

### 8.8.3. Neoplastic Disorders of the Conjunctiva and Cornea (III): Benign Pigmented Lesions

**Benign (racial) melanosis**

- bilateral
- middle-aged individuals with dark skin
- less prominent as one approaches the fornix
- most apparent at the limbus
- increasing pigmentation of the conjunctiva
- streaks and whorls of peripheral corneal epithelial pigment
- striate melanokeratosis

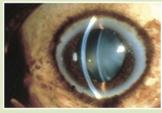


Figure 8-7 (© 2020 American Academy of Ophthalmology)

**Introduction**

- Pigment spot of the sclera**: collection of melanocytes associated with intrascleral nerve loop perforating anterior ciliary vessel
- Melanosis**: excessive pigmentation without an elevated mass
  - congenital (whether epithelial or subepithelial)
  - acquired (whether primary or secondary)
- Conjunctival pigmentation**: chronic exposure to
  - epinephrine
  - silver
  - mascara

See Tables 8-2 and 8-3

**Congenital epithelial melanosis (freckle/ephelis)**

- present at an early age
- flat brown patch
- bulbar conjunctiva near the limbus
- more common in darkly pigmented individuals

**Nevus**

arise during childhood and adolescence

rare except in children

difficult to distinguish histopathologically from primary acquired melanosis

most common type

equivalent of the intradermal nevus

flat or elevated

variable pigmentation

subepithelial nevus often has a cobblestone appearance

half of all conjunctival nevi

compound or subepithelial nevi

secretion of mucin by goblet cells in the inclusion cysts can cause a nevus to enlarge

small epithelial inclusion cysts

when inflamed, an amelanotic, vascularized nevus may resemble

secondary lymphocytic inflammation

clinical impression of conjunctival melanoma

rapid enlargement at puberty

serial photography

follow every 6-12 months

rarely become malignant

lesions that change

excisional biopsy should be performed on

nevi are rare in these locations!

lesions on the tarsal conjunctiva, the caruncle, or the plica semilunaris or fornix

types

- junctional (pure intraepithelial)
- compound
- subepithelial

clinical findings

management



**Ocular melanocytosis**

1,2500 individuals

usually unilateral

5% bilateral

pathogenesis

focal proliferation of subepithelial melanocytes (blue nevi)

clinical findings

slate gray

immobile

patches of episcleral pigmentation (congenital melanosis of the episclera)

proliferation of dermal melanocytes in the periorcular skin

dermal melanocytosis (nevus of ota)

first and second dermatomes of cranial nerve V

1/2

ocular dermal melanocytosis

increased pigmentation of the iris and choroid

secondary glaucoma

10%

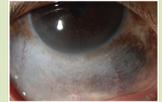
rare

lifetime risk of uveal melanoma in a patient with ocular melanocytosis is about 1/400

seems to occur only in patients with fair complexions

malignant transformation

- skin
- conjunctiva
- uvea
- orbit



**Neurogenic and Smooth-Muscle Tumors**

neurofibroma of the conjunctiva or eyelid is almost always a manifestation of neurofibromatosis

neurofibroma

from Schwann cells of a peripheral nerve sheath

neurilemoma (schwannoma)

types

- peripheral nerve sheath tumors

neuroma

more common in multiple endocrine neoplasia (MEN)

very rare limbal lesion

leiomyosarcoma

potential for orbital invasion