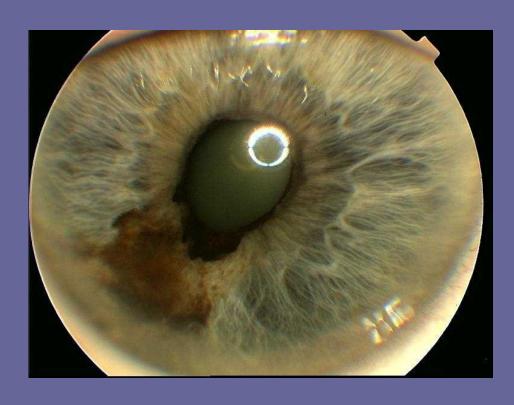
Neoplastic diseases of the eye and adnexa



Tumor tissue change, which is a result of the locally noncontrolable growth of autonomous nature.

The biological nature of the tumor:

benign malignant

Classification of eye tumors according to anatomic localization:

eyelid tumors tumors of the eye orbital tumors

Eyelids tumors

Location:

mainly a cosmetic problem malposition and dysfunction of the eyelids with symptoms of dry eye syndrome (burning, cutting, more frequent sec. infections, xerosis of the conjunctiva, exposure keratopathy a reduction or even loss of the eye ZO)

Treatment:

(Depending on size, location and nature of the changes) Early excision with a sufficiently large safety rim histological verification

Benign eyelids tumors

Location:

anywhere on the lid, without age limitation mostly a cosmetic problem

Papilloma - cutaneous horns Verruca, verruca senile Hemangioma Nevus



Treatment:

Observation (nevi)
Surgery - cautery, simple excision

Histological examination

Benign eyelids tumors



Eyelids papiloma

Retention cyst

Malignant eyelid tumors

Location:

```
predilectively lower lid, 6.-7. decade of life
basal cell carcinoma (invasion only local)
squamous cell carcinoma(metastasizes)
malignant melanoma
Meibom glands carcinoma
```

Treatment:

```
surgical excision - simple
- with transplant (free or sliding)
radiotherapy
```

Oncologic dispensary!

surgery followed by radiotherapy

Malignant eyelid tumors



Tumors of the conjunctiva and cornea

Location:

all ages, a shift to a higher age

Treatment:

dispensary congenital change without progression - photographs (cosmetic point of view)

surgical - block excision, lamellar keratectomy, in malignancies completed with cryotherapy

- radical excision (up orbit exenteration)

additional local radiotherapy local application of antimetabolites

Histological examination!
Oncological dispensary in melanoma and cancer!

Benign tumors of the conjunctiva and cornea

Congenital:

Choristoma - dermoid, lipodermoid Hemangioma

Epithelial:

Hyperplasia

Epithelioma (carcinoma in situ, Bowen's disease)

Melanotic:

Melanosis

- congenital
- acquired (with or without atypia atypical)

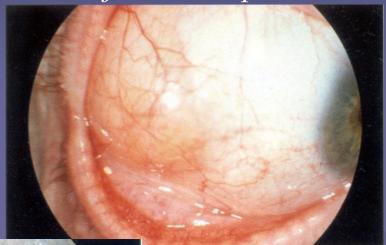
Nevus, Melanocytoma (kong. based)

Benign tumors of the conjunctiva and cornea

conjunctival papiloma









conjunctival lymfangioma

Benign tumors of the conjunctiva and cornea

conjunctival nevus





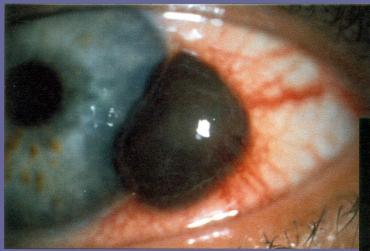




conjunctival melanosis

Malignant tumors of the conjuntiva and cornea

- Malignant melanoma of the conjunctiva
- Carcinoma of the conjunctiva (rare disease))
- Lymfoma of the conjunctiva (Non Hodgkin type)



conjunctival malignant melanoma

conjunctival lymfoma



Intraocular tumors

Primary:

the origin of the uvea (iris, ciliary body, choroid) originate in the retina

Secondary:

infiltrative growth of surrounding tissue

Metastatic:

following generalization of the malignancy most common in the choroid (often the first symptom of malignancy)

Metastases - women breast carcinoma 85%, bronchi 8%

- male lung carcinoma 38%, GIT 20%

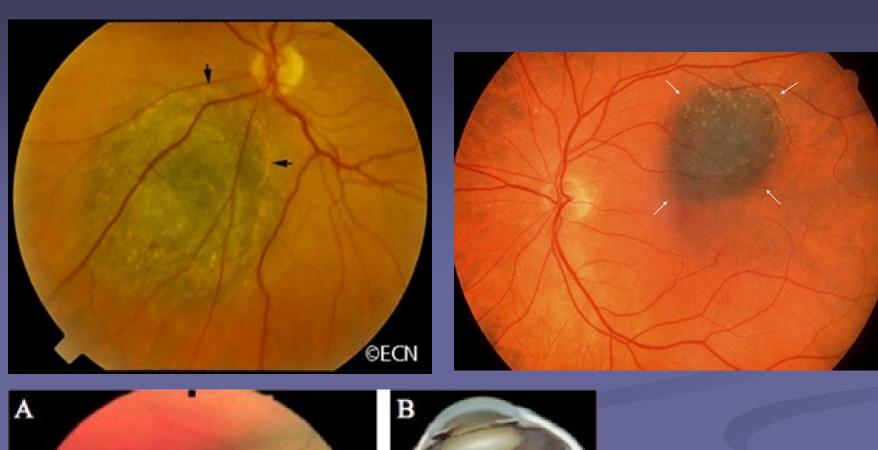
Malignant melanoma of the uvea(MMU)

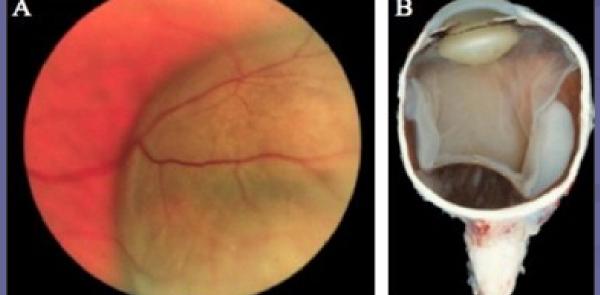
- > Iris 8%
- Ciliary body 12%
- > Chorioid 80%



- the most common primary intraocular tumor of adults
- > incidence between 50-70 years
- Featured mortality 30 -70% most often

> unilateral





MMU Diagnostics

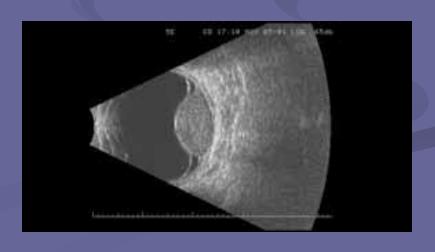
Examination on the slit lamp Ophthalmoscopy

- > direct
- > indirect
- biomicroskopye
- > gonioscopy

Sonography

- B scan
- > standard. echography
- > UBM



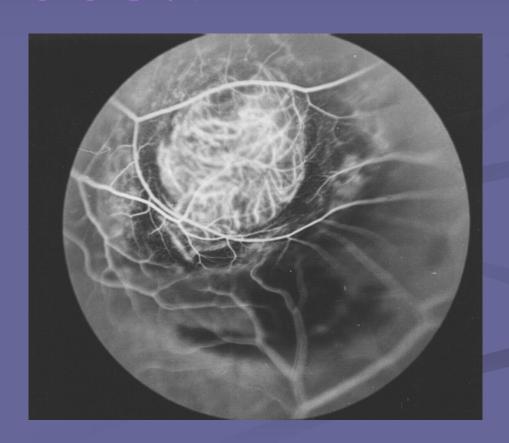


MMU diagnostics

FAG (fluorescein angiography)

ICG (indocyanin angiography)

NMR, PET



Examinations performed in determining the MMU diagnosis

- Complet laboratory examinations including oncomarkers
- > Lungs X ray scans
- > Echography of parenchymatous organs of the abdomen
- > Brain NMR
- Oncological examination
- > (PET)

Therapy of choroidal MM

- > Brachytherapy
- > Enucleation of the bulb
- > Exenteration of the orbit

Brachytherapy

Indication

- > Height to 10 mm
- > Bases to 15 mm

radioactive source ¹⁰⁶Ru



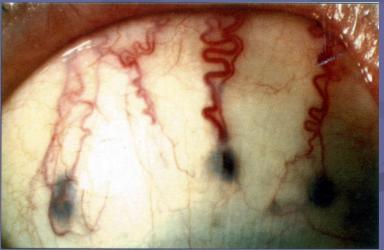
Enucleation of the bulb

- ➤ height above 8-10 mm
- > bases above 15 mm
- > small range extrabulbar extension
- blind and painfull bulbs with secondary

glaucoma



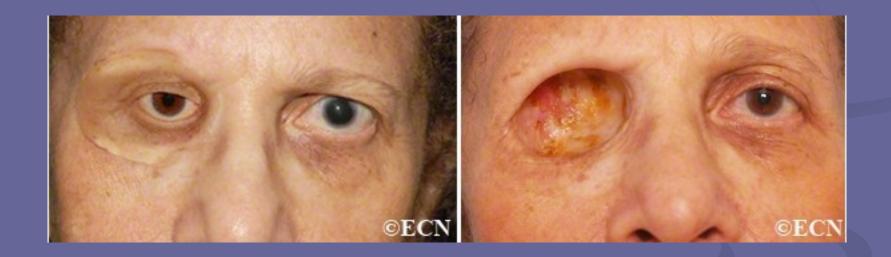




Exenteration of the orbit

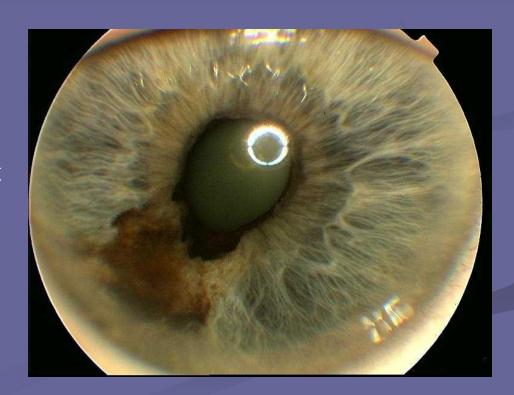
Indications:

- > retrobulbar extension of the tumor
- > significant peribulbar extension of the tumor



Iris malignant melanoma

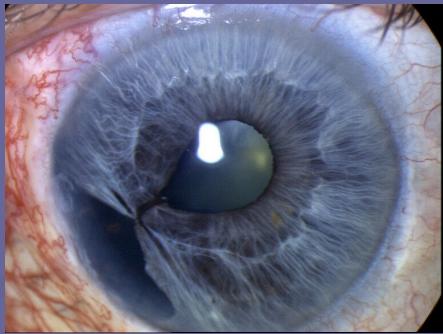
- > most common occurrence in the lower half of the iris
- > various pigment
- distortion of the pupil
- > ectopia of pigmented sheet
- > partial cataract



Treatment of benign and malignant lesions of the iris

- > monitoring borderline findings (photographs)
- excision in suspected lesions notoverlaping 4 hours
- rich enucleation of the globe susp. malignant lesions over 1/2 of the iris, blind bulb, noncorrected secondary glaucoma

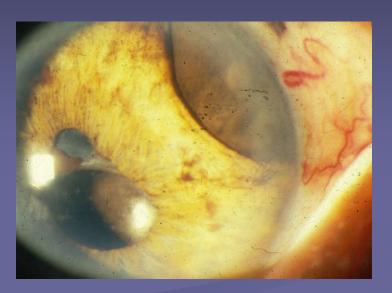




Ciliary body malignant melanoma

- > long asymptomatic
- > extension episcleral vessels
- pressure on the lens

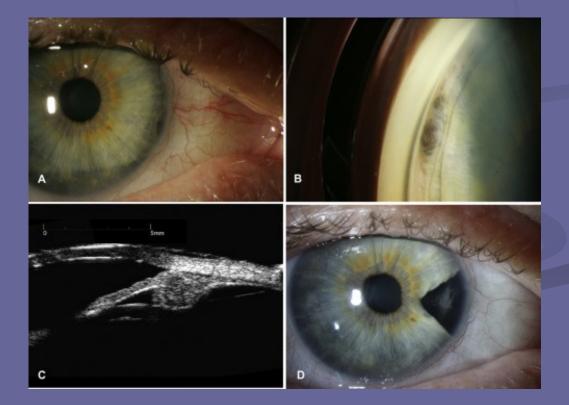
 (astigmatism, partial cataract, subluxation)
- > secondary retinal detachment
- > iris root erosion
- secondary glaucoma after initial hypotension
- epibulbar meat in place of extrabulbar extension



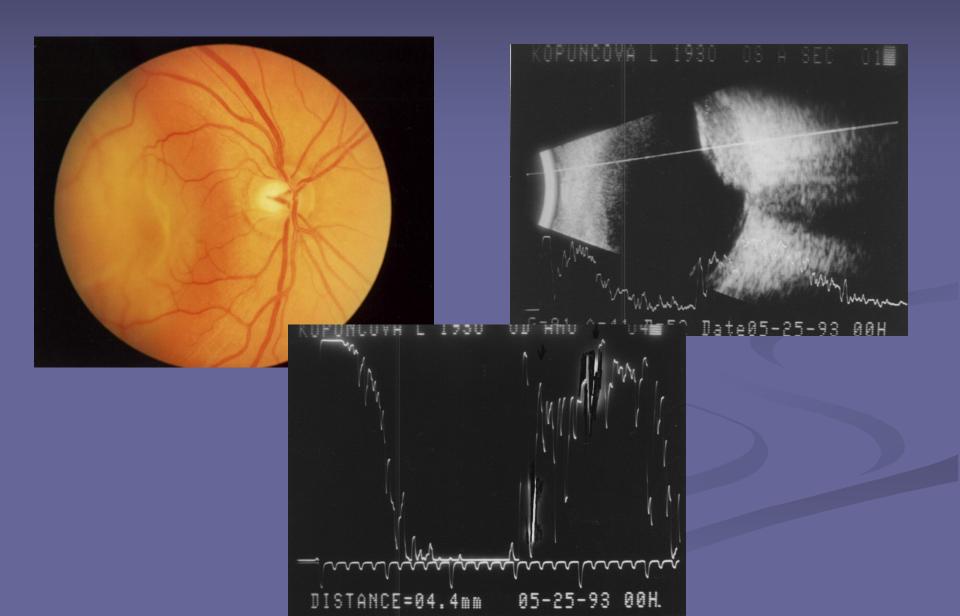


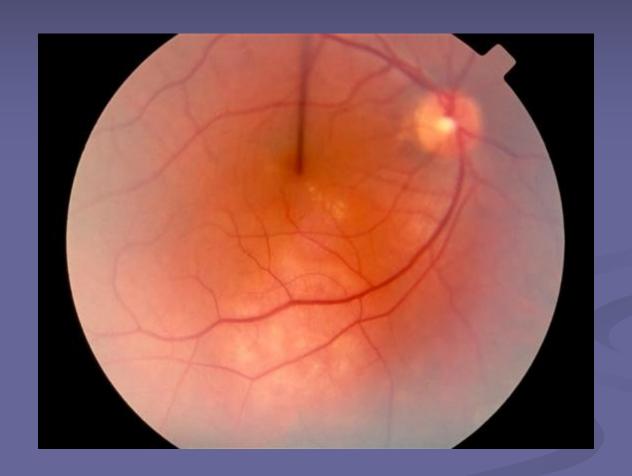
Therapy of ciliary body melanomas

- > cyclectomy
- > iridocyclectomy
- > radiotherapy brachytherapy
- > enucleation



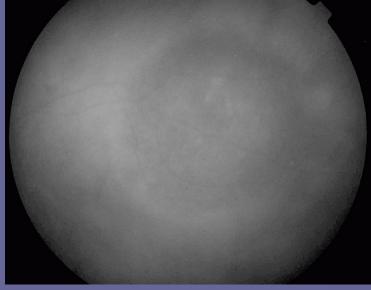
Choroidal metastasis

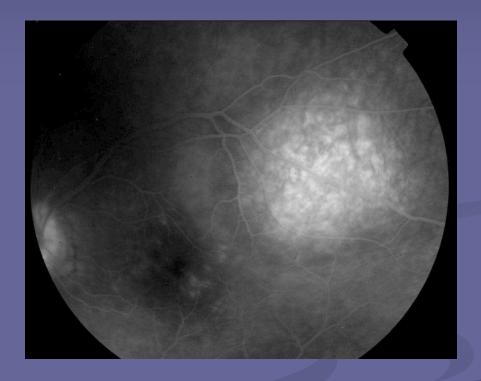




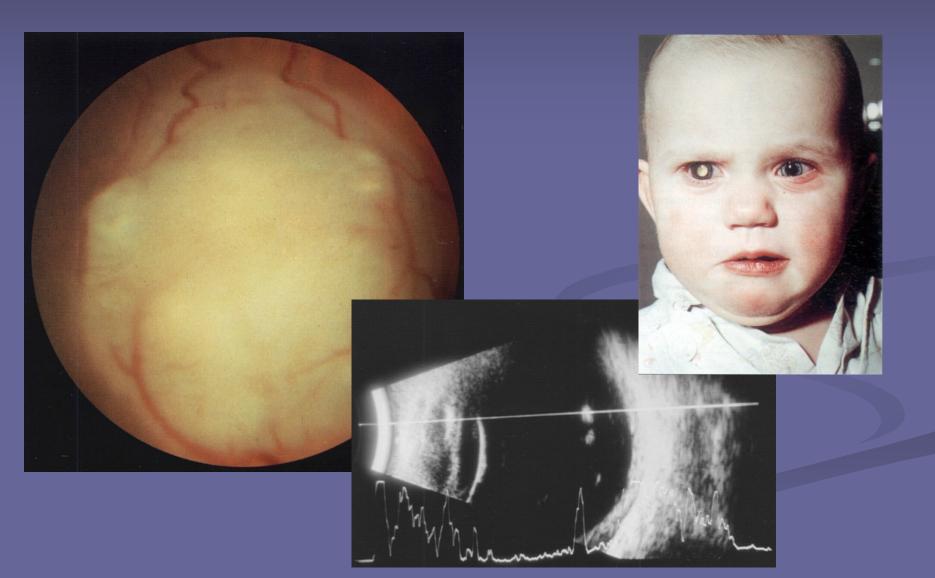
Choroidal hemangioma







Retinoblastoma – most common intraocular tumor in childhood



Tumors of the orbit

Symptoms:

- changes in the position of the eye the eye protrusion or deviations
- double vision (binocular diplopia)
- > eyelid symptoms edema of the eyelids, drooping of the eyelid
- > swelling and redness of the conjunctival
- pain a frequent symptom! (from oppression, sec. glaucoma)
- decrease in visual acuity from the oppression of the optic

nerve

visual field changes

Tumors of the orbit - distribution

Primary – primary formation in orbit tissues

- **Benign** inflammation pseudotumor, vascular hemangioma, lacrimal gland adenoma
- Malignant primary lymfoma, rabdomyosarkoma, meningeoma of the optic nerve, lacrimal gland and sac adenocarcinoma

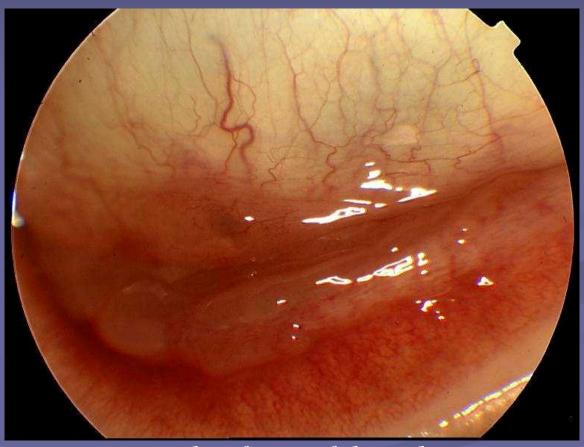
Secondary – ingrowth from sinuses and CNS

- **Benign** dermoid cysta, mucocele and pyocele
- Malignant sinuses carcinoma, wedge bone meningeoma, conjunctival and uveal malignant melanoma, eyelids carcinoma

Metastatic – **blood or lymfatic vessels**

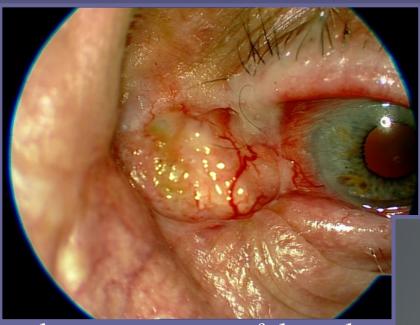
always malignant – bronchogenic carcinoma, breast carcinoma, GIS carcinoma, haemoblastoma

Primary tumors of the orbit



lymfoma of the orbit

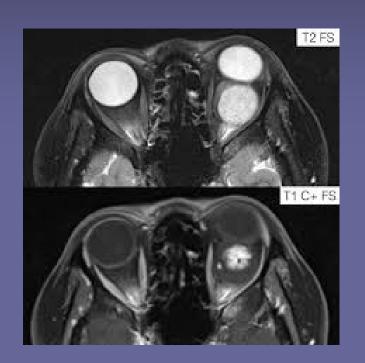
secondary tumors of the orbit



adenocarcinoma of the orbit

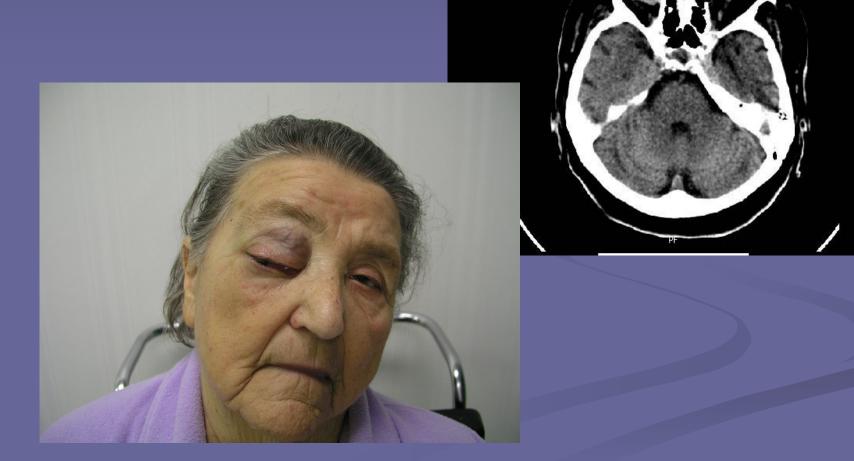
bazalioma of the orbit







Metastatic tumors of the orbit



Rhabdomyosarcoma



Diagnostics of orbit tumors

- > Complet ophtalmological examinatin
- Radiodiagnostic methods RTG, CT, NMR,
 Digit. substr. angiografie
 (morphology of the lesion in PNS or CNS)
 Biopsy
- > Interdisciplinary cooperation

Treatment of oncological diseases of the orbit

Surgery (interdisciplinary cooperation)

- extirpation (boundad lesions)
- > extirpation with resection of surrounding structurs
- > exenteration of the orbit without or with resection of PND

Radiotherapy

primary (lymfoma of the orbit, pseudotumors)

Combined

surgery with radiotherapy or chemotherapy

