

LESSONS TAUGHT IN OPTOMETRY SCHOOL IN 1982

- STEROIDS KILL
- USE STEROIDS AND DIE
- USE STEROIDS AND AN IMPORTANT PART OF YOUR BODY WILL FALL OFF.....???



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THIS IS AN INTERACTIVE PROGRAM

- VERY SIMPLE TASK
- CASE IS PRESENTED
- THE KWIK KWESTION IS SIMPLE:
- DO YOU WANT A STEROID WITH THIS CASE?
- Grads from 2012-present
- · Grads 1996-2005
- Grads 1985 1995

POSSIBLE ANSWERS

- 1. = A- FOR ALWAYS INDICATED!
- 2. = B- YES, BUT ADJUNCTIVE TX – NOT PRIMARY TX
- 3. = C = CONTRAINDICATED IE NEVER!

RULE #1

- UNDERSTAND THAT ALL TREATMENTS HAVE SOME RISK
- KNOW RISK VS BENEFIT OF THERAPY
- ALWAYS EVALUATE PATIENTS FOR SIDE-EFFECTS AND ADVERSE EFFECTS OF THERAPY

RULE #2

- YOU MUST HAVE A DIAGNOSIS BEFORE YOU TREAT
- TREATMENT IS EASY DIAGNOSIS IS TOUGH

RULE #3

- TREAT MECHANISMS, NOT NAMES.
- RECOGNIZE PRESENCE OF INFLAMMATION, INFECTION, TRAUMA. THEY CAN EXIST INDIVIDUALLY OR TOGETHER.

Mechanisms: Know the (6) I's

- INFECTION
- INFLAMMATION
- ISCHEMIA
- INJURY
- IDIOPATHIC
- IATROGENIC



• INDICATIONS?

- ADVERSE EFFECTS
- WARNINGS
- DOSAGES
- DOSAGE FORMS



INFLAMMATION -THE GOOD

• The Good

Destroy invading pathogens

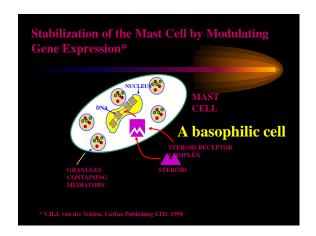
Remove dead tissue

Replace damaged tissue with

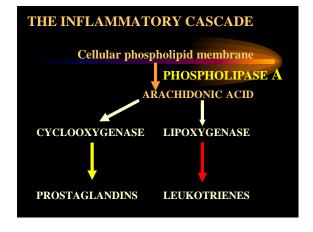
scar tissue-fibrosis

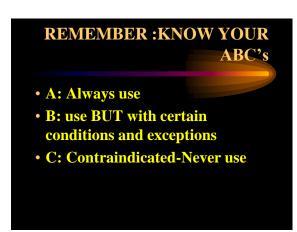
INFLAMMATION-THE BAD • The Bad Primary inflammation or inflammation secondary to trauma, infection or autoimmune disorders must be controlled to minimize damage and loss of function ie corneal scarring • Always TX underlying cause of

STEROID PHARMACOLOGY • Mechanism of action @ @ @ @ @ Inhibit EVERYTHING The major cytokines: leukotrienes and prostaglandins• Inhibit WBC migration • Inhibit fibroblasts



inflammation.





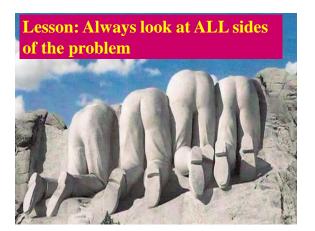


DO YOU WANT STEROIDS WITH THAT?

- 1. ALWAYS
- 2. YES, BUT FIRST TX WITH......
- 3. CONTRAINDICATED

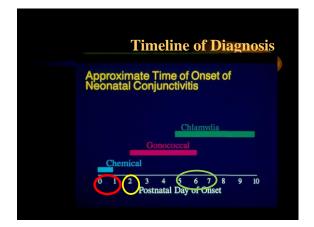
DO YOU WANT STEROIDS WITH THAT?

- 1. ALWAYS
- 2. YES, BUT FIRST TX WITH......
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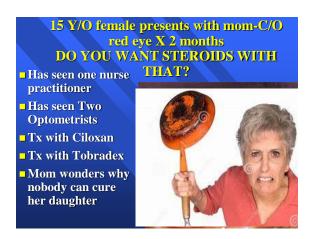
Epidemiology of Ophthalmia neonatorum
J. Clin and Exp Ophthalmology

- In the US:
- Chlamydia = 32% incidence =8.2/1000 births
- N. gonorrhea = 1-5%
- Prophylaxis: 10% silver nitrate (CREDE)
- · Topical erythromycin/azithromycin
- Povidone iodine

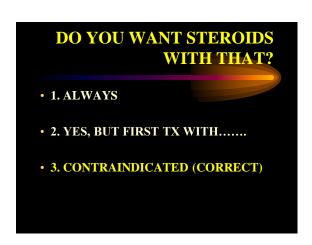


Chalmydia Treatment

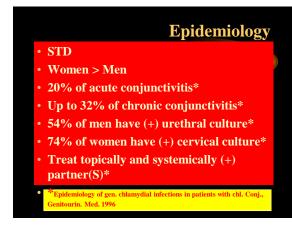
- Both topical and systemic
- Treat parents and friends also
- The family that gets treated together stays together
- Azasite topical
- Azithromycin (pediatric dose) 20mg/kg/day X
 3 days vs erythromycin 50mg/kg/D (QID) X
 14 D
- Adults: 1 gm X 1dose
- NO STEROIDS















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DO YOU WANT STEROIDS WITH THAT?

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IT'S COMPLICATED (controversial)

VIRAL

EKC-Subepithelial infiltrates and pseudomembrane

Minimize loss of accessory lacrimal apparatus-OSD

DOES SELF-LIMITING DISEASE NEED

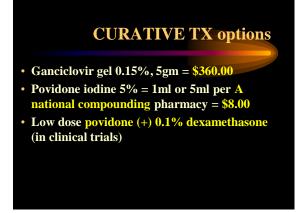
TREATMENT?

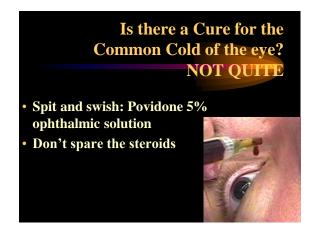
- SELF-LIMITING DOES NOT MEAN HARMLESS
- INFECTIVE PROCESS IS THE SELF LIMITED FACTOR
- INFLAMMATION IS NOT
- TREAT TO PREVENT INFLAMMATORY DAMAGE

SELF-LIMITING DOESN'T MEAN HARMLESS

- FIRST-THE CONS:
- Steroids can prolong SEI's*
- · Steroids increase viral sheddingcontagion*
- The Pros: Reduce occurrence of SEI's and pseudomembranes*
- Infection = tissue damage = inflammation =loss of structure/function
- *Adenoviral conjunctivitis, ASCRS, cornea-Frances Mah, MD EKC a review of Mgt. j. optom.







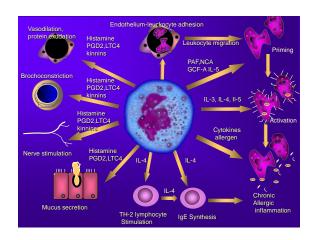




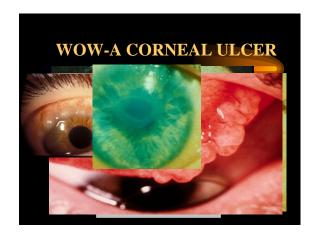


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• 1. ALWAYS • 2. YES, BUT FIRST TX WITH...... • 3. CONTRAINDICATED (CORRECT)







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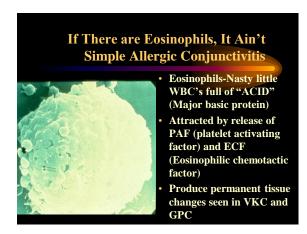
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Don't forget long-term management

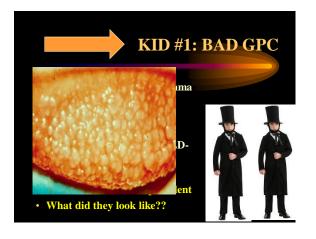
- *Cyclosporin A 0.05%-2%: ONLY 1-2% QID effective as mono-therapy-min 6 month TX
- **Cyclosporin A. 0.05% 8X daily with steroid
- * Cetinkaya A, Ccornea 2004
- **Kumar S, Clinical Exp Optom





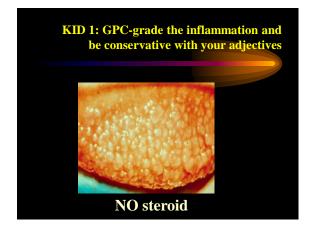


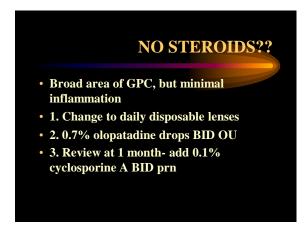
TRUE OR FALSE All GPC is treated the same? GPC is treated by it's severity? Doctors of Optometry are experts in grading GPC? WHY? Because we caused most of it.....













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Again, with that darn cyclosporine A

- Marked inflammation with mucous (4)
- FML 0.1% TID X 1 month with weekly taper
- At week 3 add 0.1% cyclosporine A QID X 2-4 weeks, then BID
- Resume CL wear with daily disposables after GPC reduced to acceptable levels and start olopatadine 0.7% BID prn



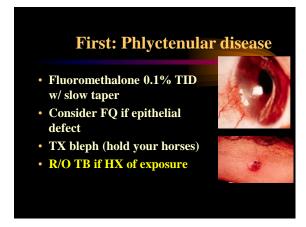
DO YOU WANT STEROIDS WITH THESE?

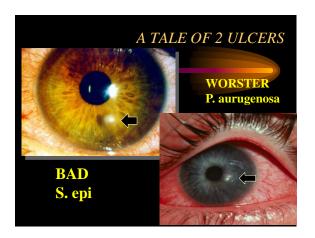
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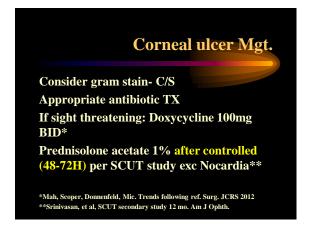
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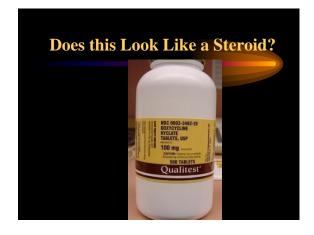












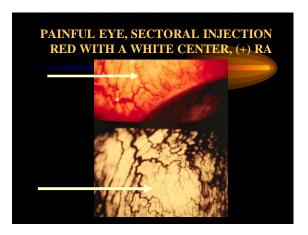
A NEW USE FOR DOXYCYCLINE? Doxycycline inhibition of interleukin-1 in the corneal epithelium. Solomon A, Rosenblatt M, Li DQ, Liu Z, Monroy D, Ji Z, Lokeshwar BL, Pflugfelder SC Ocular Surface and Tear Center, Bascom Palmer Eye Institute, Department of Ophthalmology, University of Miami School of Medicine, Florida 33136, USA. PURPOSE: To evaluate the effect of doxycycline on the regulation of interleukin (IL)-1 expression and activity in human cultured corneal epithelium. MP.

The observation that doxycycline was equally potent as a corticosteroid, combined with the relative absence of adverse effects, makes it a potent drug for a wide spectrum of ocular surface inflammatory diseases.









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