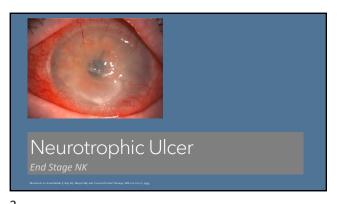


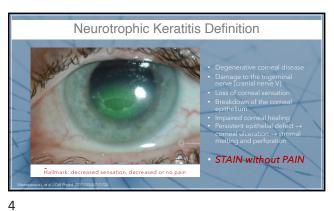
Douglas K Devries, OD
Disclosures
All Conflicts Have Been Mitigated

Abbre Advisor
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Asceula Advisor and Speaker
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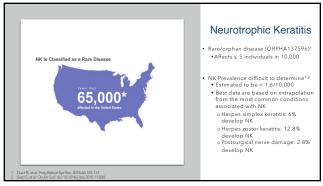
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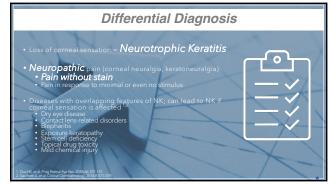
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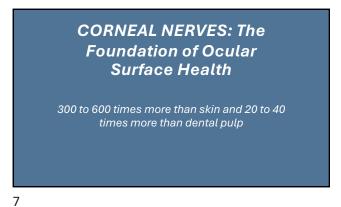


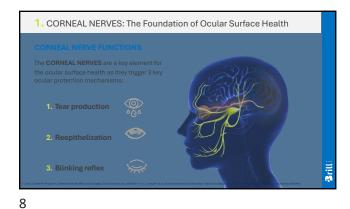
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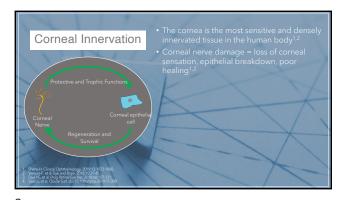


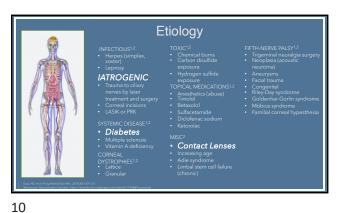


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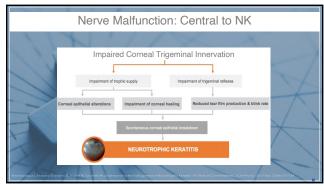


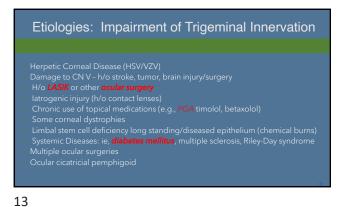




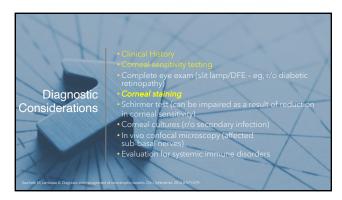




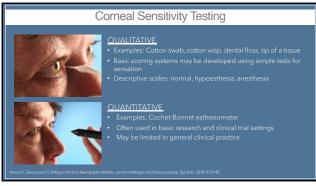






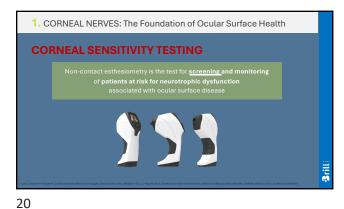






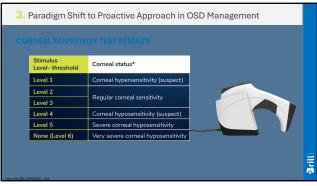


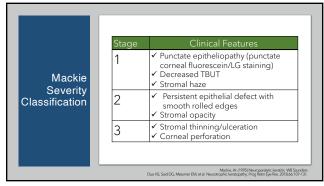




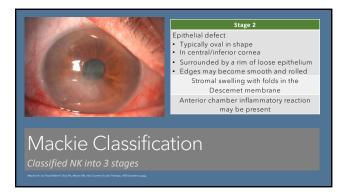














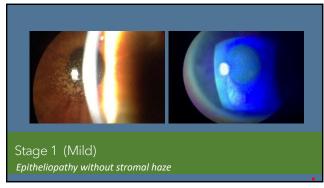


27 28

Neurotrophic Keratitis Study Group
Proposed Staging System

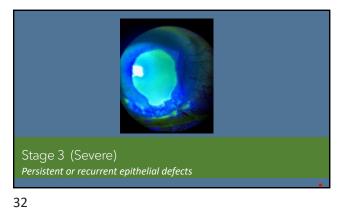
Altered Sensation Without Keratopathy
Patient can have absent sensation and not corneal findings

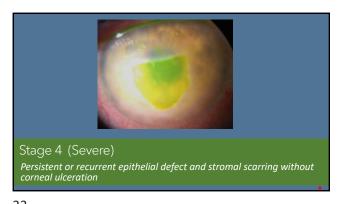
Stage 0 (Mild)

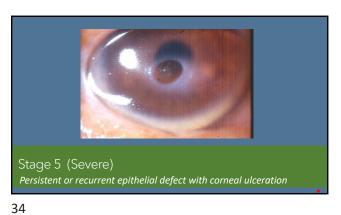


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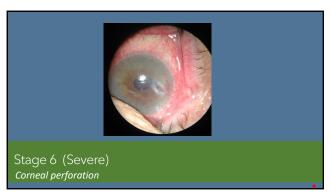








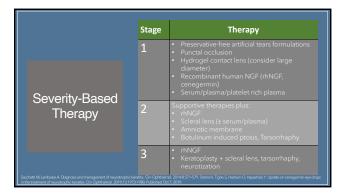
33





35 36





# Therapeutic Bandage Contact Lens

### **PROS**

- Mechanical protection
- Surface hydration

### **CONS**

- Risks
- Infection
- Hypopyon formation
- Requires frequent follow-up
- Use with caution!

Serum/Plasma Therapy

#### Serum/plasma have reported efficacy as primary or adjunct therapy

39 40

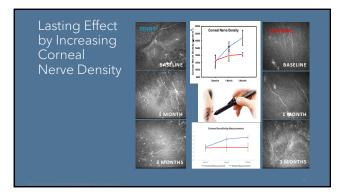
## Amniotic Membrane

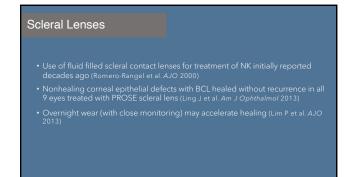
- Randomized clinical trial reported healing of refractory neurotrophic ulcers with conventional therapy (lubrication plus BCL or tarsorrhaphy) or amniotic membrane transplant (AMT). Healing rates were similar in the 2 groups: 67% with conventional therapy and 73% with AMT (Khokhar S et al. Comea 2005)

Amniotic Membrane

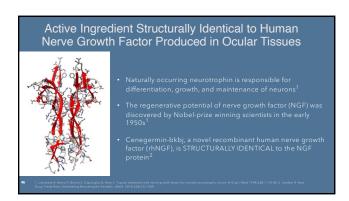
- Self-retaining or in O.R.
- Single or multi-layer graft or patch
- Heal acute defect
- Re-establish epithelial integrity
- Consider amniotic membrane extract

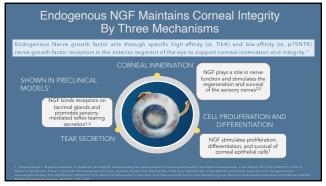




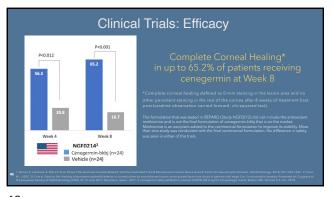


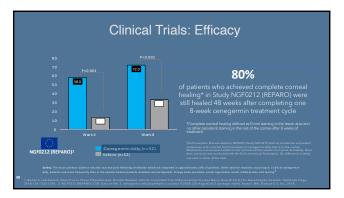


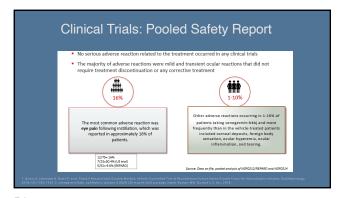


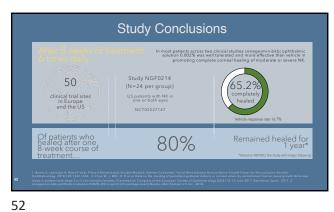






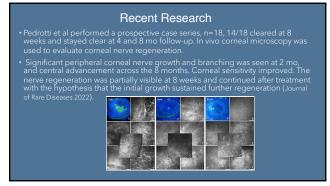


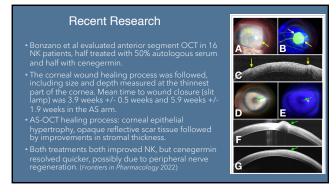


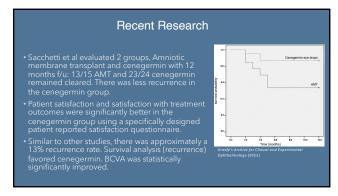


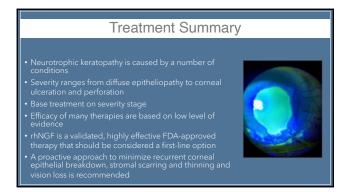
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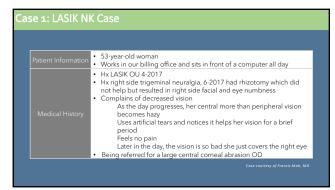


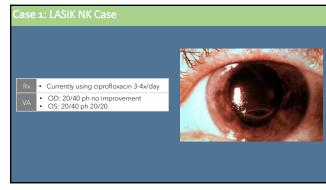




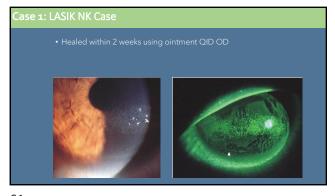


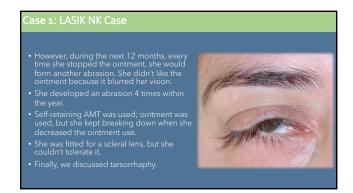
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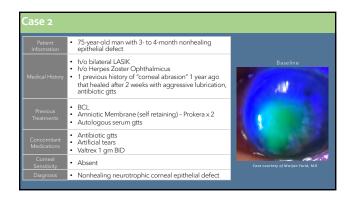


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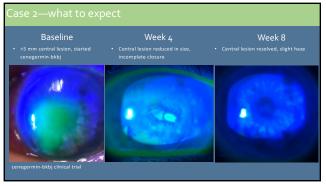




cenegermin launched in early 2019
 1/28/2019 we prescribed cenegermin 6 x a day OD
 2/11/2019 she was approved by her insurance
 2/20/2019 she started cenegermin
 2/21/2019 she saw the oculoplastic surgeon to have the tarsorrhaphy taken down
 3/20/2019 she was already healed
 6/3/2022 she remains healed on artificial tears; VA 20/25



63 64





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