

Similarities between Chef and Optometrist?

- White coat
- Wash hands
- Infectious Disease

















Thought #1 Eyelid Bumps Agree? "Optometrists change lives"



Hi Dr. Kenworthy, I thought I'd update you on the sty. After a few nights of warm compress, along with using both prescriptions, the sty discharged and now you can barely tell it was ever there.

Just in time for a date Wednesday :)

"Excellent, thanks for the report. Just don't tell that story over dinner on your date"





















Adenovirus

 Shipyard Eye
 This name became widely known in the summer of 1941, when an outbreak occurred in Pearl Harbor, and more than 10,000 people became infected with the malady













And the red eyes continue....Is it bacterial or viral?











Some **<u>REAL</u>** combination eye drops

Polytrim	polymyxin B / trimeth	oprim	sol
Maxitrol	neomycin 0.35% polymyxin B dexamethasone 0.1%		susp & ung
Tobradex	tobramycin 0.3% dexamethasone 0.1% tobramycin 0.3% loteprednol etabonate 0.5%		susp & ung susp
Zylet			
Combigan	brimonidine/timolol	0.2%/0.5%	sol
Cosopt	dorzolamide/timolol	2%/0.5%	sol
Simbrinza	brinzolamide/brimonidine	1%/0.2%	susp



"Hi, I'm Cornea" • I have no blood until you

take my breath away

• I'm transparent, always telling the truth

 I'm a sensitive guy, thanks to the ciliary nerves and lots of tears



- Nutrients supplied via aqueous humor and tears
- Regularly spaced collagen fibrils, no regeneration of stroma
- Most densely innervated tissue in body, 1st division of trigeminal







"Empiric" therapy

Broad spectrum fluoroquinolone q1hr

- Gatifloxacin (Zymaxid)
- Moxifloxacin (which two?)

Loading dose?

- How about Besivance?
 DuraSite vehicle prolongs the drug's contact time on the ocular surface
 - Currently, no plans for systemic



SCUT (The Steroids for Corneal Ulcers Trial) Basic Question: Will visual prognosis after a corneal ulcer be better if you use steroid during treatment? Five hundred patients AdS (97%) were enrolled in India The majority of patients were agricultural manual laborers (220 of 500, 44%). The most common object of injury was vegetative matter. Eight patients were contact lens wearers The most common organisms isolated were Streptococcus pneumonine (250 of 506, 49%) Pseudomons organisms isolated were Streptococcus pneumonine (250 of 506, 49%) Nocardio species (56 of 506, 11%). The most common organisms in the United States was P aeruginosa (15 of 16, 31%) Contact lens wear is a common risk factor for ulcers in the United States, in contrast to agricultural work in India.

Early Addition of Topical Steroids (2014)

- In a recently published sub-analysis, patients who were given steroids within two to three days of starting antibiotic therapy showed a statistically significant gain in visual acuity (1 line) at three months, particularly those with severe or moderately severe ulcers.
- In patients who had 4 or more days of antibiotic therapy before corticosteroid treatment, the effect was not significant
 - patients given corticosteroids had **1-line worse** visual acuity at 3 months compared with those in the placebo group

Is an <u>ulcer</u> normal in a grafted eye?













Herpes Virus Family

Type	Synonym
HHV-1	Herpes simplex virus-1 (HSV-1)
HHV-2	Herpes simplex virus-2 (HSV-2)
HHV-3	Varicella zoster virus (VZV)
HHV-4	Epstein-Barr virus (EBV), lymphocryptovirus
HHV-5	Cytomegalovirus (CMV)
HHV-6	Herpes lymphotropic
HHV-7	Roseolovirus
HHV-8	Kaposi's sarcoma-associated herpesvirus

Different manifestations of HSV-1

- Dermatitis
- Blepharitis
- Conjunctivitis
- Epithelial Disease (dendritic)
- Stromal keratitis (necrotizing, disciform)
- Endothelitis
- Trabeculitis
- Iridocyclitis
- Retinitis



























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