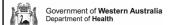


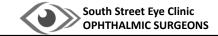
Aims

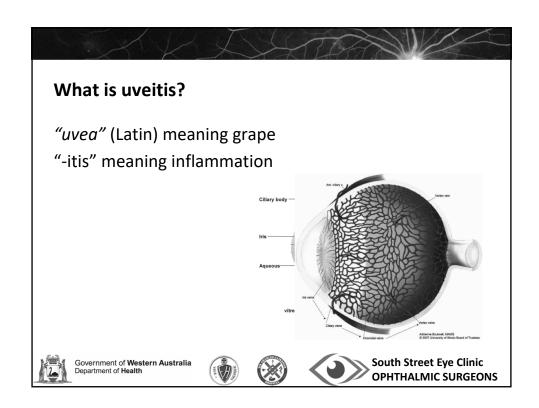
- Definition
- Classification & descriptors
- Common uveitic syndromes
- Retinal imaging in uveitis





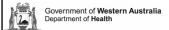






Causes of uveitis

- Infective
 - o Bacteria, fungi, virus, protozoa
- Immune-mediated
 - o With or without systemic disease
- Masquerade, i.e. secondary to another cause
 - o e.g. retinal detachment, lymphoma
- "Undifferentiated"









Standardization of Uveitis Nomenclature for Reporting Clinical Data. Results of the First International Workshop

THE STANDARDIZATION OF UVEITIS NOMENCLATURE (SUN) WORKING GROUP

SUN Working Group. Am J Ophthalmol 2005; 140:509-516

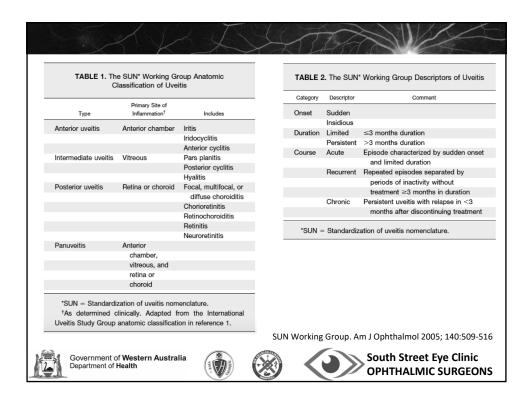


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Most uveitides can be characterised by...

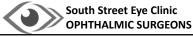
- Anatomic location
- Morphology
- Onset: sudden vs insidious
- Laterality: unilateral vs unilateral alternating vs bilateral (asynchronous vs simultaneous)
- Course: acute, recurrent, chronic
- Host/systemic disease
 - o Child vs adult
 - Immunocompetent vs immunocompromised

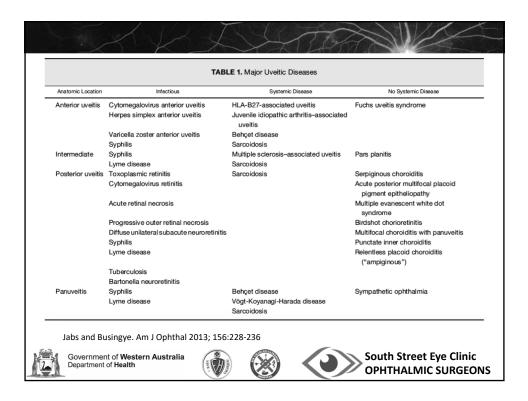


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Anterior uveitis syndromes

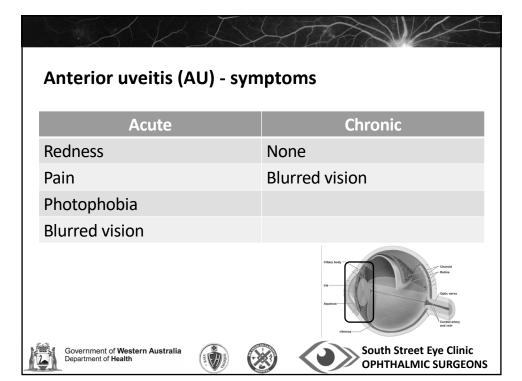
- HLA-B27-associated anterior uveitis
- Fuchs' heterochromic iridocyclitis
- Posner-Schlossman syndrome
- Herpetic anterior uveitis
- JIA-associated uveitis
- Idiopathic/undifferentiated











Anterior uveitis - signs

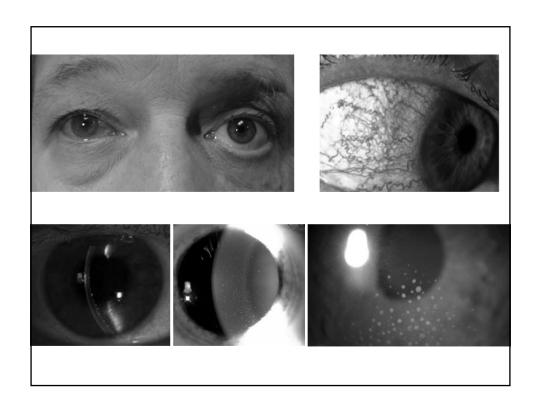
- Ciliary flush
- Keratic precipitates
 - o Fine, stellate, mutton-fat (granulomatous)
 - o Inferior (Arlt triangle) vs pan-corneal
- Anterior chamber cells, flare, fibrin, hypopyon
- Posterior synechiae/pigment on anterior lens capsule
- Pupillary miosis
- Iris nodules
- Iris transillumination
- Anterior vitreous cells
- Increased or decreased intraocular pressure

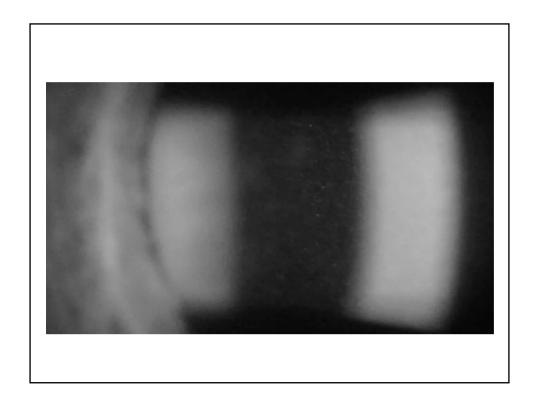


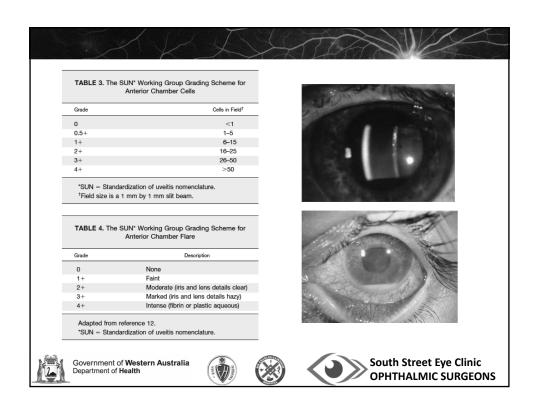


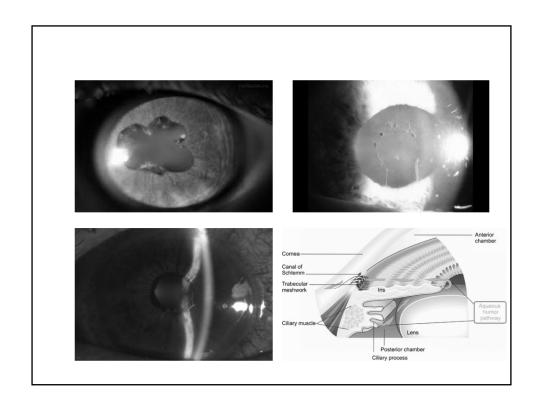


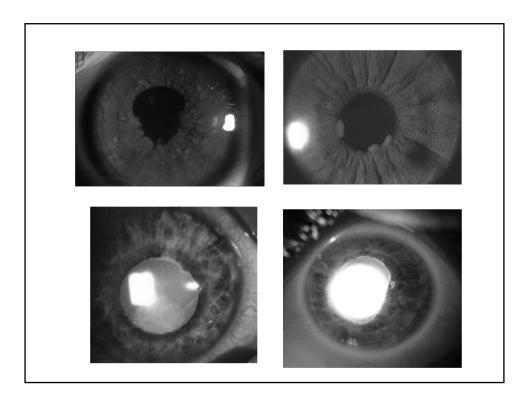












Anterior uveitis – chronic signs/complications

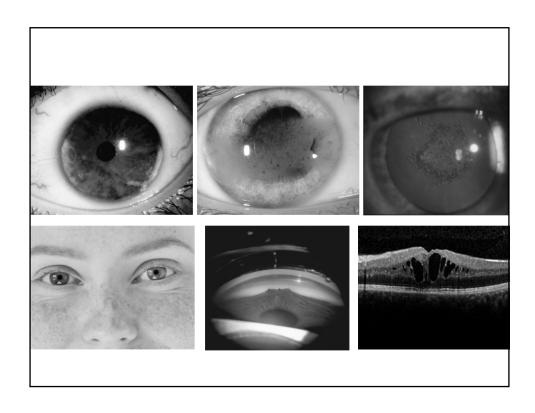
- Band keratopathy
- Pigmented keratic precipitates
- Posterior subcapsular cataract
- Heterochromia
- Peripheral anterior synechiae
- (cystoid macular oedema)

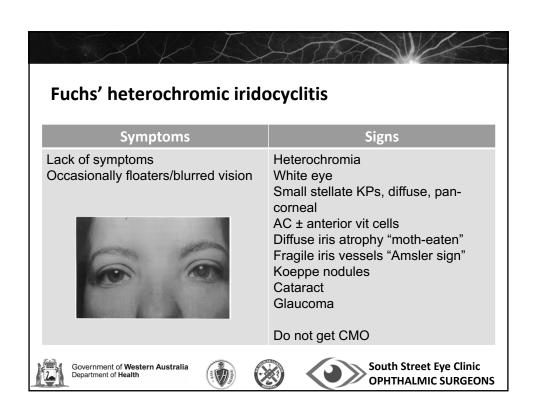












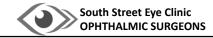
Posner-Schlossman syndrome

| Symptoms | Signs |
|---|--|
| Mild discomfort Halos around lights Blurred vision (slight) | Corneal epithelial oedema IOP 40-80 mmHg AC minimal reaction Few KPs (1-3) Diffuse iris atrophy in 1/3rd |









Herpetic iritis

| Symptoms | Signs |
|---------------------------|---|
| Discomfort | Corneal anaesthesia |
| Photosensitivity | AC cells – mild-to-moderate |
| Blurred vision | KPs – stellate, granulomatous, non- granulomatous |
| Hx of HZO rash/cold sores | Sectoral/diffuse iris transillumination Iris haemorrhage |
| January Line | Raised intraocular pressure |
| | Keratouveitis |
| | |



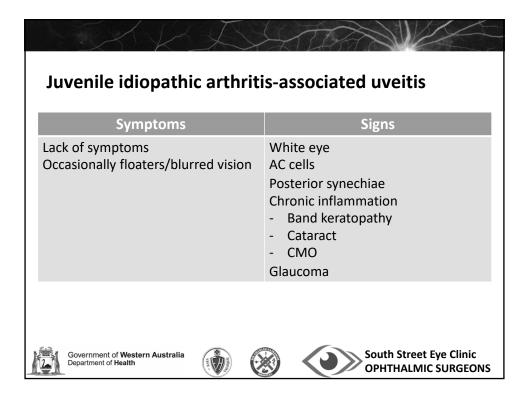
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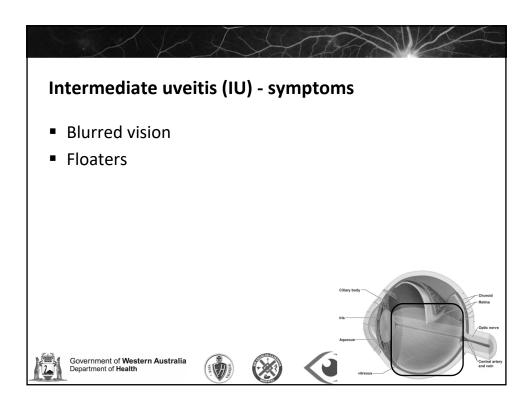






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Posterior uveitis - symptoms

| Retinitis | Choroiditis |
|-------------------------|--------------------------|
| Floaters | Photopsias |
| Blurred vision | Coloured swirling lights |
| Reduced field of vision | Visual field defects |

Can also get associated anterior uveitis

- Red eye
- Pain
- Photophobia

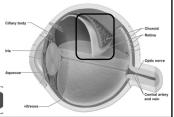


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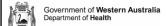
Imaging

- OCT
 - Cystoid macular oedema
 - Subretinal fluid
 - Retinitis/choroiditis
 - Choroidal thickness
 - (vitritis)
 - Disc swelling
- B-scan ultrasound
 - Scleral thickness (choroidal thickness)

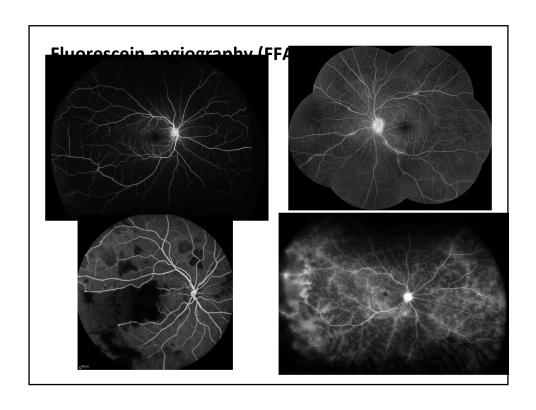
- Fluorescein angiography
 - Vasculitis
 - o Cystoid macular oedema
 - o Optic disc leakage
- Indocyanine green
 - Choroidal lesions
 - Choroidal vessels
- Autofluorescence
 - RPE dysfunction
 - o Active areas

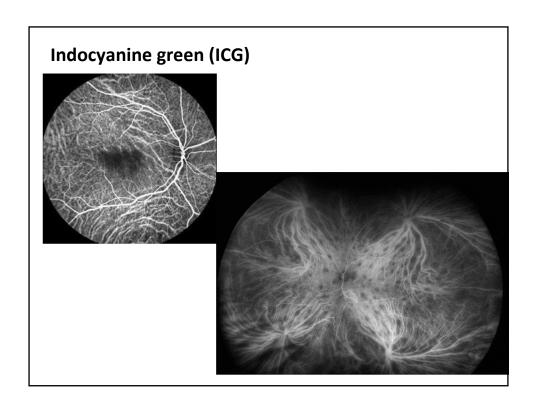


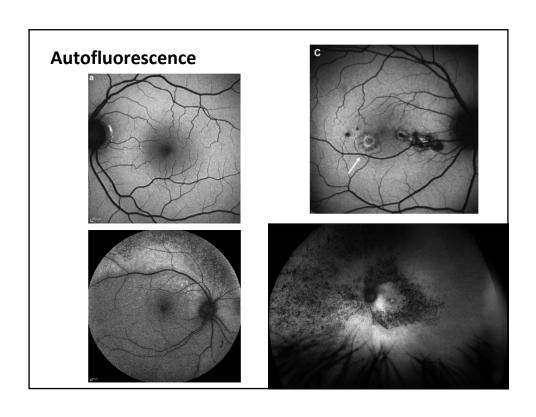
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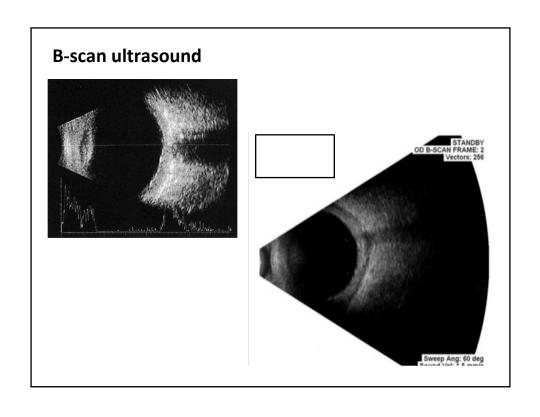


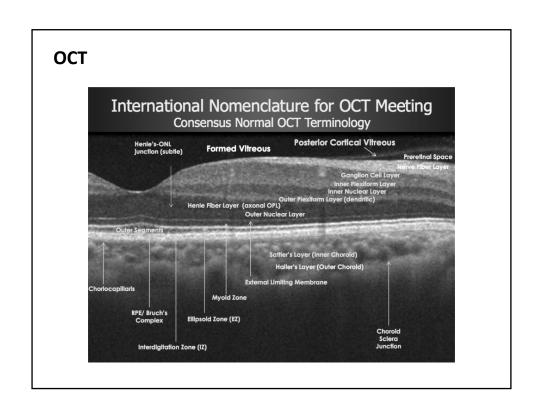


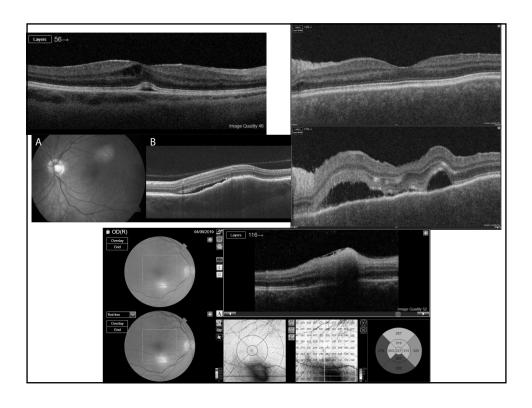












Take home messages

- Uveitis is a big topic...but don't be scared. Look at the SUN. (actually, please don't)
- Consider if inflammation is anterior, intermediate, posterior, or panuveitis
- Anterior uveitis syndromes
- OCT findings in uveitis

