

# Advancements in Therapy

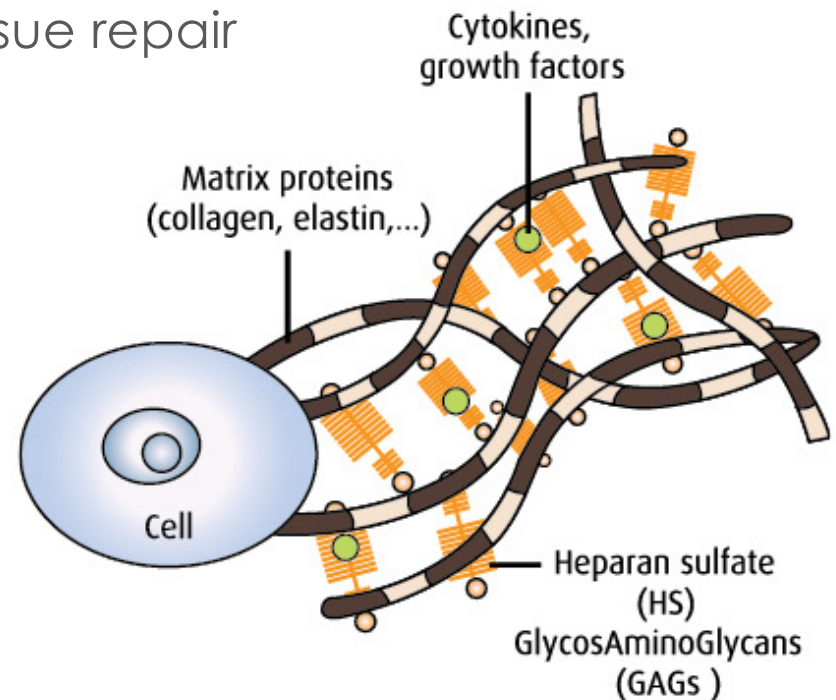
## Optixcare Eye EMS



- EMS = Extracellular Matrix Substitute

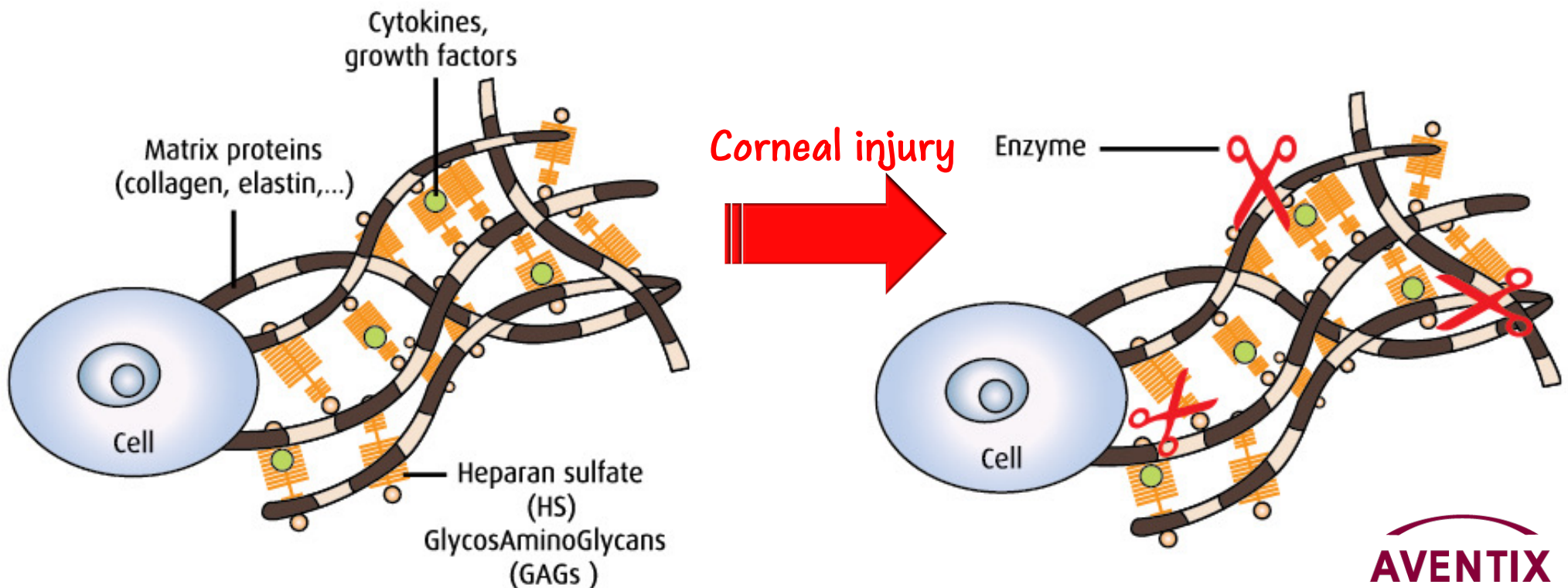
## “Matrix therapy” using RGTAs (ReGenerATing Agents)

- Targets restoring the extracellular matrix (ECM) after injury
- RGTAs mimic heparan sulfate - a key ECM component
- Improves the speed and quality of tissue repair



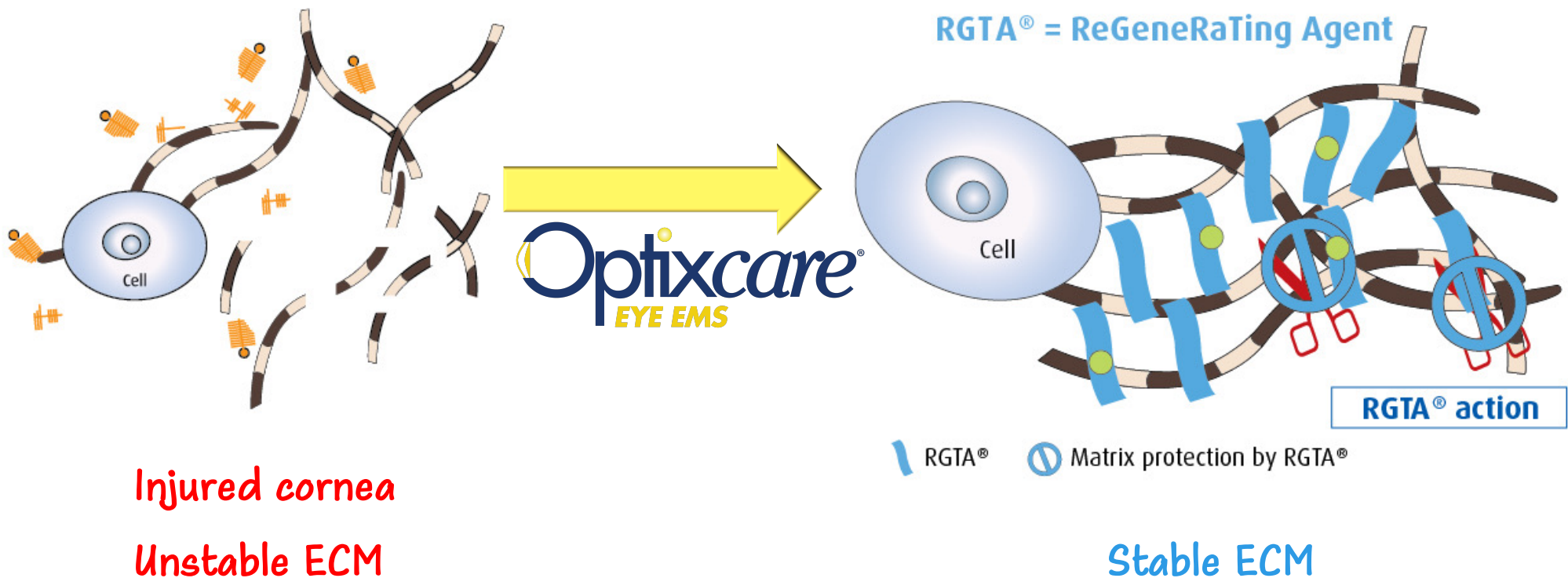
# Advancements in Therapy: Optixcare Eye EMS

- Heparan sulfate (HS) is an essential ECM component
  - Promotes & regulates cell-cell communication – binds growth factors
  - Binds & aligns ECM matrix proteins – scaffolding to support cells
- Corneal injury causes degradation of HS – destabilizing the ECM



# Advancements in Therapy: Optixcare Eye EMS

- Optixcare Eye EMS targets the unstable ECM
- RGTA mimics HS to promote stabilization of the ECM
  - RGTA resistant to proteolytic degradation
  - Protect growth factors – helps re-establish ECM communication
  - Improved healing rate, faster patient comfort



# Advancements in Therapy

- "Max" 14 yo MN Boston Terrier mix
- Hx: Diagnosed with a deep corneal ulcer ~ 1 month ago
- Tx: Tobramycin BID, Serum BID, Oculenis/Remend BID
- CC: Ulcer not improving, may need surgery

- Exam findings:
  - Fair comfort, mild scleral injection, min discharge
  - Dorsolateral paraxial 8 mm mid-stromal defect
    - Stippled Flu uptake in deepest portion
    - No infiltrate, sloping sides
    - Vascularized
  - Rest of exam WNL

- My Plan:
  - NPGram QID
  - Doxy 10 mg/kg PO x 10d
  - Optixcare Eye EMS
    - 1 drop q2d x 5 tx
  - Recheck 2 weeks



# Questions?



[www.ShelbyReinstein.com](http://www.ShelbyReinstein.com)

Thank you!



/Dr. Shelby Reinstein



## AVENTIX

