

Objectives

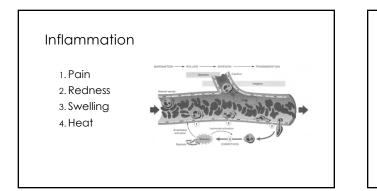
- Develop a strategy for examining EVERY unilateral red eye
- 2. Identify five dangerous red eyes
- 3. Know why they are dangerous
- 4. Review management and treatment

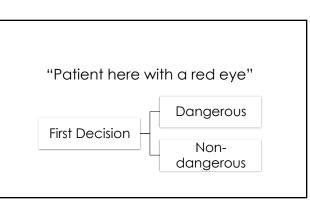
A Red Eye is a Cardinal Sign of Inflammation

in·flam·ma·tion

noun noun: inflammation; plural noun: inflammations

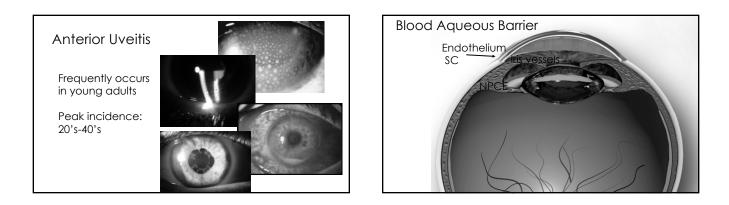
A localized physical condition in which part of the body becomes reddened, swollen, hot, and often painful, especially as a reaction to injury or infection.

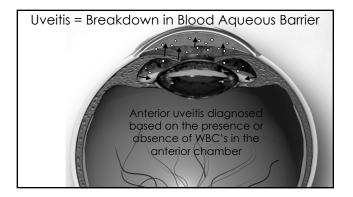




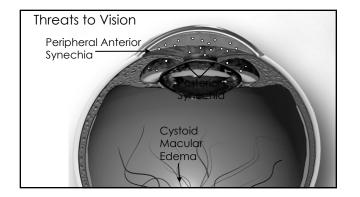


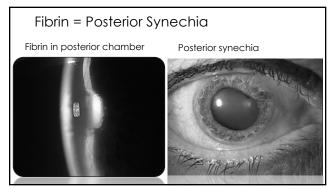


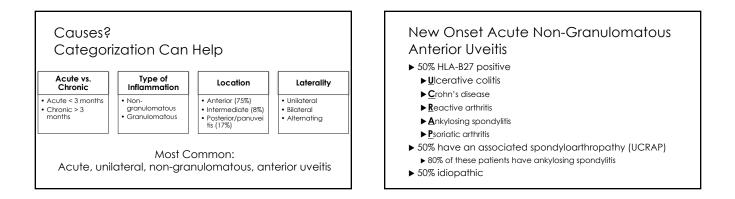


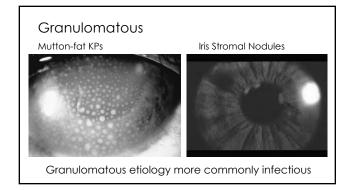


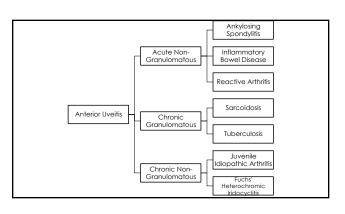


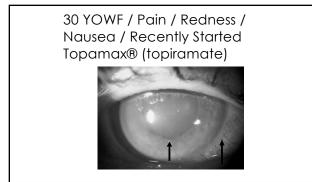


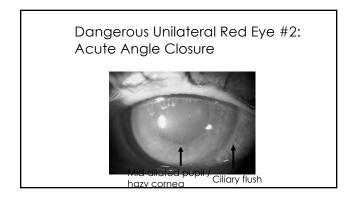










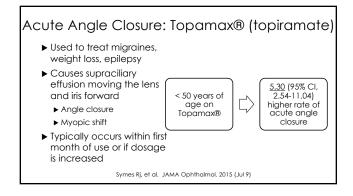


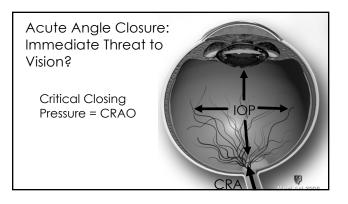
Acute Angle Closure: Testing

- ► IOP (50-100 mmHg)
- ► Van Herick angles
- ► Gonioscopy
- ► Anterior OCT

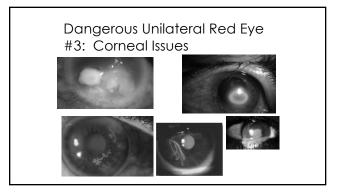
Acute Angle Closure: Risk Factors

- ► Age: average 60
- ► Gender: female 4:1
- ► Race: Asian decent
- ► Family history: ocular anatomical features are inherited
- ► Medications



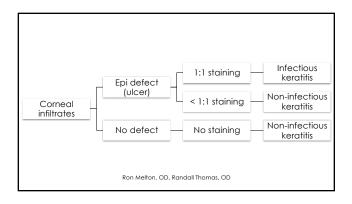


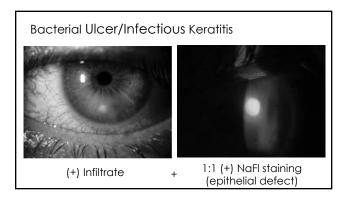


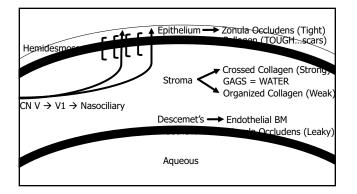


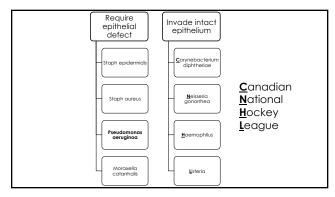
An infiltrate is a sign of your patient's immune system attacking an antigen via antibodies

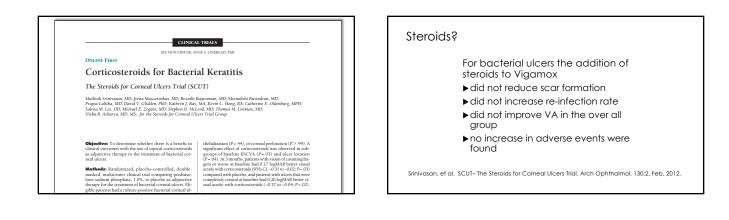


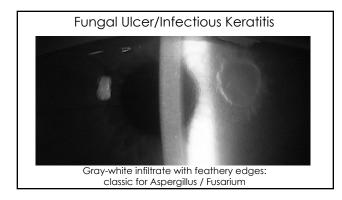


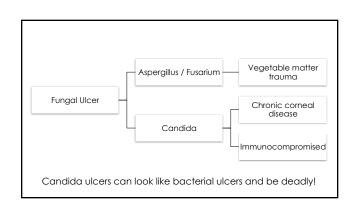










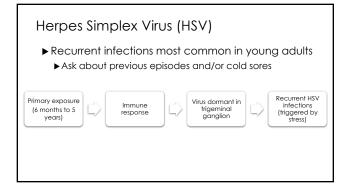


Acanthamoeba Keratitis

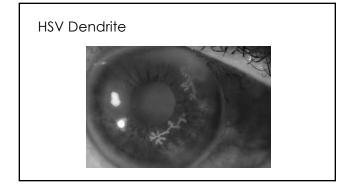
- Most common protozoa found in soil and frequently in water ► Associated with inadequate
- contact lens hygiene Early: pain is severe and out of proportion of signs
- Late: Patchy anterior stromal infiltrates that can present with overlying pseudodendritic epithelial defects
 - ► Later progress to ring ulcer

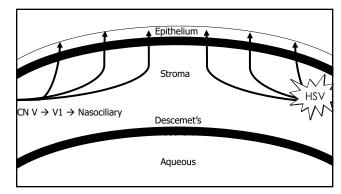


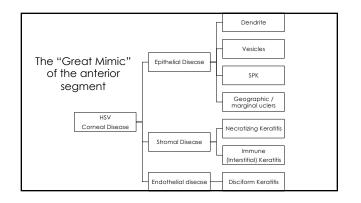


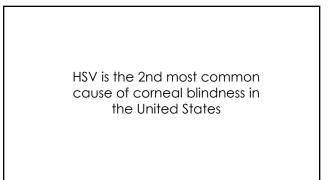


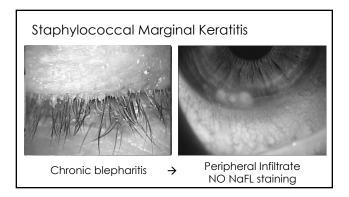
Herpes Simplex Virus (HSV) in United States	
25%	Population seropositive by 4 years of age
100%	Population seropositive by 60 years of age
1%	Lifetime prevalence of ocular manifestations in infected people
Colin J. Clin Ophthalmol 2007;1:441-53)	











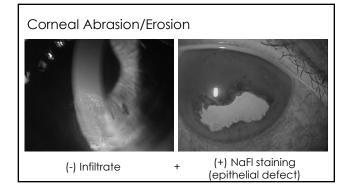




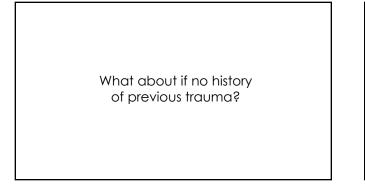
Corneal scars

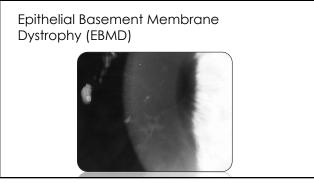


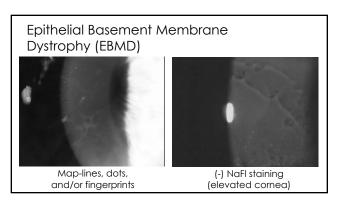
Peripheral thinning / neovascularization / scars

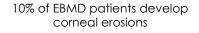




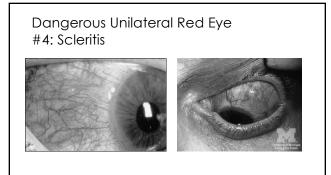


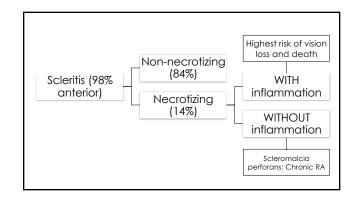






50% of patients with corneal erosions will have EBMD

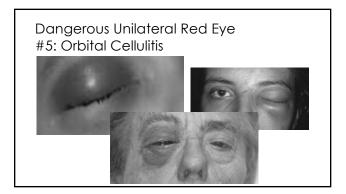


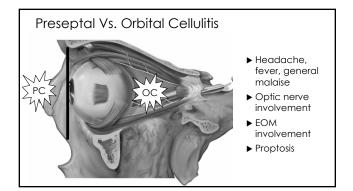


Scleritis vs. Episcleritis

Scleritis

- ► Severe pain
- Diffuse deep inflamed vessels
- ► If nodule: immobile
- ► 50% associated with systemic disease
- Episcleritis
- ► Mild/moderate pain
- Sectorol superficial inflamed vessels
- ► If nodule: moveable
- 25% associated with systemic disease





Orbital cellulitis is a serious infection that can result in a cavernous sinus thrombosis, brain abscess, and/or meningitis if not caught early and managed appropriately

