











### Oy vey!!

I told Bobby to come into the office. He has a flat choroidal lesion in OS and he has this:





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### Demodex Blepharitis

#### October 2023-Patient #1

- Discussed the use of lotilaner 0.25% BID
- "Do you think it was the demodex that has increased and is causing my lid issues?"
- Started lotilaner ophthalmic solution 0.25% Nov. 2024 (BID for 6 weeks)
- "This is amazing, my eyes feel great."
- You may be the best doctor I have been to in my life (I presume he thought that )
   August 2024
- "I think I am getting a new bump. I started the Xdemvy from last year. This is a miracle drug."
- May I have some more please???

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- Treatment strategies • Microblepharoexfoliation: manual with okra polysaccharide, oscillatory cleaning in office
- Lotilaner 0.25%
- Intense Pulsed Light
- ASCRS 2022
- Full Periman IPL Protocol on YouTube:DryEyeMaster



FIGURE 5: Improvements in appearance of chalazion after one session of IPL treatment. IMAGE COURTESY LAURA M. PERIMAN, MD



















### Cataract Surgery OS -20/100 –2-3+ Striae -3+ POME -1+ cells -Lens centered -IOP • 14 mmHg (ORA) 20

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- Autosomal dominant inheritance
  Bilateral / Asymmetry
  Late onset > 50 y.o.

- Characterized
- Corneal guttata
   Excessive accumulation of abnormal endothelial secretions
   Appears in 30-40<sup>th</sup> year of life





#### What the F?

- -Patient calls....
- "Sorry to bother you on a Sunday, but my eye is blurry today and it hurts alittle."
  "I have seen the corneal surgeon recently and he said my cornea looked good."

- -"I was 20/30. Today it is not so great.."
- -SO.... I head into see patient...

"Just when I thought I was out they pull Part III (we skipped II) me back in"

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 3 months later
 – Patient calls.... v the corneal surgeon a month ago and he said my a looked good." The Godfather II y wife thinks she can see my lens in my eye nd it hurts..did I mention the pain?" ... I head into see patient

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### Patient's Medical Hx

- NIDDM-diet controlled
- No corneal ulceration
- No Viral Infections
- No auto-immune or inflammatory conditions
- Patient states:
- "I feel the eye just has never been right since cataract surgery"
- Blood Results

		PURPOSE	NORMAL VALUES	RESULT
Lab Work	Erythrocyte Sedimentation Rate (ESR)	Inflammation	≤ 30 mm/hr	Elevated (110 mm/hr)
	C-Reactive Protein (CRP)	Inflammation	<6 mg/L	Elevated (19.35 mg/L)
	White blood cells	Inflammation	4 × 10° to 1.1 × 10°%L	Mild leukocytosis (13.1 x 10%L)
	Human Leukocyte Antigen B27 (HLA-B27)	Specific protein strongly associated with spondyloarthropathies	Negative	Positive
	Herpes Simplex Virus (HSV) IgG	Herpes simplex virus-specific antibody	Negative	Positive
	Herpes Simplex Virus (HSV) IgM	Herpes simplex virus-specific antibody	Negative	Positive
	Angiotensin-Converting Enzyme (ACE)	Sarcoidosis	Negative	Negative
	Toxoplasma	Taxoplasmosis	Negative	Negative
	Treponema Pallidum Antibody (FTA-ABS)	Syphilis	Negative	Negative
	Rapid Plasma Regain (RPR)	Syphilis	Negative	Negative
	Varicella-Zoster Virus (VZV) titer	Varicella zoster virus antibodies	Negative	Negative

### What to look for? In a retrospective study in AJO 2016: Persistent iritis Increased IOP Corneal edema Retained Lens material Study concluded that delay in cataract diagnosis was the most common factor



#### **Referred Patient to Retina**

- Called my personal retinal specialist
- Danesh: Hey when are you coming in to get more laser?'
- Me: Danesh, I can't hear you. Must be a bad connection
- Patient was seen: Posterior Uveitis
- B-scan demonstrated multiple refracticle particles in the vitreous-retained lens nucleus
- Patient under PPV next day
- Removed lens material
- Culture was negative for aerobic or anaerobic organisms
- Triamincinolone injection; Pred Forte q2h; ketorolac qid -OS



### Are you sure?

red eye" • Refered for CXL

> Hpertension, Thyroid Dz, Arthritis

• MedHx:

- 62 yo w/progressive decrease in DVA in OD
- "My Dr. told me I have keratoconus starting in my 60's"
  - OMHx: None
- "I had a bad reaction one morning, painful



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DIFFERENTIAL

- ALLERGIC CONJUNCTIVITIS
- BUG BITE
   BACTERIAL CONJUNCTIVITIS
- VIRAL CONJUNCTIVITIS
- PRESEPTAL CELLULITIS
   CELLULITIS
- CORNEAL ULCER
   FOREIGN BODY
- HOT TUB
- TRAUMA







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# Mycotic Nightmare Last Exam with Cornea June 4, 2024

- · VASC HM
- Confocal negative
- No ulceration, diffuse new with circumferential at limbus, thick scarring
- Diffuse NVI
- Tx: Voriconazole 200mg BID PO, Intrastromal Voriconazole and Sub-conj injections
- Natamycin and Pred qid
- Cospopt and Bromsite BID (IOP 19mmhg today)
- Diamox 500mg BID po

**Fungal Keratitis** Treatment: A Comprehensive Approach





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Antifungal Medications: The First Line of Defense

1 Topical Antifungals Natamycin

Voriconazole and Amphotericin B are alternative options. Intrastromal injections of voriconazole (when confirmed) 2 Systemic Antifungals

- Fluconazole may be prescribed for severe cases. They complement topical treatments.
- 3 Application Frequency Hourly in the initial stages. The frequency is adjusted based on response.



## Surgical Interventions: When Medication Isn't Enough

Therapeutic Keratoplasty

Removes only the infected portion. Healthy donor tissue is grafted.

Corneal Transplant Replaces the entire cornea. Used for severe scarring or persistent infections. Post-Surgery Care

Intensive follow-up. Antifungal and immunosuppressive medications are crucial.







