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

Termic injuries







Termic 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 anterior segment of the , conjunctivitis , corneal epithelial damage

The combination of thermal changes in 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, forein body sensation, pain, corneal epithelial defects (mikroerosions).
- Treatment short term local anesthetics, antibiotics, epitelizancia

- lonizing 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.