CONJUNCTIVITIS

Dr. Afzal Qadir MBBS, ICO, FCPS

ANATOMY



SYMPTOMS

PAIN & FOREIGN BODY SENSATION
ITCHING
LACRIMATION
IRRITATION
PHOTOPHOBIA
STINGING & BURNING

TYPES OF DISCHARGE





WATERY

MUCOID

PURULENT

MUCOPURULENT



TYPES OF CONJ. REACTION

CONJ. INJECTION

SUBCONJ.HAEMORRHAGE



TYPES OF CONJ. REACTION

ODEMA (CHEMOSIS)



FOLLICULAR REACTION



PAPILLARY REACTION



OTHER SIGNS

CONJ. SCARRING

MEMB. FORMATION

LYMPHADENOPATHY



CLASSIFICATION

BASED ON DURATION OF ONSET

ACUTE
SUBACUTE
CHRONIC

CLASSIFICATION

BASED ON TYPE OF EXUDATE

SEROUS- VIRAL,ALLERGIC,TOXIC.
 CATARRHAL- ALLERGIC
 PURULENT- BACTERIAL,CHLAMYDIAL
 MEMBRANOUS- BACTERIAL
 PSEUDOMEMBRANOUS-BACTERIAL

CLASSIFICATION -AETIOLOGY

INFECTIOUS
 BACTERIAL
 VIRAL
 CHLAMYDIAL
 FUNGAL
 PARASITIC

• NON-INFECTIOUS

- ALLERGIC
- IRRITANTS
- ENDOGENOUS OR
- AUTOIMMUNE
- DRY EYE
- TOXIC (CHEMICAL OR DRUG-INDUCED)
- SELF INFLICTED/FACTITIOUS
- IDIOPATHIC

INVESTIGATIONS

CULTURE SENSITIVITY CYTOLOGICAL INVESTIGATION TO **IDENTIFY CELLULAR INFILTRATE** DETECTION OF VIRAL & CHLAMYDIAL **ANTIGENS** IMPRESSION CYTOLOGY PCR

TREATMENT

TREAT THE CAUSE RESTORING NORMAL ANATOMY ■ LID HYGIENE ■ ANTI BACTERIAL THERAPY USE OF STEROIDS USE OF ANTI-HISTAMINES ROLE OF MAST CELL STABILIZERS

BACTERIAL CONJUNCTIVITIS

BACTERRIAL CONJUNCTIVITIS

CAUSATIVE ORGANISMS:
 Staph Epidermidis
 Staph Aureus
 Strep Pneumonia
 H Influenza
 Moraxella Lacunata

BACTERRIAL CONJUNCTIVITIS

SYMPTOMS:

 Common, self limiting disease
 Redness, grittiness, burning and discharge
 Eye lids stuck together

BACTERRIAL CONJUNCTIVITIS

SIGNS:

- Crusted and edematous eye lids
- Mucopurulent discharge
- Velvety beefy red conjunctiva
- Inflammatory membranes in severe cases
- PEE and peripheral corneal infiltrates (rare)





BACTERIAL CONJUNCTIVITIS

TREATMENT:

Resolves within 10-14 days

- Antibiotic drops:-
 - Fusidic acid
 - Chloramphenicol
 - Others (Ciprofloxacin, Ofloxacin, Gentamicin, Tobramycin, Neomycin)
- Antibiotic ointments:-
 - Gives higher conc for longer durations but blurs the vision
 - Chloramphenicol, Polyfax, Tetracycline

ADENOVIRAL KERATOCONJUNCTIVITIS

Occupational hazard of Ophthalmologists Transmission via respiratory and ocular secretions Dissemination by contaminated towels or equipment such as tonometer heads Incubation period is 4 – 10 days Following onset of conjunctivitis virus is shed for about 12 days

PREVENTION OF TRANSMISSION

Thorough washing of hands after examining the suspected case Meticulous disinfection of ophthalmic instruments Infected hospital personnel should not come in contact with patients Separate towels for infected persons

CAUSATIVE VIRUSES

- PHARANGOCONJUNCTIVAL FEVER:
- Caused by adenovirus types 3, 4 and 7 and occasionally 5
- Transmitted by droplets
- Typically affects children who also develop upper respiratory tract infection
 Keratitis develops in 30% of cases

EPIDEMIC KERATOCONJUNCTIVITIS: Caused by adenovirus types 8 and 19 Infection is transmitted by hand to eye contact, instruments and solutions Keratitis is severe and develops in about 80% of cases

CONJUNCTIVITIS

PRESENTATION:

- ACUTE WATERING, REDNESS, PHOTOPHOBIA AND DISCOMFORT

SIGNS:

- EYELID OEDEMA
- WATERY DISCHARGE AND CONJUNCTIVAL FOLLICLES



Subconjunctival heamorrhages
Chemosis
Pseudomembranes
Tender lymphadenopathy



TREATMENT OF CONJUNCTIVITIS

- Largely symptomatic and supportive
 Spontaneous resolution occurs within 2 weeks
- Antiviral agents are ineffective and
 Topical steroids to be avoided unless infection is very severe

KERATITIS

SIGNS:STAGE 1:

- Occurs within 7 – 10 days of the onset of symptoms

 characterized by a punctate epithelial keratitis which resolves in 2 weeks

STAGE 2:

 Characterized by focal, white, subepithelial opacities which develop beneath fading epithelial lesions

- They are thought to represent immune response to the virus and may be associated with mild transient anterior uveitis



STAGE 3:

- characterized by anterior stromal infiltrates which gradually fade over months or years



TREATMENT

With topical steroids is indicated only if eye is uncomfortable or visual acuity is reduced

Steroids do not shorten the natural course of disease but merely suppress corneal inflammation so that the lesions tend to recur if steroid therapy is stopped prematurely