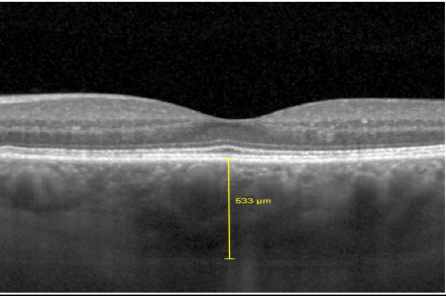
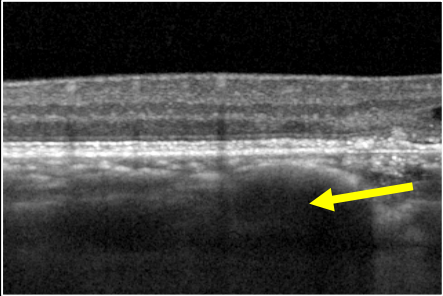
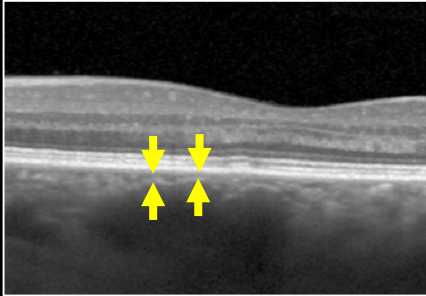
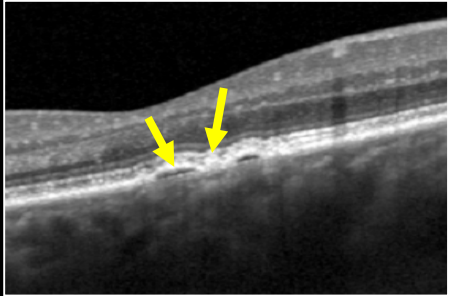


CHAIR-SIDE REFERENCE: PACHYCHOROID DISEASE SPECTRUM

PACHYCHOROID DISEASE SPECTRUM

The Pachychoroid disease spectrum is a group of conditions which have characteristic morphologic changes implicating a common underlying disease process causing structural and functional choroidal alteration. These common features are illustrated below:

Increased choroidal thickness	Dilated choroidal vessels	Overlying choriocapillaris attenuation	Associated RPE disturbances
			

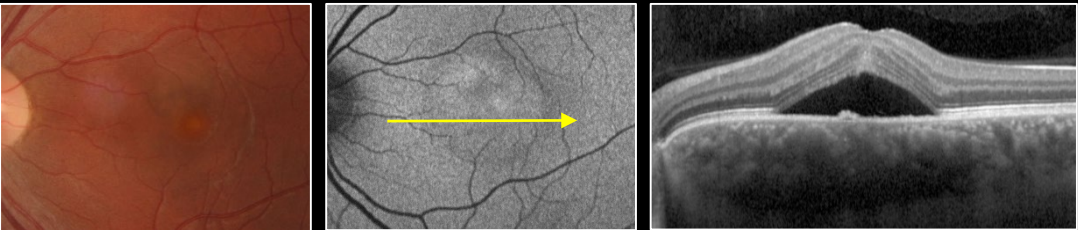
Optomap/Retinal Photo	Fundus Autofluorescence	Optical coherence tomography (OCT)	Description
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Pachychoroid Pigment Epitheliopathy (PPE)



- Considered a forme fruste variant of CSCR
- Typically asymptomatic with minimal fundus signs – possible pigment alteration.
- No present or past history of sub-retinal fluid
- FAF shows granular hypo-fluorescence and/or mixed stippled hypo and hyper-fluorescence
- Drusen-like focal RPE elevations seen on OCT, possibly with an associated serous pigment epithelial detachment (PED)

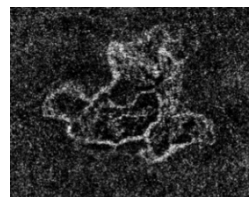
Acute Central Serous Chorioretinopathy (CSCR)



- Unilateral blur or metamorphopsia with a mild hyperopic shift
- 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 an well-defined serous retinal detachment usually associated with a PED.

CHAIR-SIDE REFERENCE: PACHYCHOROID DISEASE SPECTRUM

PACHYCHOROID DISEASE SPECTRUM

Optomap/Retinal photo	Fundus Autofluorescence	Optical coherence tomography (OCT)	Description
Chronic Central Serous Chorioretinopathy (CSCR)			<ul style="list-style-type: none">Widespread RPE decompensation with or without subretinal fluidLong-standing cases are associated with hypo-fluorescent gravitational tracts on FAFOCT shows outer retina and RPE atrophyRisk of choroidal neovascularisation (CNV) increases with increased recurrence or chronicityReduced vision associated with macular atrophy and/or CNV
Pachychoroid Neovascularopathy (PNV)			
			<ul style="list-style-type: none">Development of type 1 CNV following PPE and/or CSCR.Can progress to PCV (below)May have associated blur or metamorphopsiaFAF highlights RPE changes overlying thick choroidOCT shows a flat, irregular PED (double-layer sign)  <p>OCT angiography shows 'tangled network' of flow signal corresponding to type 1 CNV</p>
Polypoidal Choroidal Vasculopathy (PCV)/Aneurysmal Type 1 Neovascularization			<ul style="list-style-type: none">Serosanguinous maculopathy characterised by type 1 CNV ending in aneurysmal dilations, which appear as polyp-like structureAssociated with serous neurosensory detachment and/or submacular haemorrhageFunduscopy shows orange-red subretinal nodulesFAF shows ring-shaped abnormalities with hypo-autofluorescent centre (correspond to polyps) and hyper-autofluorescent surroundingsOCT shows a sharp PED peak and surrounding flat, irregular PED.Indocyanine green angiography is the gold standard for diagnosing PCV
Focal Choroidal Excavation (FCE)			
			<ul style="list-style-type: none">Localised area of choroidal excavation without evidence of posterior staphyloma or scleral ectasiaAsymptomatic or mild blurring of vision or metamorphopsiaFunduscopy may be normal or show non-specific pigmentary changesOCT shows two patterns of excavation – conforming (photoreceptor tips are in direct contact with RPE as shown here) and non-conforming (photoreceptor tips are detached from RPE)

*Please note peripapillary pachychoroid syndrome, is also considered part of the pachychoroid disease spectrum but not described in this reference.