

Anterior Segment Cases
Corneas, Cases, and Complexities
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1. Case #1

- a. 36 yo M presents with eye redness, pain, photophobia, and tearing
- b. Keratoconus and RGP use
- c. Exam with diffuse injection, focal cornea edema with overlying microcystic edema and bullae, no infiltrate, anterior chamber deep with rare cell
- d. Differential Diagnosis?
- e. Acute Corneal Hydrops
- f. Sequential approach to treatment and management
 - i. Spontaneous resolution
 - ii. Tx focused to increase pt comfort and prevent sequelae
 - iii. Pneumatic descemetopexy
 - iv. Visually significant scarring and need for post resolution corneal transplantation
- g. Surgical Management of KCN

2. Case #2

- a. 47 yo F referred for worsening vision
- b. History of cataract and endothelial changes
- c. Pachymetry

- i. OD: 663 μm
 - ii. OS: 676 μm
 - d. Exam with 1+ NS OU with 3+ guttae with bilateral stromal fluid clefts and anterior stromal haze
 - e. Address Lens?
 - f. Signs & Symptoms
 - i. Krachmer Grading Scale
 - g. Treatment & Management
 - i. Observation
 - ii. Endothelial Keratoplasty
 - iii. DSO
 - h. Etiology/Epidemiology
- 3. Case #3
 - a. 63 yo F with fluctuating blurry vision, redness, and photophobia
 - b. Chronic “eye infection” with flare- ups
 - c. Adnexa exam and findings
 - d. Other pertinent exam findings
 - e. Clinical features:
 - i. Lid margin telangiectasias (81%)
 - ii. MGD (78%)
 - iii. Blepharitis (65%)
 - f. Corneal Involvement

- g. Clinical Diagnosis
 - i. Differential Diagnosis
 - h. Treatment
 - i. Rosacea in children
4. Case #4
- a. 14 yoF with photophobia, fluctuating vision, and photophobia
 - b. Chronic symptoms but worsening in OS over one week
 - c. Blepharitis and allergic conjunctivitis
 - d. Conjunctival injection with corneal nodular infiltrate with engorged KNV
 - e. Organisms
 - f. Treatment
 - i. Antibacterial
 - ii. Anti- inflammatory
 - iii. Treat the blepharitis
 - g. Differential Diagnoses for Corneal nodule and irritation
5. Case #5
- a. 62 yoF with 2 year painless, progressive vision loss in both eyes
 - b. Vision loss at distance and near
 - c. Multiple updates of spectacle prescription
 - d. Dry eye and allergic conjunctivitis
 - e. No trauma

- f. Greyish nodules between corneal epithelium and bowman's layer, extending into visual axis
- g. Other tests
- h. Diagnosis
- i. Treatment and clinical course
 - i. SK
 - ii. PTK

6. Case # 6

- a. 24 yoM with bilateral photophobia, FBS, and tearing, OS>>OD
- b. Decade long history of relapsing and remitting symptoms
- c. Small, stellate intraepithelial opacities without fluorescein staining, compact stroma without K edema or KP
- d. Diagnosis
 - i. Differential Diagnoses
- e. Clinical Course
- f. Treatment

7. Case #7

- a. 37 yoF presents with 3 day right eye pain, photophobia, decreased vision
- b. Conjunctival Injection with central dendritic epithelial defects, clear stroma, no endothelial inflammation
- c. Differential diagnosis:
 - i. HSV epithelial keratitis

- ii. RES

- iii. Abrasion

- iv. Acanthamoeba keratitis

- v. Secondary bacterial or fungal keratitis

- d. Diagnostic Evaluation

- e. Initial Therapy

- f. Clinical Course and Discussion