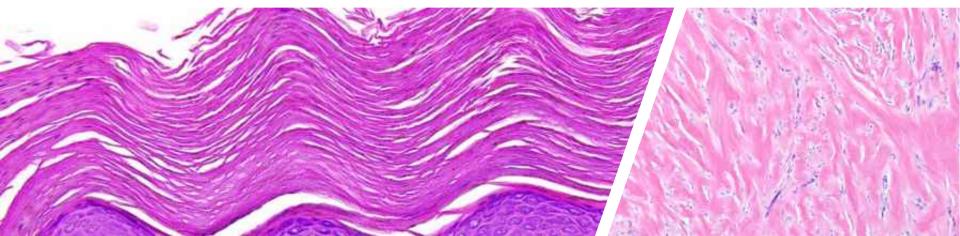


Skin I: Terminology & Structure

Jessie Forcucci, MD forcucci@musc.edu, 792-4702



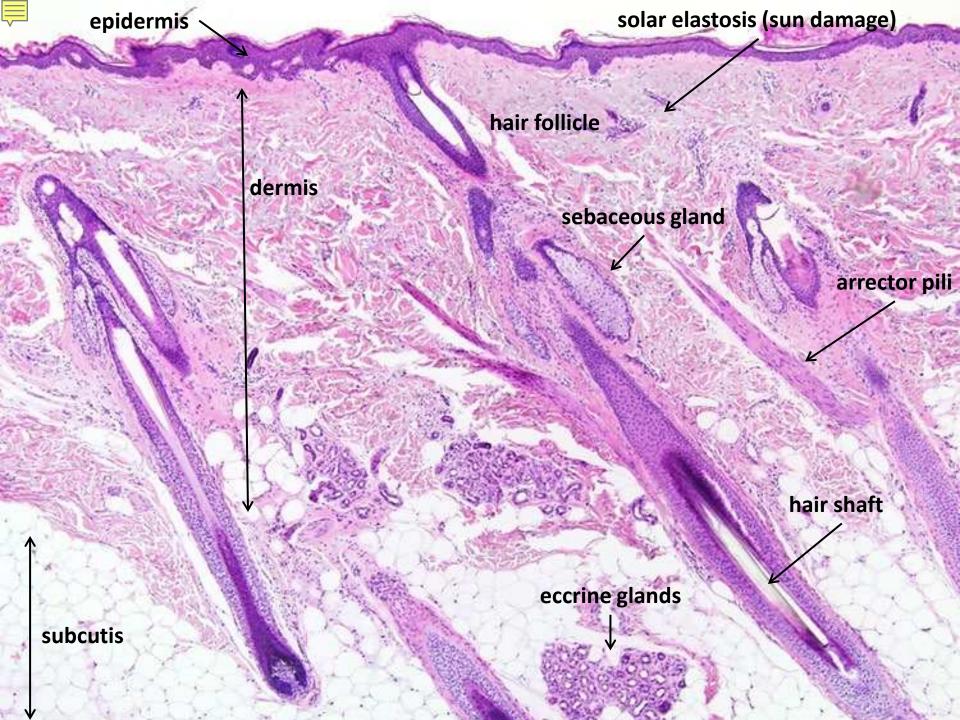
College of Medicine

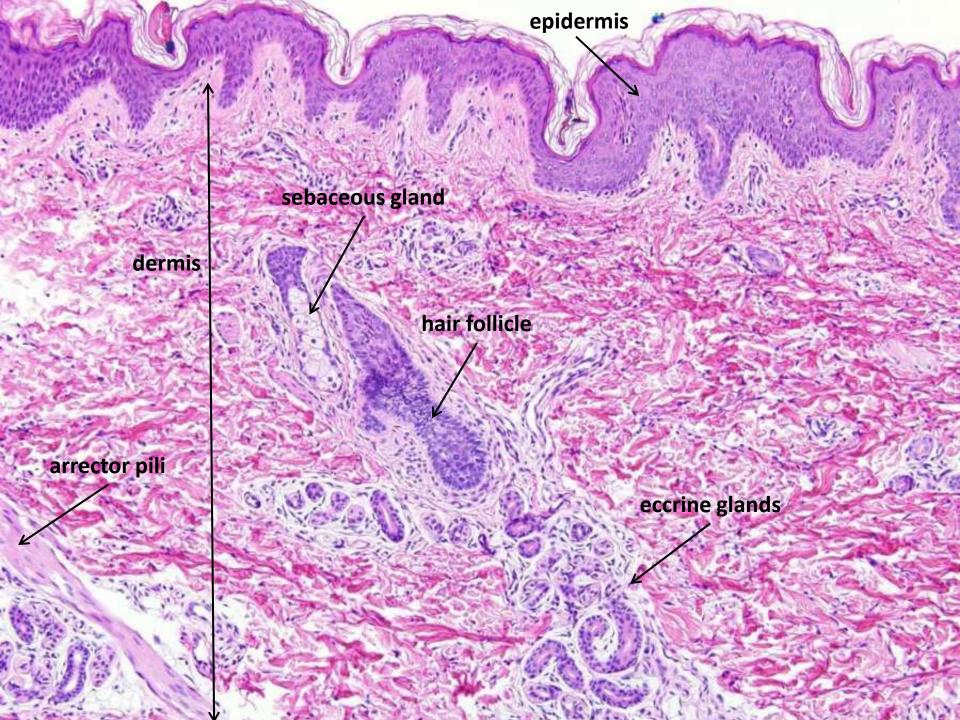


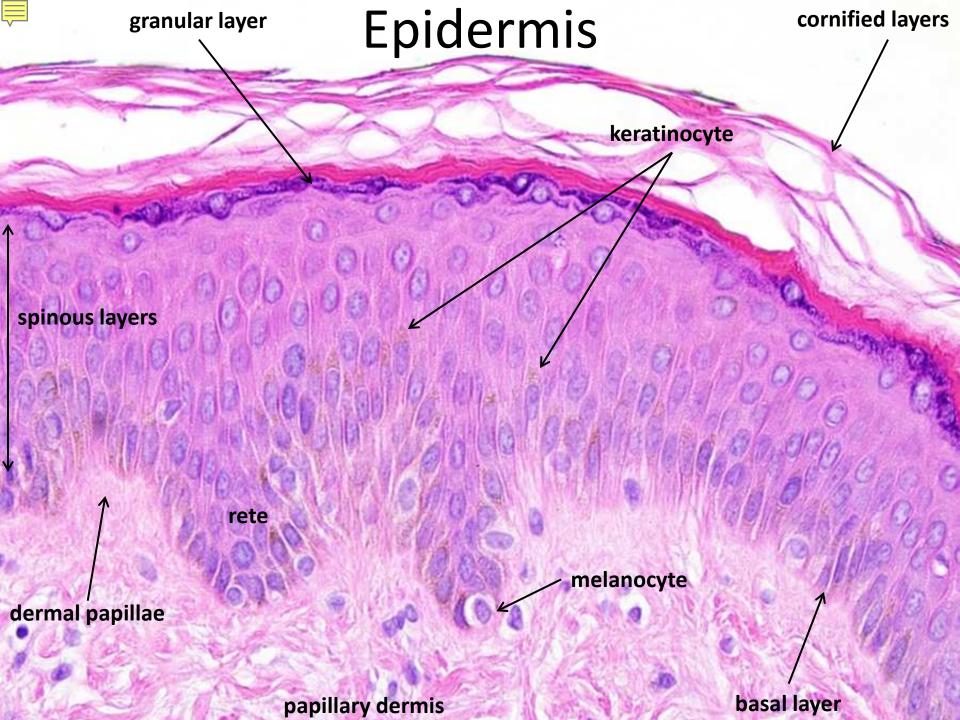


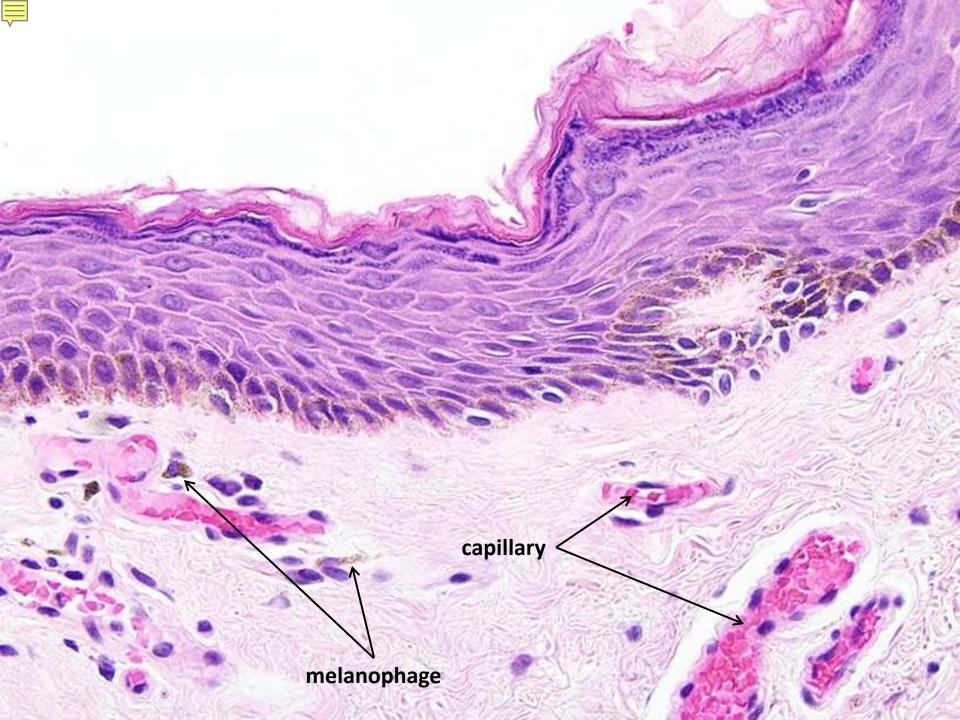
Objectives

- Identify normal anatomic skin structures microscopically
- Understand the meaning of common clinical and microscopic terms used to describe skin lesions





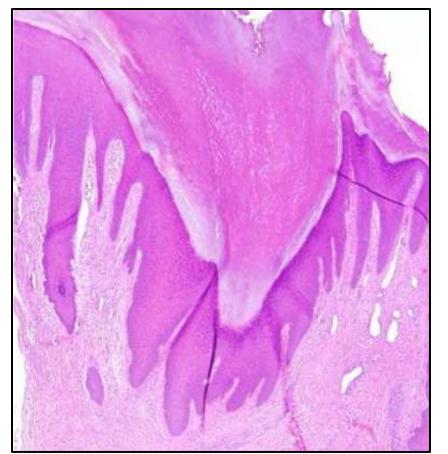


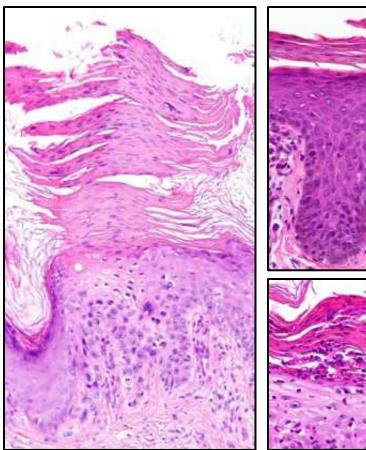


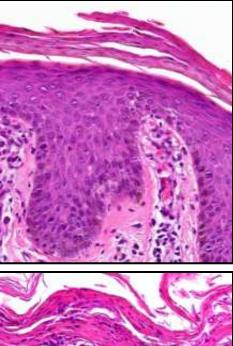
Hyperkeratosis

Orthokeratosis: thickened cornified layer without retention of nuclei

Parakeratosis: thickened cornified layer with retention of nuclei

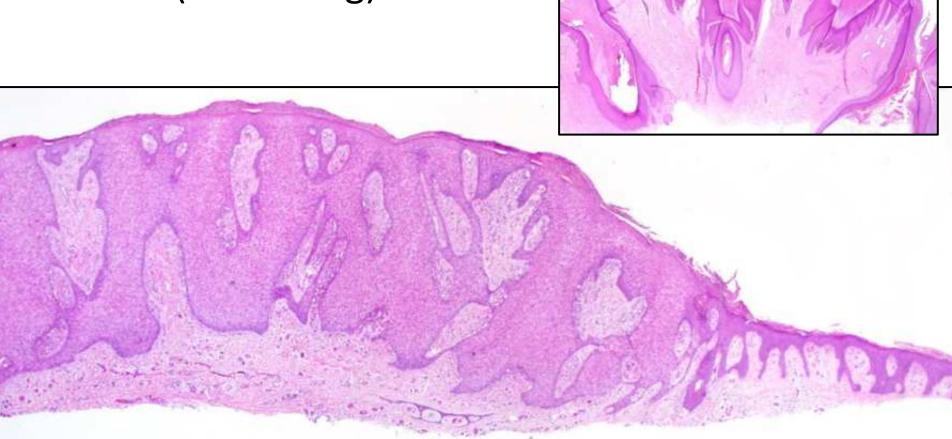




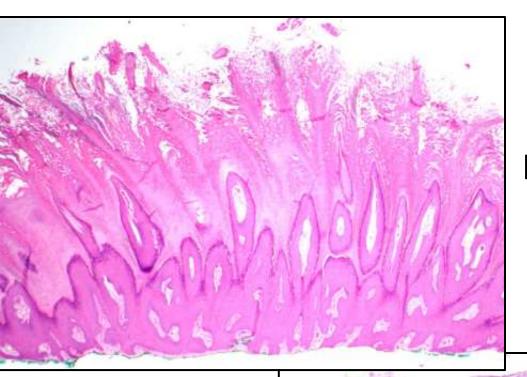


Acanthosis

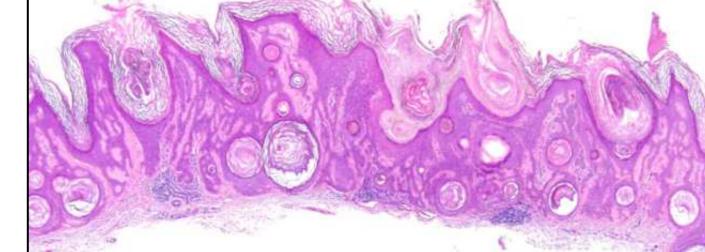
Epidermal hyperplasia (thickening)



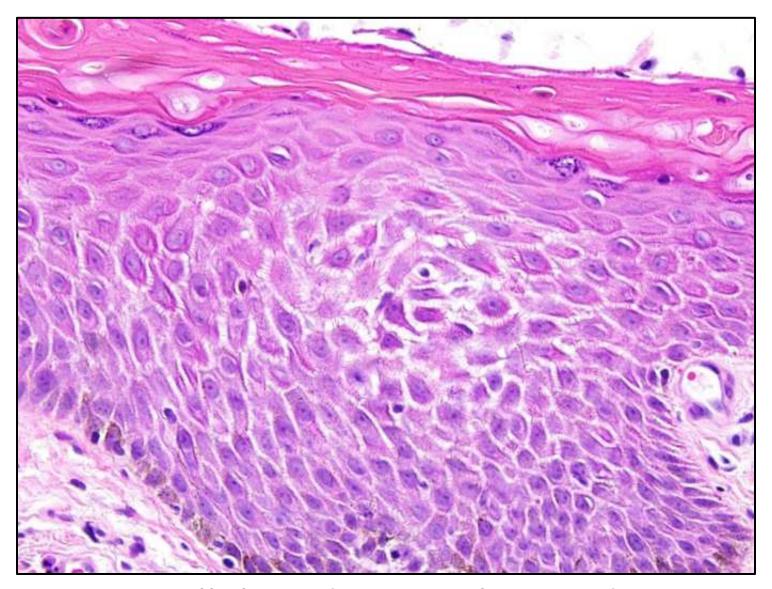
Papillomatosis



Surface elevation caused by hyperplasia and enlargement of dermal papillae

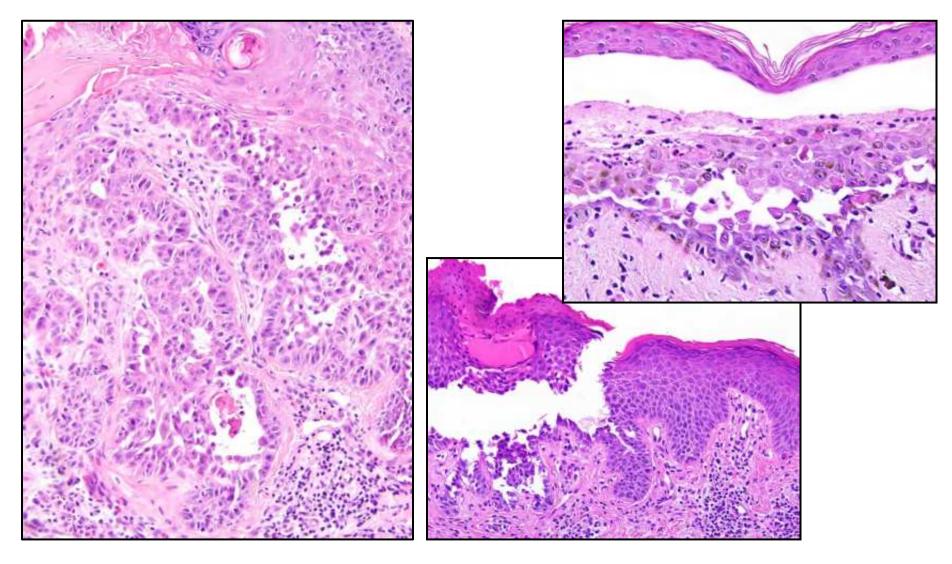


Spongiosis



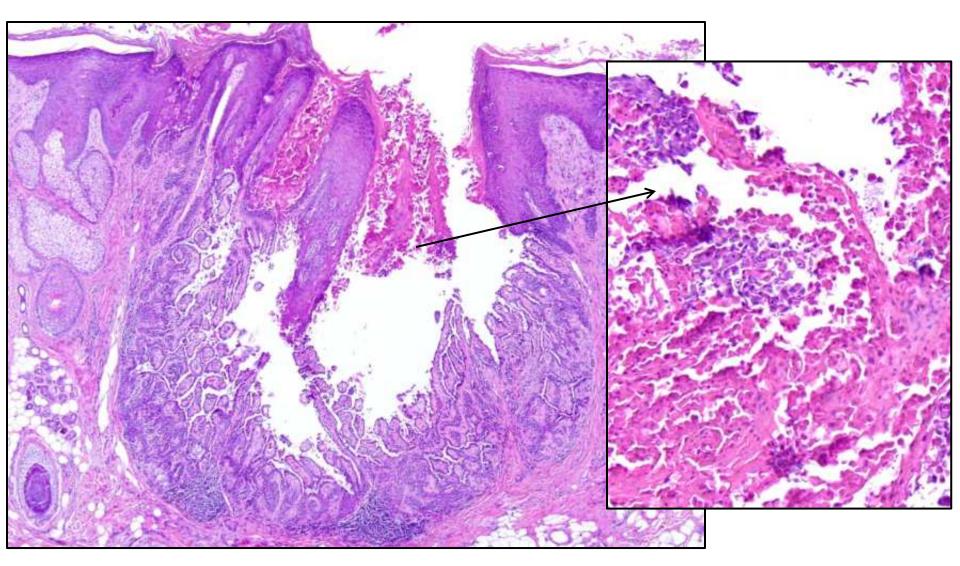
Intercellular edema within epidermis

Acantholysis



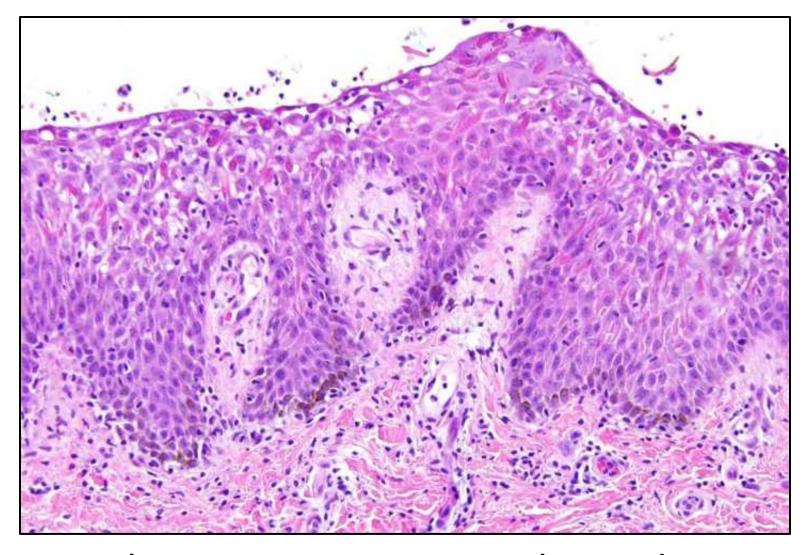
Lysis or disruption of intercellular keratinocyte adhesive junctions

Dyskeratosis



Abnormal, premature keratinization

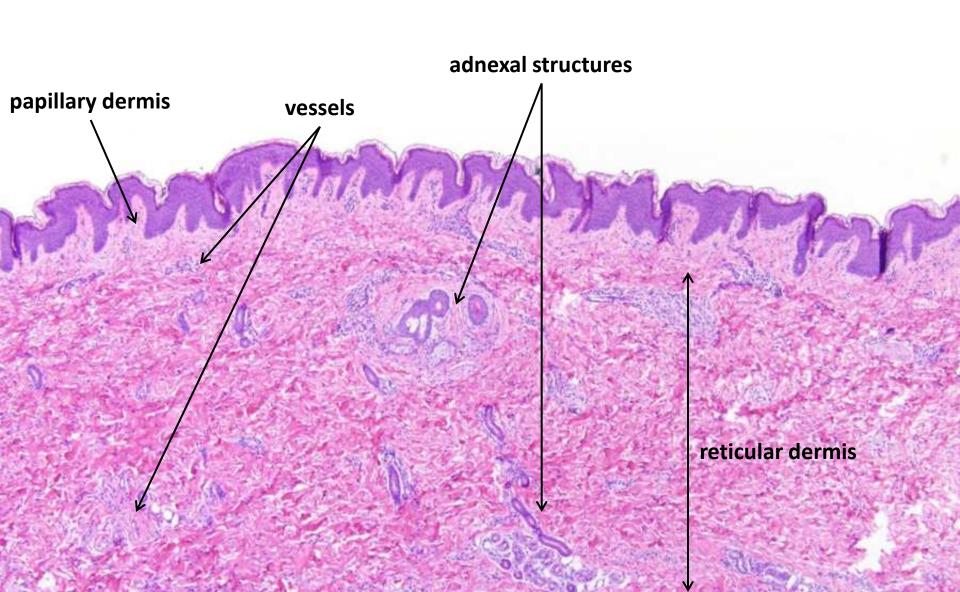
Exocytosis



Lymphocytes migrating into the epidermis

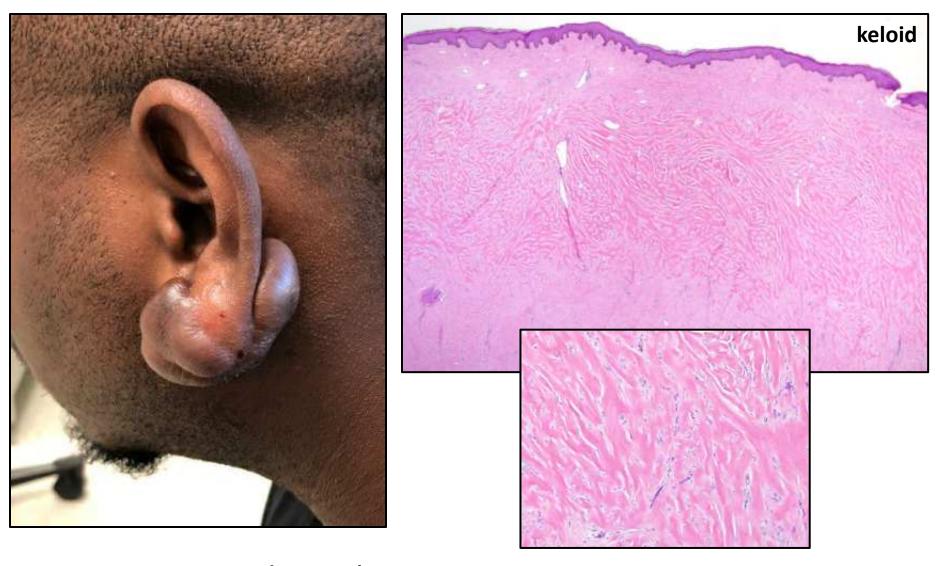


Dermis



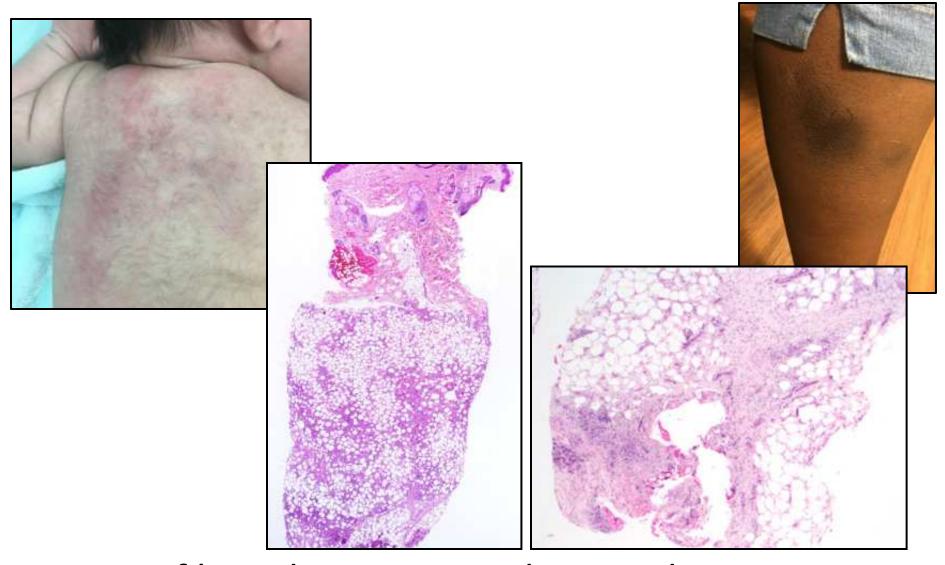


Scars



dermal reparative reaction

Subcutis (Subcutaneous Tissue)



fibroadipose tissue deep to dermis

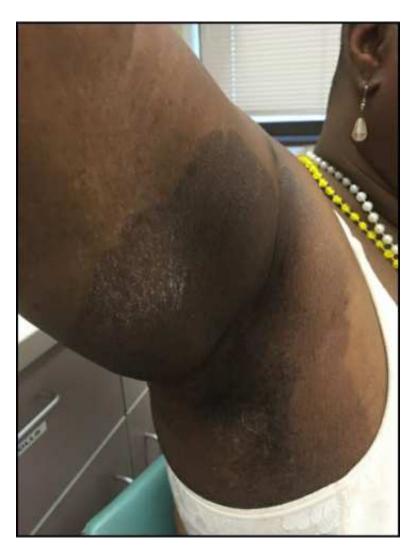


Macule

Patch



Circumscribed, flat lesion <5 mm



Circumscribed, flat lesion >5 mm

Papule





Elevated / dome shaped lesion <5 mm

Nodule





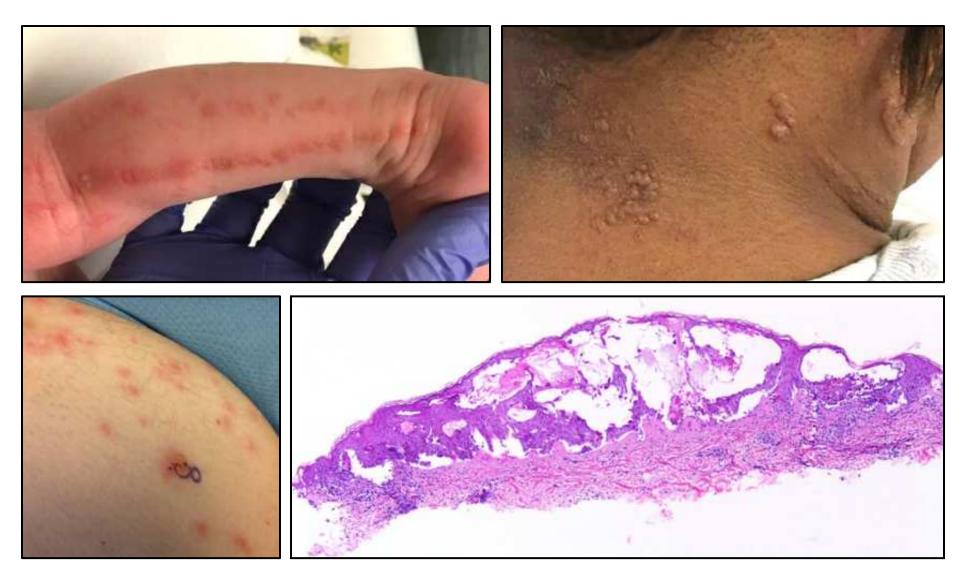
Elevated / dome shaped lesion >5 mm

Plaque



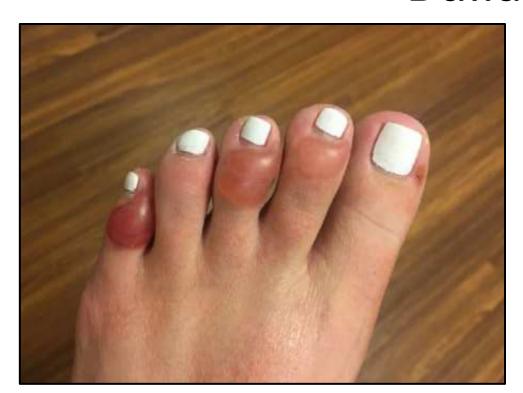
Elevated, flat-topped lesion >5 mm

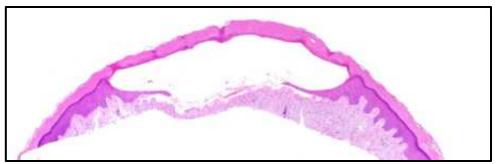
Vesicle

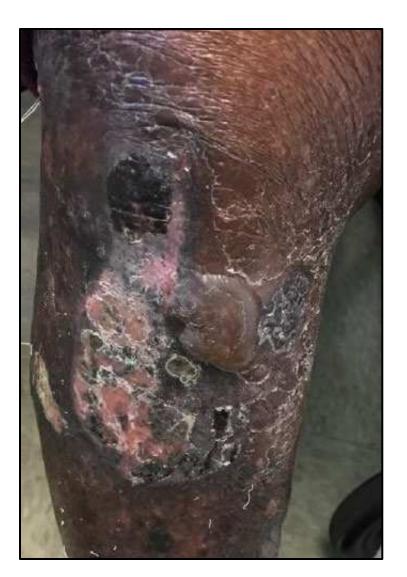


Fluid-filled blister < 5 mm in diamter

Bulla







Fluid filled blister >5 mm in diameter

Pustule



Raised, discrete, pus-filled lesion

Wheal



Pruritic, elevated lesion with variable blanching and erythema

Image Source: Andrews' Diseases of the Skin Clinical Atlas

Erosion

Ulcer



Loss of a portion or the entire epidermis (heals without a scar)

Loss of the epidermis and portion of dermis (heals with a scar)

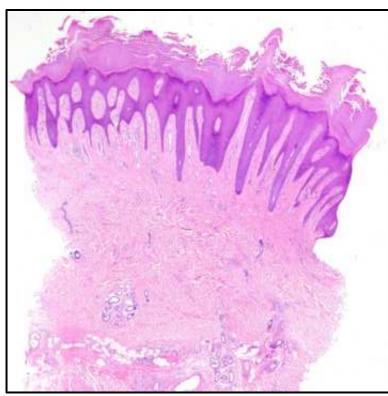
Excoriation



Traumatic, self-inflicted break in skin due to scratching

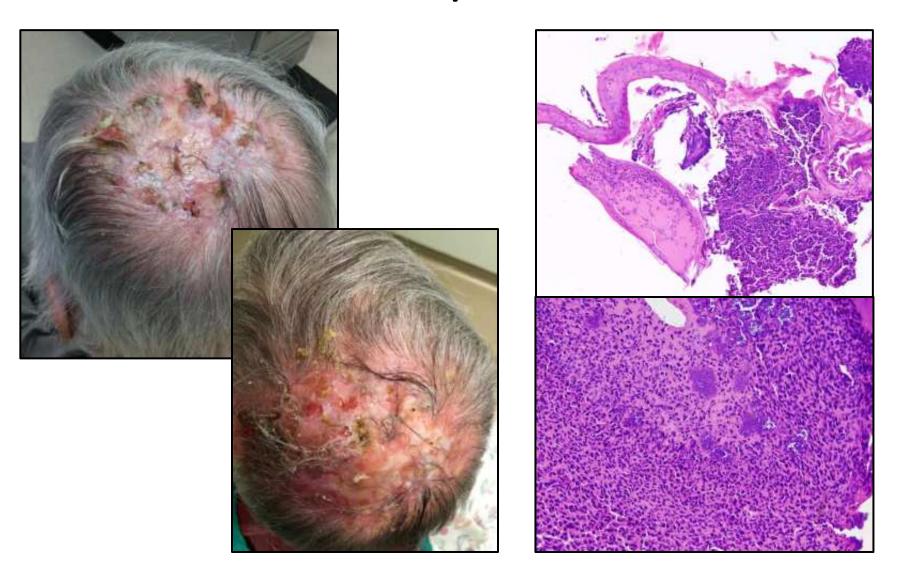
Lichenification





Thickened, rough skin due to repeated rubbing or scratching

Crust / Scab



Dried serum, pus, blood, and epithelial debris

Scale





Laminated or plate-like mass of keratin due to abnormal keratinization (dry, greasy, delicate, coarse, micaceous, white, yellow, brown)

References

Robbins Basic Pathology, 10th Edition
 [https://www.clinicalkey.com/#!/browse/book

/3-s2.0-C20140017194]

– Chapter 24, Skin (pg. 889-908)