patient's life.





Before



Dosage

Depends on:

- The patient's body weight (0.5 mg/Kg).
- Cumulative dose : 120 and 150-mg/kg-body weight.
- The specific condition being treated
- The severity of skin condition
- The response to treatment
- Other treatment used at the same time
- The severity of side effects

Side Effects

<u>1-Skin:</u>

- -Dryness (reach until eczema).
- -Staph infections.
- -Pyogenic granulomas.
- -Paronychias.
- -Hypertrophic scar formation.
- -photosensitivity.

<u>2-Ocular:</u>

- -reduced night vision
- -dry eyes
- -Staph. Infection.

3-Bones:

-Diffuse Idiopathic skeletal hyperstosis.-Premature epiphysal closure.





4-Lipids derangement.

- 5-Gastrointestinal:
 - -IBD flare up.
 - -Pancereatitis.
- 6-Hepatic:
 - -Enzyme derangement.
 - -Hepatitis.
- 7-Endocrine:
 - -Hypothyroidism.
 - -DM ?



8-hematological:

- -Leucopenia.
- -Agranulocytosis.

9-Neurological:

-Pseudotumor cerebri.

-Mood swings.

10-Others:

-Myopathy.

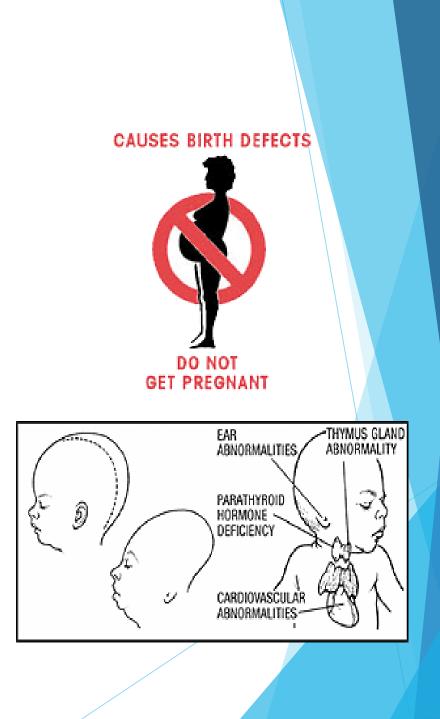
-Bodyaches.

-hair falling.



- Severe Internal Defects: defects that you cannot see involving the brain (including lower IQ scores), heart, glands and nervous system.
- Severe External Defects:

as low-set, deformed or absent ears, wideset eyes, depressed bridge of nose, enlarged head and small chin.



Neonala acne



Infantile acne



Acne pomade



Acne conglobata



Gram Negative Folliculitis



Perioral Dermatitis









Rosacea

- Rosacea (Latin "like rose").
- Chronic inflammatory acneform inflammation with periodoc exacerbation and remission of the pilosebaceous unit of the face.

Epidemeology

- common.
- Females.
- 30-50 Yr old.



Etiology

- 1- GIT indigestion : ? H.Pylori.
- 2- Reaction to mite Demodex follicularum.
- 3- Sun exposure.
- 4- Psycological.
- 5- Food :hot food, caffiene, alcohol, histamine containig food (diaries, beers, bacon ...), bananas, chocolates.
- 6- drugs: chronic potent topical steroids, topical peelinga gents.
- 7-harsh facial routine.

A survey by the National Rosacea Society of 1,066 rosacea patients showed which factors affect the most people:

- Sun exposure 81%
- Emotional stress 79%
- ► Hot weather 75%
- ▶ Wind 57%
- ► Heavy exercise 56%
- Alcohol consumption 52%
- ▶ Hot baths 51%
- Cold weather 46%
- Spicy foods 45%
- Indoor heat 41%
- Heated beverages 36%
- Certain cosmetics 27%
- Medications (specifically stimulants) 15%
- Certain fruits 13%

Manifestations

Clinically 2 components:

- 1- vascular changes of intermittent then constant flushing, talengiectasia.
- 2-Acneform eruption: papule, pustule, cysts and sebaceous hperplasia.





<u>1- Erythematotelangiectatic :</u>

- Permanent erythema, talengiectasia and possibly intense burning, stinging, and/or itching sensations.
- Skin can also become very dry and flaky.
- In addition to the face, symptoms can also appear on the ears neck, chest, upper back, and scalp.





2- Papulopustular rosacea:

Some permanent redness with papules with some pustules.can be easily confused with acne.





3-Phymatous rosacea:

- -Thickening skin, irregular surface nodularities, and enlargement.
- -Commonly rhinophyma, but can also affect the chin (gnathophyma), forehead (metophyma), cheeks, eyelids (blepharophyma), and ears (otophyma).
- Telangiectasis may be present.

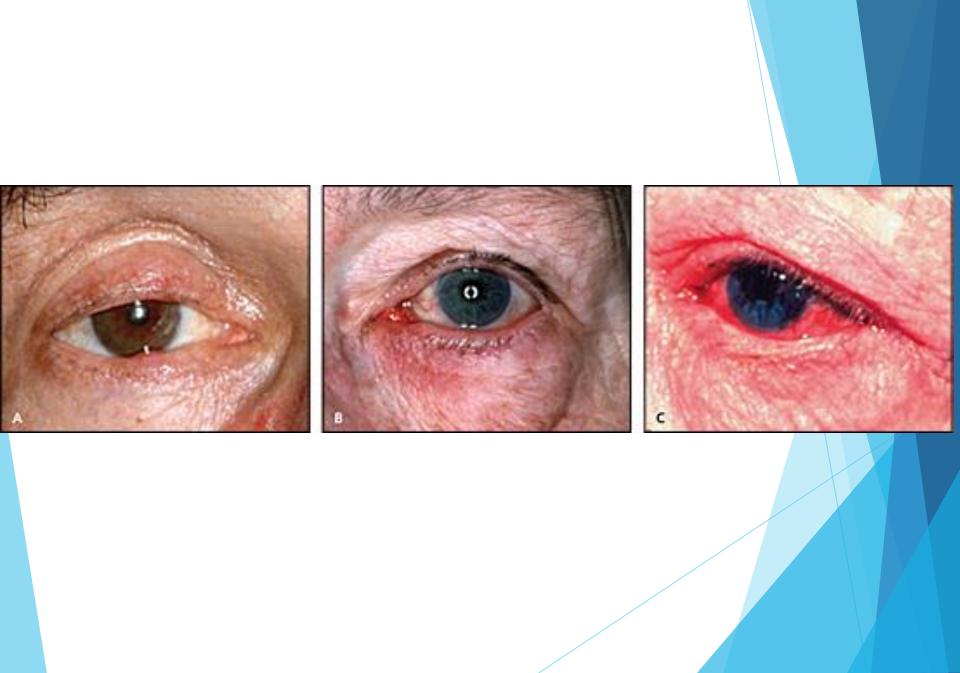




<u>4- Ocular rosacea:</u>

- Red dry eyes and lids.
- -Watery eyes.
- -Eyelids cysts.
- -itching, burning, stinging, and sensitivity to light.
- -Blurry vision and loss of vision can occur.





Treatment

- Hard and difficult.
- Avoidance of precipitants.
- Drug therapy:
 - 1- Topicals
 - 2 Systemic.





Topical treatment

Twice daily to help reduce inflammation and redness.
Along with oral medications or as part of a maintenance program.

-Common topical medications:

1-Metronidazole 1% gell/cream.

2-Azelaic acid gell.

3-Topical Abx (clindacin, Dalacin, clindamycin).
4-Immunmodulators (*Elidel* cream1% and *protopic oint* 0.03% and 0.1%).

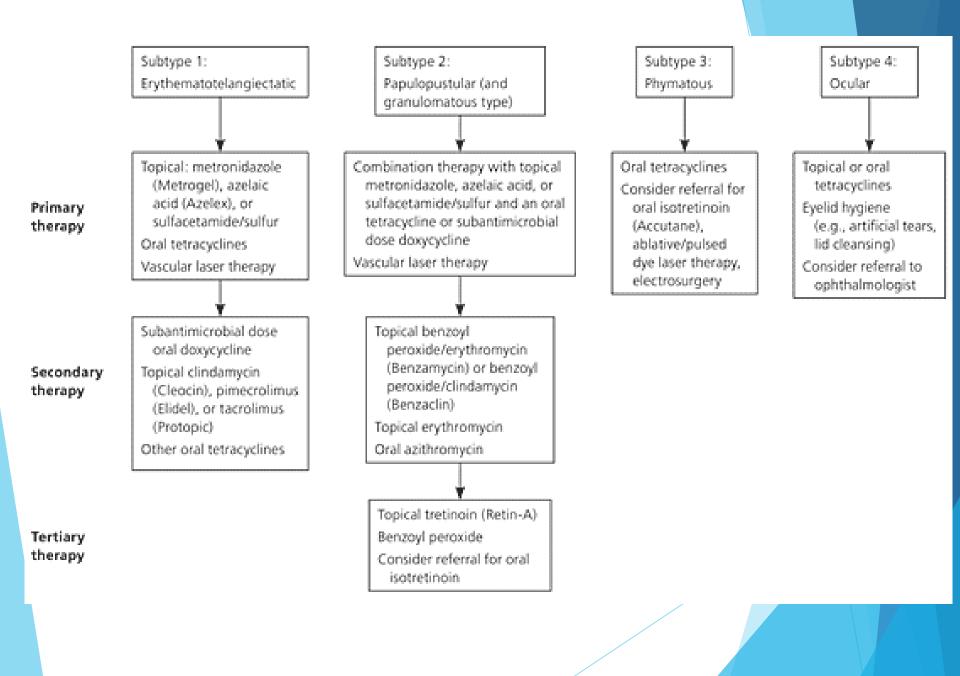












ECZEMA





- Non infective inflammatory condition of the skin.
- Greek = "to boil over".
- Reaction pattern to a variety of stimuli.

Eczema = Dermatitis.





Eczema classification

Туре	Endogenous	Exogenous	Unclassified
Clinical varieties	-Atopic -seberrhoic -Discoid (nummular) -Venous (stasis) -Pompholyx	-Irritant. -Photorection -Napkin dermatitis	 Astatotic eczema Lichen simplex chronicus Juvenile Plantar Dermatosis

Clinical presentation of Eczema

- Itching is a cardinal feautre.
- Acute stage vs chronic stage.
- Characheterized by polymorphous eruption: macule, papule, vesicle, crust, scales, lichenification and fissuring.

Lesions not sharply marginated.





Atopic Dertamtitis



Atopic Dermatitis

- Chronic relapsing pruritic inflammation.
- Unknown exact etiology.
- Inheritted tendency.
 - 15-40 % of polulation.

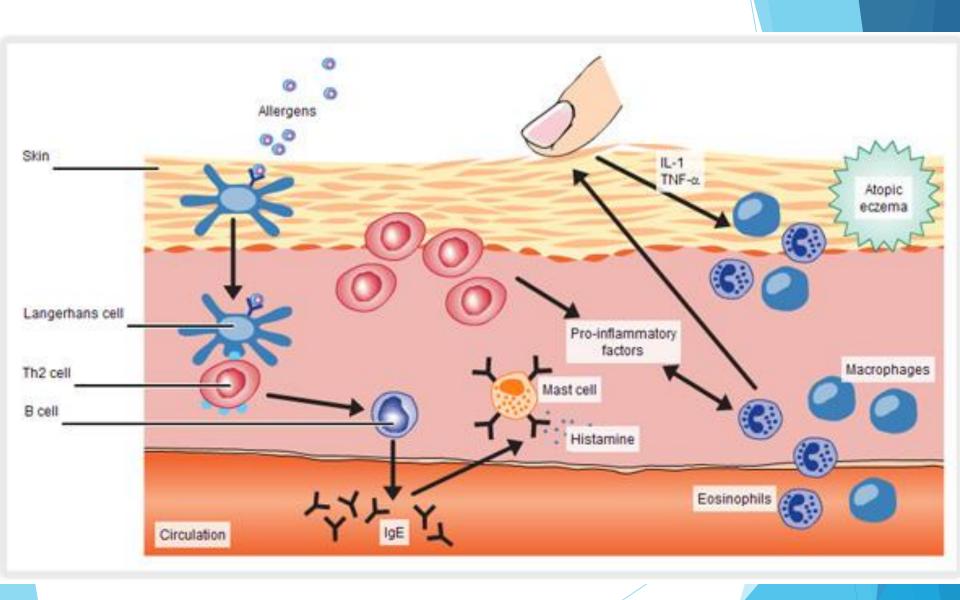


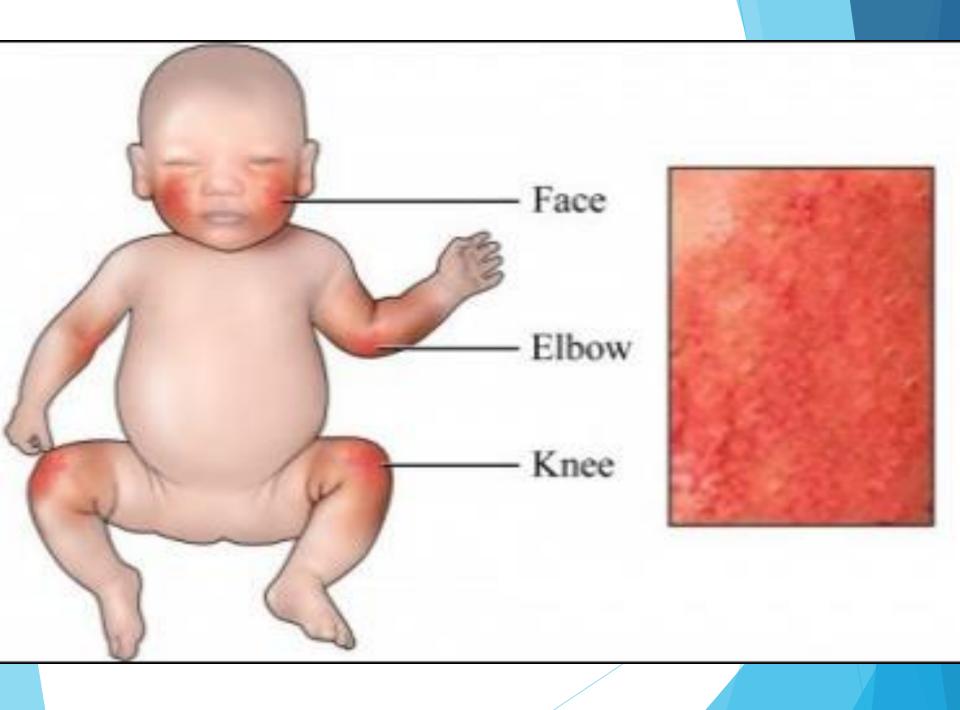
Etiology of AD

- <u>Multifactorial:</u>

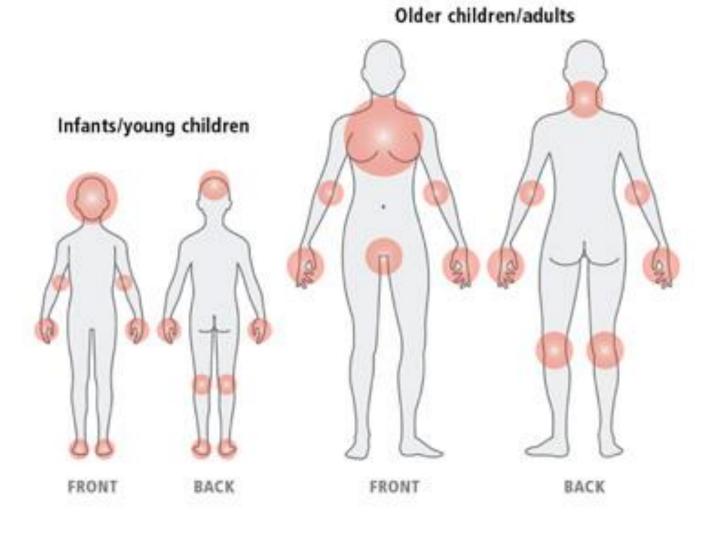
1-Hereditary2-Immunological3-Environmental







Clinical symptoms



Major Criteria (need three or more of the following):

Pruritus

Typical morphology and distribution

Facial and extensor involvement in infants and children

Flexural lichenification or linearity in adults

Chronic or chronically relapsing dermatitis

Personal or family history of atopy (allergic rhinitis, asthma, atopic dermatitis)

Minor Criteria (need three or more of the following):

Anterior neck folds Anterior subcapsular cataracts Cheilitis Course influenced by environmental or emotional factors Dennie-Morgan infraorbital fold Early age of onset Facial pallor or facial erythema Food intolerance Keratoconus I chthyosis, palmar hyperlinearity, or keratosis pilaris Immediate skin test reactivity Intolerance to wool and lipid solvents Itch when sweating Nipple eczema Orbital darkening Perifollicular accentuation Pityriasis alba Raised serum IgE Recurrent conjunctivitis Tendency toward cutaneous infections (especially S. aureus and herpes simplex). or impaired-cell immunity Tendency toward nonspecific hand or foot dermatitis White dermatographism or delayed blanch Xerosis

Source: Dermatol Nurs © 2006 Jannetti Publications, Inc.









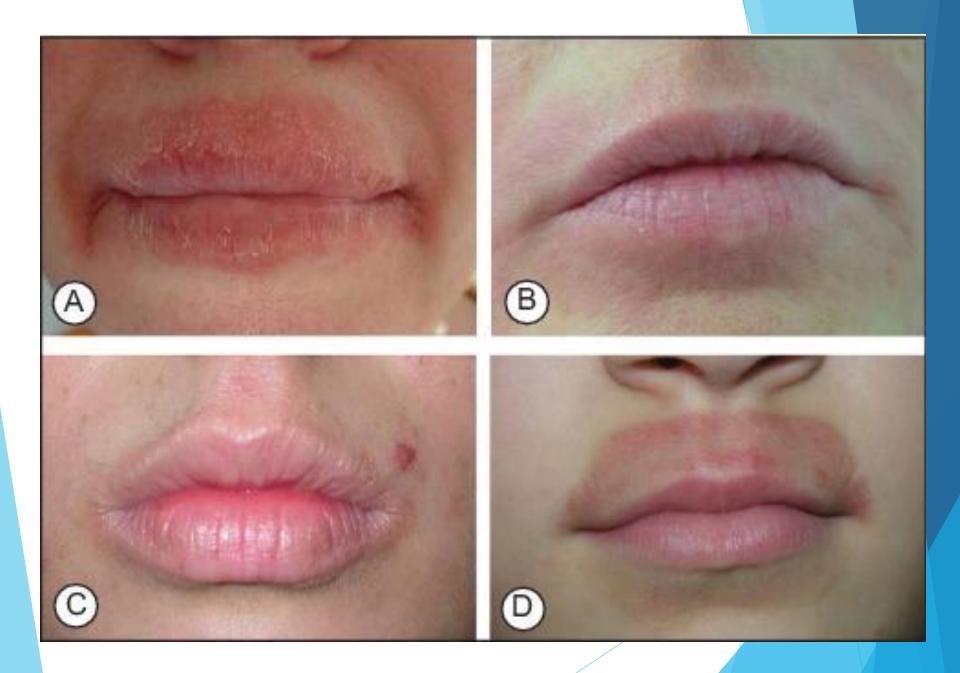






joseph bikowski m





Investigations?

Management



Lets make it simple!

Avoid irritants.

Control the surrounding environment.

Heat

Humidity

Pits

Carpets

Detergants

Moisturise .

Appropriate topical treatments.

Patient-Oriented Eczema Measure					
Please circle one response for each of the seven questions below. Young children should complete the questionnaire with the help of their parents. Please leave blank any questions you feel unable to answer.					
 Over the last week, on how many days has your/your child's skin been itchy because of the eczema? 					
No Days	1-2 Days	3-4 Days	5-6 Days	Every Day	
2. Over the last week, on how many nights has your/your child's sleep been disturbed because of the eczema?					
No Days	1-2 Days	3-4 Days	5-6 Days	Every Day	
3. Over the last week, on how many days has your/your child's skin been bleeding because of the eczema?					
No Days	1-2 Days	3-4 Days	5-6 Days	Every Day	
4. Over the last week, on how many days has your/your child's skin been weeping or oozing clear fluid because of the eczema?					
No Days	1-2 Days	3-4 Days	5-6 Days	Every Day	
	st week, on how ause of the eczem	v many days ha 1a?	s your/your child	1's skin been	
No Days	1-2 Days	3-4 Days	5-6 Days	Every Day	
6. Over the last week, on how many days has your/your child's skin been flaking off because of the eczema?					
No Days	1-2 Days	3-4 Days	5-6 Days	Every Day	
7. Over the last week, on how many days has your/your child's skin felt dry or rough because of the eczema?					
No Days	1-2 Days	3-4 Days	5-6 Days	Every Day	
Total Score (maximum 28)					

Figure 1. The patient-oriented eczema measure. Responses are scored as follows: 0, no days; 1, 1 to 2 days; 2, 3 to 4 days; 3, 5 to 6 days; and 4, every day.

Management

1-Avoid irritants and allergens

Environmental control measuresmay result in clinical improvement of AD

- Both respiratory and skin contact with these allergens may be important in induction/exacerbation of AD
- Avoid playing on grass, carpets
- Laundry
 - New clothing should be laundered before it is worn to reduce the content of formaldehyde and other chemicals.
 - Residual laundry detergent in clothing may be irritating, and, although changing to a milder detergent can be helpful, using a liquid rather than a powder detergent and adding an extra rinse cycle are more beneficial.
 - Avoid fabric softener and dryer sheets.

- Occlusive clothing should be avoided, and cotton or cotton blends should be used (avoid wool, synthetics)
- Minimize sweating (adjust climate)
- Avoid scratching, keep fingernails short, wear mittens at night, keep hands busy.

Summer :

- Swimming is usually well tolerated; however, because swimming pools are treated with chlorine or bromine, patients should shower and use a mild cleanser immediately afterward and then apply moisturizers or occlusives.
- Sunlight may be beneficial to some patients with AD, nonsensitizing sunscreens should be used to avoid sunburn.
- Avoid prolonged sun exposure which can cause irritating dryness, overheating, and sweating.

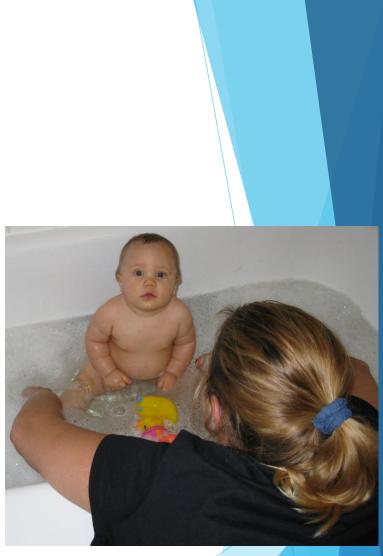
2-Skin cleansing

Use cleansers with minimal

defatting activity and a neutral pH (e.g. Dove sensitive skin, Cetaphil, Vaniderm, Basis, Aveeno, Purpose, and Neutrogena)

_ Bathe at least daily in tub

Schneider: "Soak and seal method" bath.





<u>3-Moisturizers</u>

- occlusives (e.g. petrolatum) retard evaporation but needs to be applied on damp/wet skin.
- humectants (e.g. glycerol) attract and hold water in the skin the skin.
- emollients (e.g. lanolin) lubricate the stratum corneum
- Vehicles: ointments best for lichenified skin and have less preservatives.
- creams preferred for moist intertrigenous areas but requires preservatives that may be sensitizing.
- solutions, gels, sprays are preferred for scalp but can contain alcohol and proylene glycol that burn and irritate



Medscape®	www.medscape	e.com		
Cla		Generic Name	Formulation	
Class 1 Very High Po	otency			
		Betamethasone dipropionate	0.05% G O (diprolene)	
		Clobetasol	0.05% CFGLO	
		Diflorasone diacetate	0.05% O	
		Halobetasol propionate	0.05% C O	
Olean 2 Llink Datasa		Halobetasor proproriate	0.05% C O	
Class 2 High Potency	¥			
		Amcinonide	0.1% O	
		Betamethasone dipropionate	0.05% C (diprolene)	
		Desoximetasone	0.05% G, 0.25% C O	
		Fluocinonide	0.05% C G O S	
		Halcinonide	0.1% C	
		Mometasone furoate	0.1% O	
Class 3 High Potency	v			
ones of high Followy		Amcinonide	0.1% C L	
		Betamethasone dipropionate	0.05% C (non-diprolene)	
		Betamethasone valerate	0.1% 0	
		Desoximetasone	0.05% C	
		Diflorasone diacetate	0.05% C	
		Fluticasone propionate	0.005% O	
		Halcinonide	0.1% O S	
		Triamcinolone	0.1% O	
Class 4 Mid Potency			0.170 0	
Class 4 mild Fotericy		Betamethasone valerate	0.12% F	
		Flucinolone acetonide	0.025% O	
		Flurandrenolide	0.05% O	
		Hydrocortisone valerate	0.2% O	
		Mometasone furoate	0.1% C	
		Triamcinolone	0.1% C	
Class 5 Mid Potency				
,		Betamethasone dipropionate	0.05% L	
		Betamethasone valerate	0.1% C	
		Flucinolone acetonide	0.025% C	
			0.05% C	
		Fluticasone propionate		
		Flurandrenolide	0.05% C	
		Hydrocortisone butyrate	0.1% C	
		Hydrocortisone valerate	0.2% C	
Class 6 Low Potency	1			
		Alcometasone dipropionate	0.05% C O	
		Betamethasone valerate	0.1% L	
		Desonide	0.05% CLO	
		Flucinolone acetonide	0.01% C S	
Close 7 Law Datasa		r locatorine acetoringe	0.01/0.00	
Class 7 Low Potency		Likeber auf anna an airth	0.5% 01.0.4% 0.05	
		Hydrocortisone acetate	0.5% CLO, 1% COF	
		Hydrocortisone hydrochloride	0.25% СЦ, 0.5% СLOS,	
			1% C L O S, 2% L, 2.5% C L O S	

O - Over set E - Example O - Oxfull - Letters O - Oxful and O - Oxful in

4-Corticosteroids

_ 1st line treatment for acute exacerbation.

_ For acute flare, apply BID x 7-14 days then wean to daily, every other day, to none.

- Face: use class VI-VII e.g. hydrocortisone 1-2.5% ointment.
- Body: use class II or lower, e.g. mometasone furoate 0.1% ointment (II), mometasone furoate 0.1% cream (IV), hydrocortisone valerate 0.2% ointment (IV)
- Scalp: use mid-low potency oil, lotion, foam, or gel.
- For preventative treatment of previously involved but now normal-appearing skin: apply steroid used for treatment 2 consecutive nights weekly

_ Oral corticosteroids - effective but associated with rebound flare-up, requires tapering, reserved for crisis management (0.5 mg/ kg tapered every 5 days).

- The thickness of skin varies in different areas of the body. The thinnest skin is found on the face (particularly the eyelids), genitals, body folds and the skin of infants. These areas absorb topical steroids very readily and are more prone to local side effects from them.
- Systemic absorption and adrenal suppression is only a concern if large amounts of potent topical steroids (e.g. more than 100g/week) are used over a long period of time (months).
- Topical steroids can further reduce the skin barrier function so are best applied as intermittent courses so it can recover.

Other treatment options fo resistant cases:

- NBUVB.
- Cyclosporin.
- Methotrexate.
- Celcept.
- Topical immunmodulators.



Tacrolimus (*Protopic*) and Pimetacrollimus (*Elidel*):

- Belong to a class of immune-suppressant drugs known as calcineurin inhibitors.
- **Indicated only in patients over 2 years of age.**
- The U.S. FDA has issued a black box warning stating the long-term safety of calcineurin inhibitors has not been established. Although a causal relationship has not been established, rare cases of malignancy have been reported with their use. It is recommended that these drugs only be used as second-line therapy for cases that are unresponsive to other forms of treatment and that their use be limited to the minimum time periods needed to control symptoms.
 - Use of these drugs should also be limited in people who have compromised immune systems.

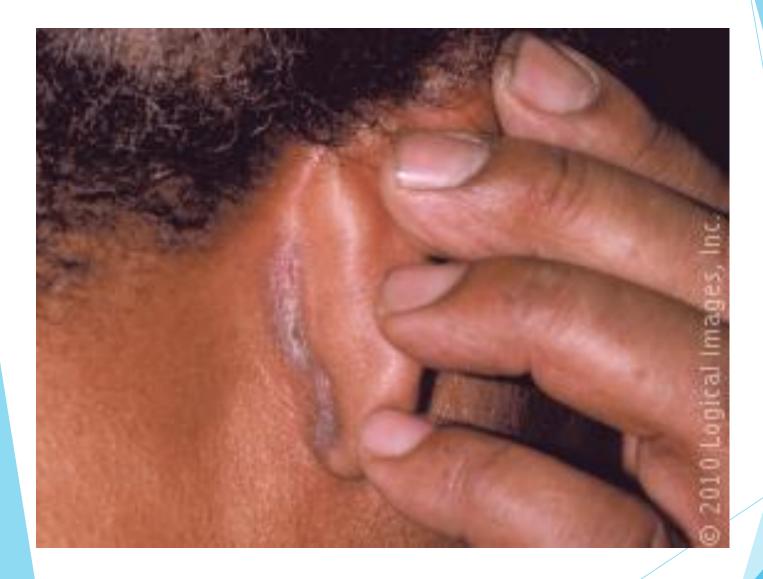
Seberrhoic Dermatitis



- An inflammatory skin disorder affecting the scalp, face, and body.
- YEAST ?
- Typically, seborrheic dermatitis presents with scaly, flaky, itchy, and red skin.
- Affects the sebaceous-gland-rich areas of skin.
- In adolescents and adults, seborrhoeic dermatitis usually presents as scalp scaling similar to dandruff or as mild to marked erythema of the nasolabial fold.





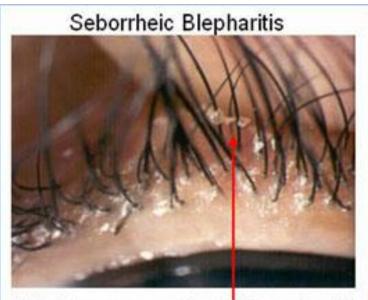




C Mayo Foundation for Medical Education and Research. All rights reserved.







Note the greasy scales / flakes along the eyelashes and lid margin. Patients have seborrheic dermatitis as well. Lid hygiene (warm compresses and eye lid scrubs) are the mainstay of treatment.



Management

-Scalp Lesion:

- Remove crusts: Olive oil in children, SA 2-3% in adults.
- Topical stroids lotions.
- Topical antifungal creams.
- Medicated shampoos.









Management

- Face and body lesions:

- Topical steroids.
- Topical antifungals.
- Combinational Rx:



Lichen Simplex Chronicus -Neurdermatitis-



Stasis Dermatitis



Napkin Dermatitis



What could it be?

What is the cause of napkin dermatitis?

- Irritant contact dermatitis: urine and faeces will cause a rash on any skin left in contact for long enough. Sometimes ammonia is formed and burns the skin.
- Infection with bacteria and candida yeasts (thrush).
- Other skin disorders: psoriasis and atopic dermatitis can affect the napkin area.







- Use disposable nappies if possible. Those containing absorbent hydrocellulose gel are excellent at preventing the urine soaking your baby's skin.
- Change the nappies frequently do not leave your baby in a wet or dirty nappy. You may need up to 12 changes per day.
- Give evening fluids early to reduce wetting at night. Change the baby before you go to bed yourself.
- Wash the baby's bottom at every change. Use warm water to remove all urine and bowel motions. Soap and "Wet-Ones" might sting if a rash is present. Pat dry carefully.
- Moisturize dry skin at every nappy change. If the skin feels dry, apply an non-irritating emollient to all affected areas.

Treatment

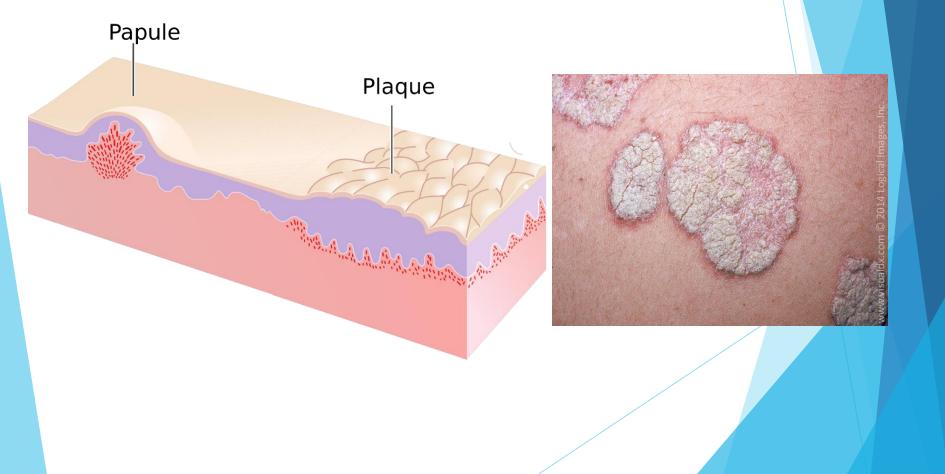
- Barrier: Vaseline or EO with cotton cloth pieces.
- Nappy off times.
- Topical treament:
 - Topical steroids (Hydrocortisone 1% once for only 3- 5 days).
 - Travacort cream.
 - Fucidin-H cream.

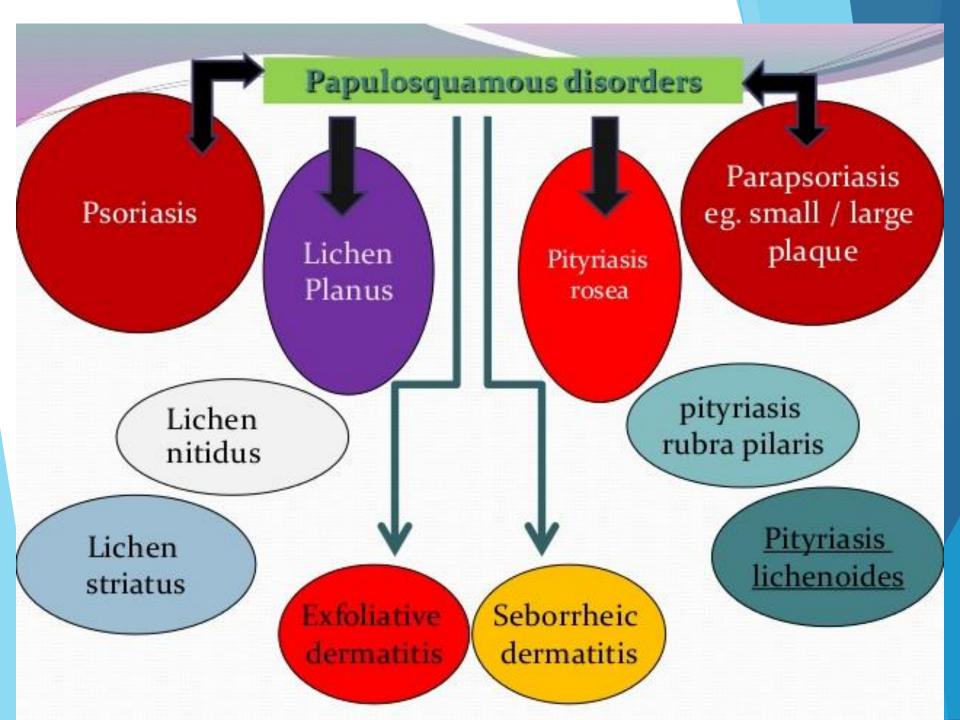


Papulosquamous disorders



Papule/plaque + scales.



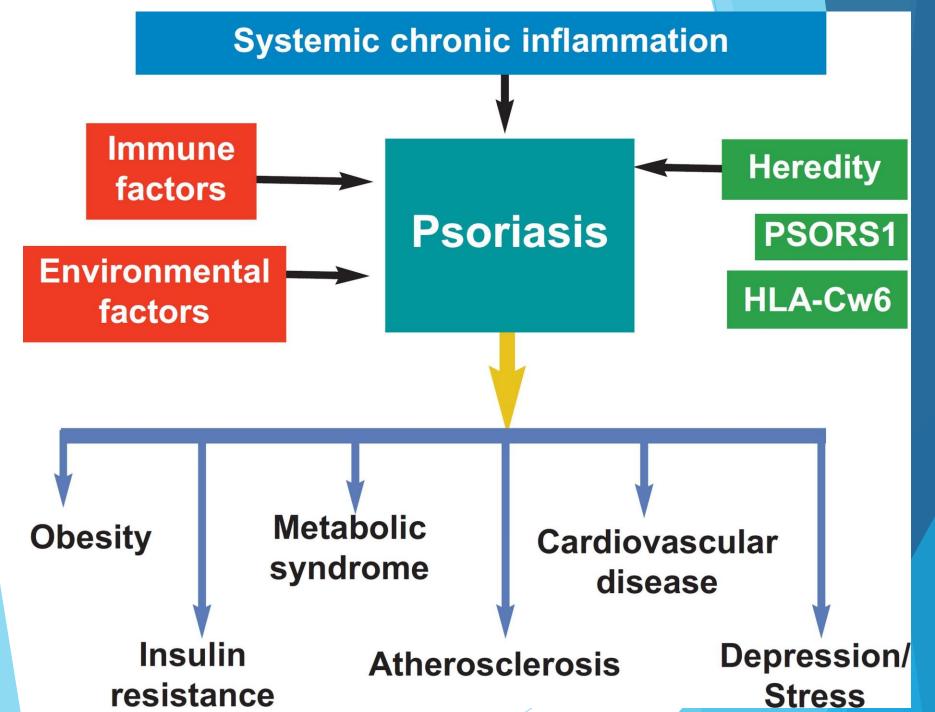


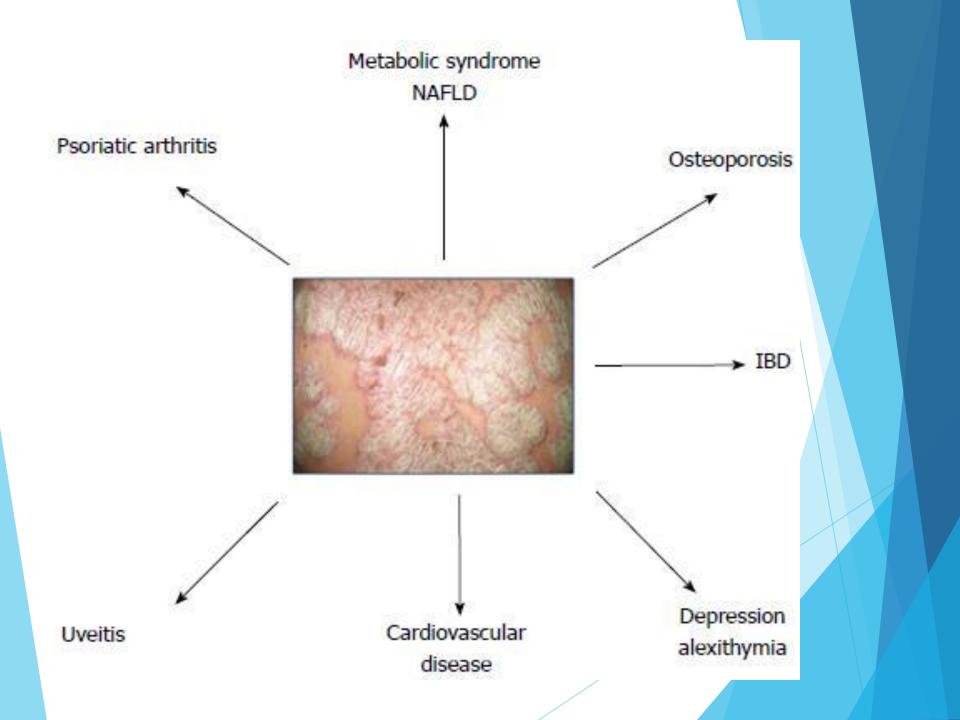
Psoriasis.
Pityriasis rosea.
Lichen planus.

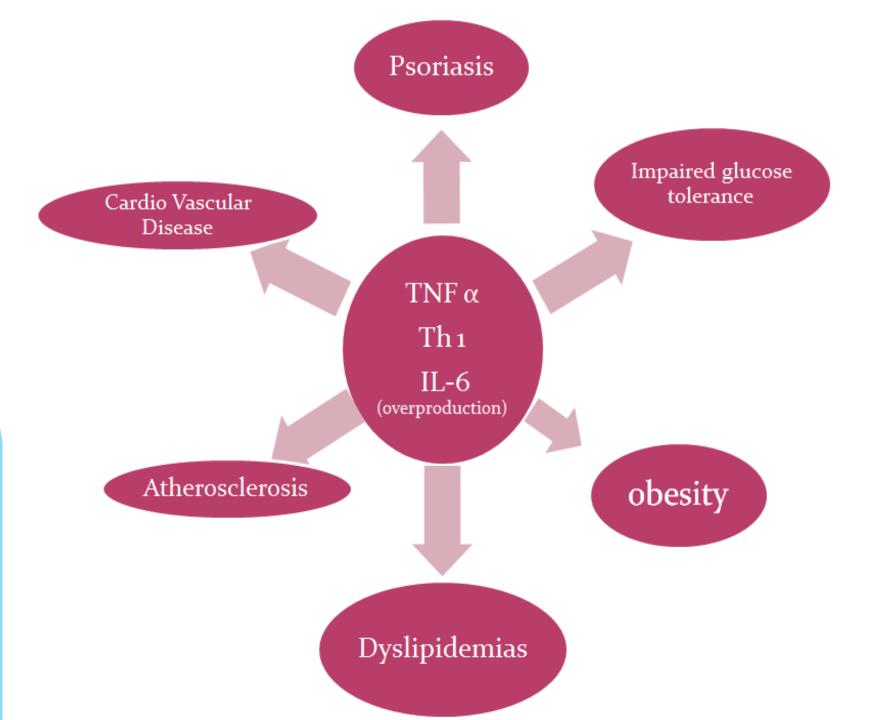
psoriasis

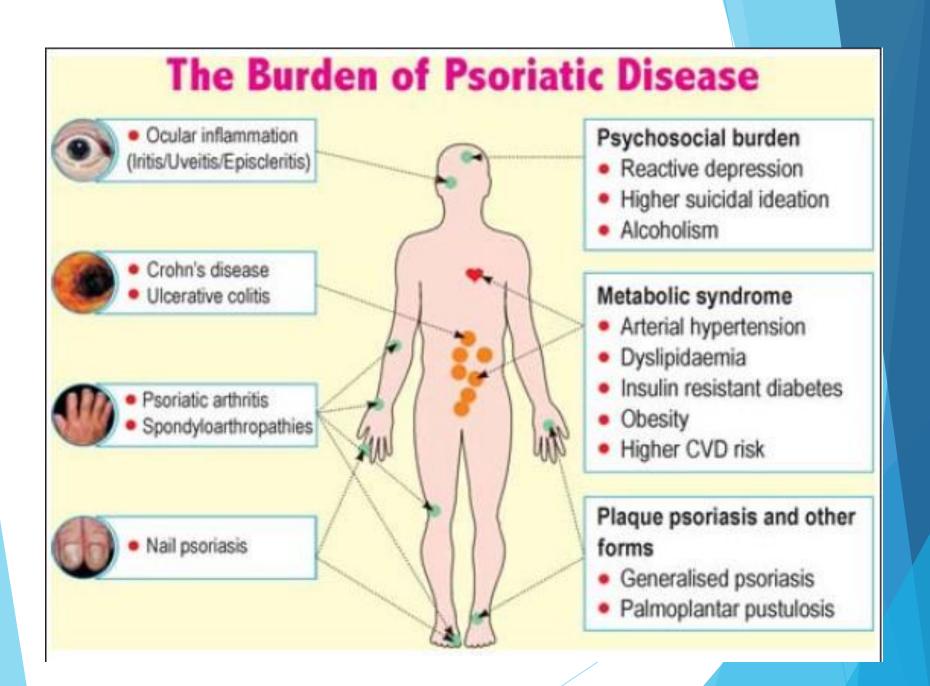
A more actoria skin disorder that presents mainly as scaled plaques.

Psoriasis is a systemic, immune-mediated disorder, characterized by inflammatory skin and joint manifestations.









Etiology

Genetics : risk of inheritance??

Environmental :

- Infection.
- Stress.
- Drugs: NAILS.

Autoimmune.

► N : NSAID.

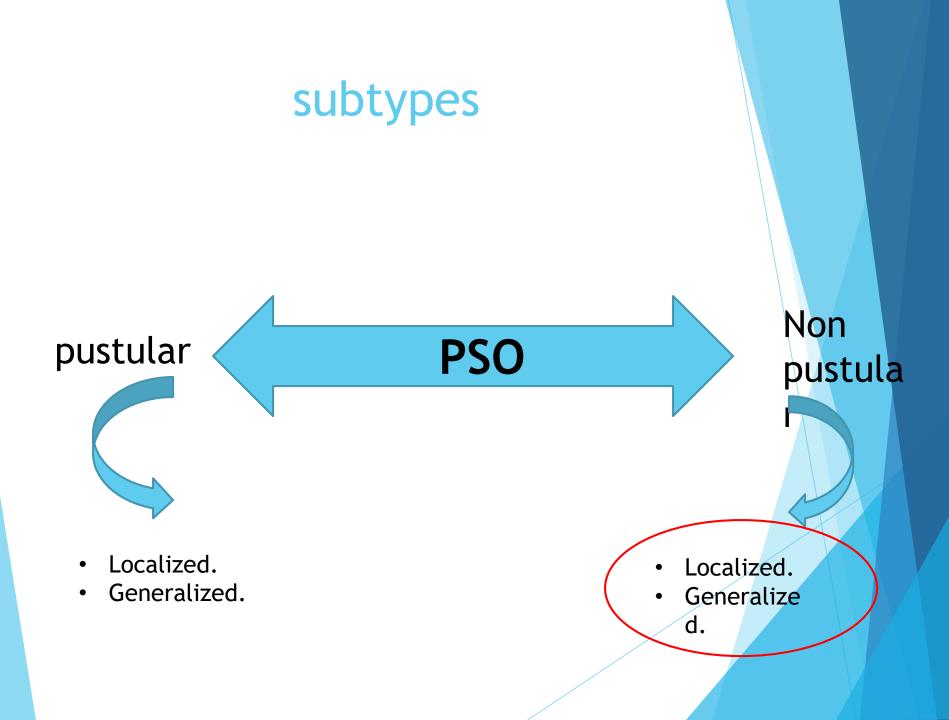
A:antimalarial/antihypertensives/antifungal/ alcohol.

I : Interferons / infection (HIV, Strep).

L: Lithium.

S : steroids.

Others : smoking.



Nail psoriasis

1. Pitting 2. Oil spot sign 3. Onycholysis 4. Subungual hyperkeratosis 5. Plate abnormalities 6. Splinter hemorrhage

So Back to Psoriasis vulgaris!

Psoriasis vulgaris

Scaly, erythematous plaques.

Itchy!

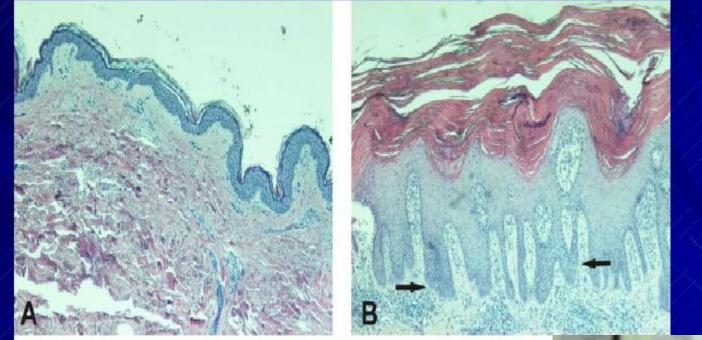
Chronic.

Controllable, not curable.

Aetiology



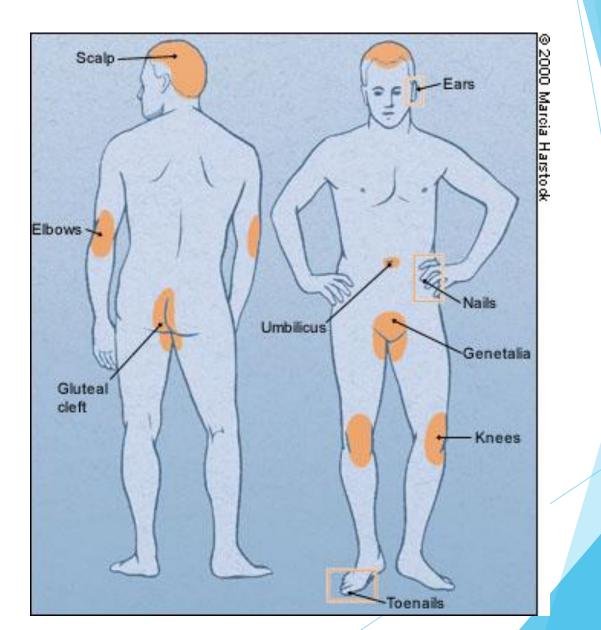
presentation



Histology of healthy (A) and psoriatic (B) skin. Psoriatic skin show acantohosis, elongation of rete ridges (indicated by arrows) with r elongation of intervening dermal papillae and inflammatory infiltra magnification).



presentation













Nail psoriasis

1. Pitting 2. Oil spot sign 3. Onycholysis 4. Subungual hyperkeratosis 5. Plate abnormalities 6. Splinter hemorrhage

Differential diagnosis

- Eczema.
- Contact dermatitis.
- Lichen planus.
- Tinea.
- Seberrhoic dermatitis.
- Melasma.
- PRP.
- Keratoderma.
- Paraneoplastic syndromes.
- Mycosis fungoides.

Approach \ IX

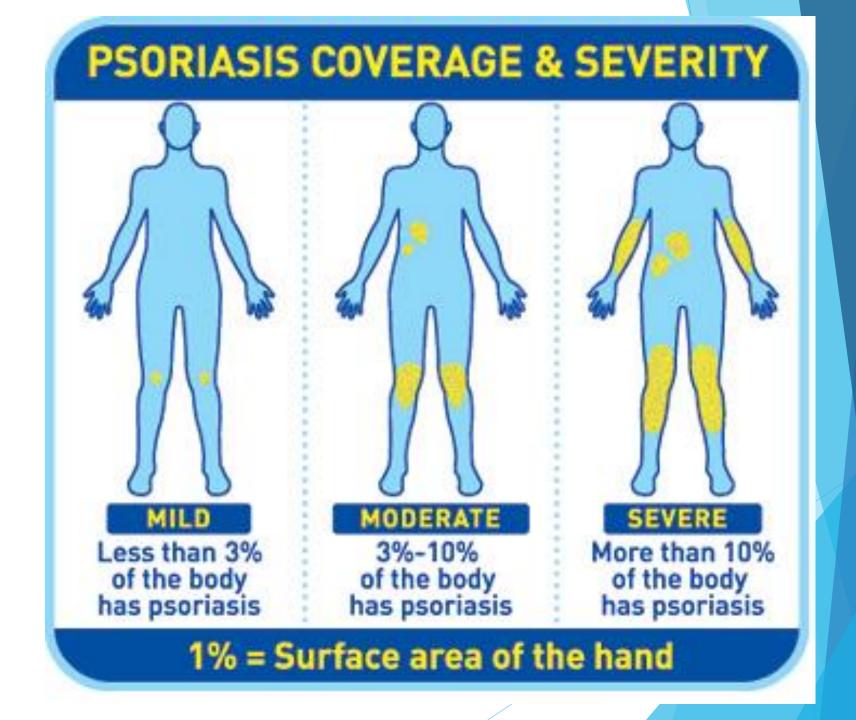
- Full history (triggering factors, comorbidities).
- Baseline IX.
- ▶ Weight/ BMI.
- ► BP.
- CXR ?
- ► PPD?
- Pregnanct test.
- Biopsy.
- Full skin examination .

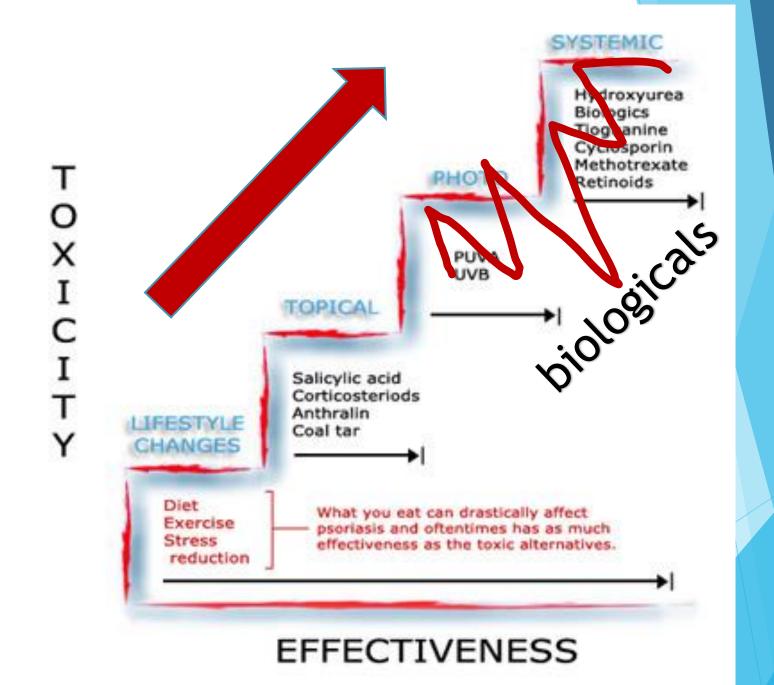
First goals

Reduce weight.

- Stop smoking/ alcohol.
- Nutrition.
- Destress.
- Treatment protocol.
- Complete skin exam.







Overview of Treatment Options for Psoriasis

Lifestyle Changes

Goals are to improve skin appearance and decrease itch

- Moisturizer use
- Brief periods of sun exposure
- Smoking cessation
- Weight loss
- Reduced alcohol consumption
- Stress management
- Avoidance of skin trauma

Topical Therapies

- Corticosteroids
- Keratolytics
- Vitamin D analogs
- Tar-based shampoos and creams
- Calcineurin inhibitors
- Retinoids

Oral Systemic Therapies

- Methotrexate
- Cyclosporine
- Acitretin

Biologic Therapies

Topical treatment

- Same rule applies to all dermatologic conditions.
- Finger tip unit.
- Day off regimen.
- Site appropriate potency.

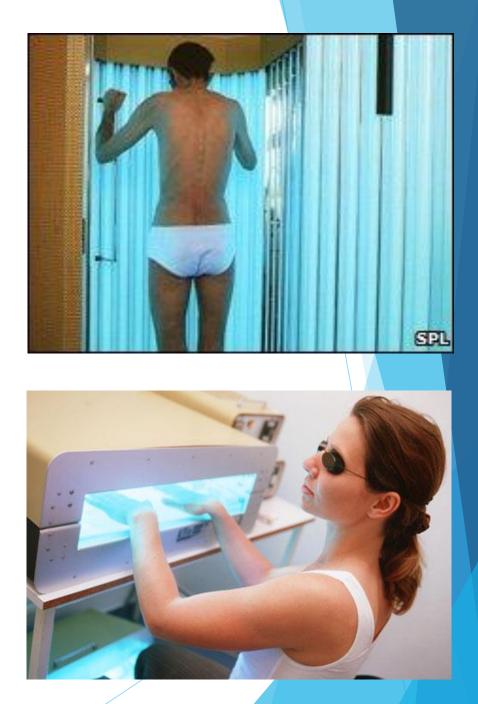


Phototherapy

- Unknown mechanism.
- ▶ 308-310 UVB.
- ► UVA.
- ▶ UVA +psoralen : PUVA.

UVB:

- Category B.
- ▶ 3 session / week.
- Protect eyes and genitals.
- Come with clean skin.



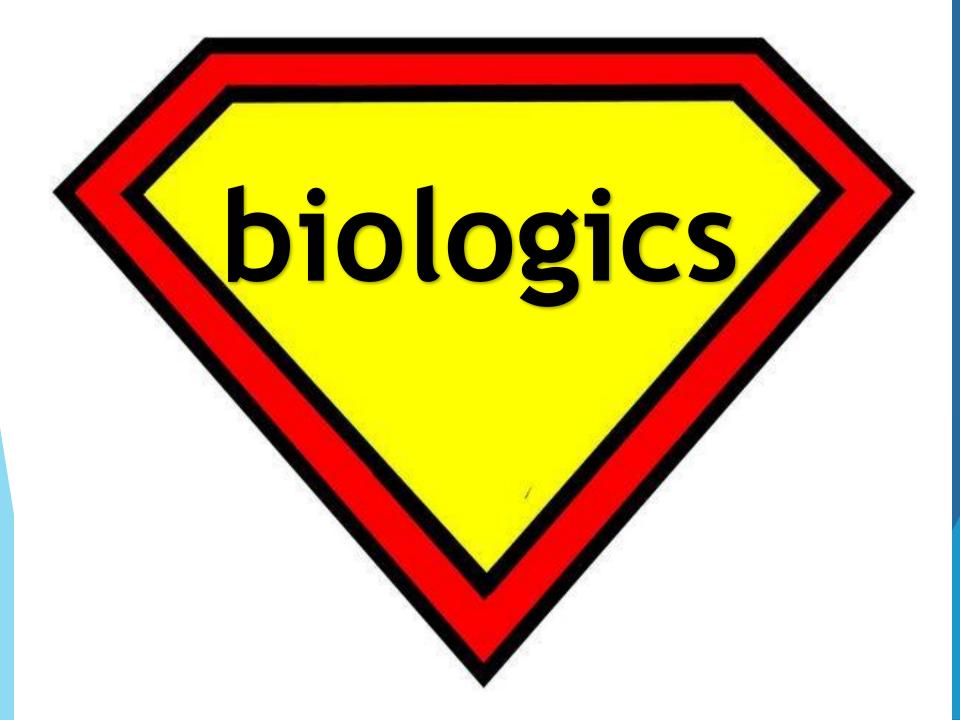
Systemic treatment

Methotrexate.

Cyclosporin.

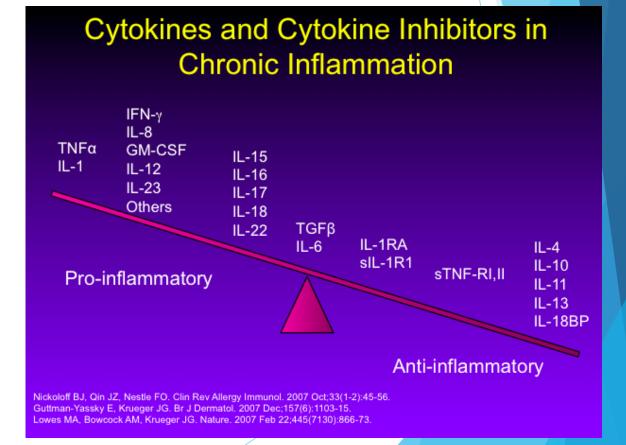
Neotagazone.

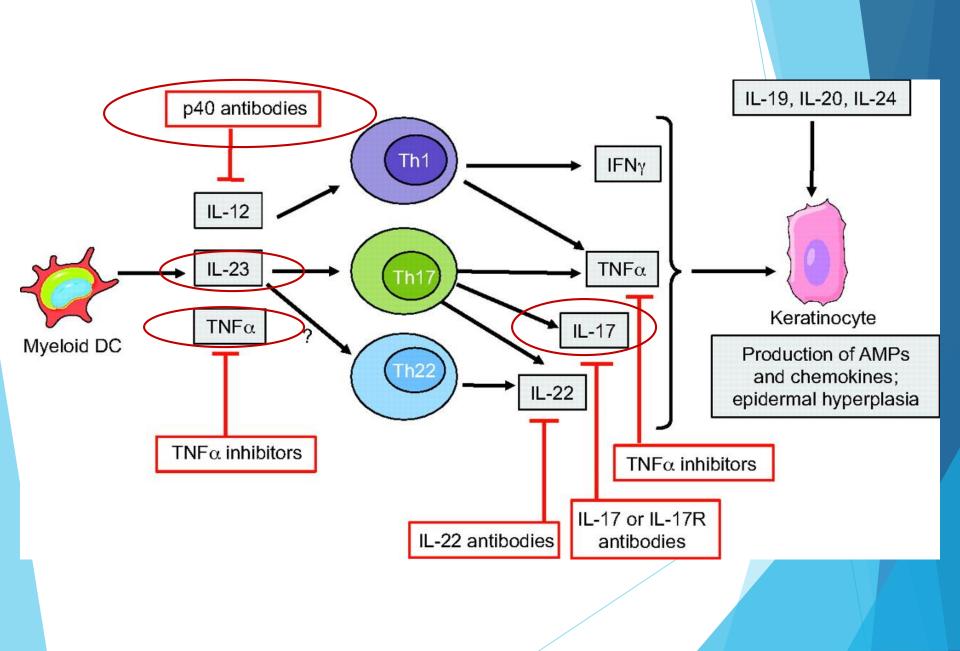




Biologics

 medication that is tailored to specifically target an immune or genetic mediator of disease.





Response Goal	PASI ≤50 Clinically Meaningful Response	PASI 75 Significant Response	PASI 90 Near- complete Response	PASI 100 Complete Resolution
Year	Before 2004	2004	2011	2014 and beyond
Available Therapies	МТХ	TNF Inhibitors	IL-12/IL-23 Inhibitors	IL-17 Inhibitors



indications

- ▶ 10% BSA.
- Severe psych. Impact.
- Faliure of other Rx.
- Unablity to use other Rx.
- Pustular psoriasis.
- Nail psoriasis.
- Psoriatic arthritis.
- Erythrodermic psoriasis.

Baseline investigations.

- Full history : CHF, CA, MS, infection.
- **CBC**, LFT, RFT, Lipids.
- Serology : ANA, Hep, HIV, VDRL, RF.
- CXR.
- PPD.
- Complete skin examination.

dosing

- Enbrel : 50mg SC , twice /week.
- Humeria : 40mg SC every 2 weeks.
- Remicade : 5 mg/kg IV, every 6-8 weeks.

IN PHASE III CLINICAL TRIALS PATIENTS TREATED WITH COSENTYX™ ACHIEVED PASI 90 AND PASI 100



REFERENCES 1. European Medicines Agency (EMA) Committee for Medicinal Products for Human Use (CHMP) Guidelines on clinical investigation of medicinal products indicated for the treatment of psoriasis. 2004. Available at: http://www.ema.europa.eu/docs/en_GB/document_library/Scientific_guideline/2009/09/WC5000 03329.pdf Accessed March, 2015. 2. Thaci D, Blauvelt A, Reich K, et al. Secukinumab is superior to ustekinumab in clearing skin of subjects with moderate to severe plaque psoriasis: 16 week results from the CLEAR study. American Academy of Dermatology 73rd Annual Meeitng. San Francisco, California. 20th March.

Lichen planus







Lihen planus

- Multifactorial cell mediated autoimmune dise
- Itchy.
- Described as the 5 Ps:
- P: planar
- P: polygonal
- **P:** pruritic
- **P:** purple
- **P:** papular

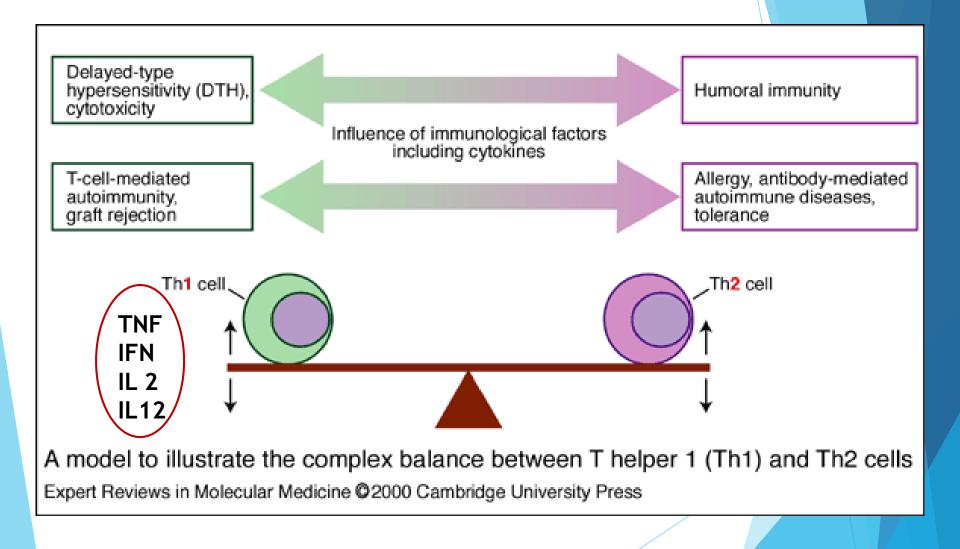


Associations

- ulcerative colitis.
- alopecia areata.
- Vitiligo.
- Dermatomyositis.
- morphea.
- lichen sclerosis.
- myasthenia gravis.
- hepatitis C virus infection.
- chronic active hepatitis.
- primary biliary cirrhosis.
- Drugs.

subtypes

- Hypertrophic lichen planus
- Atrophic lichen planus
- Erosive/ulcerative lichen planus
- Follicular lichen planus (lichen planopilaris)
- Annular lichen planus
- Linear lichen planus
- Vesicular and bullous lichen planus
- Actinic lichen planus
- Lichen planus pigmentosus
- Lichen planus pemphigoide
- 20 nail dystrophy.



Presentation

Skin.

- Mucous membranes.
- Genitals.
- Nails.
- Hair.





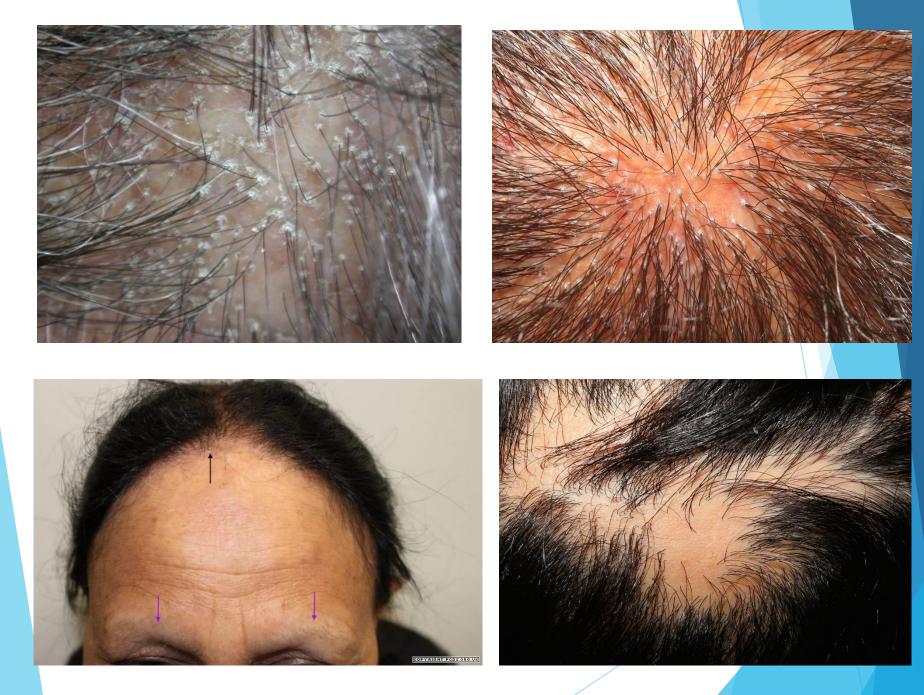














5-0http://dermis.ne

- Ulcer.
- Striaes.
- Bulla.
- Papules.









Approach

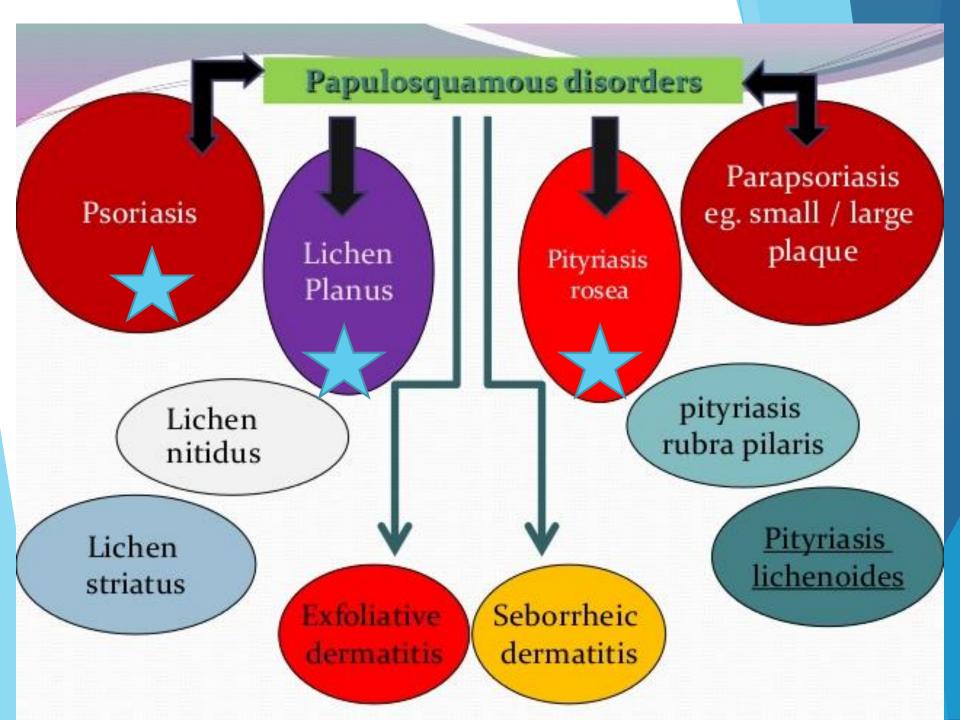
- Full history (associations or triggers).
- Full examination.
- ► CBC, ESR.
- Ferritin.
- ► G6PD.
- Hepatitis profile.
- H.Pylori ??
- Biopsy.

Treatment

- Get rid of triggers.
- Treat underlying factors.
- Site specific approach.

Classical LP treatment

- Topical steroid.
- Topical imunemoulators.
- Phototherpay. (NBUVB, PUVA).
- Systemic treatment :
- 1. Methotrexate.
- 2. Cyclosporin.
- 3. Neotagazone.
- 4. Dapsone/colchicine.
- 5. Metronidazole.
- 6. Chloroquine.
- 7. Biologics??



Pityriasis Rosea





Pityriasis rosea

Papulosquamous rash.

May be associated with proceeding viral infection.

Causes



1-2 weeks post URTI.

TABLE 1				
Human herpes virus 1	Herpes simplex type 1 (HSV-1)	Alpha		
Human herpes virus 2	Herpes simplex type 2 (HSV-2)	Alpha		
Human herpes virus 3	Varicella-zoster (VZV)	Alpha		
Human herpes virus 4	Epstein-Barr (EBV)	Gamma		
Human herpes virus 5	Cytomegalovirus (CMV)	Beta		
Human herpes virus 6(7)	Exanthum subitum	Beta		
	Roseola infantum			

Causes

- Drugs ??
- 1. Gold.
- 2. ACEI.
- 3. NSAID.
- 4. hydrochlorothiazide.
- 5. metronidazole.
- 6. Terbinafine.

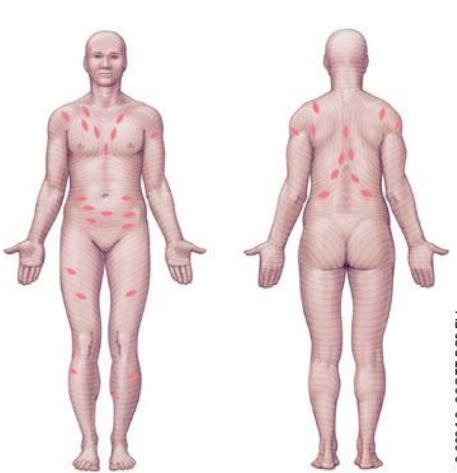
Clinical coaurse

URTI.

- 1-2 weeks : oval red single herald patch.
- Abortive PR.
- Calsscial PR with daughter lesions.
- Christmas tree pattern.







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© 2003 Elsevier - Bolognia, Jorizzo and Rapini: Dermatology - www.dermtext.com

Approach

- Full history.
- Biopsy.
- Serology ??
- Single lesion : always scrap.

Treatment

- Conservative.
- Antihistamine.
- Topical streoids ?
- NBUVB.
- Systemic treatment like psoriasis for resistant cases.

Prognosis

- Most cases resolve spont. Withing 6 weeks.
- Minority go to a chronic phrase.
- Full explanation.

Lets spice it up !



ILVEN



Lichen striatus



Tinea corporis



Lichen nitidus



psoriasis



Lichen planus





- Erythhematous, pruritic, raised skin lesion.
- Vascular reaction of the upper dermis.
- Deeper form : angioedema.

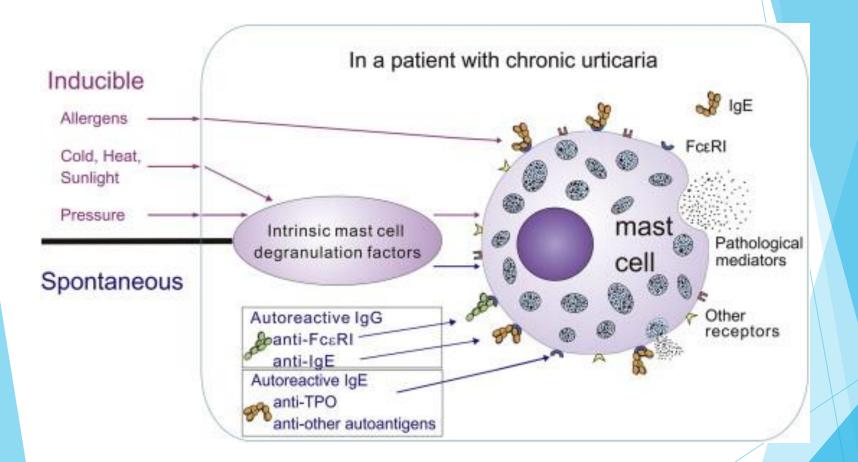


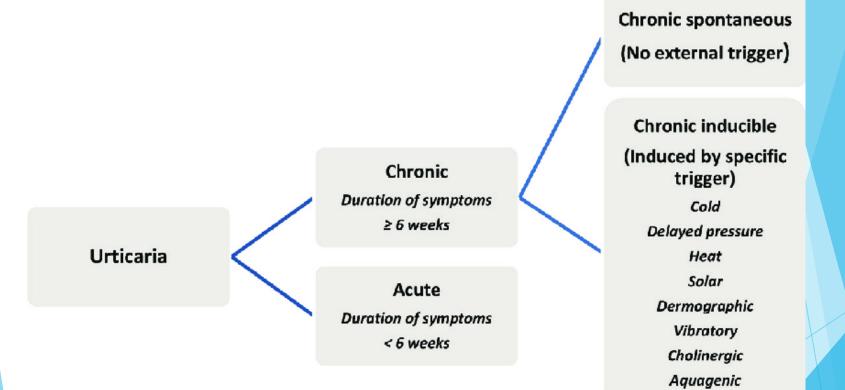
Classification

- Chronicity.
- Etiology.
- Immunogenecity.

Warning !

- Always take good history to rule out ANAPHYLAXIS:
- 1. GI symptom: abd pain, diarrhea.
- 2. Dyspnea.
- 3. Symptoms of hypotension : rapid pulse, dizziness.





Acute urticaria (<6 weeks)

Idiopathic Infectious Medication Food Hymenoptera

Chronic urticaria (>6 weeks)

Inducible Dermatographism Delayed-pressure Cold-induced Heat-induced Cholinergic Exercised-induced Aquagenic Solar Vibratory

Associated underlying disorder

Infection Malignancy Thyroid Disease Connective Tissue Disease Allergy Mastocytosis Pregnancy

Chronic idiopathic urticaria (chronic spontaneous urticaria)

SORT: KEY RECOMMENDATIONS FOR PRACTICE

Clinical recommendation	Evidence rating	References	Comments
An extensive workup is not recommended for diagnosing a cause of chronic urticaria. Additional testing can be done if presentation suggests underlying disease or specific causes requiring confirmation.	С	1, 7, 9, 15	A complete blood count with differential and measurement of erythrocyte sedimentation rate or C-reactive protein level are recommended to rule out systemic disease. Various sources recommend urinalysis, measurement of thyroid-stimulating hormone level, and liver function testing to look for other causes.
Nonsedating antihistamines are the first-line treatment of urticaria and may be titrated to two to four times their normal dose, if necessary.	С	1, 7, 16	These are recommended over older antihistamines because of their adverse effect profiles. All histamine H ₁ blockers appear to be effective. There are few head- to-head effectiveness data.
The addition of a histamine H ₂ blocker to an H ₁ blocker may help in refractory cases of urticaria.	В	1, 7, 16, 18	Several studies have found at least a modest benefit, although the mechanism of this benefit is unclear.
Leukotriene receptor antagonists may be most useful in patients with cold urticaria or intolerance to nonsteroidal anti-inflammatory drugs.	В	21	Several trials have shown benefit to using these medications with or without antihistamines, especially in the subpopulations listed.

A = consistent, good-quality patient-oriented evidence; B = inconsistent or limited-quality patient-oriented evidence; C = consensus, diseaseoriented evidence, usual practice, expert opinion, or case series. For information about the SORT evidence rating system, go to http://www.aafp. org/afpsort.xml.

New Rx ?



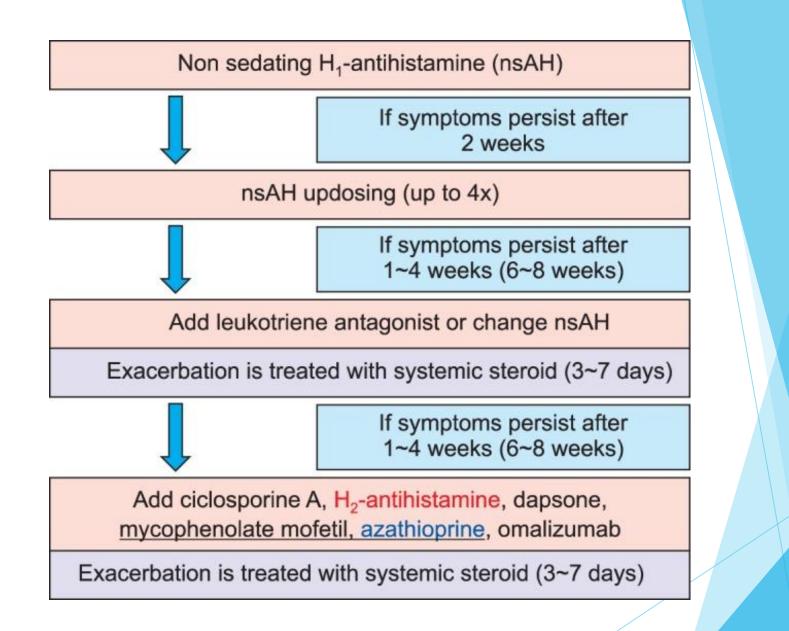


XOLAIR® (omalizumab)

- Monoclonal antibody that blocks IgE Receptors.
- FDA app. 2003.
- chronic idiopathic urticaria in adults and adolescents 12 years of age and older.
- 150 to 375 mg is SC injection every 2 or 4 weeks.

AE:

- headache
- tired feeling
- joint or muscle pain
- dizziness
- ear pain
- hair loss
- sore throat
- cold symptoms
- itching or skin rash
- injection site reactions
- Anaphylaxis!!!



The treatment algorithm for urticaria adapted from the European Academy of Allergy and Clinical Immunology/Global Allergy and Asthma European network/European Dermatology Forum/World Allergy Organization (EAACI/GA2LEN/EDF/WAO) guidelines.

Infection







Viral







► STD.

Herpes simplex type I and II.

	Antiviral medication	Comments
First episode	Valaciclovir 500mg twice daily x 5 days Aciclovir 400mg three times daily x 5 days Aciclovir 200mg five times per day x 5 days	
	Famciclovir 250mg three times daily x 5 days	These medications can be used in pregnancy where there is a clear clinical need. Aciclovir is less expensive than valaciclovir and famciclovir
Recurrent episode	Valaciclovir 500mgs twice daily x 3 days Aciclovir 400mg three times daily x 3 days famciclovir 1gram twice daily x 1 day	









Herpes zoster

- Shingles.
- Herpes virus type 3.
- Pain, burning, numbness or tingling
- Sensitivity to touch
- A red rash that begins a few days after the pain
- Fluid-filled blisters that break open and crust over
- Itching
- Some people also experience:
- Fever
- Headache
- Sensitivity to light
- Fatigue

Complications

- Postherpetic neuralgia.
- Vision loss :(ophthalmic shingles)
- Neurological problems. Depending on which nerves are affected, shingles can cause an inflammation of the brain (encephalitis), facial paralysis, or hearing or balance problems.
 - Skin infections. If shingles blisters aren't properly treated, bacterial skin infections may develop.



Treatment

- 1000 milligrams (mg) three times a day for seven days.
- Pain control.
- Topical antiseptic and fucidic acid.
- Topical xylocaine gel.

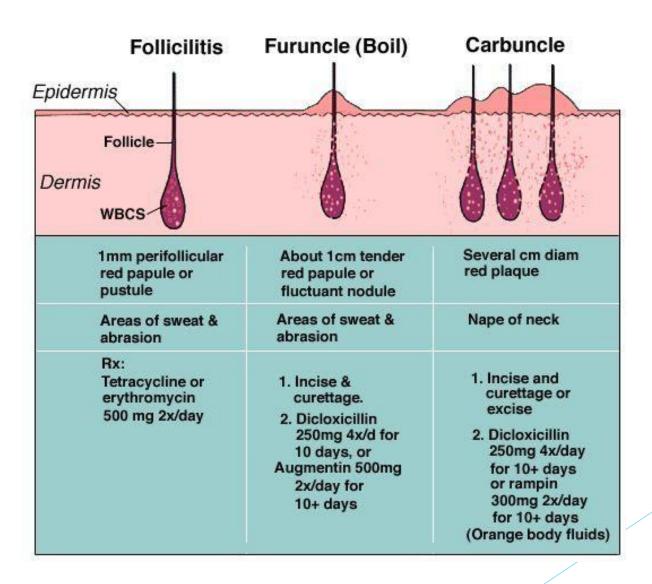
Bacterial

Therapeutic approach to common bacterial skin infections

Infection	Likely pathogens	Management			
npetigo	Staphylococcus aureus Streptococcus pyogenes	 Mild or localised disease: wash crusts topical mupirocin Multiple lesions or recurrent disease: cultures to guide treatment oral antibiotics (dicloxacillin/cephalexin/trimethoprim plus sulfamethoxazole) for up to 10 days intravenous antibiotics if no improvement for recurrent infection due to <i>S. aureus</i> consider decolonisation Advice and education of household members to reduce transmission: avoid contact with lesions wash hands regularly, particularly after touching lesions 			
Boils and carbuncles	S. aureus S. pyogenes	 Incision and drainage most important step in management: culture and susceptibility testing for lesions antibiotics if spreading cellulitis or systemic symptoms oral dicloxacillin/cephalexin for 5 days oral clindamycin, or trimethoprim plus sulfamethoxazole for community-acquired-MRSA for 5 days 			
Folliculitis	S. aureus S. pyogenes Pseudomonas aeruginosa	Treatment usually supportive Warm compresses or topical mupirocin In severe infection treat as per impetigo			
Cellulitis and erysipelas	S. aureus Beta-haemolytic streptococci				
Periorbital cellulitis	S. aureus Streptococcus species Haemophilus influenzae type b (in unvaccinated patients)	Mild disease: • oral dicloxacillin/cephalexin/clindamycin for 7 days If suspect <i>H. influenzae</i> type b infection (unvaccinated, < 5yrs old): • oral amoxycillin plus clavulanate, or cefuroxime for 7 days Severe disease or systemic features: • treat as orbital cellulitis			
Orbital cellulitis	S. aureus Streptococcus species H. influenzae type b (in unvaccinated patients) Anaerobic bacteria	Inpatient hospital management with urgent surgical opinion Blood cultures and CT scan of orbits Intravenous antibiotics			
Necrotising fasciitis	S. aureus S. pyogenes Gram negatives, <i>Clostridium</i> species Anaerobic bacteria	Inpatient hospital management with urgent surgical debridement Culture and susceptibility testing of tissue 5 Broad-spectrum intravenous antibiotics including clindamycin (antitoxin effect by suppressing synthesis of bacterial endotoxins)			

Bacterial infection

- S. aureus.
- Beta hemolytic streptococcus.
- Pseudomonas aeruginosa.
- Influenzas.





Treatment

Any oozy lesion : Swab : GS and CX.

- Topical antiseptic.
- Systemic antbiotic.



Tinea capitis



Tinea corporis

Lets keep it simple !

- Scrab the scales for GS, KOH, GS.
- Ask simple source questions : pets? Other siblings? Topicals ?

Traetment

- Treat the source.
- Topical antiseptic solution : betadine or ketoconazole shampoo.
- Topical antifungal cream.
- Systemic antifungals : for severe cases.
- 1. Extensive lesions.
- 2. Better to measure LFT.
- 3. Avoid in case of other multiple medications.
- 4. Choice: terbinafine, ketoconazole, itrokonazole.
- 5. Kids: grisofulvin syrup.
- Think outside the box: ? Pred?? Antihistamine?



Attention!





Pityriasis Vericolor

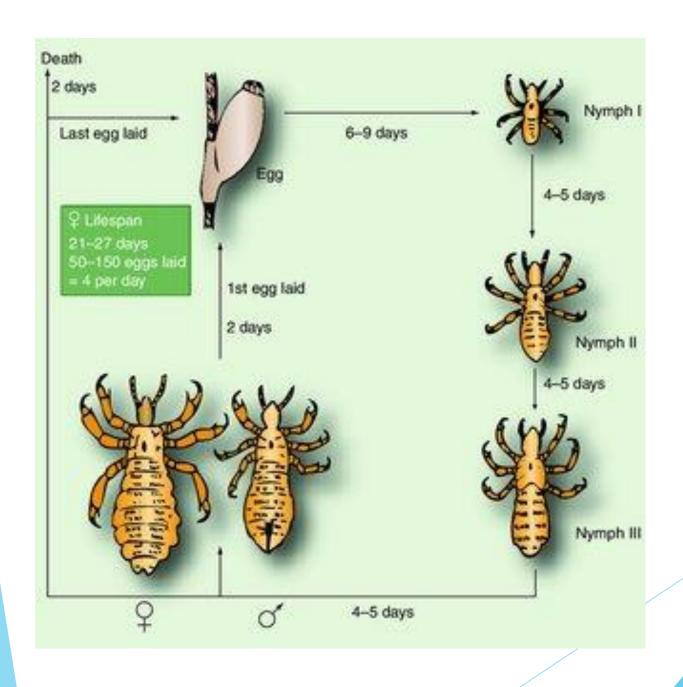


Parasitic infestation

The itchy scalp



Pediculosis capitis



Treatment basics

- Treat all kids at the same time and all family members.
- Manual removal.
- Repeat the cycle after 1 week.





Treatment

Partial

Pharmacologic Treatments for Head Lice

Treatment

Ovicidal

Ivermectin (Stromectol; not FDA-approved for treatment Partial of pediculosis)

Malathion 0.5% lotion (Ovide)

Permethrin 1% lotion (Nix) No

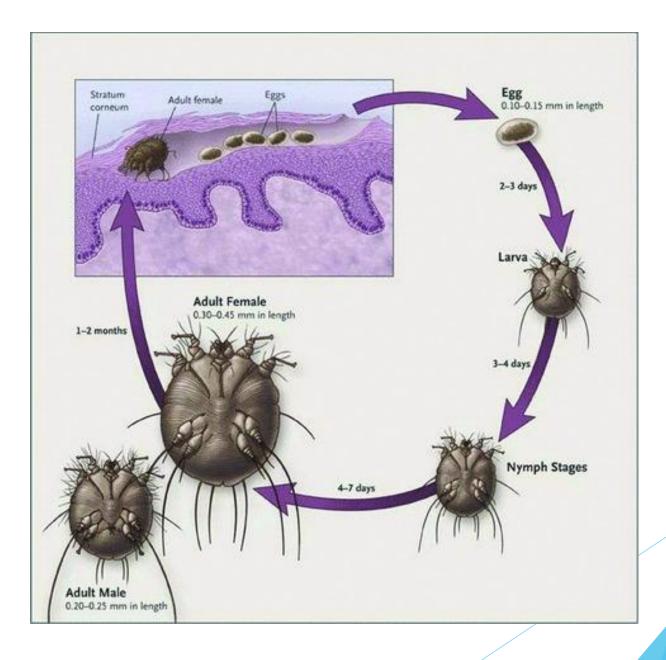
Pyrethrins 0.3%/piperonyl butoxide 4% shampoo or No mousse (Rid)

The invisible itch !









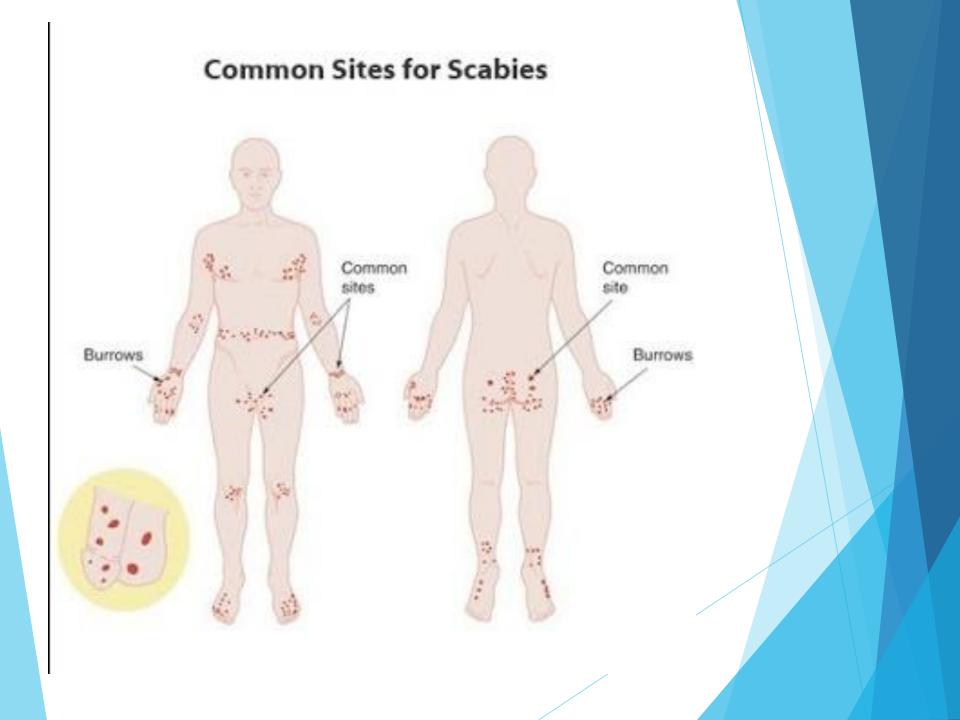


Table 1. Topical Treatment of Scabies Infection

Drug Name	Do	ose	M	ajor side effects or	Remarks	
			co	ntraindications		
Topical trea	tm	ent				
Permethrin	≻	5% cream	≻	Itching and stinging on application	≻	Recommended as first line
	≻	Rinsed off after 8-14 hrs		(4,16)		therapy in Western countries
		(4,16,17)	≻	May be used in infants ≥ 2 months		(3,4,16)
				of age, children, pregnant women		
				and nursing mothers (4,7,16,17)		
			≻	Skin rash, diarrhoea and rarely		
				convulsion and death (3)		
Benzyl	≻	10% or 25% lotion	≻	Burning and stinging when applied	≻	Commonly used in Hong
benzoate	≻	Rinsed off after 24 hr		to excoriated skin, pruritic		Kong (3)
		(several other regimens		cutaneous xerosis, or eczematous	≻	Not currently available in US
		possible)		lesions post-treatment (4)		Approved in Europe (4)
					\succ	Not recommended as first line
						in Western countries (3)
Malathion	≻	0.5% lotion or cream	≻	Skin irritation but major side	≻	Not contraindicated in
	≻	Rinsed off after 24 hrs.		effect rare (3,7)		pregnancy or breast-feeding
Crotamiton	≻	10% cream	≻	Skin rash (3)	≻	Less effective (3,4)
	≻	Applied to nodules for			≻	Often used on scabies nodules
		24 hr, rinsed off and				in children (4) though not
		reapplied for an				approved by FDA (8)
		additional 24 hr				
					L	

Published in Paediatrics & child health 2001

Drug	Instruction for use
Lindane 1% lotion Permethrin 5% cream lvermectin	Apply thinly to the whole body from head to neck down and wash off completely after 8 hours Apply to whole body from the neck down and wash off after 8–14 hours 200 µg per kg administered orally for two doses at an interval of 2 weeks; this is not a Food and Drug Administration approved indication

Basics !

- STD.
- Treat all house holds and family members.
- Hygiene.
- Household carpets, sheets, cusions, toys, pillow ahs to be sanitized or cleansed:

CDC:

- decontaminated by washing in hot water and drying in a hot dryer, by dry-cleaning, or by sealing in a plastic bag for at least 72 hours. Scabies mites generally do not survive more than 2 to 3 days away from human skin.
- Use of insecticide sprays and fumigants is not recommended.

FITZPATRICK'S COLOR ATLAS AND SYNOPSIS OF CLINICAL DERMATOLOGY

EIGHTH EDITION





Klaus Wolff Richard Allen Johnson Arturo P. Saavedra Ellen K. Roh

Video Nilwi Sector Videos

The End

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