

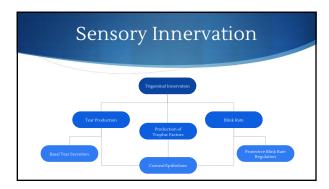
Financial Disclosure Statement **Avani Davé** has received honorarium from Boston Sight. She is on the Speaker Bureau for Bausch and Lomb Specialty Vision Products, Bausch and Lomb Pharmaceuticals and Tarsus Pharmaceuticals. All relevant relationships have been mitigated vision expo

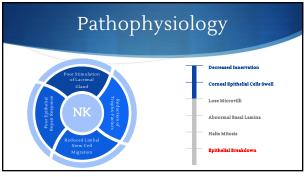
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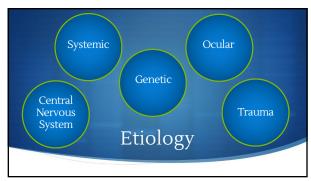
Objectives Identify and Review Clinical Manifestations Diagnostic Screening Tools Current Treatment and Management Case Discussion 3

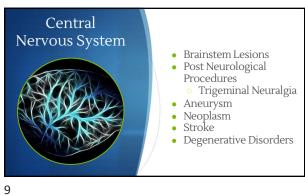
Neurotrophic Keratopathy corneal sensory innervation Reduced corneal sensitivity Reduced reflex tearing and blinking rates Reduced leftex tearing and omining faces Reduced lubrication and epithelial healing More susceptible to corneal injury

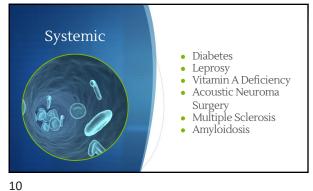


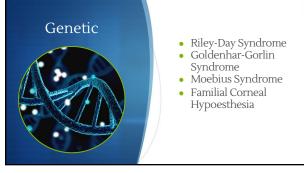


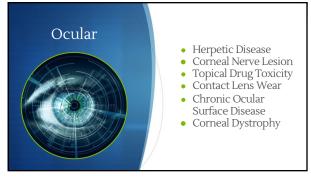












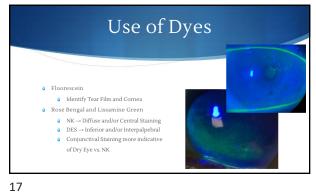


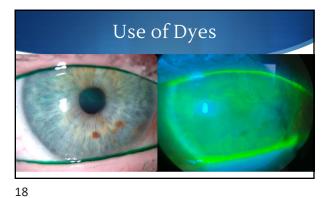


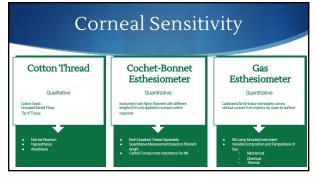
Screening Tools ♦ Early Diagnosis is KEY! Detailed Patient History ♦ Slit Lamp Evaluation ♦ Tear Production (Schirmer's Testing without Anesthetic) Corneal Sensitivity Measurement Imaging

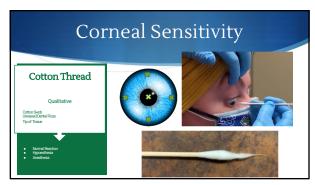


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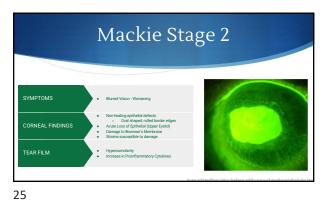
















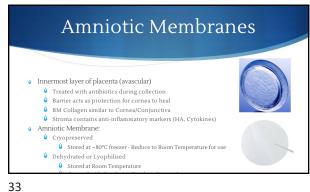










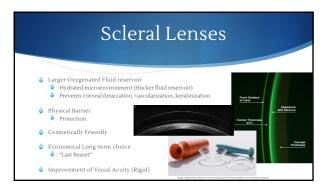


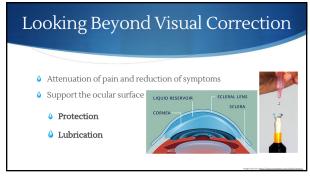






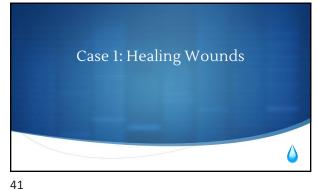








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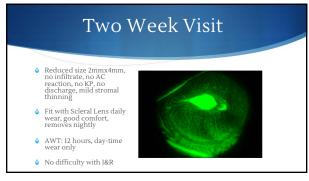
Case History **७** 66 yo M presents for Scleral Lens consultation OS 4 s/p Retinal Detachment Repair OS x 8 (scleral buckle in place) Secondary Glaucoma OS – on Cosopt PF BID OS, Zioptan QHS OS Neurotrophic Keratopathy OS Neurotrophic Ulcer OS Dec 2016, recurrence Jan 2017 Resultant Non-healing Central Corneal Epithelium Defect
Outside MD consideration for *enucleation* OS

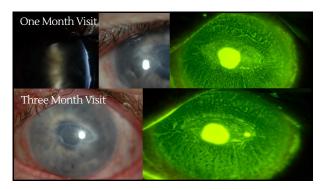
42

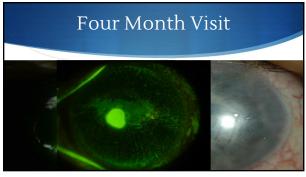
Non-Healing Epithelial Defect 7 months duration
Poor response to topical treatment
History of multiple amniotic membranes (failed) Setting of Neurotrophic Keratopathy OS Current Treatment: ♦ Ofloxacin QID OS♦ Preservative Free Artificial Tears QID Bandage Contact Lens
 Replaced every 2 weeks by local MD



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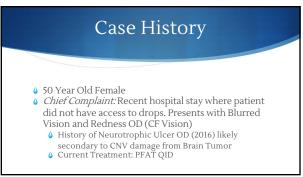
Nocturnal Exposure Neurotrophic Keratoconjunctivitis OS with central non-healing epithelial defect OS x 12 months Reduction in epithelial defect size however significant thinning Increase risk of corneal perforation Limitation of Healing possibly due to Nocturnal Exposure Consideration for Partial Tarsorrhaphy – may limit PROSE wear Initiate Autologous Serum Tears Consult with outside Cornea MD with patient options, continue with Scleral wear daily for now and initiate tape tarsorrhaphy at night

47 48









51 52

Medical and Ocular History Interpretation of Brain Tumor Tumor Removed from brain stem in 2013 Initial symptoms of diplopia and exotropia OD (later found to be due to tumor likely affecting oculomotor/abducens nerve) Slight compression of right carotid; suspicion for Horner's OD with slight ptosis Neurotrophic Keratopathy OD with large central scar due to prior corneal ulcer (2016) BCVA reduced to 20/150 Punctal Plugs RVL and RLL placed in 2018 Using Preservative Free Artificial Tears 4-6x/day and ointment at night High Myopia (~9 D)

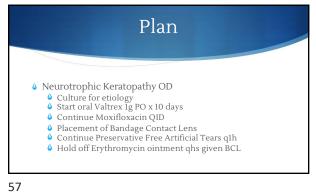
Clinical Presentation		
	OD	os
Lids	Mild Ptosis, Plugs in place UL/LL	Normal position, clear
Cornea	Epithelium Defect within central area of stromal scar 4.5 mm H x 2.5 mm Vertical, Mild neovascularization inferior	Clear
Anterior Chamber	Deep and Quiet, No Cell/Flare	Deep and Quiet
Iris	Flat	Flat
Lens	Trace Nuclear Sclerosis	Trace Nuclear Sclerosis

53 54



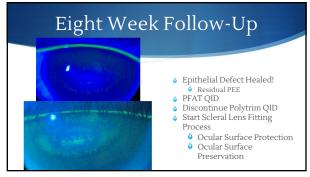


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Case History

62 Year Old Female referred for NK OS and history of Recurrent Epithelial Defects

History of Amniotic Membrane x 2 (Prokera) - 1/2021

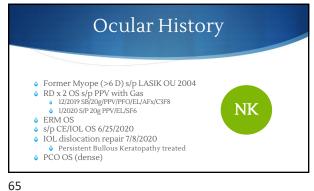
On Oral Valtrex previously - d/c after HSV PCR Negative

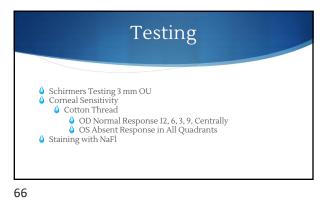
Currently wearing BCL (replaced monthly)

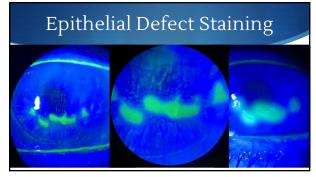
Punctal Plugs in place BLL OU

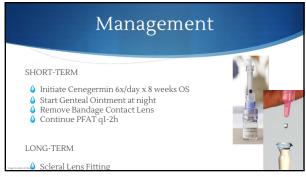
PFAT QID OU and Moxifloxacin BID OS

63 64







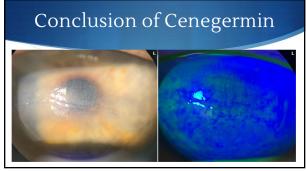


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9/7/25















Case History

62 Year Old Female presents for emergency visit with redness, blurred vision, light sensitivity

Ocular History: s/p LASIK OU, s/p CE/MF PC IOL OU, recent history of HZV OS

Seen at Urgent Care and given "corneal bandaid" for abrasion

Medications: Valtrex 500 mg PO, Pred QD and PFAT

79 80





