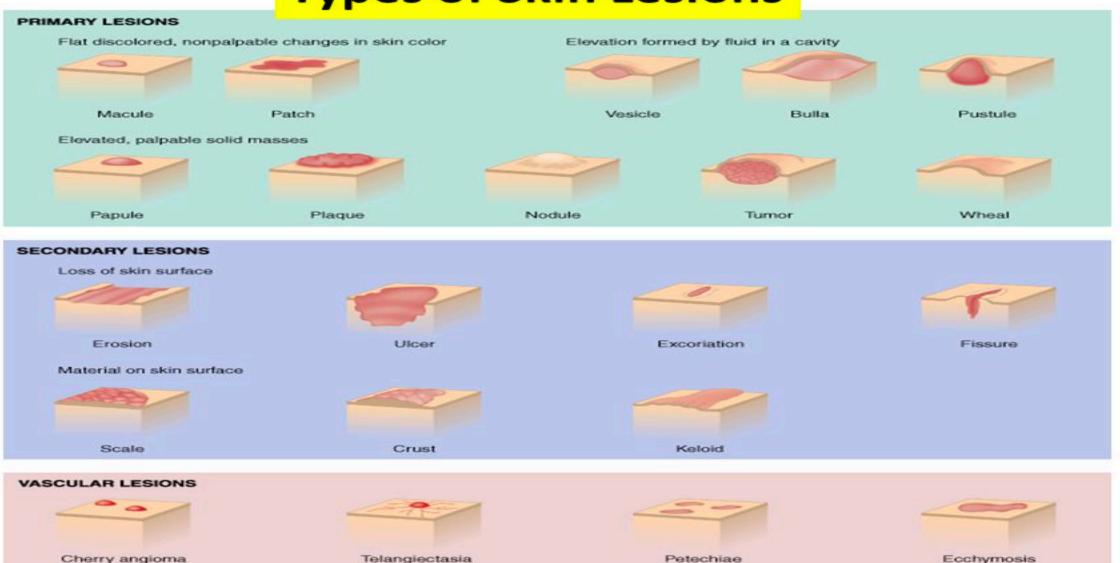
Notes in Dermatology for 5th year students

Dr Khitam Al-refu
Associate professor in dermatology
M,D. PHD.

Edited by Rahaf AL-Qaryouti

Pathological Terms

Types of Skin Lesions



Primary skin lesions

- Macule: freckles
- Patch (no scales): vitiligo, melasma
- Papule: lichen planus, warts
- Vesicle: dyshidrotic eczema
- Sterile vesicles: bollous dermatoses
- Bulla: burns, friction, impetigo, insect bite
- Wheal: urticaria



Tense bullae with vesicles and erythema Hx of pruritic rash up to 3 months Bollous pemphigoid



Salmon like colored plaque with silver scales **Psoriasis**

Erythrodermal psoriasis is extensive psoriasis



Café au lait macules and patch If more than 6 and bigger than 1.5 cm (0.5 in children) then it is neurofibromatosis



Depigmented macule
Ddx: vitiligo (Koebner's
phenomenon)
Nervous depigmentosa (since
birth, globular pattern on
dermoscope)
Idiopathic guttate
hypopigmentation



Dermographism: exaggerated whealing tendency



Group of vesicles

Herpes simplex or zoster

Differentiate by relation of onset to pain



Koebner's phenomenon:
Psoriasis
Lichen planus
Vitiligo
Still's disease
Small vessel vasculitis



Ddx:
Insect bite
Infected wound
orf (viral infection from
meat)



Approach:
History (drug hx
back to 6 months)
Physical
Investigation

A methodical approach

- The recommended approach to the patient with skin disease is as follows:
 - History. Obtain a brief history, noting duration, rate of onset, location, symptoms, family history, allergies, occupation, and previous treatment.
 - Distribution. Determine the extent of the eruption by having the patient disrobe completely
 - Primary lesion. Determine the primary lesion. Examine the lesions carefully; a hand lens is a valuable aid for studying skin lesions. Determine the nature of any secondary or special lesions.
 - Differential diagnosis. Formulate a differential diagnosis.
 - Tests. Obtain a biopsy and perform laboratory tests, such as skin biopsy, potassium hydroxide examination for fungi, skin scrapings for scabies, Gram stain, fungal and bacterial cultures, cytology (Tzanck test), Wood's light examination, patch tests, dark field examination, and blood tests.

KOH MOUNT - PROCEDURE

Sample Collection

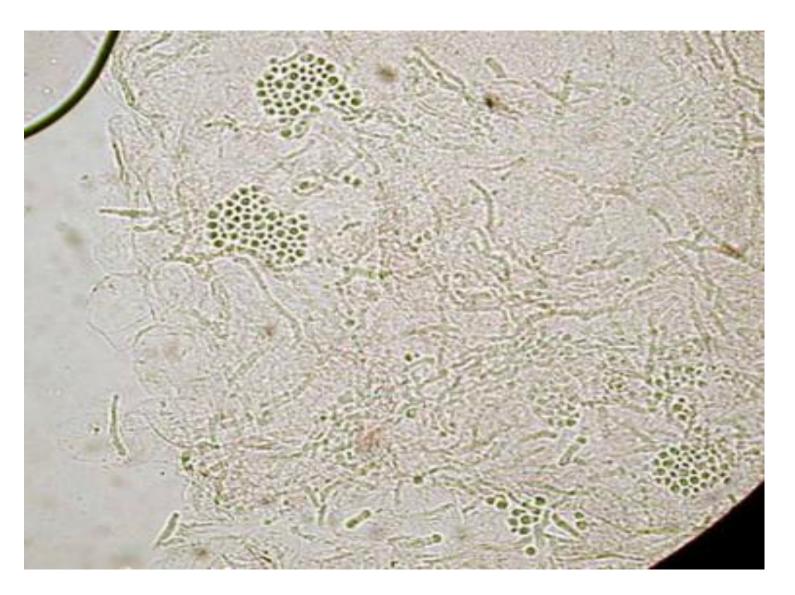
- Skin cleaned with alcohol, scraped with scalpel
- Hair plucked with forceps
- Nail undersurface of nail plate is scraped

KOH mount

- 10% KOH (20% for nails) added and heated
- Hyperkeratotic specimens left for half to 2 hours
- Nail 24 to 48 hours

Microscopic Examination

Fungal spores or hyphae are detected



KOH for fungal infections
Suspect when there are
scales
Detects spores, hyphae and
stratum corneum cells
Meat and spaghetti pattern



Wood's light test 365 nm

Uses: establish contrast between normal skin and hyper or hypo pigmented skin and detect infection Colors: white-vitiligo, pink- erythrasma (bacterial infection), grean-tinea capitis, golden yellow-tinea versicolor (malassezia furfur, not itchy, not contagious, but treated to avoid hypopigmentation), pseudomonas-blue



Vitiligo: bright bluish-white fluorescence in Wood's light.

Superficial depigmentation is clearer than deep Vitiligo may not be present clinically so check bilaterally



Tenia capitis
Green florescence if
ectothrix but no florescence
if endothrix
Patches of hair loss with
normal scalp is alopecia
areata



Source: Carol Soutor, Maria K. Hordinsky: Clinical Dermatology Copyright © McGraw-Hill Education. All rights reserved.

Erythrasma



Tinea versicolor



Wood's test on urine in case of porphyria



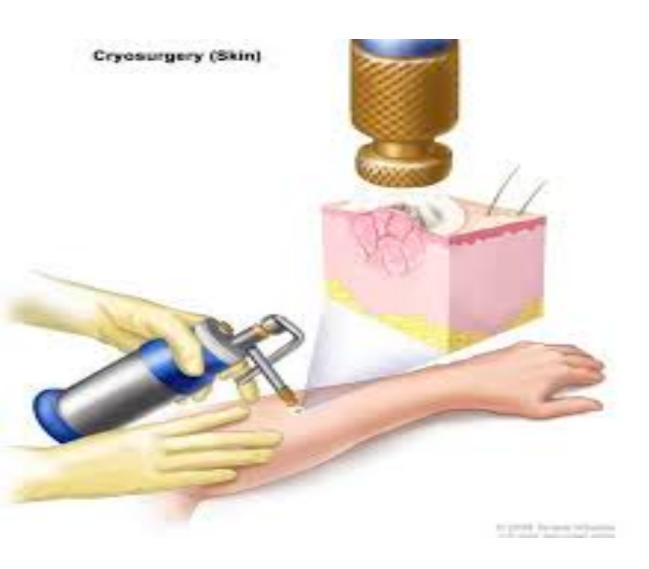
Patch test for eczema, allergic or contact dermatitis
Wait 24 h but if reactions occurred before remove it



Prick test for respiratory diseases or urticaria



Dermoscope Stethoscope of dermatologists

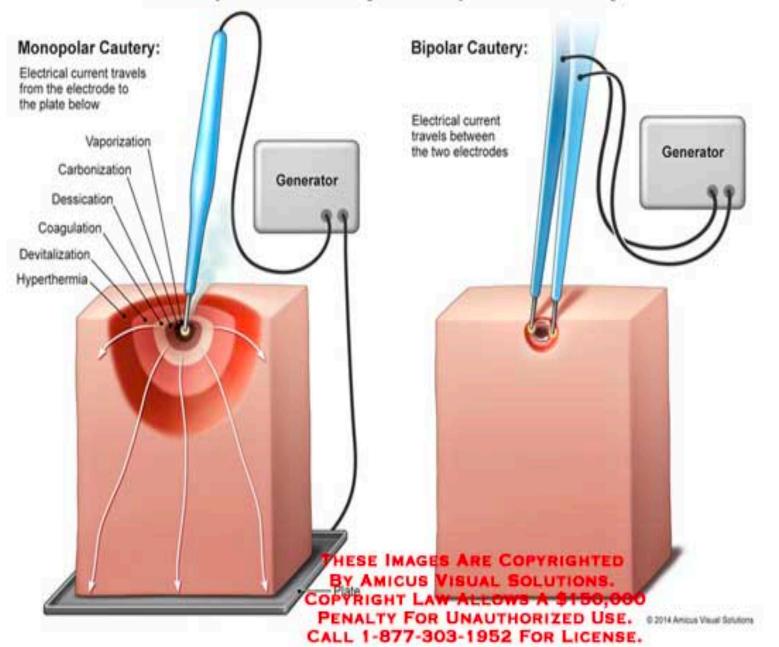


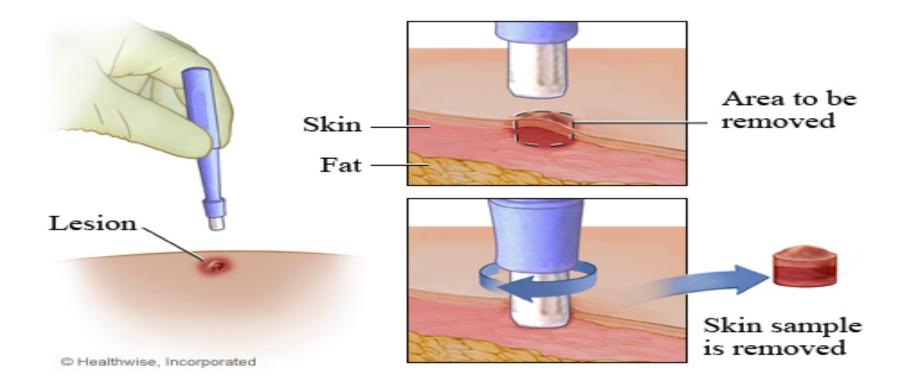
Cryotherapy
Liquid nitrogen of -196 c
Uses: warts, orf, actinic keratosis

Treatment Stages of Cryotherapy Liquid Nitrogen



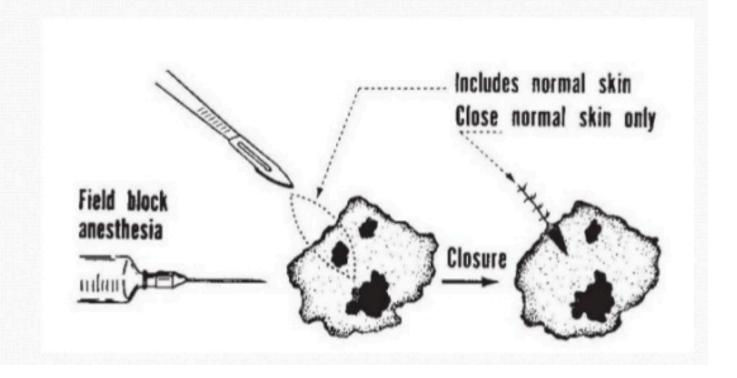
Monopolar Cautery vs. Bipolar Cautery



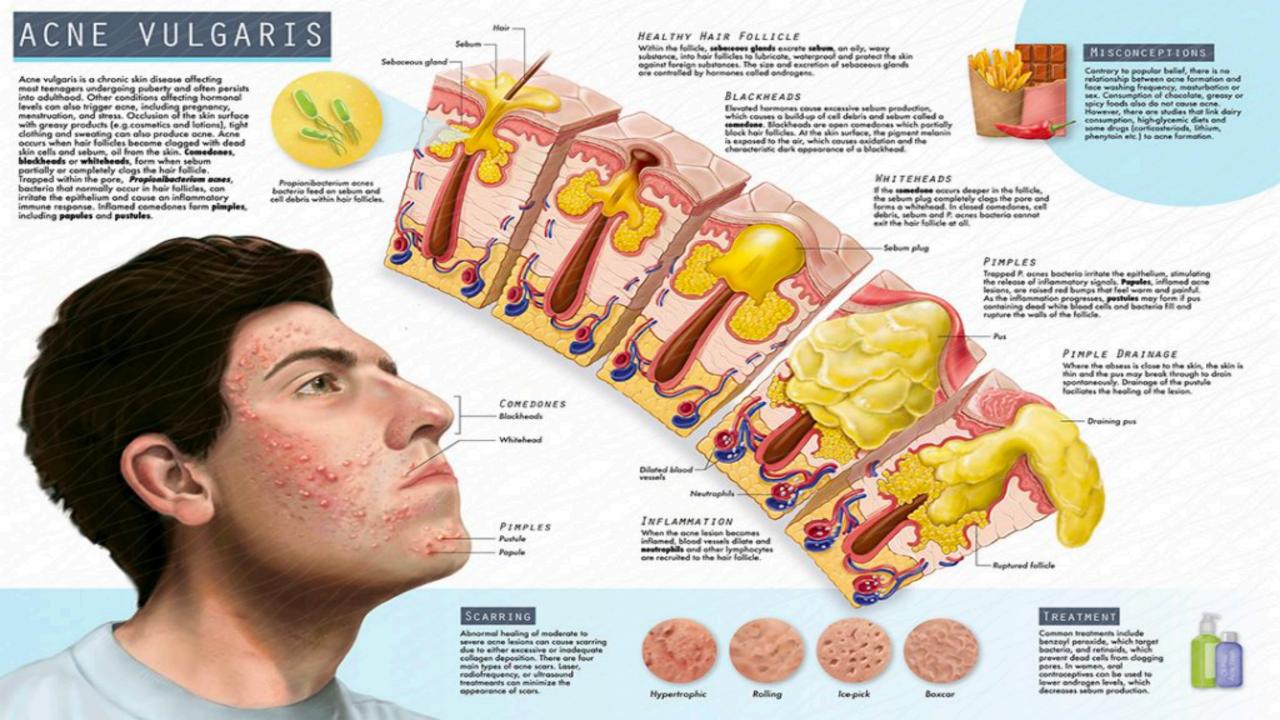


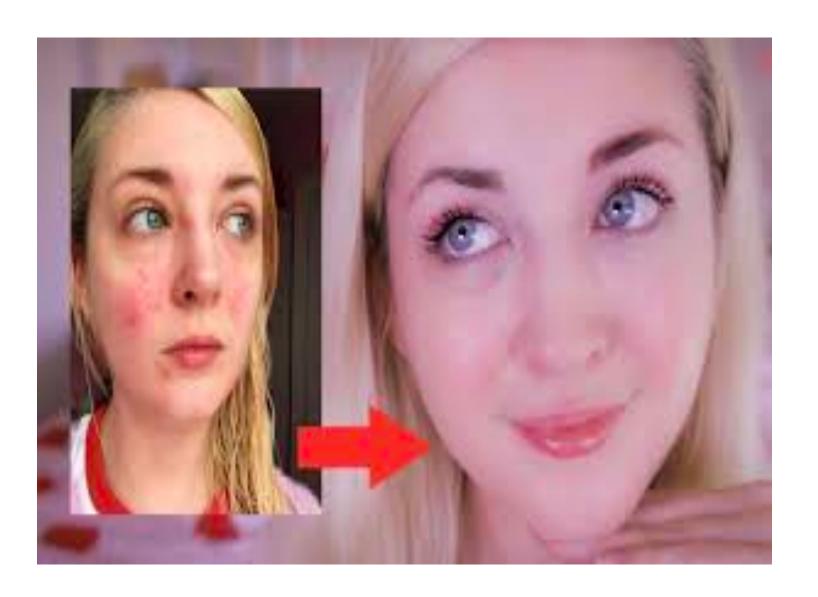
Punch biopsy

Incisional biopsy



Elliptical biopsy
It reaches three zones

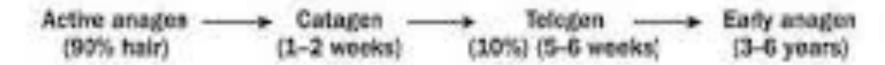


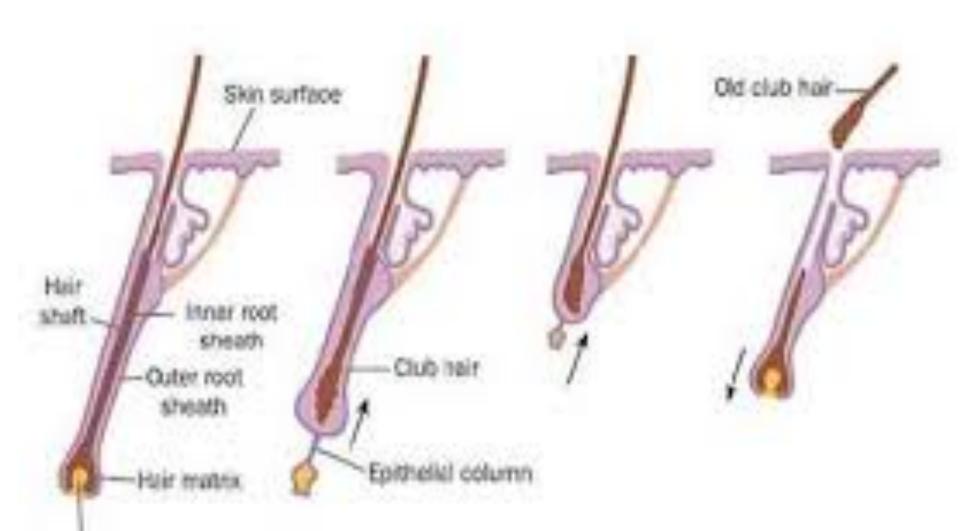


Rosacea
Papules and pustules with background erythema but no scaring



Rhinophyma Complication of rosacea





Hair growth rate 1 cm / month



Alopecia areata
Dx by dermoscope
Tests: CBC (pernicious
anemia), thyroid function
(Hashimoto), ANA, HbA1c,
anti-TPO, celiac



Trichotillomania
Dx by dermoscope
If large area consult GI on
trichobezoar



Tinea capitis

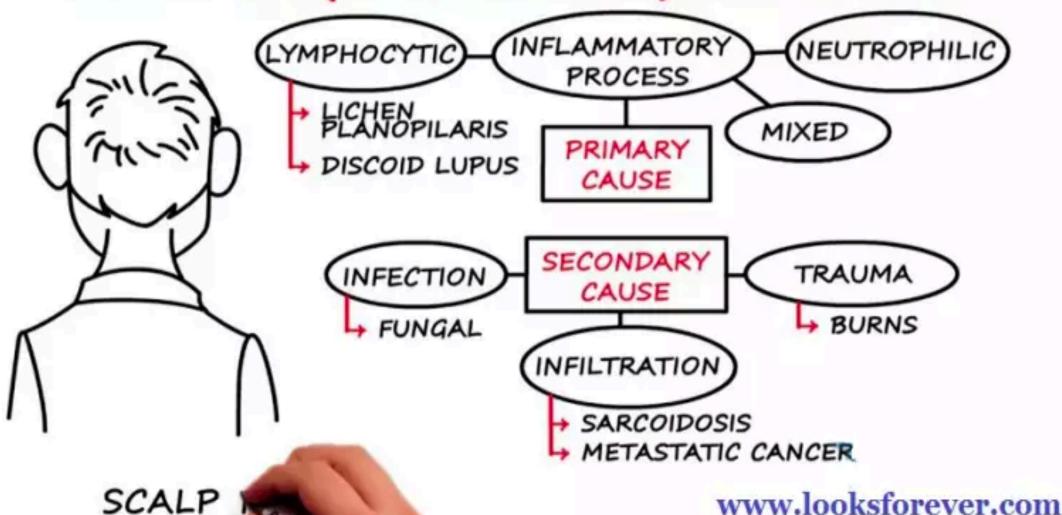


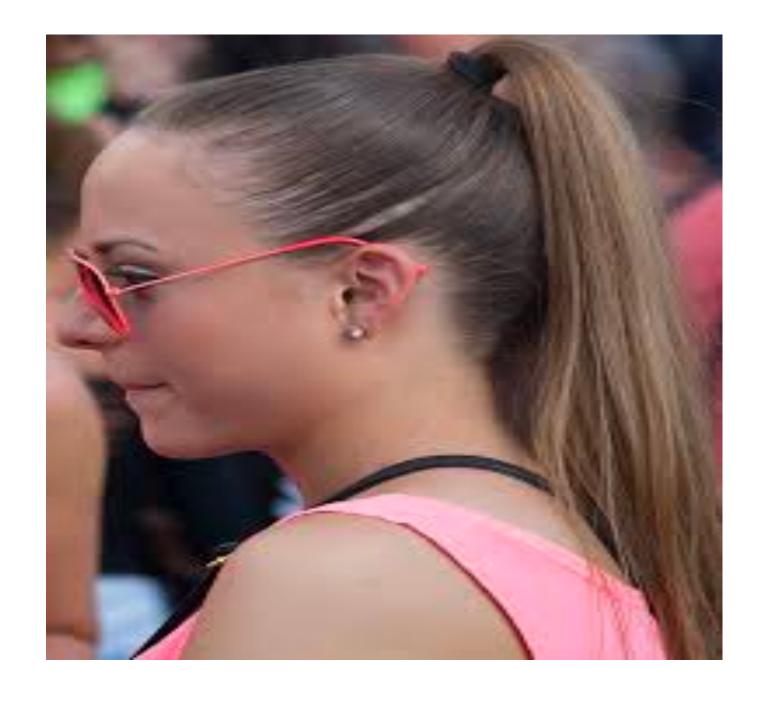
Acute telogen effluvium: due to stress which is sudden or prevents the person from eating, weight loss, diet, surgeries, general anesthesia, fever, acute medical illnesses, shock Chronic is due to vit deficiencies or chronic medical illnesses Anogen effluvium is due to chemotherapy



Male pattern
Female pattern
Androgenetic alopecia
difference in the
frontal part

SCARRING (CICATRICIAL) ALOPECIA





Traction Fibrosed hair follicles



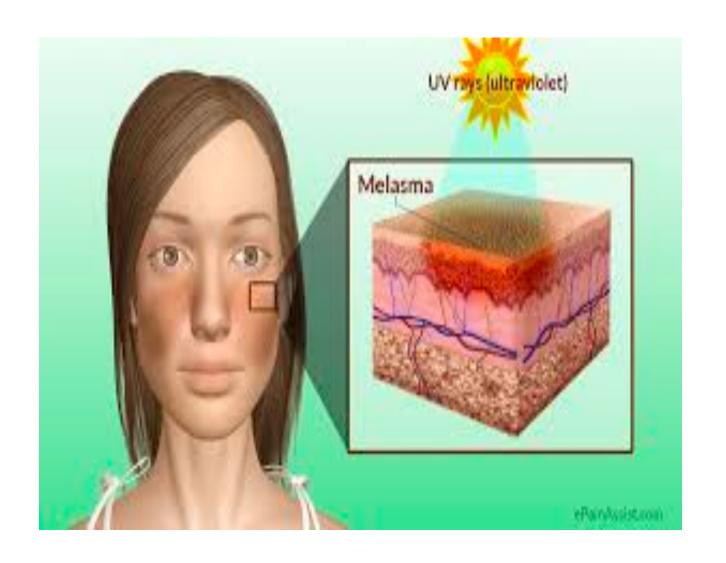
Vitiligo



Café au lait



Freckles Only use sunblocks



Melasma Hyperpigmentation



Addison's diseases





Well demarcated lesion Tinea corporis



Tinea cruris



Tinea pedis



Tinea pedis with hyperkeratosis



Pseudomonas



Source: Neil S. Prose, Leonard Kristal: Weinberg's Color Atlas of Pediatric Dermatology, Fifth Edition www.accesspediatrics.com
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Tinea faciei



Tinea mania Unilateral, well demarcated, not itchy

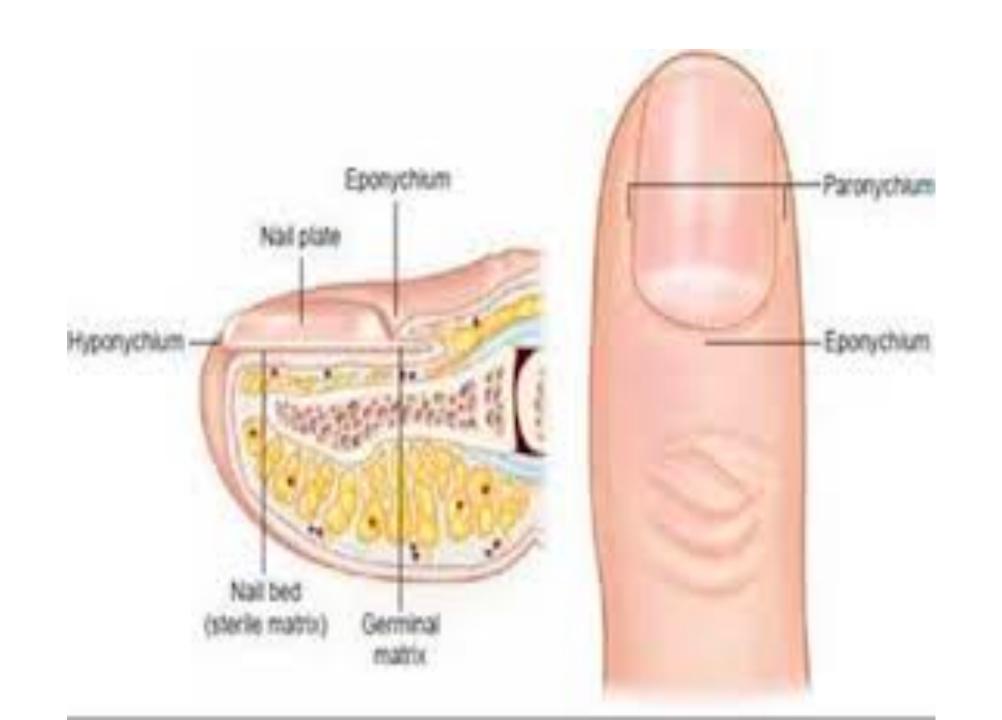




Onichomycosis



Chronic paronychia Loss of cuticle





Herpes simplex



Herpes simplex



Herpes zoster



If only on the face Impetigo contagiosa or eczema herpetica



Common warts by human papilloma virus



Planter warts



Digitate warts (thrombosed blood vessels which aren't in horns)



Plane warts with Koebner's



Genital warts Vaccinate the partner



Medications can be applied to break warts apart.

Cryotherapy



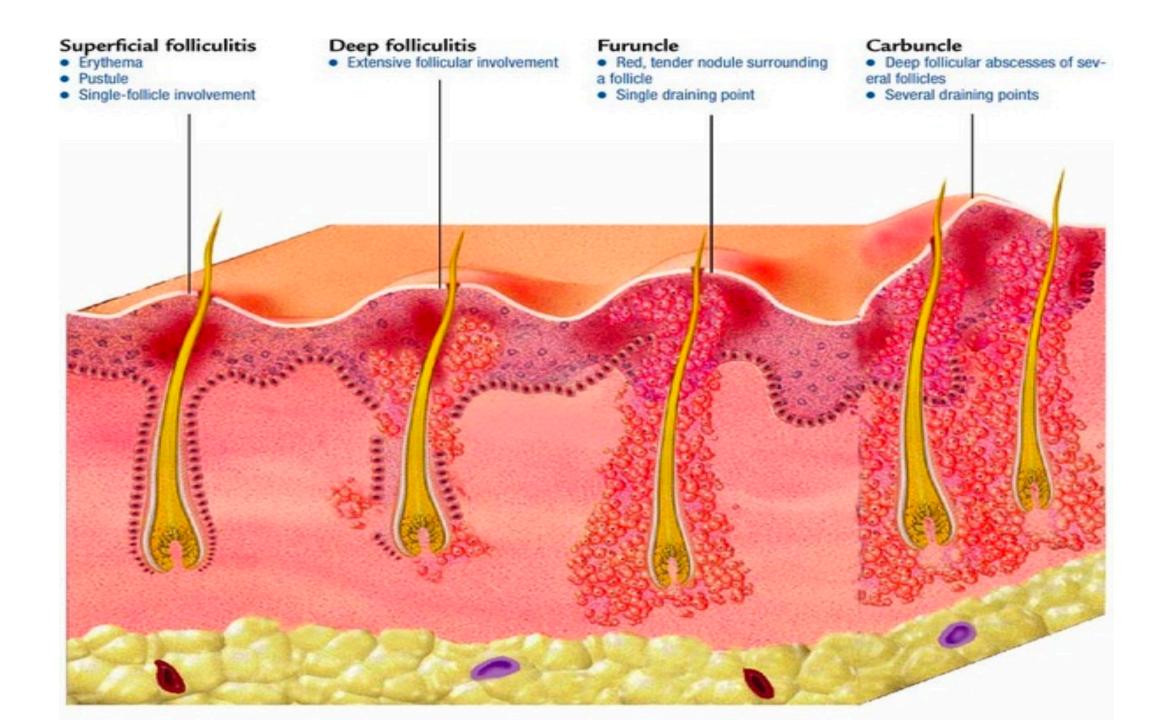
Impetigo



Severe impetigo



Pseudofolliculitis





Folliculitis with boil



Lichen planus



Lichen planus



Mucosal lichen planus: cancerous



Koebner's



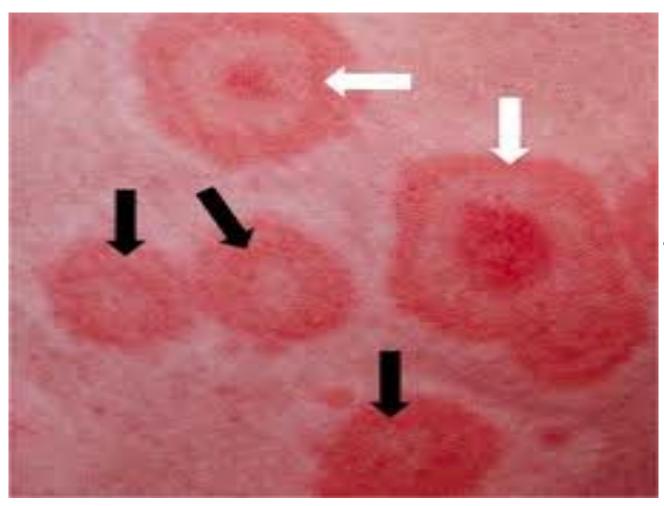
Nail changes I LP:
Pitting, nail plate
thickening, multiple
longitudinal splits



Pityriasis rosea No recurrence, no scars, not contagious, collar scales, herald patch



Guttate psoriasis



Target lesion of erythema multiforme



Erythema multiforme



Lyme disease Erythema marginatum



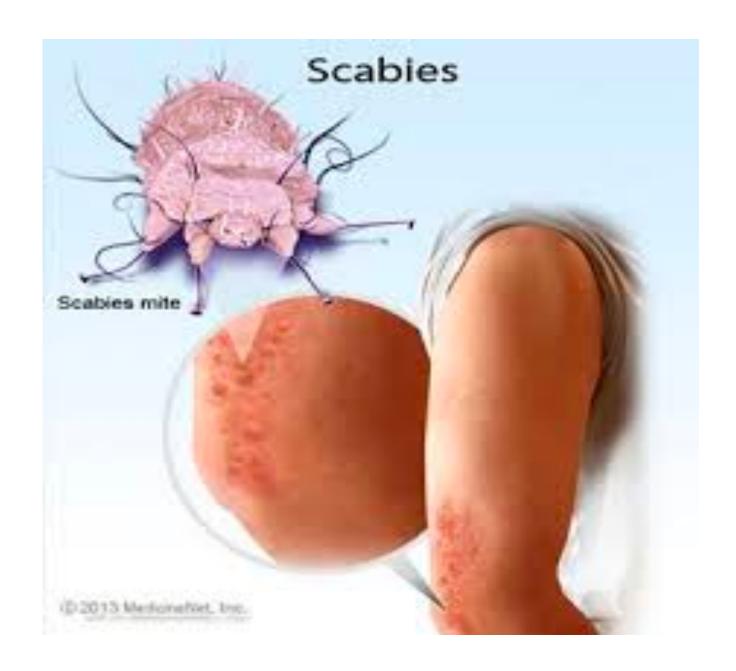
Leishmania



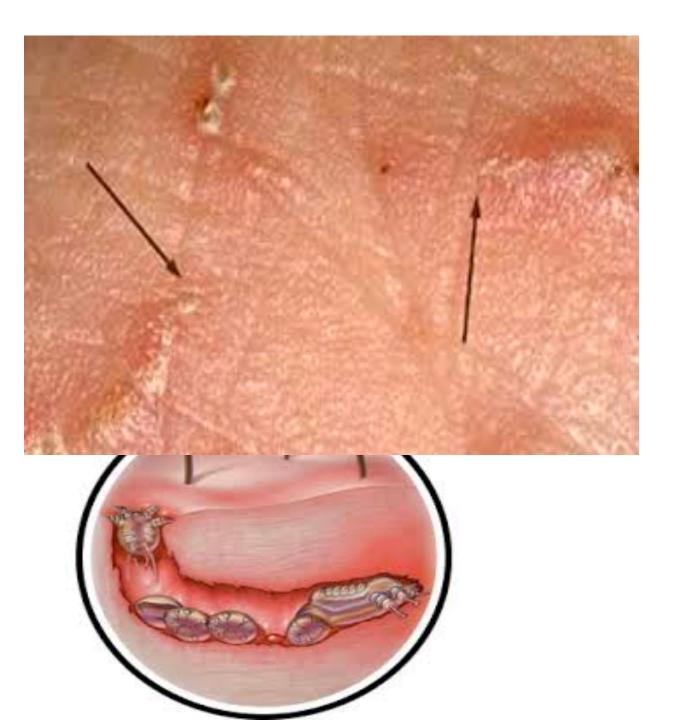
Leishmania



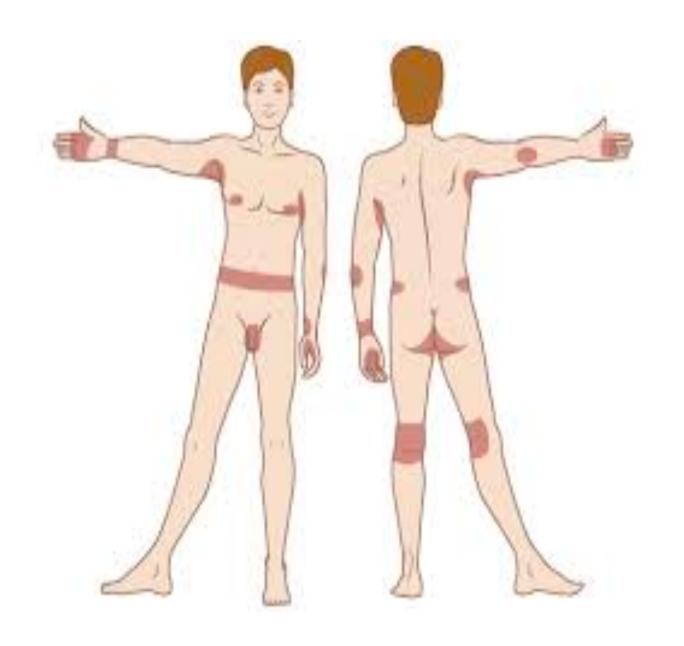
Sandfly



Infestation
Burrows
11-17 mites are needed to become symptomatic



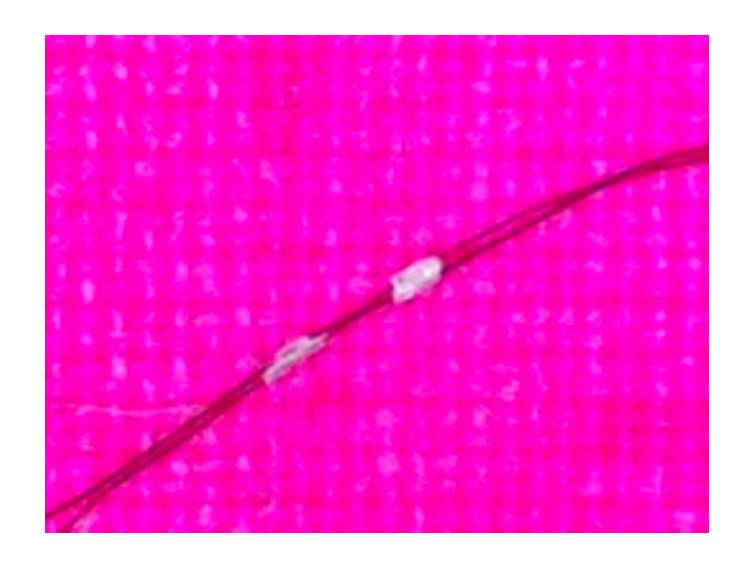
Burrows Few mm Egg is cemented



Scabies in adults spares the face and back due to the cidal effect of sebum



But it can affect the face in children



Cast: mobile



Lice: cemented







