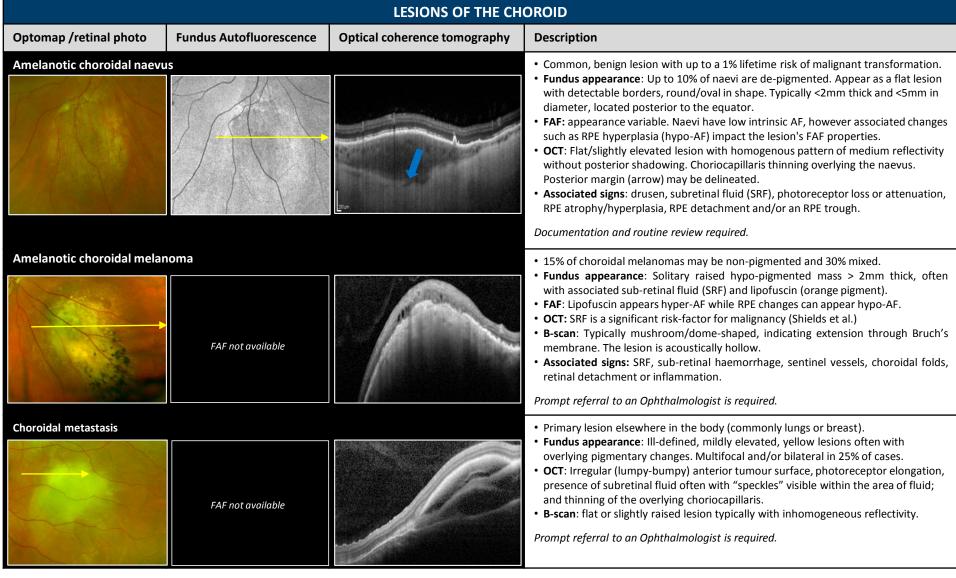


## CHAIR-SIDE REFERENCE: HYPO-PIGMENTED POSTERIOR LESIONS



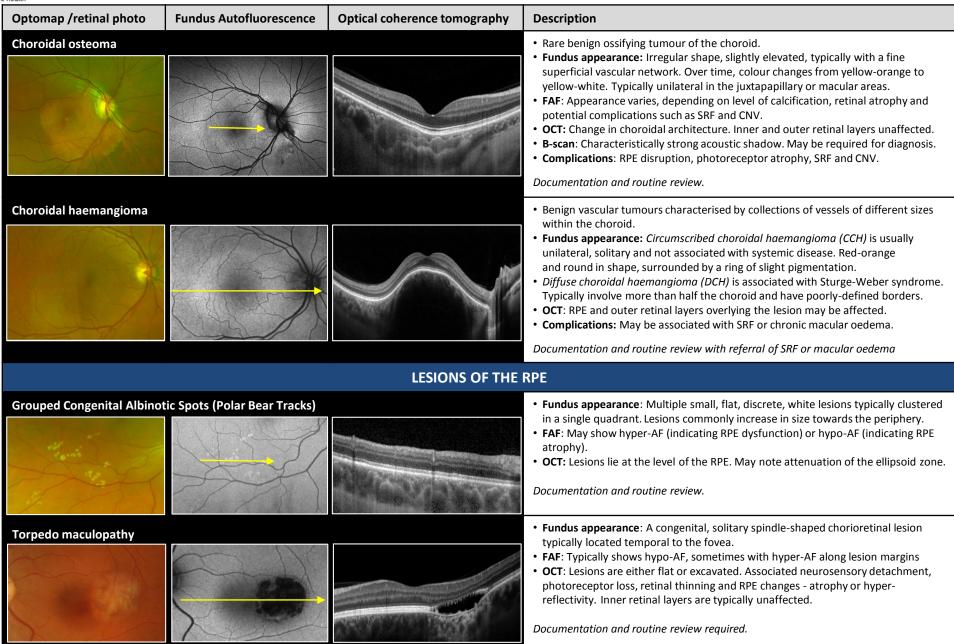
A systematic approach to assessment of choroidal lesions involving careful consideration of its imaging characteristics may be helpful when forming a diagnosis. A useful mnemonic was developed by Shields and associates to explore risk factors for choroidal naevus transformation into melanoma. https://pubmed.ncbi.nlm.nih.gov/30844944/

# To Find Small Ocular Melanoma Doing Imaging

- Thickness>2mm
- Subretinal Fluid
- Symptoms
- Melanoma hollow with ultrasound
- Orange pigment (lipofuscin)
- Diameter greater than 5mm



### CHAIR-SIDE REFERENCE: HYPO-PIGMENTED POSTERIOR LESIONS





#### CHAIR-SIDE REFERENCE: HYPO-PIGMENTED POSTERIOR LESIONS

#### **LESIONS OF THE RETINA** Optical coherence tomography Description Optomap /retinal photo **Fundus Autofluorescence** Retinal Astrocytic Hamartoma (Retinal Astrocytoma) • Benign tumours arising from the glial cells of the retinal nerve fibre layer. • Fundus appearance: Globular white elevated lesion with intrinsic blood vessels. Early semi-translucency increasing in calcification over time. Minimal growth. • OCT: Optically empty adjacent cystic intra-retinal spaces may be seen. • FAF: Calcification of the tumour is associated with hyper-AF. • Systemic associations: Most commonly associated with neurofibromatosis type 1 or tuberous sclerosis but may occasionally be an isolated finding. Documentation and routine review. Refer lesions with evidence of progression Primary Intraocular Lymphoma (PIOL) An extra-nodal non-Hodgkin, diffuse large B cell lymphoma with high morbidity. • Fundus appearance: Flat creamy orange-yellow mass that may be single or multiple and usually associated with vitritis. OCT: Mass located deep in the sensory retina. • Systemic associations: Between 56-80% of cases of PIOL subsequently develop FAF not available OCT not available brain lymphoma. Prompt referral to an ocular oncologist is required. Image Courtesy of Dr N. Assaad **LESIONS OF THE SCLERA** Sclero-choroidal calcification Calcium deposition at the level of the sclera and choroid. • Fundus appearance: Multiple discrete yellow placoid lesions typically found in the superotemporal post-equatorial retina. OCT: 'Mountain-like' scleral elevations including flat, rolling, rocky-rolling and table profiles. Compression of the overlying choroid and RPE abnormalities. **FAF**: Lesions can show iso- or hyper- autofluorescence. • Systemic associations: Conditions altering calcium and phosphate metabolism. Documentation and routine review. Refer to GP for appropriate screening Focal scleral nodule (Solitary idiopathic choroiditis) • A rare, benign scleral lesion of unknown aetiology showing minimal growth. • Fundus appearance: Discrete, yellow-white scleral lesion with surrounding orange halo. Active lesions have ill-defined margins, sub-retinal fluid and yellow intra-retinal exudative material. Focal haemorrhages may also be present. • FAF: Typically show hyper-AF which may be speckled if the RPE is disturbed. **OCT:** Smooth and nodular or dome-shaped lesion with thinning of the overlying choroid. May be associated with SRF.

This chair-side reference provides general information only and may not be applicable to atypical cases. For personalised clinical support or advice, please make a free telehealth appointment with one of the CFEH Senior Staff Optometrists – www.centreforeyehealth.com.au/telehealth.

Routine review of inactive lesions, refer active lesions to an Ophthalmologist.