UVEAL TUMOURS

- 1. Iris melanoma
- 2. Iris naevus
- 3. Ciliary boy melanoma
- 4. Choroidal melanoma
- 5. Choroidal naevus
- 6. Choroidal haemangioma
 - Circumscribed
 - Diffuse
- 7. Choroidal metastatic carcinoma
- 8. Choroidal osseous choristoma
- 9. Melanocytoma

Iris Melanoma

1. Very rare - 8% of uveal melanomas

2. Presentation - fifth to sixth decades

3. Very slow growth

4. Low malignancy

5. Excellent prognosis

Iris melanoma



Usually pigmented nodule at least 3 mm in diameter
Invariably in inferior half of iris

Occasionally non-pigmentedSurface vascularization



Differential diagnosis of iris melanoma



Treatment of iris melanoma



Iris naevus



- Pigmented, flat or slightly elevated
- Diameter usually less than 3 mm
- Occasionally mild distortion of pupil and ectropion uvea

- Obscures iris crypts
- May cause ipsilateral hyperchromic heterochromia
- May be associated with Cogan-Reese syndrome

Ciliary body melanoma

• Rare - 12% of uveal melanomas

• Presentation - 6th decade

May be discovered by chance

Prognosis - guarded

Signs of ciliary body melanoma



Treatment options of ciliary body melanoma

Iridocyclectomy

 small or medium tumours

2. Enucleation- large tumours

3. Radiotherapy- selected cases

Choroidal melanoma

- Most common primary intraocular tumour in adults
- Most common uveal melanoma -80% of cases
- Presentation sixth decade
- Prognosis usually good

Choroidal melanoma (1)



Choroidal melanoma (2)



common
Mushroom-shaped if breaks through Bruch's membrane • Ultrasound - acoustic hollowness, choroidal excavation and orbital shadowing

Differential diagnosis of choroidal melanoma

Large choroidal naevus	Metastatic tumour	Localized choroidal haemangioma
Choroidal detachment	Choroidal granuloma	Dense sub-retinal or sub-RPE haemorrhage

Treatment of choroidal melanoma

1. Brachytherapy

- less than 10 mm elevation and 20 mm diameter

2. Charged particle irradiation

- if unsuitable for brachytherapy
- 3. Transpupillary thermotherapy
 - selected small tumours
- 4. Trans-scleral local resection
 - carefully selected tumours less than 16 mm in diameter

5. Enucleation

- very large tumours, particularly if useful vision lost

6. Exenteration

- extraocular extension

Histological classification of uveal melanomas



Mixed cell (45%)

Necrotic (5%)

Poor Prognostic Factors of Uveal Melanomas

1. Histological

- Epithelioid cells
- Closed vascular loops
- Lymphocytic infiltration

2. Large size

- **3. Extrascleral extension**
- **4.** Anterior location
- 5. Age over 65 years

Typical choroidal naevus



- Common 2% of population
- Round slate-grey with indistinct margins
- Surface drusen
- Flat or slightly elevated
- Diameter less than 5 mm
- Location anywhere
- Asymptomatic

Suspicious choroidal naevus



Diameter more than 5 mm

• Elevation 2 mm or more

- Surface lipofuscin
- Posterior margin within 3 mm of disc
- May have symptoms due to serous fluid

Circumscribed choroidal haemangioma



- Presentation adult life
- Dome-shaped or placoid, red-orange mass
- Commonly at posterior pole
- Between 3 and 9 mm in diameter
- May blanch with external globe pressure
- Surface cystoid retinal degeneration
- Exudative retinal detachment
- Treatment radiotherapy if vision threatened

Diffuse choroidal haemangioma

Typically affects patients with Sturge-Weber syndrome



Choroidal metastatic carcinoma

Most frequent primary site is breast in women and bronchus in both sexes



Choroidal osseous choristoma



- Very rare, benign, slow-growing ossifying tumour
- Typically affects young women
- Orange-yellow, oval lesion
- Well-defined, scalloped, geographical borders
- Most commonly peripapillary or at posterior pole
- Diffuse mottling of RPE
- Bilateral in 25%

Melanocytoma

