The Greatest Anterior Segment Disease and Contact Lens Complications Course Ever

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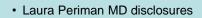
FINANCIAL DISCLOSURE FORM DR JACK L. SCHAEFFER

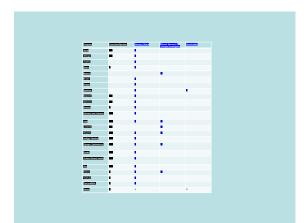
I HAVE RECEIVED HONORARIUM, COMPENSATION, OR SERVE AS AN ADVISOR TO THE FOLLOWING COMPANIES

- •
- ALCON
- ALLERGAN
- AMO/ABBOTT
- ARCTIC/Dx
- ATON
- BAUSCH AND LOMB
- COOPERVISION
- ESSILOR
- ISTA
- Ноуа
- OPTOVUE
- OPTOS
- VISTAKON
- ZEIS VISION



I have no direct financial interest in any company or product that is mentioned in this lecture.
Law on the speaker panel for: Along Allerga Allerga Allerga Territo Bio Territo Bio Territo Bio
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Marc R. Bloomenstein OD, FAAO







Dilation Vs Optomap

- The two together delivers a the highest level of Comprehensive Eye Care
- If you have to choose just one: DILATE, DILATE, DILATE

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Telephone Consultations

30 YO WF Telephone symptoms: sore upper lid, painful spot on lid

Internal Hordeolum??

Ready to Dx on telephone: decided to see the patient

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Bacterial Conjunctivitis?

Extremely Tender Upper lid Upper lid swelling Excessive Mucous production

Bacterial Conjunctivitis Orbital Cellulitis?

Tx: PO

Augmentin PO 875 Mg Bid

Ocular Zymaxid OS q 2 h

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Day 2

Facial Pain Headache Fever Referral to PCP, R/O Orbital Cellulitis Dx Severe Sinus infection: Contd Meds PO (Augmentin) Antibiotic Injection in office Sinus infection Lid swelling with Pain



Chronic Unilateral Conjunctivitis

 63 yo male with rosacea on chronic doxycycline referred with 'recurrent eye infections'

- Topical antibiotics would clear symptoms 'a little'
- Cultures grew out candida species
- Altered ENT microflora with chronic doxycycline



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Chronic Chemosis after Blepharoplasty

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Lid Disease- Infection

Treatment

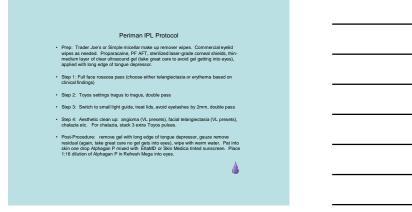
- Keflex 500 Mg BID
 Cephalexin
- Bactrim: double strength: BID
 Trimethoprim/ Sulfamethoxazol
- Augmetin 875 mg BID
- Miboflow
- Hot compress (Written instructions)

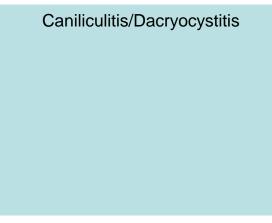
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Treatment

- Keflex 500 Mg BID – Cephalexin
- Bactrim: double strength: BID
 Trimethoprim/ Sulfamethoxazol
- Augmetin 875 mg BID
- Miboflow
- Hot compress (Written instructions)







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Treatment

- Keflex 500 Mg BID – Cephalexin
- Bactrim: double strength: BID
 Trimethoprim/ Sulfamethoxazol
- Augmetin 875 mg BID
- Hot compress (Written instructions)
- MiBo Flow

Doctor number 3

- 68 YO female
- Pain discomfort 2 years OU
- Treatment Restasis BID
- OD > OS
- 3 rd doctor

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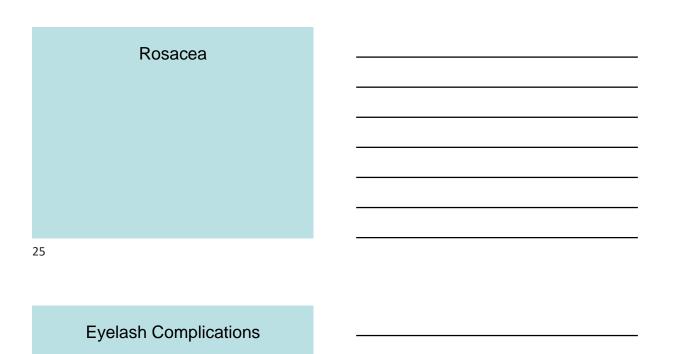
Concretions Management

- Asymptomatic- neglect (@ 6% become symptomatic
- Symptomatic
 - Fine tipped forceps delivery
 - 25 ga needle
 - Education R.E. recurrence

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Allergic Dermatitis

- Elocon
- Mometasone Crème
- · Lotemax ung



EyeLash Whiplash

- Hygiene suffers
- Patients don't want to rub off their expensive extensions

Prostaglandin Analogs in OTC Eyelash Serums

- Aerodynamic compromise
- Upper eyelid discoloration
- MGD*
- Hyperpigmentation
- Dermatitis
- Orbital Fat AtrophyIris Color Change
- CME





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Trauma / Abrasion

Corneal Abrasion

- Debridement of the Cornea
- Techniques
- Instruments
- Bandage Contact lenses
- · Follow up prtocols

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Bandage contact lens

- Pros
- Cons
- Cyclo
- Antibiotic
- Nsaids
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Follow up protocols

- Day 1
- Day 3
- If any symptoms post day 3
 - Telephone
 - Office visit

• Excessive pain

- Treatment
- Bandage
- Nsaid
- Narcotics
- Cycloplegia

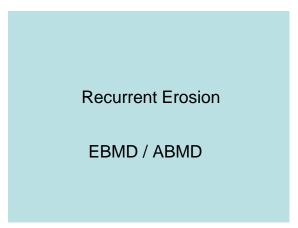
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• Recurrent erosion

- Any preventive measures

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Recurrent Erosion



Case 2

- 50 YOF
- Woke up with discomfort
- · Feels like something is in my eye

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Case 3

- 50 YO male
- Punched in eye 3 weeks ago
- Ocular Contusion with no abrasions
- Va 20/40

Treatment Strategy

- ABMD
- RCE

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Recurrent Corneal Erosion

- NaCl Ung Pm
 Muro 128
- PF AT

 Q 1-2 hours
- NaCl Gtts qid

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Recurrent Corneal Erosion Long Term Therapy

- Restasis / Xiidra

 Tid
- Fresh –Kote
 Qid
- · Lacriserts ?
- Hypertonic Vs Hypotonic AT

- Amniotic membrane
 - Corneal specialists not in favor
 - Any EBM to support
- · Which type
 - How long to remain in eye
 - Follow up protocol

Treatment

- Nsaid ?
 - Delayed Corneal healing ?
- Bandage Contact lens
 - Antibiotic??
 - How often
 - RTC daily until healed? How often?
 - Remove and fresh lens and leave in place 3 days?

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Recurrent Corneal Erosion

- Bandage Contact lenses
- Antibiotic ung
- Change lens how often
- · See patient how often

Developing a Specialty Practice

Cornea Disease

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RPS Adeno Detector

- Prospective, masked, multi-center clinical trial in U.S. and Europe
- 186 consecutive patients examined all cases of <u>acute</u> conjunctivitis and compared to both cell culture and PCR
- 25% of all acute conjunctivitis confir Adenovirus
- RPS Detector



Treatment EKC

- 1 lubricants
- · 2 combo antimicrobial / steriod
- · 3 Steroid
- 4 Betadine
- 5 Zirgan
- · Contagious ? How long

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EKC treatment

Melton/ Thomas

- Povidone- Iodine 5% (betadine) Broad spectrum microbiocide
 - Indicated for "Irrigation of the ocular surface"
 - OFF LABEL USE
 - · Anesthetize with proparacaine
 - Instill 1-2 drops NSAID
 - · Instill several drops of betadine in eye (close eye)
 - Swap excess over lid margin
 - After one minute irrigate with saline
 - Instill 1-2 drops NSAID
 - Rx Lotemax or Zylet or Tobadex ST qid 4 days - No reports of adverse reactions

 - Avoid if allergic to iodine
 - Betadine 5% ophthalmic prep soln (30 ml opaque)
 - 99070 supply code







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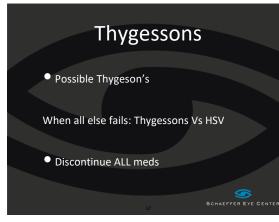
- Herpes Simplex Keratitis
- Adenovirus
- Solution Hypersensitvity
- MRSA
 - Remember staph in fection leg treated with Bactrim

SCHAEFFER EYE CENTER

Nursing student



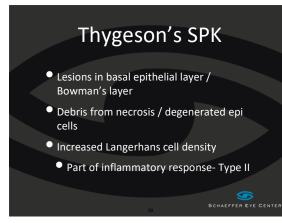
THYGESSONS



Thygeson's SPK

- Described by Phillips Thygeson in 1950
- Slightly elevated corneal lesions, minimal staining
- Usually bilateral, Second to third decade
- Noted corneal sensitivity decreased but not as severe as herpes
- Mild conjunctival involvement, worse with exacerbations
- Appearance similar to EKC described by Fuchs SCHAEFFER EVE CENTER

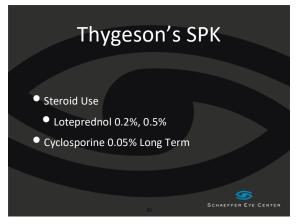
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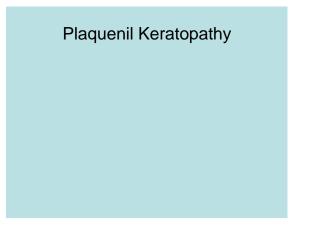
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Thygeson's SPK Treatment: Anecdotal

- Cyclosporin 2% in olive oil (8 patients)
- Supratarasal injection triamcinolone (1 case-chronic 6+ years)
- Trifluridine (6 eyes)
- PRK in myopic patient had lesions recur in periphery (untreated area) vs central (treated area)
- Rimexolone 1% for reversing dendritic cell density (4 patients)







Vortex Keratopathy or Cornea Verticillata

Clinical features:

- Symptoms: the corneal changes are rarely of any visual significance.
 Signs:
 - Symmetric, bilateral, whorl-like pattern of powdery, white, yellow or brown corneal epithelial deposits
 - Appears in a vortex fashion in the inferocentral cornea and swirls outwards sparing the limbus
- Occurs in Fabry's disease and in patients being treated with a variety
 of drugs including amiodarone, chloroquine, amodiaquine,

meperidine, indomethacin, chlorpromazine and tamoxifen.

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Ocular Surface Disease Secondary to Systemic Disease

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Herpes Zoster Management

- · Oral antiviral agent
 - Zovirax (acyclovir) 800 mg 5x / day x 7-10 days
 - Famvir (famciclovir) 500 mg tid x 7-10 days
 - Valtrex (valacylovir) 1000 mg tid x 7-10 days
 - Discussed with nephrologist / PCP if renal disease present

Ocular findings:

- Conjunctivitis/Scleritis
- Pseudodendrites
- Neurotrophic keratitis
- Iritis
- Glaucoma
- ION, vein or artery occlusion
- Nerve Palsy

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Iridocyclitis and HZO

- Most common and most often overlooked ocular complication (43%)
- Highly elevated IOP
- Study by Thean, Hall & Stawall -clinical Ophthalmology Dec 2001
- •56% of patients developed glaucoma!!

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Treatment:

- Duration?
- •7 days for most patients although newer studies (Zaal - Am J or Ophthal. Jan 2001) suggest
- 10 days for patients over age 66 due to shedding

Treatment: Iridocyclitis

- •Pred Acetate 1% q1h or q2h or
- Durezol (Difluprednate) 0.05% with half the dosing
- Lotemax Long term
- •Cycloplegia •Homatropine 5% bid •Cyclopentolate 1% bid

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Systemic Disease- Ocular Involvement

· Herpes Simplex

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Treatment: Epithelial Involvement

- •In the past: trifluoridine Viroptic q2h
- •New replacement: **Zirgan** 5 x per day until ulcer disappears then TID x 1 week
- •PO Valtrex 500mg TID
- •PF artificial tears
- •Follow-up (next day), day 3-4, day 7-10

Zirgan[™](Ganciclovir Ophthalmic Gel) 0.15%

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Zirgan[™] (ganciclovir ophthalmic gel) 0.15% Indication

Dosage and Administration

The recommended dosing regimen for Zirgan is 1 drop in the affected eye 5 times per day (approximately every 3 hours while awake) until the corneal ulcer heals, and then 1 drop 3 times per day for 7 days.

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Treatment: Stromal keratitis or Endotheliitis

- Durezol QID
- Pred Forte Q2H
- •Cover with PO Acyclovir (400 mg bid) or Valtrex (1000mg QD) or topical (Zirgan TID)

Restoring Corneal Clarity

- * Prokera inserted
- * Patient continued oral Valtrex 500mg QD
- * Returns 5 Days later for removal:

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