Conjunctiva and Cornea – Keratoplasty – Refractive Surgery
Genereal Symtoms of the Inflammed Red Eye

- Conjunctival hyperemy
- Photophobia
- Tearing
- Blepharospasm
5% of the patients who turn to a general practitioner (GP) have eye complaints, and 3% have red eyes. If a GP examines 100 patients per day, 3 patients per day, 15 per week, 75 per month, and 900 patients per year turn to him/her with red eyes.
The most important task is to decide which are the red eyes that a GP can treat alone, and which are that have to be referred to an ophthalmologist.
The answer is simple

- Various types of conjunctivitis can be treated by the GP.
- The inflammations of the cornea (different types of keratitis) and other inflammations going on inside the eye have to be treated by a specialist.
How to differentiate between conjunctivitis and keratitis?

• Simply based on the visual acuity of the patient, and by examining the surface and the transparency of the cornea.

• In conjunctivitis the patient sees well, the surface of the cornea is smooth and the cornea is transparent, while in keratitis the visual acuity is decreased, the surface of the cornea is irregular, and there is a decrease in the transparency of the cornea.
Examination of the Visual Acuity
Examination of the surface and of the transparency of the cornea
Different types of conjunctivitis

<table>
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<tr>
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<th>Smears</th>
<th>Preauricular Lymph Nodes</th>
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<td>Bacterial</td>
<td>Acute or chronic</td>
<td>Hyperaemic</td>
<td>Purulent</td>
<td>Bacteria, polymorphonuclear leucocytes</td>
<td>Usually normal</td>
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Different types of keratitis

- Keratitis
  - Superficial
  - Deep
- Dystrophies
- Degenerations
- Scars
- Pimentations
- Tumors
Different types of keratitis

• Keratitis
  - Superficial
    Non-purulent
    Purulent
  - Deep

• Dystrophies

• Degenerations

• Scars

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• Tumors
Different types of keratitis

- Keratitis
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  - Deep
- Dystrophies
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- Scars
- Pimentations
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Common features of corneal dystrophies

- They are congenital
- Always bilateral
- Always symmetrical
- Slowly progress
- Start centrally
- Later peripherically
- Never vascularized
- Th: keratoplasty
Different types of corneal scars

- Nubecula corneae
- Macula corneae
- Leucoma
- Leucoma vascularisata
- Cicatrix corneae
- Cicatrix corneae
- Cicatrix adhaerens
- Staphyloma
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Degenerations

- Are not congenital
- Unilateral
- May be vascularized
- Th: keratoplasty

Opacitas zonularis
Keratopathia bullosa
Different diseases that cause opacification (semi- or non-transparency) of the cornea

- Keratitis
- Dystrophies
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- Scars
- Pigmentations
- Tumors
Different diseases that cause opacification (semi- or non-transparency) of the cornea

- Keratitis
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Keratoplasty I.
Keratoplasty II
Keratoprosthesis
Refraktive surgery (RK and PRK)
Femtosecundum laser
Corneal tunnel made by femtosecundum laser – implantation of an intracorneal ring