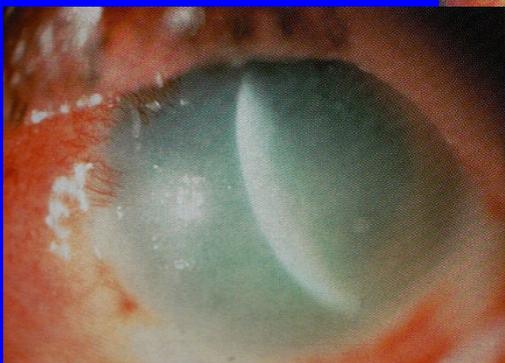
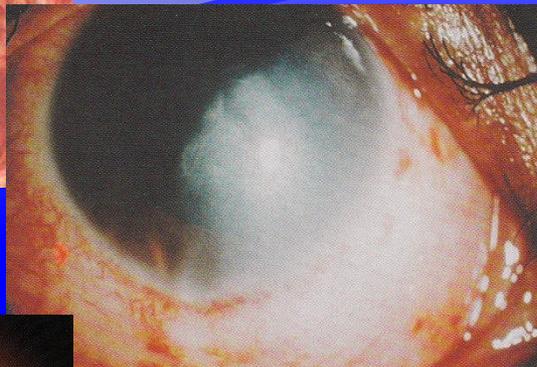


Chemical injuries

- ◆ Etiology:
 - ◆ Acid burns (liquefaction necrosis) and alkali burns (coagulation necrosis)
 - ◆ Clinical manifestations
According to the intensity of impact the degree of necrosis
- adnexa – conjunctiva- cornea
anterior uveal irritation
- ◆ Treatment
 - ◆ First aid (mechanical removal of noxy , intensive water rinses)
surgical - removal of necrotis tissue
 - ◆ Complications: symblefara, leucoma, secondary glaucoma

Chemical injuries



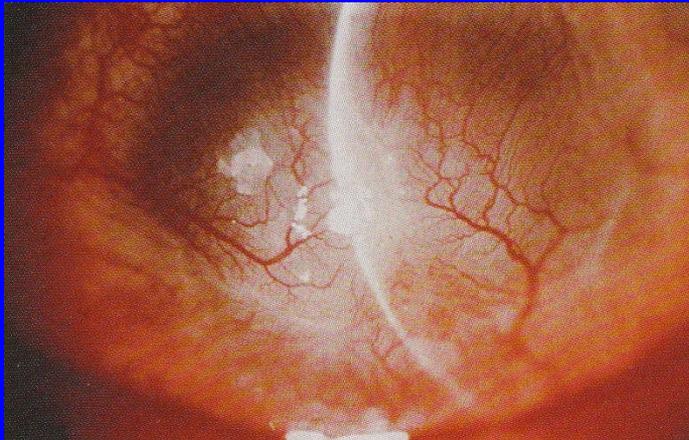
Thermal injuries

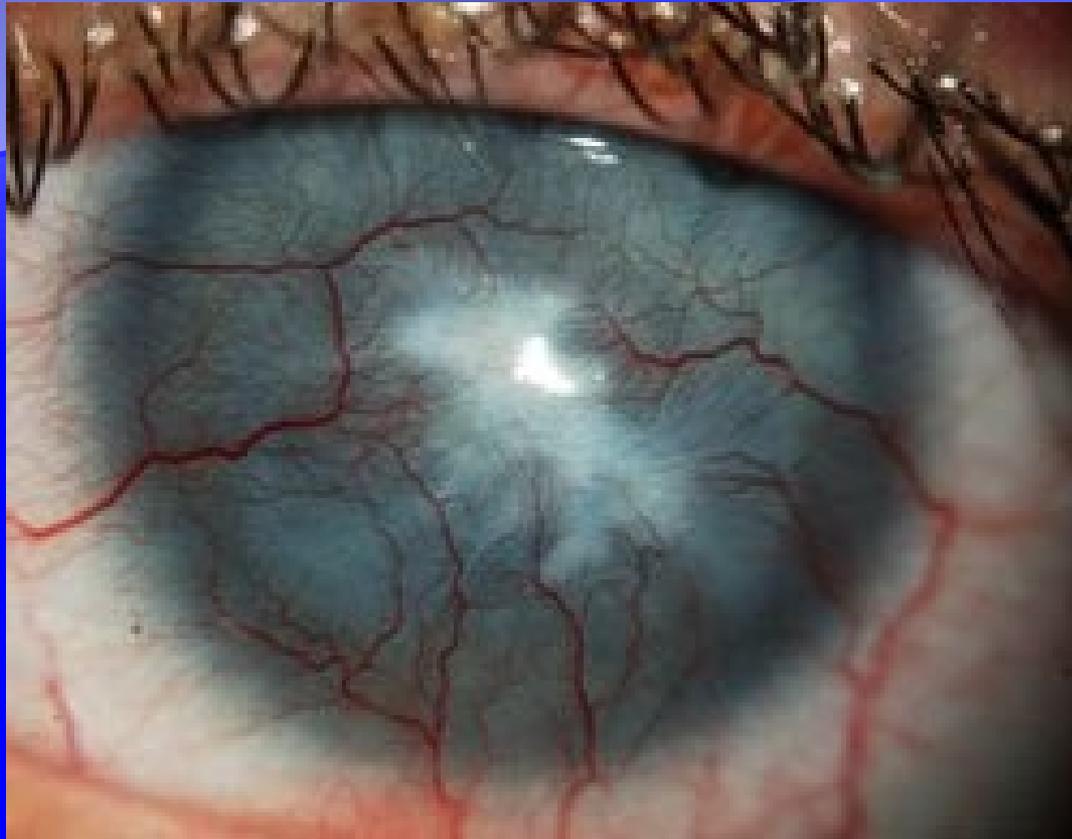


Thermic injuries

- ◆ Etiology:
 - ◆ Effect of high temperature (explosion, burning , liquid , steam) IR and UV radiation.
 - ◆ Clinical manifestations
Depending on the degree of intensity of acting noxy I. - IV.
degree burns (adnexa , conjunctiva , cornea) .
- ◆ treatment
 - ◆ First Aid - cold compresses ,
 - ◆ Targeted therapies - according to the degree of disability
medical or surgical (necrosis)
Complications:
 - ◆ Scarring (eyelid and conjunctiva) and vascularization (cornea)

Complications





Tear gas and electric injuries

- ◆ Tear gas substances
Gases , sprays, liquids

Electricity

- ◆ Clinical manifestations
Blepharospasm , epiphora
, conjunctivitis , corneal
epithelial damage

The combination of
thermal changes in the
anterior segment of the
eye, cataract formation

- ◆ Treatment: topic ATB
epitelizancia

Radiation damage

- ❖ Infrared radiation - heat damage
- ❖ UV radiation (electric arch, germicidal emitters, sunray, stay in the alpine environment - snow) -
Ophthalmia ELECTRICA
Ophthalmia nivalis
- ❖ Eyelid erythema, blepharospasm, epiphora, foreign body sensation, pain, corneal epithelial defects (mikroerosions).
- ❖ Treatment - short term local anesthetics, antibiotics, epithelization
- ◆ Ionizing radiation - secondary damage to the eye during irradiation within the Cancer Therapy.
- ◆ Like symptoms of electric ophthalmia
- ◆ Cataractogenic effect - local therapy of orbital tumors (doses above 30 Gy).
- ◆ Damage laser radiation - depending on the energy, wavelength and focusing - damage to the retina (scarring).
- ◆ Damage to sunlight - solar retinopathy (eclipse of the sun) - damage to the macula.