

# CHAIR-SIDE REFERENCE: PACHYCHOROID DISEASE SPECTRUM

### PACHYCHOROID DISEASE SPECTRUM

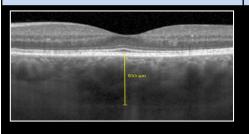
The Pachychoroid disease spectrum (PDS) refers to a group of macular conditions characterised by a thickened ("pachy") choroid. These conditions are linked to both structural and functional alterations in the choroid, with more recent associations involving vortex vein congestion and scleral abnormalities. The shared features of these conditions are illustrated below:

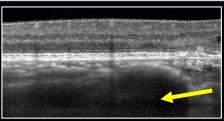
#### Increased choroidal thickness

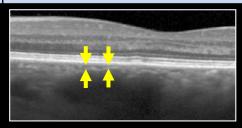
#### **Dilated large choroidal vessels**

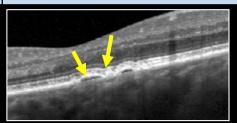
### Overlying choriocapillaris attenuation

#### **Associated RPE disturbances**









**Retinal photo** 

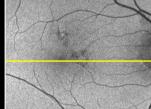
**Fundus Autofluorescence** 

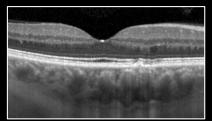
OCT

## Description

### Pachychoroid Pigment Epitheliopathy (PPE)





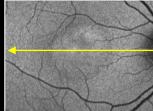


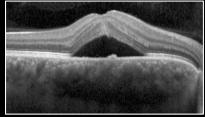
- Definition: considered a forme fruste variant of central serous chorioretinopathy (CSCR), with no history of current or past sub-retinal fluid.
- Symptoms: typically asymptomatic.
- **Fundus exam:** can have minimal signs, though pigment alterations may be present.
- FAF: shows granular hypo-fluorescence and/or mixed stippled hypo and hyper-fluorescence.
- OCT: shows drusen-like focal RPE elevations, possibly with an associated serous pigment epithelial detachment (PED)

May progress to other forms of pachychoroid disease spectrum, yearly review with OCT recommended.

#### **Acute Central Serous Chorioretinopathy (CSCR)**





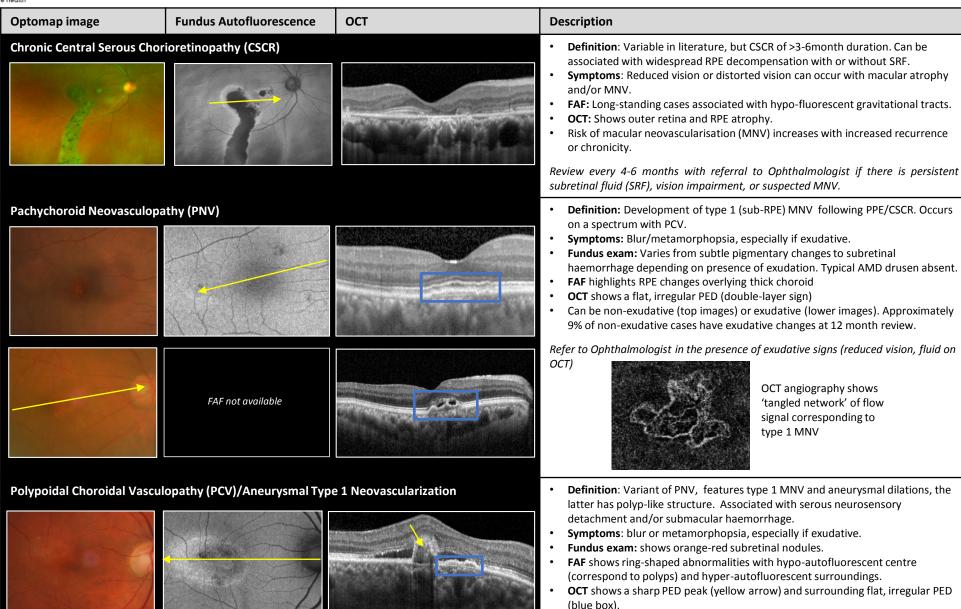


- **Definition:** localised serous detachment of macula.
- **Symptoms:** unilateral blur or metamorphospsia with a mild hyperopic shift.
- **Fundus exam:** raised appearance of the macula with frequent hyper or hypo pigment changes.
- FAF may show no apparent abnormality or hyper-fluorescence associated with the areas of sub-retinal fluid.
- OCT shows a well-defined serous retinal detachment usually associated with a PFD
- **High** proportion (78-84%) of cases self-resolve by 6 months.

Remove or modify risk factors if possible, review with repeat OCT in 3 months. If there is no improvement by 3 months and/or the patient requires optimised vision and faster recovery, consider referral to Ophthalmologist.



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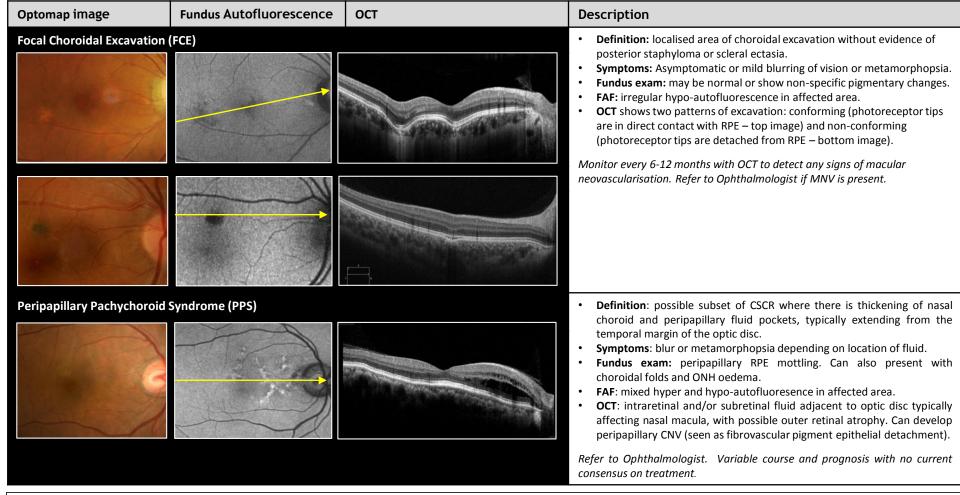


Refer to Ophthalmologist.

Indocyanine green angiography is the gold standard for diagnosing PCV.



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This reference is based on the current literature and evidence at the time of writing. This reference is designed a guide to aid diagnosis and management decisions however individual cases must be assessed in the context of all available clinical data. Management options within this reference are tailored for Australian Optometrists different scopes of practice should be considered outside of Australia. Amsler grid may be useful for self-monitoring. If you need additional advice or guidance, consider making a free telehealth appointment with a senior CFEH optometrist.

WWW.CENTREFOREYEHEALTH.COM.AU/TELEHEALTH