

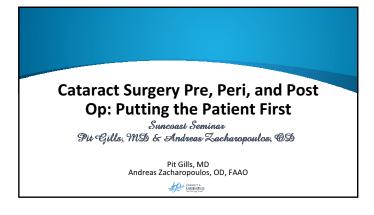
Suncoast Seminar 2025 Schedule of Events

Saturday, April 26, 2025

// 1	,
7:45 am – 8:15 am	Registration - Exhibit Hall - Continental Breakfast breakfast sponsored by Johnson & Johnson Vision
8:15 am – 9:55 am	Cataract Surgery Pre, Peri, and Post Op: Putting the Patient First (TQ) (COPE pending) Pit Gills, M.D. and Andreas Zacharopoulos, O.D.
9:55 am – 10:40 am	Break - Exhibit Hall open sponsored by Eye Institute of West Florida
10:40 am – 12:20 pm	Fuchs Corneal Dystrophy, Keratoconus, and Other Ectasias (TQ) (97310-TD) Erin Greenberg, M.D.
12:20 pm – 1:10 pm	Lunch (included in registration) - Exhibit Hall Open sponsored by St. Luke's Cataract & Laser Institute
1:10 pm - 1:20 pm	Lighthouse of Pinellas Update
1:20 pm - 1:30 pm	F.O.A. Update
1:30 pm - 3:10 pm	Our Top Topical Meds (TQ) (96194-PH) Joseph Pizzimenti, O.D.
3:10 pm - 3:30 pm	Break sponsored by Sight360
3:30 pm - 5:10 pm	Interprofessional Care of Retina Patients Using Multimodal Imaging (TQ) (96193-GO) Joseph Pizzimenti, O.D.

Sunday, April 27, 2025

7:30 am – 8:00 am	Registration - Continental Breakfast breakfast sponsored by Updegraff Laser Vision
8:00 am - 9:40 am	Emerging Trends in AMD (TQ) (96192-TD) Joseph Pizzimenti, O.D.
9:40 am – 10:00 am	Break sponsored by Pinellas Optometric Association
10:00am - 11:40 am	Prevention of Medical Errors (94908-EJ) Joe Sowka, O.D.
11:40 am – 12:00 pm	Lunch – included in registration sponsored by Newsom Eye
12:00 pm - 1:40 pm	Florida Jurisprudence (94437-EJ) Joe Sowka, O.D.



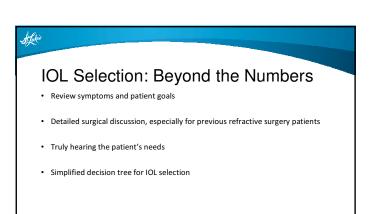


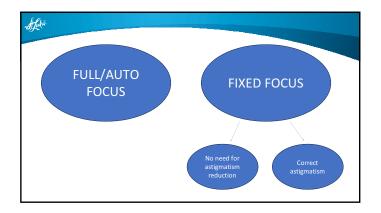
The Journey Begins First Contact: OD Referral · Seamless hand off from referring Optometrist

- · Gathering critical patient history
- · Foundation for trust and care



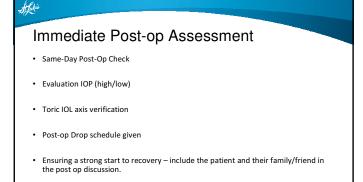
Comprehensive Cataract Evaluation Pre-evaluation video texted to patients – explaining what to expect on the day of the day of their cataract evaluation. · Biometry: ARGOS for precision Corneal topography: All patients, multiple measurements to ensure consistency • Pentacam: Prior refractive surgery patients Macular OCT: All patients



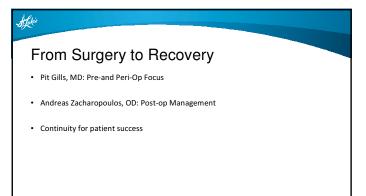


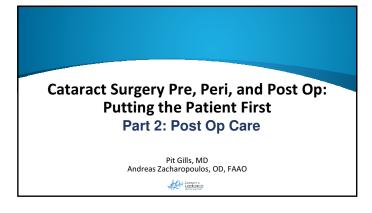


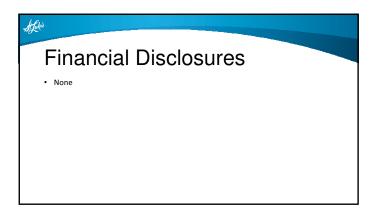
The Surgical Experience • Pre-surgery video texted to patients – explaining what to expect on the day of surgery. • Pre-medical questionnaire & clearance screening • H&P prior to the day of surgery or on surgery day • Pre-op: Chaplain support • OR: CRNA, UV lighting, hearing headphones, language line for translation services

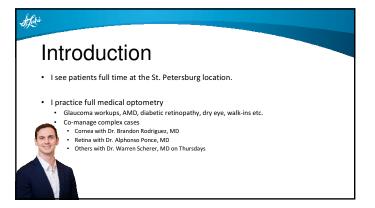


Optimizing Post-op Care Compounded Drops: Pre-Moxi-Brom, convenience and compliance High-Dose Schedule: Generic vs. brand comparison Simplifying recovery for patients

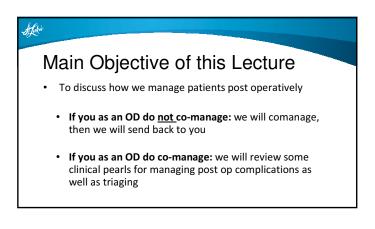


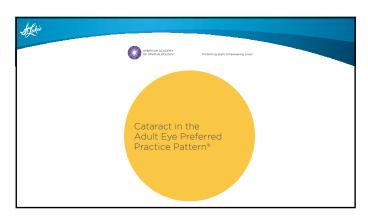


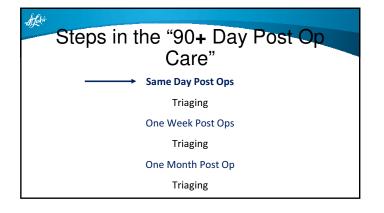




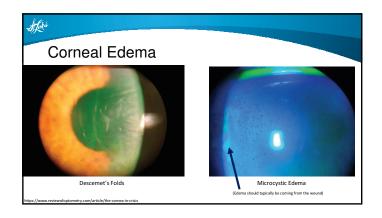


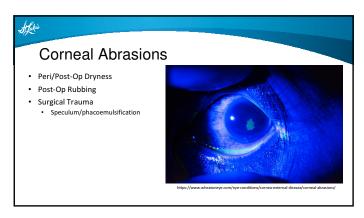


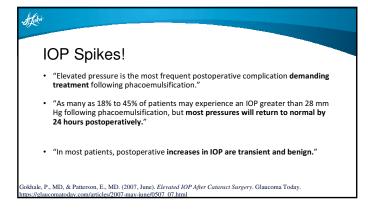


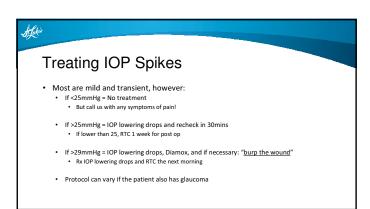




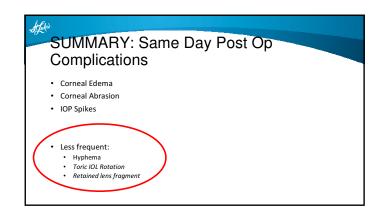


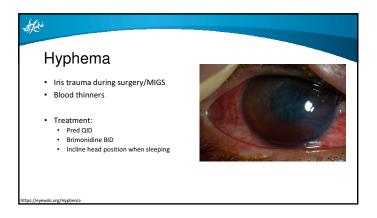


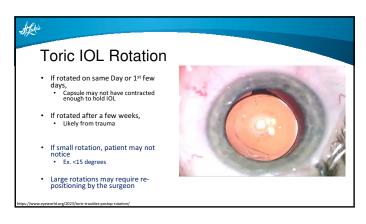


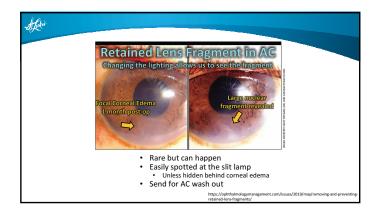


Why does the IOP Spike? Retained viscoelastic Trabeculitis Retained lens fragment Peak Incidence of IOP: 4-12 hours after surgery



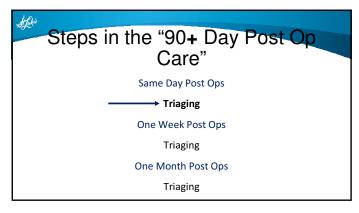










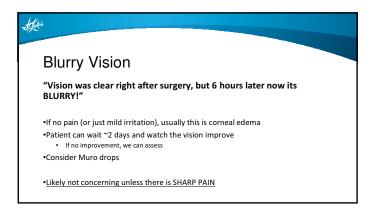


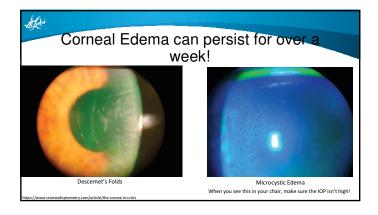
Triaging: The next 2-3 days after Surgery

The most common phone calls tend to have the following symptoms:

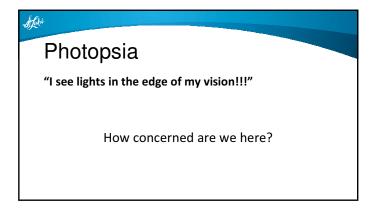
•Blurry Vision
•Discomfort/Redness
•Photopsia
•PAIN!

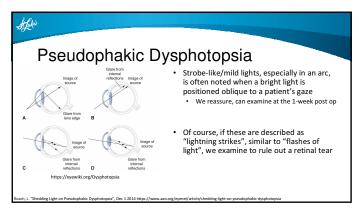
Let's see how patients would describe each of these!



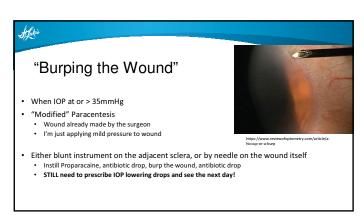


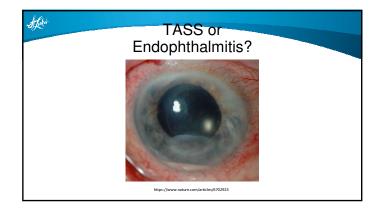


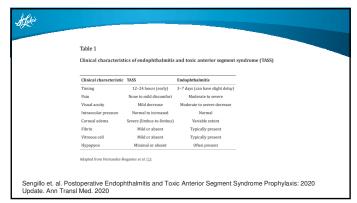


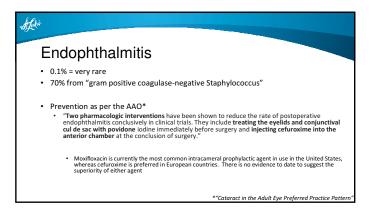




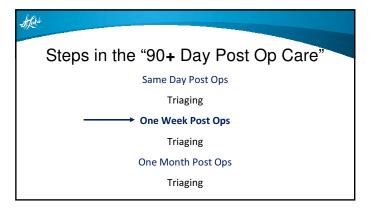


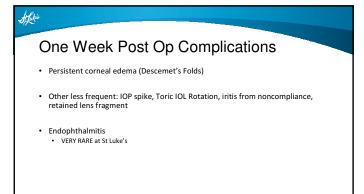


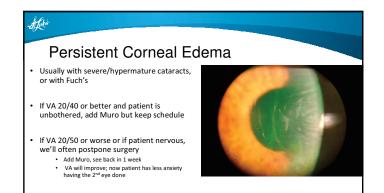












SUMMARY: One Week Post Op Complications

Persistent corneal edema (Descemet's Folds)

Other less frequent: IOP spike, Toric IOL Rotation, iritis from noncompliance, retained lens fragment

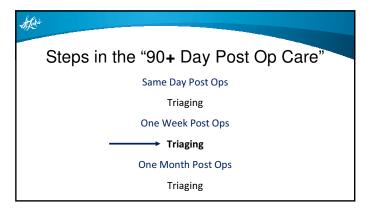
Endophthalmitis
VERY RARE





Before they Proceed with the 2nd Eye...

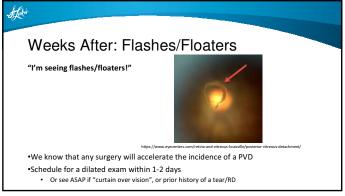
- Patients are warned that they may PERCEIVE that the $2^{\rm nd}$ eye is reacting "worse" to cataract surgery
 - "Second Eye Syndrome"
 - Reduced anxiety/more familiarity with the surgery = increased recall of the experience
 - Comparing discomfort of 2nd eye with already healing 1st eye
 - Conclusion: "Oh no! The 2nd eye is responding worse, I think something is wrong!"
 - · If not warned, they may call with these concerns

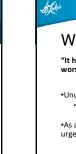




Triaging: Over One Week After Surgery

- Not as likely to get many phone calls since post op inflammation is dramatically reducing; VA should have improved at and after 1 week
- If they call, it's usually one of 2 things:
 - Flashes/floaters
 - Sudden blurry vision





Weeks After: Blurry Vision
"It has been 2-3 weeks since my surgery, but suddenly my vision has suddenly gotten worse!"

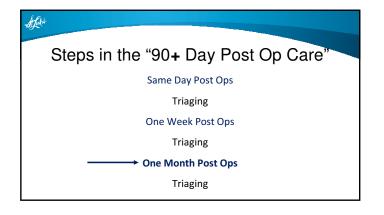
Unusual, needs to be addressed
 Could be many different diagnoses, but leading to the country of the co

 Could be many different diagnoses...but likely not endophthalmitis, so can probably be seen in clinic the next day

•As always, any phone call with sudden ${\bf severe}$ blurry vision or pain needs to be seen urgently regardless of when the surgery was done

•Toric IOL Rotation – unlikely after the 1st week unless trauma

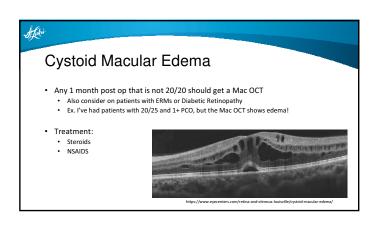
If so, IOL can be rotated in the Operating Room easily.

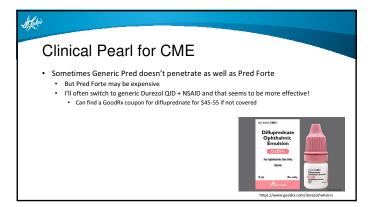


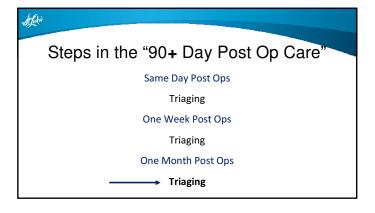


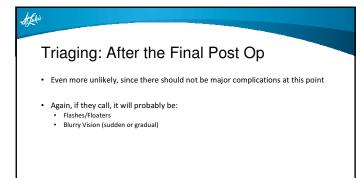




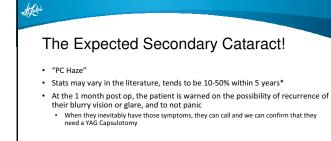










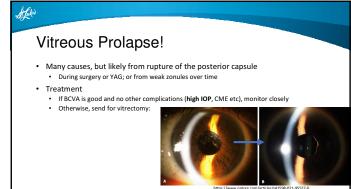


*Eballé AO et al. Secondary cataract: an epidemiologic and clinical survey at the Yaounde Gynaeco-obstetric and Paediatric Hospital. Clin Ophthalmol. 2011;5:847-51. Epub 2011 Jun 22.

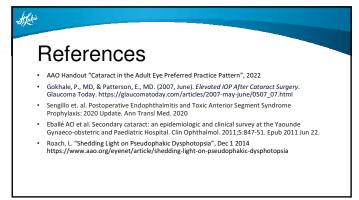
YAG Post Op Complications Most common: Floaters for a few days after surgery More if a PVD is elicited Retinal tears – extremely uncommon but we dilate every YAG post op Iritis/Macular Edema – also uncommon, however: if VA not 20/20 and/or concurrent ERM/DR, we will do a Mac OCT One final complication that we haven't reviewed yet:

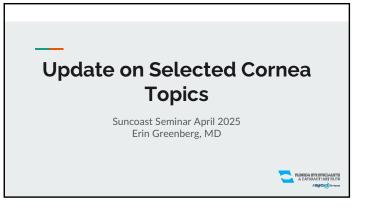






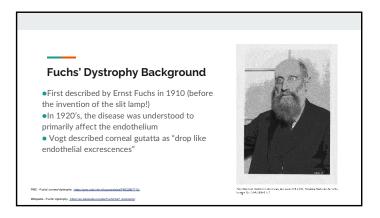


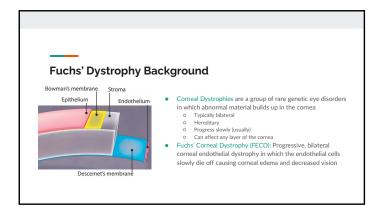


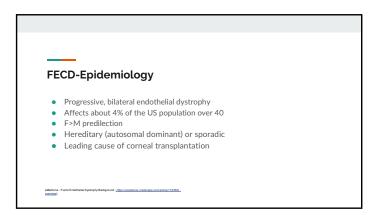


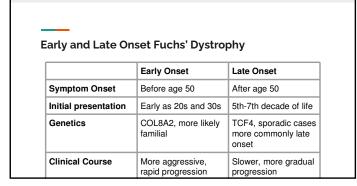
Fuchs' Corneal Dystrophy

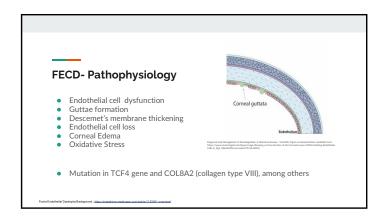
I have no Financial Disclosures.

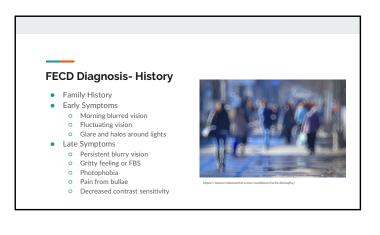




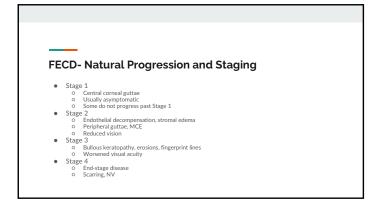












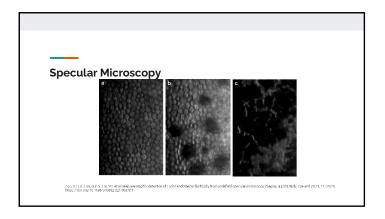


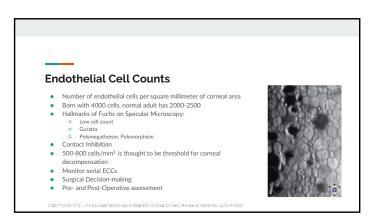


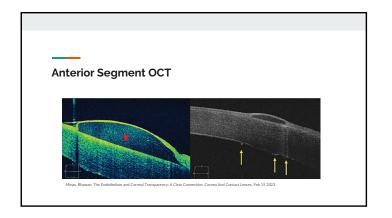


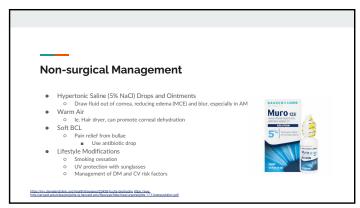


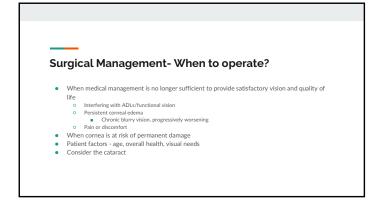


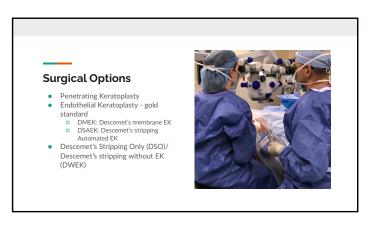


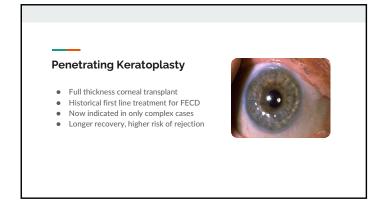


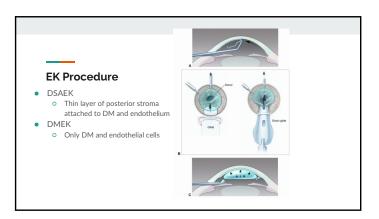


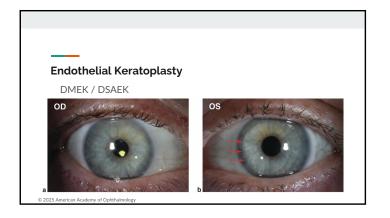


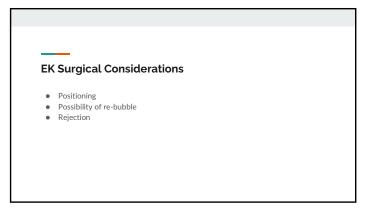


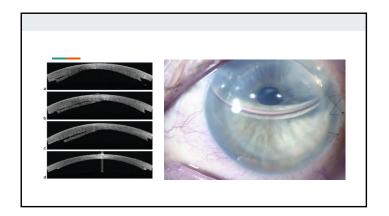


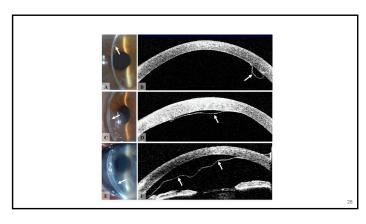


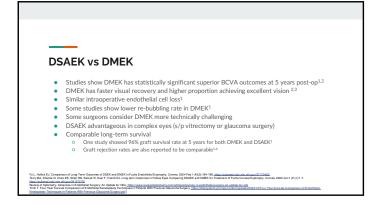


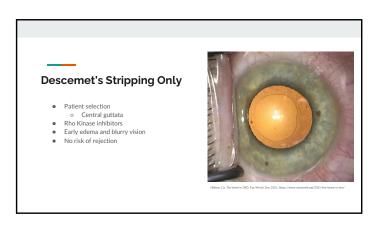












New and Ongoing Research Cell Therapy: Injected Endothelial Cells (Aurion Biotech, Emmecell - neltependocel, EO2002). Restore endothelial function without transplant, delay or prevent surgery. Clinical trials: promising early results (†VA, † corneal thickness). Approved in Japan (Aurion Biotech). Phase 3 trials (2025), potential FDA approval (2026-2027). Rho-Kinase Inhibitors: Ripasudil, ROCK inhibitors - enhance healing post-DSO. Accelerate wound healing, improve endothelial cell density. Gene Therapy & Small Molecules: Targeting molecular mechanisms of degeneration. Disease-modifying treatments (early stages).

Rho-Kinase (ROCK) Inhibitors Inhibits Rho-associated kinase (ROCK) which is involved in cellular shape, movement and adhesion Originally developed for glaucoma to lower IOP Mechanism of Action in Fuchs Dystrophy: Enhance survival and function of endothelial cells Improves endothelial cell adhesion to DM Stimulates endothelial cell migration May potentially reduce fibrosis and guttae formation (still under investigation) Decrease corneal edema by improving endothelial cell function So far, the most promising use of ROCK inhibitors is as adjunct therapy along with DSO



Questions?

Update on Selected Cornea Topics

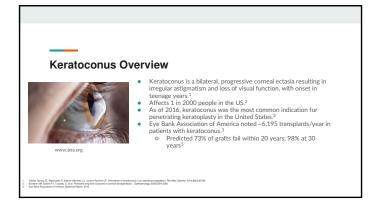
Suncoast Seminar April 2025 Erin Greenberg, MD

I have no Financial Disclosures.

Keratoconus and Other Corneal Ectasias

Corneal Ectasias

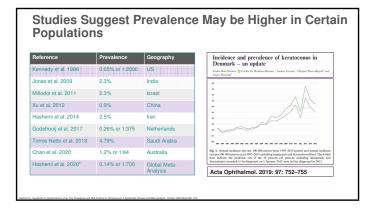
- · Corneal ectasias are a group of uncommon, noninflammatory eye disorders characterized by the bilateral thinning of the central, paracentral or peripheral cornea
 - Keratoconus
 - Pellucid Marginal Degeneration
 - Keratoglobus
 - · Post-refractive surgery ectasia



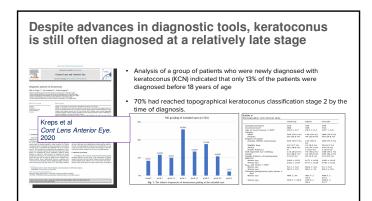
Keratoconus Epidemiology

- Average age: depends on study, typically around 15
- Male to female ratio: also depends on study
 - O Some say 2/3 to 1 O Some say 1 to 1
- Racial demographics
- Variable
- More common in Asian, Black, Arabic populations. Slightly more common in Hispanic compared to Caucasian

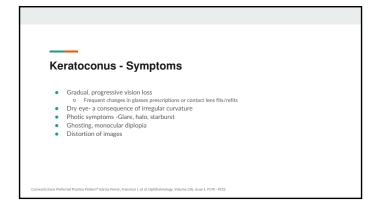




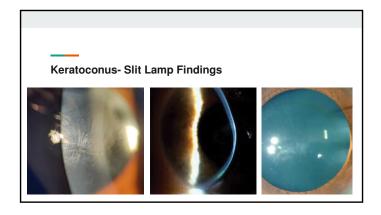
Keratoconus Natural Progression More rapid progression in younger age groups Slowed progression as patients enter late 30s and 40s Rare Progression After 50 Crosslinking UV light from the sun strikes the cornea and forms crosslinked bonds between corneal stroma

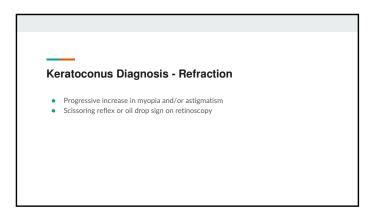


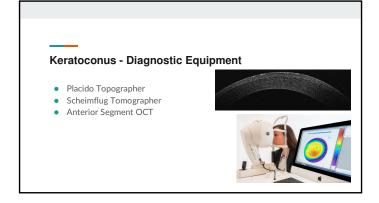
Importance of Early Diagnosis As keratoconus progresses, it becomes more challenging to manage Keratoconus can be easily overlooked in patients who are currently functioning well in spectacle lenses or soft contact lenses Important to diagnose and educate patients before visual function is lost Cross-linking is an early intervention to halt or slow the progression of keratoconus A published meta-analysis study of >11,000 eyes demonstrated that patients with untreated progressive keratoconus ≤17 yrs of age or with ≥55 D KMax are likely to show ≥1.5D of Kmax progression within 12 months¹

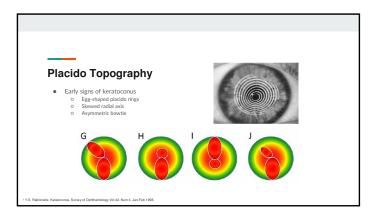


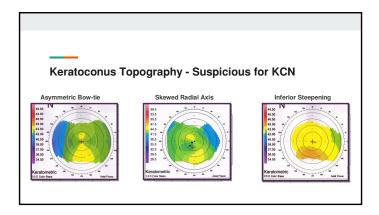


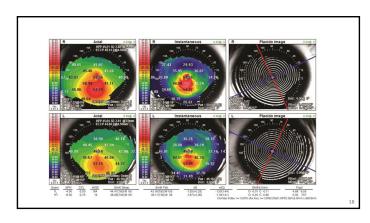


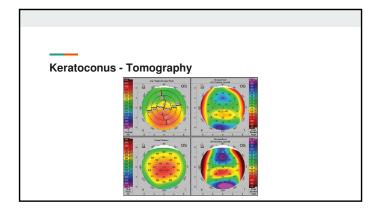


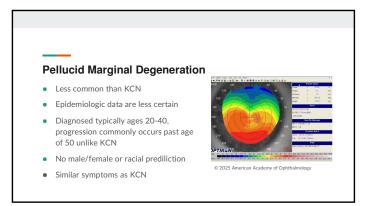


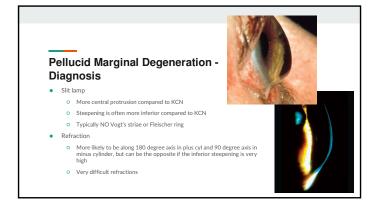


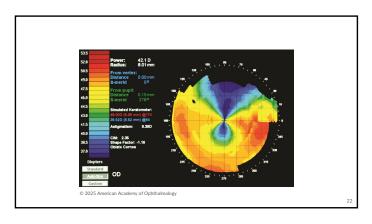




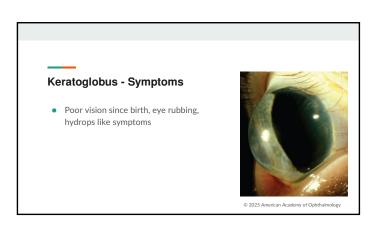




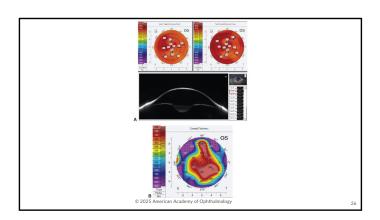




Keratoglobus Epidemiology Presents at birth or early infancy Some reports of acquired keratoglobus presenting in late childhood/teenagers Very rare No known gender predilection Natural progression very unpredictable



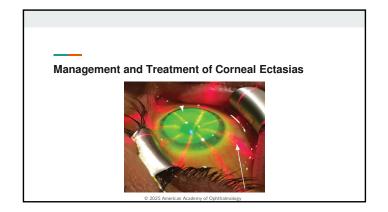
Keratoglobus - Diagnosis Slit lamp Globular protrusion of the cornea Diffuse thinning from limbus to limbus Scarring No Vogt's striae or Fleischer ring Refraction High myopia Irregular astigmatism



Post-Refractive Ectasia Irregular corneal curvature following refractive surgery Secondary to decreased structural integrity causing destabilization of the corneal support network Can occur in LASIK, PRK, SMILE RK, LRIs, AKS Progression is variable and can occur in any decade of life

The onset of ectasia ranged from 0.2 to 192 months across the three procedures with a mean of 41 ± 50 months in PRK, 35 ± 24 months in LASIK, and 18 ± 13 months in SMILE

 Moshirfar M, Tukan AN, Bundogji N, Liu HY, McCabe SE, Ronquillo YC, Hoopes PC. Ectasia After Corneal Refractive Surgery: A Systematic Review. Ophthalmol Ther. 2021 Dec;10(4):753-776. doi: 10.1007/s40123-021-00383-w. Epub 2021 Aug 20. PMID: 34417707; PMCID: PMC8589911.

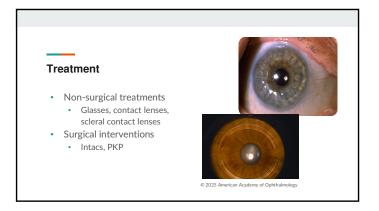


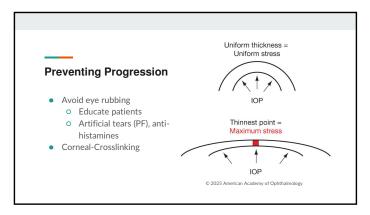
Goals of Care

- Identify it and monitor for progression
- Treat symptoms
- Improve vision
- Prevent progression

Identify and Monitor for Progression

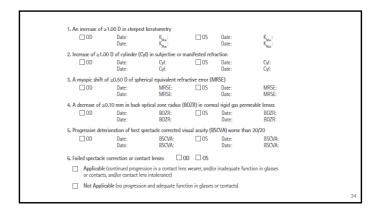
- Monitor refractive changes
- Serial topography/tomography
- Exam findings



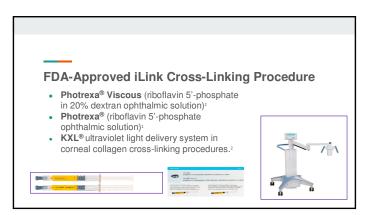


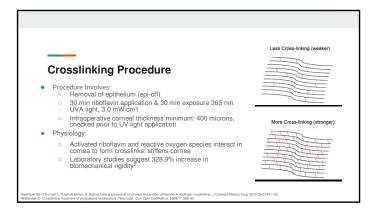
Corneal Crosslinking

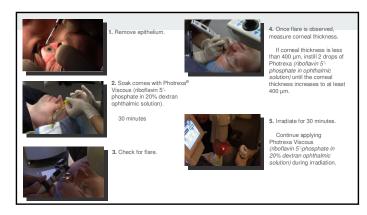
- · Crosslinked bonds are naturally formed in the cornea
 - Result of UV-A light interaction with corneal collagen
- 50 years by the sun...30 minutes with standard crosslinking protocol
- FDA approved for PROGRESSIVE Keratoconus and post-refractive ectasia
 - Ages 14-65



Crosslinking - Patient Education Very safe and effective way to reduce or stop progression Crosslinking is NOT a refractive procedure Goal is stabilization - not visual improvement Though we do see 3-4 diopters of flattening of Kmax Post-op evaluation for visual recovery will be necessary - usually hard contacts are still necessary in moderate and late stages Adverse event rate less than 5% Not counting stromal haze... "Failure rate" of around 8% in KCN, higher in ectasia







Post-Operative Precautions

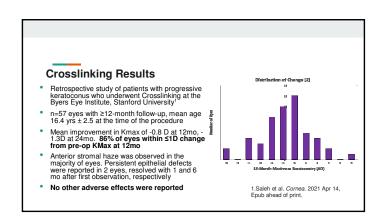
- Patients should be advised NOT to rub their eyes for the first five days after their procedure.
- Discomfort, light sensitivity, foreign body sensation
- · Severe pain or sudden decrease in vision warrants a phone call
- If the bandage contact lens that was placed on the patient's eye on the day of treatment falls out or becomes dislodged, the patient should be advised not to replace it and to contact their eye care provider immediately.

Follow-up Care

- •Drop Regimen
 - o Antibiotic (moxifloxacin) QID x 1 week or until epithelium has closed
 - o Steroid regimens vary usually 1-2 months with slow taper
- •I remove the bandage contact 4-7 days after procedure
- •Corneal haze
- Onset 3-4 weeks after CXL, mostly resolves around month 3-4
- •Still require monitoring for progression after CXL
- •Don't forget about the second eye!

Contraindications and Adverse Events

- Cross-Linking not advised during pregnancy, no official stance on breastfeeding mothers
- Ulcerative keratitis can occur; most common ocular adverse reaction was corneal opacity (haze)
 - Other side effects may include punctate keratitis, corneal striae, dry eye, corneal epithelium defect, eye pain, light sensitivity, reduced visual acuity & blurred vision.



Conclusions

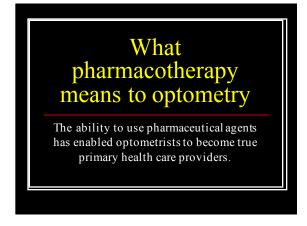
- Corneal ectasias can be serious vision threatening conditions that are often challenging to diagnose and treat
- Patients with progressive keratoconus/ectasia should be educated regarding risks and benefits of the FDA-approved iLink cross-linking procedure.
- Optometrists play a critical part in ensuring early diagnosis, monitoring, and continuing care of these patients.
- Financial hurdles have prevented some patients from treatment in the past. Now the FDA approved iLink Crosslinking procedure is approved by many insurance companies.



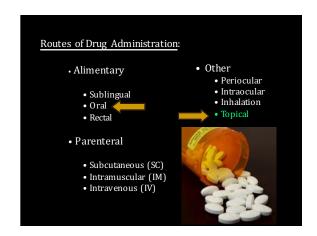




With respect to this course, I have no relevant financial relationships to declare.







Principles of Pharmacology

- Pharmacokinetics: What the body does to a drug
- Pharmacodynamics: What the drug does to the body
- Always keep in mind contraindications, side effects and drug interactions before starting medication.
- Drug risks vs. benefits
- Keep in mind the age and weight of the patient

 Consider starting with one half in the young or elderly (po)

 Elderly often on multiple meds may lead to adverse reactions/interactions

Know Your Patient Take Two Tons of Aspirin 5 call Me in The Morning

Each patient is unique.

Choosing the Proper Drug Therapy

- Patient considerations
 - Immune system viability
 - Kidney and liver function
 - Pregnant or nursing
 - Age
 - Allergy history
- Safety profile of the drug
- Efficacy of the drug
- Cost considerations



General Principles:

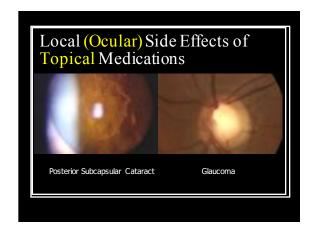
- Drug Metabolism -Most drugs are metabolized by liver enzymes
- <u>Drug Excretion</u> The <u>kidney</u> is the major route
- Some drugs are excreted after metabolism
- · Some drugs are excreted unchanged
- Therefore, proper liver function is critical for metabolism of medications, and kidney function is integral to drug excretion.

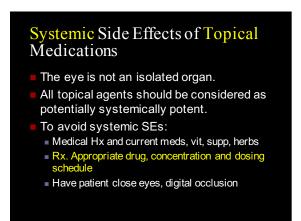
Topical Meds

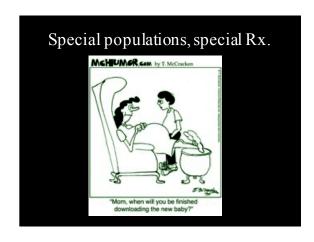
Absorbed directly into bloodstream, so not broken down by GI or liver.











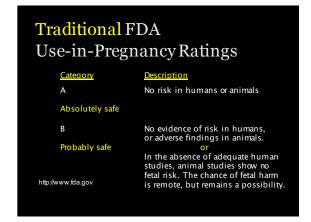








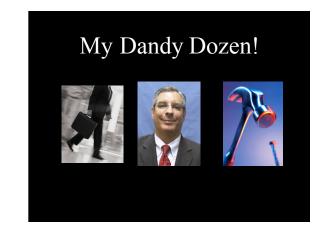


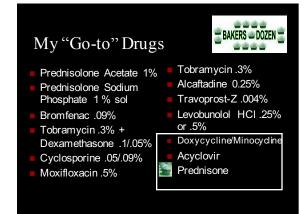






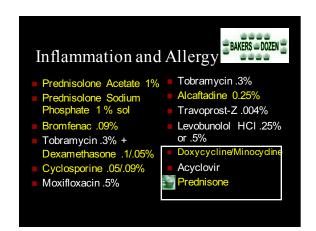






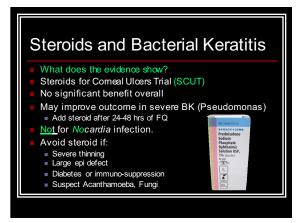
The majority of red eyes that present to us are primarily inflammatory and/or allergic in nature.

In immunocompetent patients, most red eyes will get better if we do nothing.

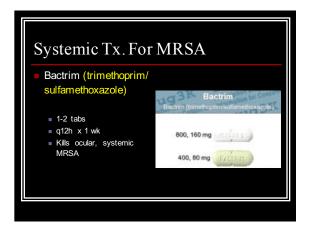


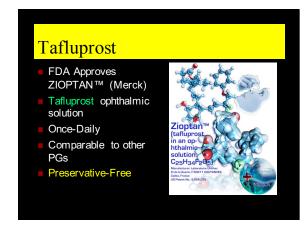




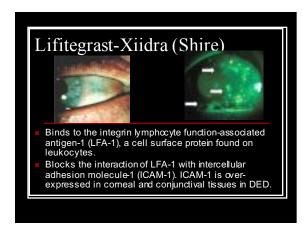


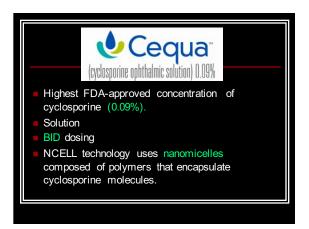




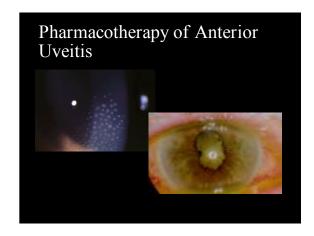




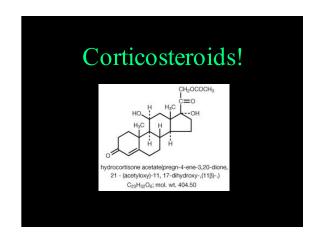


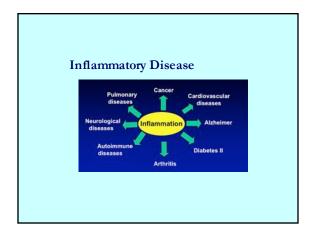






What is your ocular treatment plan?



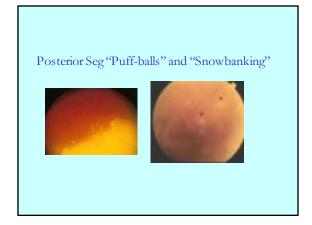


History

- A 34 year-old black female presents symptoms of bilateral redness x 7 days
- Gradual onset, gradual worsening
- Mild pain, mild photophobia OU
- Ocular history positive for previous episodes OU

Clinical Findings • Biomicroscopy - 2+cells in AC OU - "Mutton fat" deposits on endothelium OU - Iris nodules OU - Areas of posterior synechia OU • TAP: 9 mmHg OD/11 mmHg OS • DFE - "Snowbanking" - Gray/white (old) vitreous "puff balls" inferior PP OU





What is your <u>ocular</u> diagnosis?

Assessment

- Bilateral anterior uveitis
 - Probably recurrent/chronic
- Granulomatous
 - Mutton-fat KPs
 - Iris nodules
- Prior posterior segment inflammation

What is your plan?

Ocular management? Systemic testing? Consultation?

A granulomatous uveitis has an increased likelihood of being part of a s_____ disease process.

Actual Management

- Treated anterior uveitis using conventional topical meds.
- Steroid
- Cycloplegic
- Ordered targeted systemic "uveitis" work-up
 - ACE will be elevated in up to 80% of patients with active
- · Chest imaging

Corticosteroids

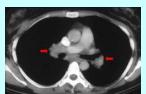
- Topical steroids are the mainstay to treat ocular inflammatory conditions
- Choosing which medication to use depends on the severity and location of the ocular inflammation

Bilateral Hilar Lymphadenopathy on Chest X-Ray in Pulmonary Sarcoid

"Potato'



Bilateral Hilar Lymphadenopathy on CT Scan of Chest

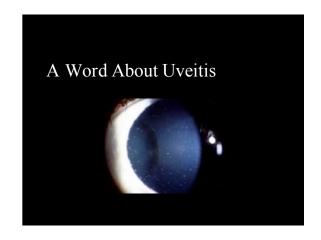


Outcome

- · Sarcoidosis
 - Patient was also placed on po Prednisone (short-term)
 - $\ Good \ ocular \ response \ to \ medical \ the rapy$
- · What imaging tests to order:
 - Chest X-ray
 - CT of chest and abdomen

Key Points: Sarcoidosis**

- · A multi-system disease.
- Most often occurs between 20 and 40 years of age, with women being diagnosed more frequently than men.
- 10 to 17 times more common in African-Americans than in Caucasians.

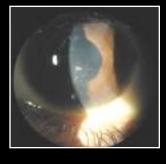


What is uveitis?

- Defined as inflammation of the uveal tract.
- For decades, considered a single disease.
- Fact: Uveitis entails a multitude of diseases.
 - Some uvetic diseases are local, ocular immune.
 - Many are <u>systemic</u> diseases with ocular manifestations.



Uveitis is an Immunological Process

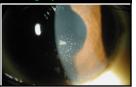


Immune Privilege

- The eye enjoys a special relationship with the immune system.
 - Ability to guench unwanted immune-mediated inflammation.
 - This ability is known as immune privilege.
 - Immune privilege enables ocular tissues to remain clear.

Common Etiologies of Anterior Uveitis

- In uveitis, immune privilege is overcome
- Idiopathic (post-viral syndrome)
- Human leukocyte antigen (HLA)-B27positive or HLA-B27-associated
- Trauma or s/p intraocular surgery



HLA-B27

- HLA-B27 is present in 1.4-8% of the general population.
- However, it is present in 50-60% of patients with acute iritis.
- HLA-B27 diseases include:
 - Ankylosing spondylitis
 - Reiter syndrome
 - Inflammatory bowel disease
 - Psoriatic post-infectious arthritis



Hypopyon w/+ HLA-B27

The main feature of steroids is the fused ring system.



Moderate to Severe Inflammation

- Prednisolone acetate 1% ophthalmic suspension
 - Pred Forte

 - High ant-inflammatory efficacy
 Acetate suspension facilitates corneal penetration to provide increased concentrations in anterior chamber
 - Main indications include anterior uveitis and severe episcleritis

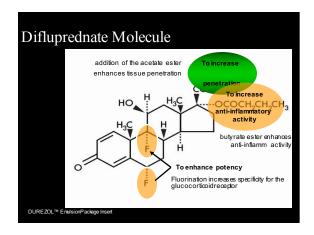
For Severe Inflammation

- Difluprednate .05% emulsion (Alcon)
 - No shaking
 - Less frequent dosing
 - BAK-free
- Derived from prednisolone
- FDA indication for postSx. inflamm, pain
- IOP rise *



DUREZOL











Loteprednol etabonate (Alrex).2% suspension A topical ophthalmic steroid that is FDA approved for the treatment of chronic (not acute) allergic conjunctivitis.

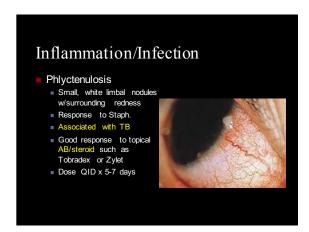
When and Why Taper? When a 2-grade decrease in ant chamber cells is achieved Why? Sudden withdrawal of a steroid can result in a rebound inflammatory response. This would then require a larger dose of steroid for an even longer period of time because of longer lasting inflammatory activity.

What if there is IOP rise? Handle it.

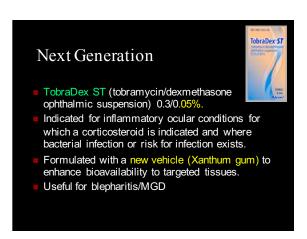
Topical Steroid Taper

- An example: start w/1 gt q1h x 2 d, then
 - 1 drop every two hours for three days
 - 1 drop every three hours for three days
 - 1 drop 4 x a day for 4 days
 - 3 x a day for 3 days
 - twice a day for 2 days
 - finally, one drop once a day for 2 days, then
 - discontinue the steroid or have the patient apply it every other day for several more days.

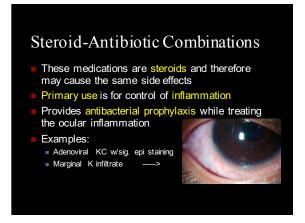


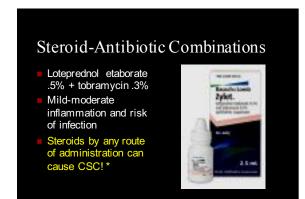


Steroid-Antibiotic Combinations Dexamethasone alcohol .1% with tobramycin .3% Moderate/severe inflammation w/risk of infection Now available as a generic



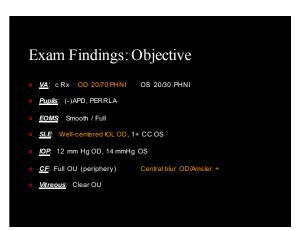


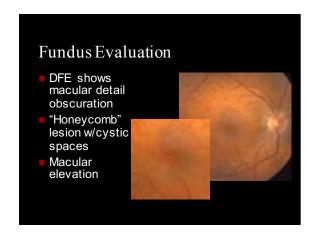




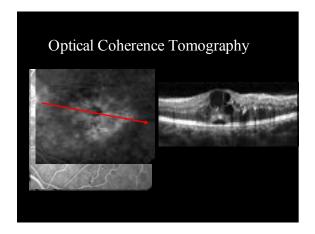


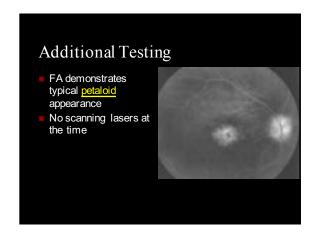
74 year old WM: Subjective CC: Blurred "central" vision (OD) @ distance and near Onset gradual, over 3-4 days Last visit 3 weeks prior showed 20/25 VA OD Ocular History: 7 weeks s/p uneventful cataract surgery with IOL OD Medical History: + HTN x 12 years, + Hypercholesterolemia (both under control w/meds) Family Ocular History: + AMD (mother) Allergies: None Topical Meds: artificial tears





Are there any other tests you would perform?

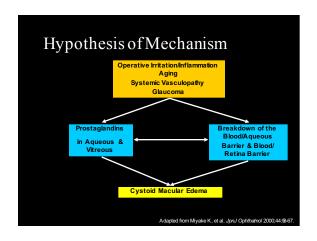




What is your assessment?

Irvine-Gass Syndrome

Post-operative Cystoid Macular
Edema (CME)



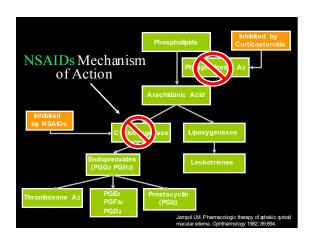
What is your plan?

Treatment of CME Topical NSAID x 2-3 mon Topical steroid Topical NSAID + topical steroid Periocular anti-inflammatory meds

Non-Steroidal Anti-Inflammatory Drugs (NSAID) Effective against mild/moderate ocular inflammation Used post-surgically Common ocular side effects

- Burning/stinging on instillation
- Dryness

Injection



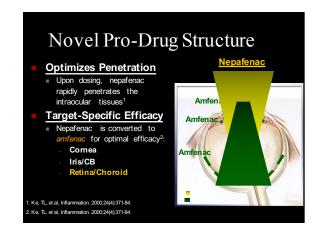






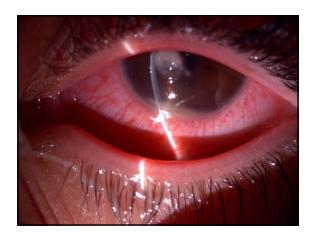


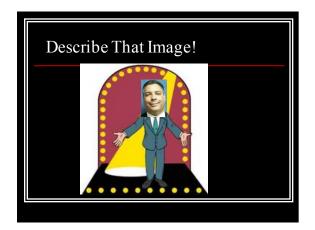




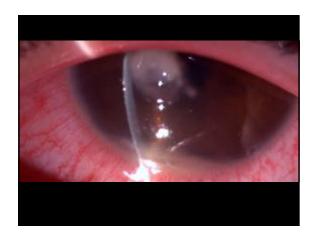


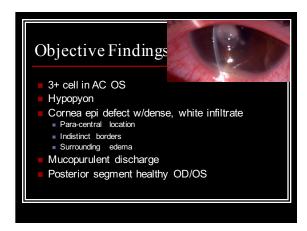












Differential Diagnosis

- . Interstitial Keratitis
- b. Bacterial Keratitis
- . Acanthamoeba Keratitis
- d. Fungal Keratitis
- Herpetic Keratitis (HSV, HZV)

Differential Diagnosis

- . Interstitial Keratitis
- b. Bacterial Keratitis
- c. Acanthamoeba Keratitis
- Fungal Keratitis
- Herpetic Keratitis (HSV, HZV)

What is your plan?

Treat or turf?

If you treat...

• Bacteriostatic – stops the growth / replication of the bacteria

or

• Bactericidal - kills the bacteria

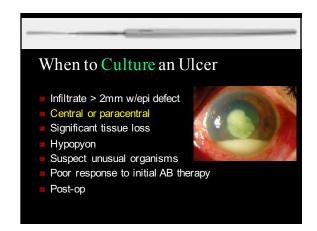
Choosing the Proper Drug Therapy

- Efficacy of Antibiosis
 - MIC = minimum inhibitory concentration
 - Lowest concentration that inhibits visible growth (growth-stopping)
 - Measures bacteriostatic activity of antimicrobials.
 - MBC = minimum bacteriocidal concentration
 - Lowest concentration that kills the microbe

Actual Plan

- Cornea consult same day (Why?)
 - Corneal scrapings performed
- Moxeza 1 gt q30min, Tobrex 1 gt q30min, Scopolamine .25% 1 gt tid
- Fortified AB?
- Daily follow-up
- Scrapings grew Pseudomonas





Topical Antibacterial Classes

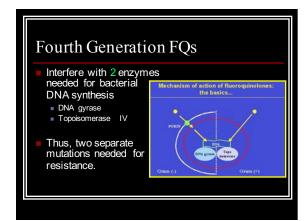
First-line Agents for Bacterial Infections
Fluoroquinolones eradicate a wide variety of ocular pathogens
Aminoglycosides provide broad spectrum coverage, slightly more effective against gram-negative bacteria
Polymyxin B combinations provide broad spectrum coverage
Macrolides provide broad spectrum coverage
Bacteriostatic



Fluoroquinolones

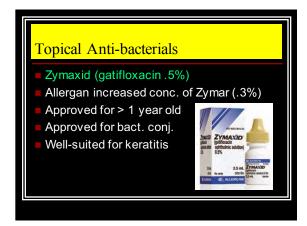
Ciloxan (ciprofloxacin 0.3%, Alcon)
lquix (levofloxacin 1.5%, Vistakon)
Couflox (ofloxacin 0.3%, Allergan)
Quixin (levofloxacin 0.5%, Vistakon)
Moxeza (moxifloxacin 0.5%, Alcon)
Zymaxid (gatifloxacin 0.5%, Allergan)
Besivance (besifloxacin 0.6%, B&L)

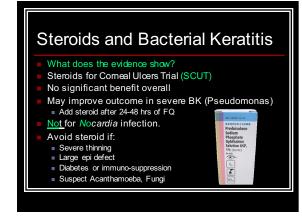












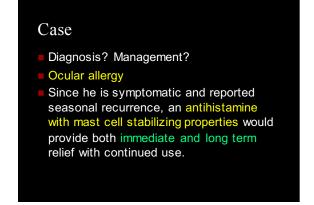


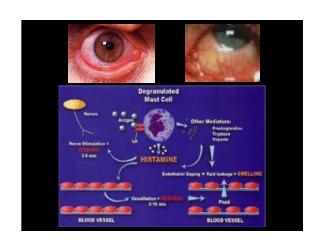




Case A 25 year old male states that he has hayfever each spring and has been congested recently. He complains of itchy, red, watery eyes. DVA OD: 20/20 OS: 20/20 Ocular assessment of the conjunctiva is remarkable for moderate redness and a watery/mucous discharge, no corneal staining



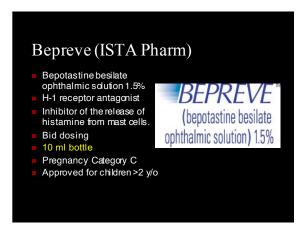




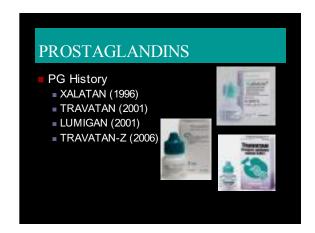


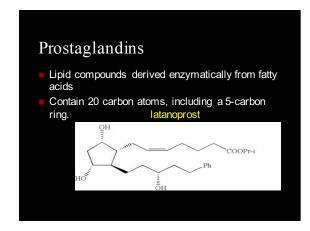


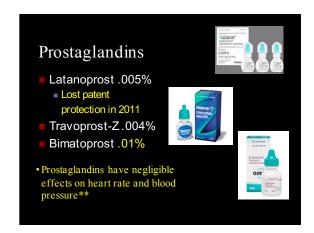


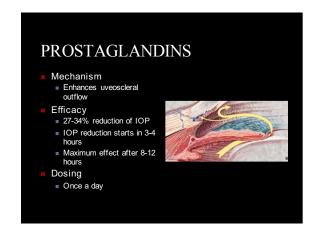


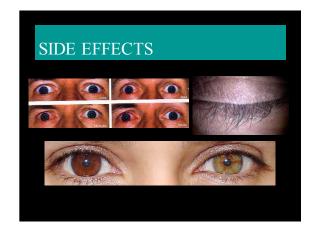








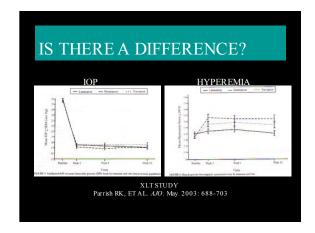






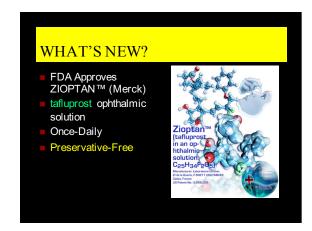


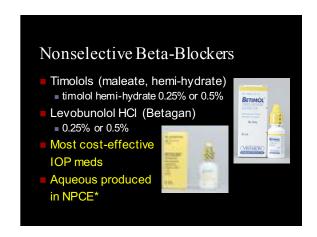


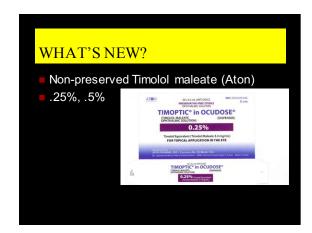


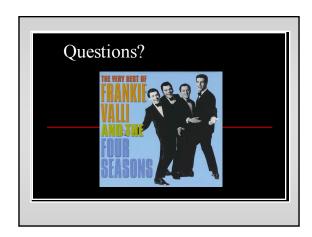






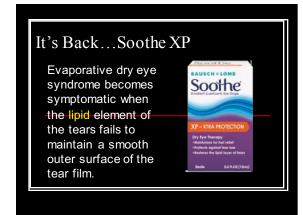




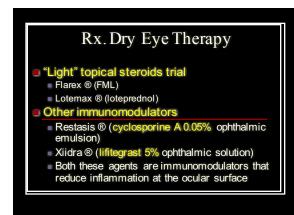


Dry Eye Treatment Artificial tears Tx is the mainstay of initial topical management preservative free vs. preserved lipid-based low viscosity (thinner consistency) medium viscosity (medium consistency) high viscosity (thick consistency) ointments



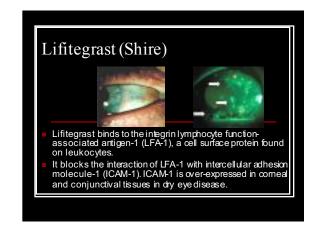














Summary Effective pharmacotherapy depends on timely diagnosis. The ideal topical drug is potent, easy to dose/administer, and cost effective with minimal SEs. By staying current, you can better serve your patients and profession.

