

MACULE

A macule is a flat lesion, even with the surface level of surrounding skin, perceptible as an area of color different from the surrounding skin or mucous membrane. Macules are non-palpable. Their shapes are varied and borders may be distinct or vague. Maculosquamous is a neologism invented to describe macules with fine non-palpable scaling, which may become apparent only after light scraping and scratching.

Perhaps the most important additional feature of a lesion other than primary morphology is color. Lesional color, which is often the first visual assessment made, is reliably reproducible with particular

types of pathologies, such as destruction of melanocytes, dilatation of dermal blood vessels, or inflammation of vessel walls with extravasation of red blood cells. As such, color provides meaningful insight into pathologic processes of the skin and facilitates clinical diagnosis. Pigmentary changes represent an important and common type of macular color change and

may be described as hyperpigmented (as in post-inflammatory hyperpigmentation), hypopigmented (as in tinea versicolor), or depigmented (as in vitiligo).
Implications of Color Changes in Altered Skin
COLOR
PATHOLOGY
DIAGNOSTIC CONSIDERATION
Apple jelly
Granulomatous inflammation
Tuberculosis, sarcoidosis, leishmaniasis
Black

Melanin, necrosis
Melanoma, purpura fulminans, calciphylaxis
Blue
Deep dermal pigment, reduced hemoglobin, tattoo, medication
Blue nevus, amiodarone
Brown
Melanin, hemosiderin, chronic inflammation, post-inflammatory, dried serum
Nevus, melasma
Copper
Inflammation with plasma cells
Secondary syphilis

Green
Deep hemosiderin, pyocyanin pigment, tissue eosinophilia
Pseudomonas infection, tattoo, Wells syndrome
Grey
Deep melanin or other pigment deposition
Chloroquine toxicity, mongolian spot, erythema dyschromicum perstans
Lilac
Inflammation, dilatation of deep dermal blood vessels
Borders of evolving morphea, derma tomyositis
Orange
Granulomatous inflammation with histiocytes having abundant cytoplasm

Juvenile xanthogranuloma
Pearly
Epidermal proliferation without surface keratin
Basal cell carcinoma
Pink
Acute inflammation, dilatation of superficial dermal blood vessels, hemorrhage
Eczema
Red
Hemorrhage, acute inflammation, dilatation of blood vessels
Psoriasis, drug eruptions

Salmon pink
Inflammation with involvement of epidermis, dilatation of blood vessels inflammation with edema
Pityriasis rubra pilaris, psoriasis, urticaria
Violet
Hemorrhage, deep hemosiderin, lichenoid inflammation
Lichen planus, Kaposi sarcoma
White
Reduced or absent melanin synthesis, post-inflammatory
Tinea versicolor, albinism, vitiligo
Yellow
Superficial staphylococcus or streptococcus infection mixed with keratinized cells, carotenoids, hemosic

Impetigo, xanthomas, sebaceous hyperplasia, necrobiosis lipoidica diabeticorum, jaundice