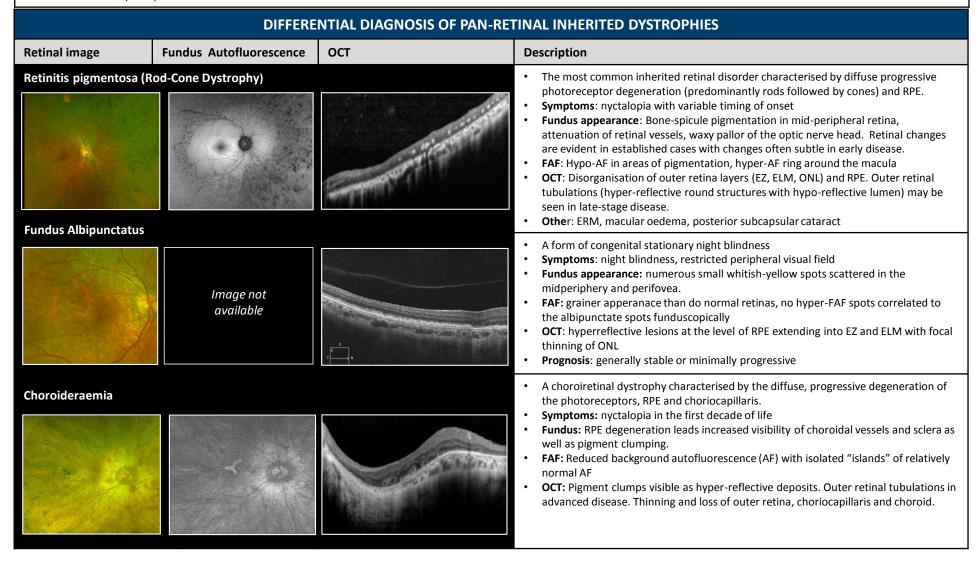


## CHAIR-SIDE REFERENCE: PANRETINAL PIGMENTARY INHERITED RETINAL DEGENERATIONS

## **INHERITED RETINAL DEGENERATIONS (IRD)**

Inherited retinal degenerations (IRDs) encompass a large group of clinically and genetically heterogeneous diseases that can lead to progressive vision loss. As such, there are a number of different methods utilised to group them into categories. This chairside reference is specific to panretinal dystrophies which are associated with pigmentary changes. A common symptom of these conditions is nyctalopia and associated visual field constriction.





## CHAIR-SIDE REFERENCE: INHERITED RETINAL DEGENERATIONS

## **Retinal image Fundus Autofluorescence** Description OCT **Gyrate Atrophy** A rare retinal dystrophy characterised by progressive chorioretinal degeneration, early cataract formation and myopia **Symptoms**: Nyctalopia occurs in the first decade of life. Fundus appearance: Large peripheral areas of chorioretinal atrophy that coalesce over time forming a scalloped border peripherally. FAF: Ares of chorioretinal atrophy are hypo-AF. FAF imaging shows the extent of chorioretinal atrophy much more clearly than retinal imaging. OCT: Atrophy of the outer retina and RPE. Intraretinal cystoid oedema and/or outer retinal tubulations may be present. A rare dystrophy characterised by presence of crystalline deposits, RPE degeneration **Bietti Crystalline Corneoretinal Dystrophy** and choroidal vessel sclerosis Symptoms: reduced vision, night blindness, visual field loss typically from 2nd decade Fundus appearance: Multiple, refractive crystals in the retina with associated RPE and choriocapillaris atrophy **FAF**: Ares of chorioretinal atrophy are hypo-AF. **OCT**: The crystalline deposits appear as hyperreflective dots within the retinal layers. Retinal and choroidal architecture is disrupted. Outer retinal tubulation often present. Other: Crystalline deposits in the peripheral cornea. CNV and/or macular oedema are complications of this condition. **DIFFERENTIAL DIAGNOSIS** Pigmented paravenous chorioretinal atrophy A rare disorder of unknow aetiology, characterised by pigment accumulation along the distribution of retinal veins. Typically non-progressive and has minimal effect on vision. **Fundus**: Pigmentation and associated chorioretinal atrophy along retinal veins. FAF: Linear areas of hypo-AF along the large retinal veins, often surrounded by an area of hyper-AF OCT: Thinning of the outer retina layers and disorganisation of the RPEchoriocapillaris complex. Hyper-reflective intra-retinal plagues with posterior shadowing, corresponding to pigmentary changes.



This reference is based on the current literature and evidence at the time of writing. This reference is designed a guide to aid diagnosis however individual cases must be assessed in the context of all available clinical data. If you need additional advice or guidance, consider making a free telehealth appointment with a senior CFEH optometrist.

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