



hilltop bio

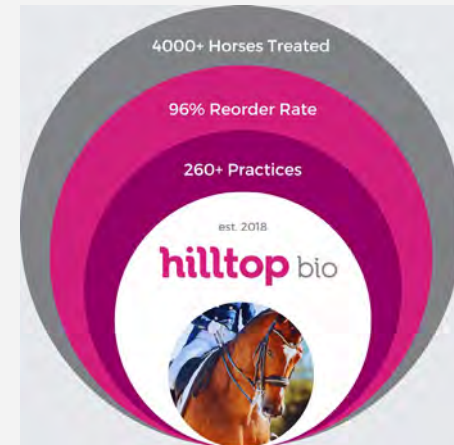
EQUUS  
FOUNDATION

# Who Are We?

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*Hilltop Bio produces the most technologically advanced, convenient, consistent, sterile, and ethically-sourced room-temperature regenerative therapies.*

- **Leader in Exosome-based Therapies**
  - Team is comprised of members who have led the charge in exosome-based therapies
- **The Hilltop Difference**
  - Customized formulas for each product
    - Upgrading/downgrading proteins, cytokines, and growth factors for each product
    - No blanket formulas
    - Not just one part of birth tissue
  - Lyophilized products
    - Stable on truck for 1 year
    - No kits or big, bulky, expensive equipment required
  - Rigorous screening, testing, and processing on front and back ends with Cornell and Harvard
- **Products for Multiple Use Cases**
  - Regenaflex-RT
  - Strydaflex
  - Regenaflex-M
  - PureOptic
  - ALV-21
  - Regenaflex-GEL



# Who Do We Work With?

## Veterinary Advisors

## Sponsored Riders

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**BEAU WHITAKER**

DVM, CERP  
Brazos Valley Equine Hospital



**CHERYL GOOD**

DVM  
Dearborn Family Pet Care



**DAN DREYFUSS**

DVM MA  
D J Dreyfuss DVM Consulting



**DUNCAN PETERS**

DVM, DACVSMR  
East-West Equine Sports Medicine



**HEATHER SHERMAN**

DVM  
John R Steele & Associates



**JENNIFER WELSER**

DVM, DACVO  
CityVet Chief Strategy Officer



**KENT ALLEN**

DVM  
Virginia Equine Imaging



**RICK MITCHELL**

DVM, MRCVS, DACVSMR  
Fairfield Equine



**SCOTT MCCLURE**

DVM, DACVS, DACVSMR  
Midwest Equine



**Lauren Knopp**



**Amanda Steege**



**Hope  
Glynn**



**Meg Kep**



**Tamie Smith**



**Liz Halliday-Sharp**



**Will Coleman**



# Regenaflex™-RT

- Soft Tissue Injuries
- Regional Limb Perfusions
- Non-healing Wounds
- Bone bruises with subchondral bone and/or concurrent cartilage trauma
- Typically quicker time to rehab and less scaring than other options



## Specifically formulated for Soft tissue Injuries

- Known composition & quantity of cytokines, exosomes, and proteins in every dose; superior to all kits
- Known size of necessary exosomes
- No refrigeration/freezing necessary
- Easy to use, off the shelf, on the truck
- No special prep: ready for every vet
- Treat immediately
- No extra equipment necessary
- No need to go intra-articular: excellent results periarticular

	Regenaflex RT	PRP	IRAP	OTHER THERAPIES	Your Cost
Reduces Treatment Time	✓	✗	✗	✗	
Off the Shelf	✓		✗	✗	
No Specialty Equipment	✓	✗	✗	✗	
No Complicated Storage	✓	✗	✗	✗	
Reduces Staff Time	✓	✗	✗	✗	
No kits needed	✓	✗	✗	✗	
No Additional Trips needed	✓		✗	✗	
No Specialized Training	✓	✗	✗	✗	

What is your time worth?

Regenaflex® RT adds to your bottom line

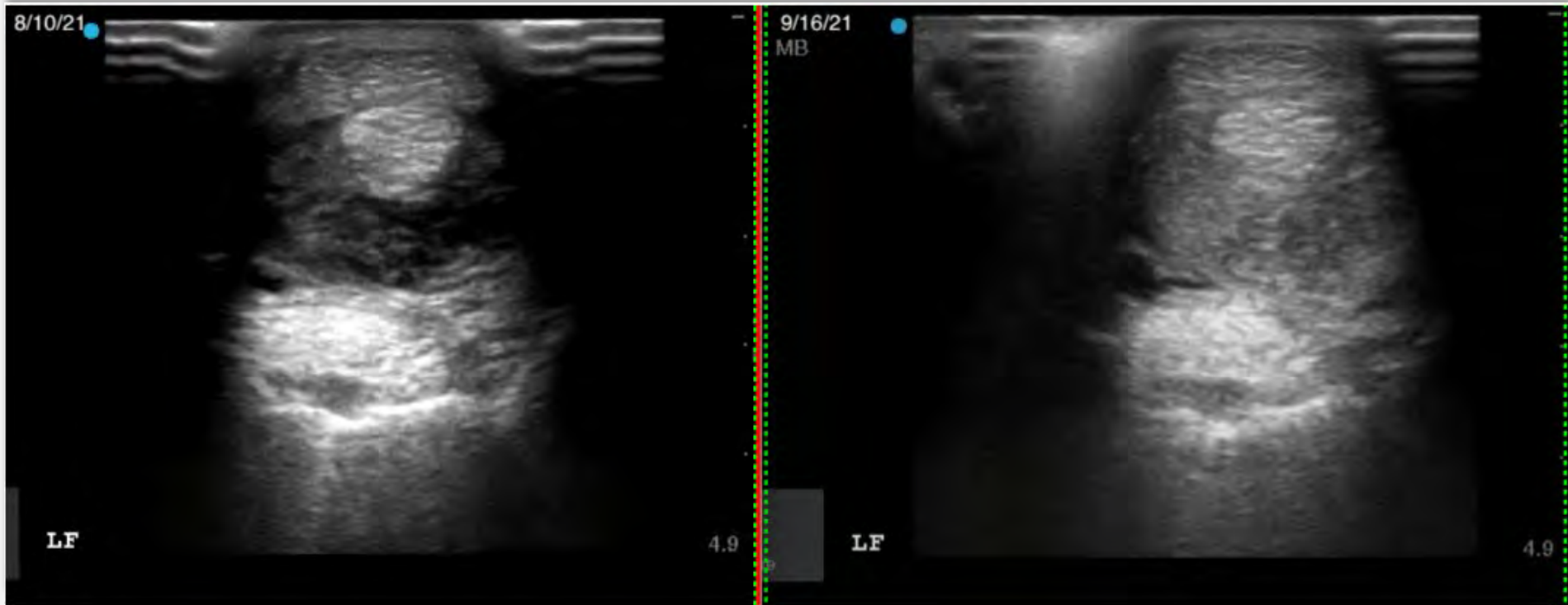
# Regenaflex™-RT Use Cases

9yo KWPN 1.15m Jumper



# Regenaflex™-RT Use Cases

9yo KWPN 1.15m Jumper

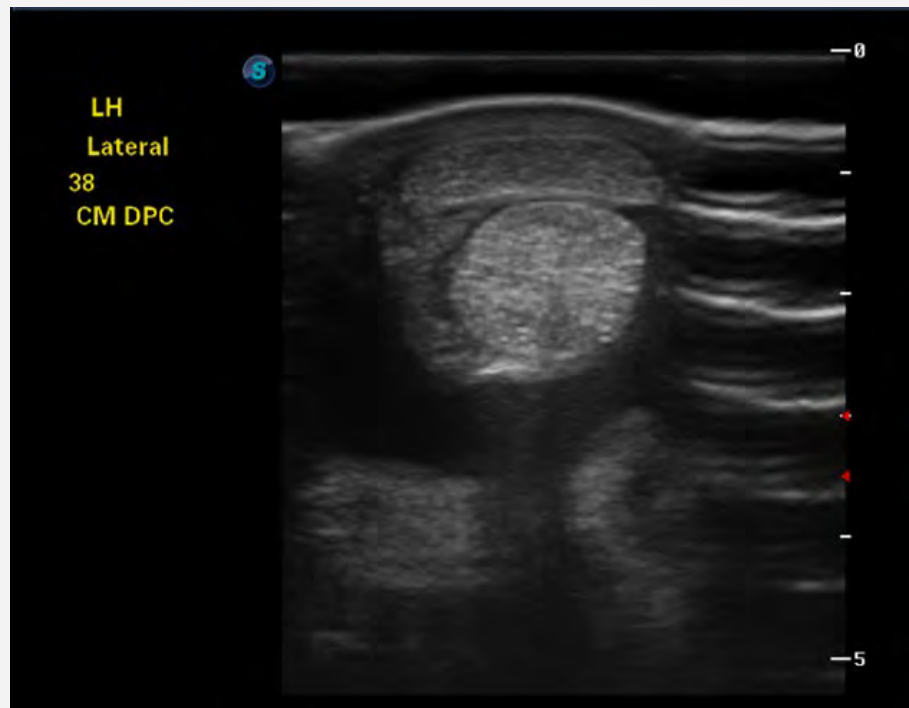
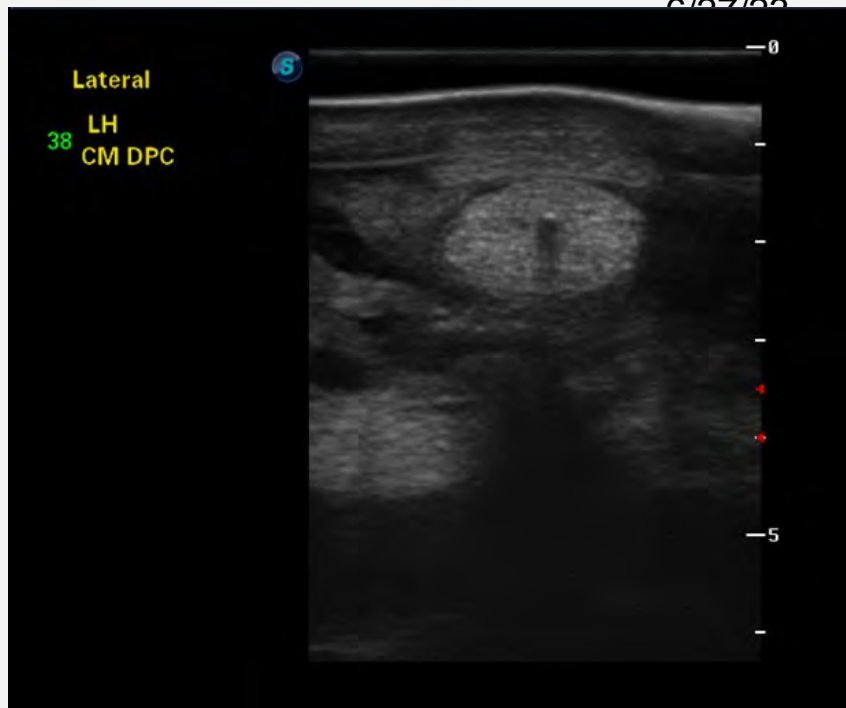


# Regenaflex™-RT Use Cases

23yo Retired Hunter - Regional Limb Perfusion - 60 and <120 day scans

5/03/23

6/07/23

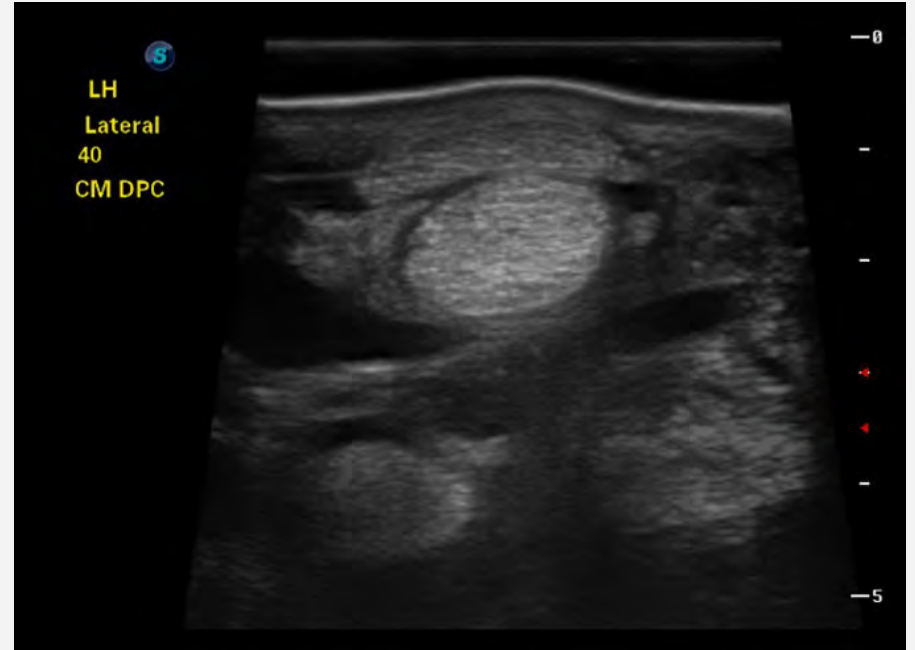
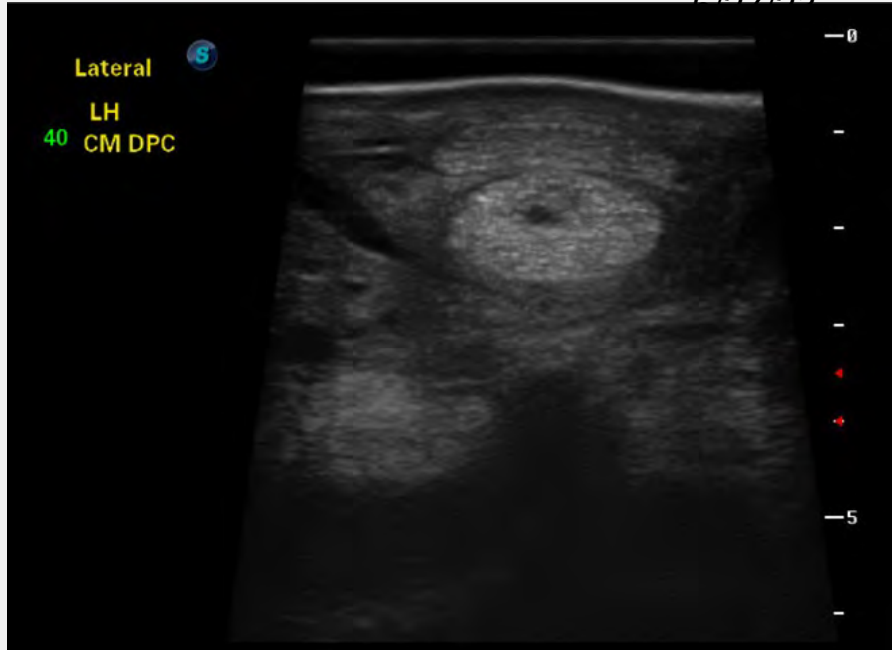


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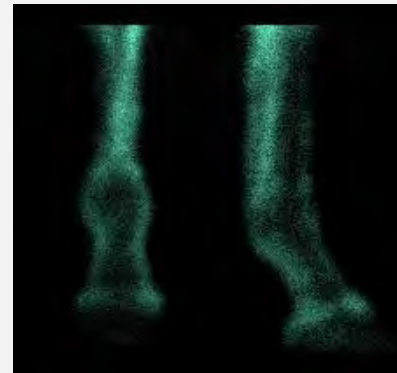
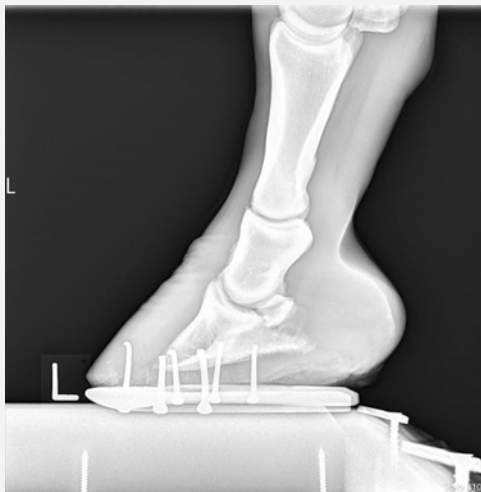
# Regenaflex™-RT Use Cases

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## Regional Limb Perfusion - 6yo Quarter Horse

### Dr. David Dutton

- RLP with Regenaflex for 30 minutes
- Better in 48 hours, more comfortable
- Clog shoe
- Doubled sole depth in <30 days
- Coffin bone isn't as dropped in the hoof capsule
- Back to normal work after 3 months
- Systemic effect on the entire body of the horse
- **100+ RLPs with 80-90% success rate**



# Strydaflex™

- Replaces your typical steroid joint injections
- Mechanism of action is related to a full spectrum of growth factors, miRNA, peptides as well as healthy extracellular matrix
- Slows the inflammatory cascade, returns the joint to a normal health status, and regenerates the synovium
- 2/80+ horses with minor heat or swelling at injection site
- Safety study published
- Excellent option for Cushing's horses



# Regenaflex™-M

- Amnion Membrane Graft
  - 6x6 cm
  - 8x10 cm
- Can be stored up to 2 years at room temperature
- First choice for external wounds, eye ulcers, or during surgical closures
- Sterile and packed in double peel pouch
- Wound is debrided, membrane placed on, covered with Telfa pad, and wrapped for 5-7 days
- Membrane will 'yellow' and absorb into the body
- More cost/time effective than suturing or everyday check ins at the farm



# Regenaflex™-M Use Cases

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**May 18**  
**July 7**

**May 18**  
**July 7**

**June 6**

Membrane tucked into laceration and sutured in



# Regenaflex™-M Use Cases

Dr. Kevin Voller of Anoka Equine initially debrided this infected post-traumatic hoof wound. Several weeks after injury, Regenaflex-M was applied on the wound. On day 14 post membrane placement, Regenaflex-RT was administered via a RLP. The hoof continued to improve and fill in.



2/24/2022



3/19/2022



6/24/2022



9/1/2022

Treated once with 2 membranes.

Pictures Provided by Emily Hood, DVM



Day 0



Day 14



Day 30



Day 166



# PureOptic eye drops

- Developed in conjunction with Dr. Dennis Brooks at Peterson & Smith
- Corneal ulcers and keratomalacia
- Can be used as drops or with eye lavage
- “amnion can be used successfully to preserve both globe structure and limited vision, as well as optimize cosmesis, in horse eyes with corneal ulceration and severe keratomalacia.” (Lassaline, Brookes, et al, 2005)
- 2 - 5ml drops reconstituted and used within 3 weeks



Chronic immune mediated keratitis. Images are 6 days between the before and after.

# PureOptic Use Cases

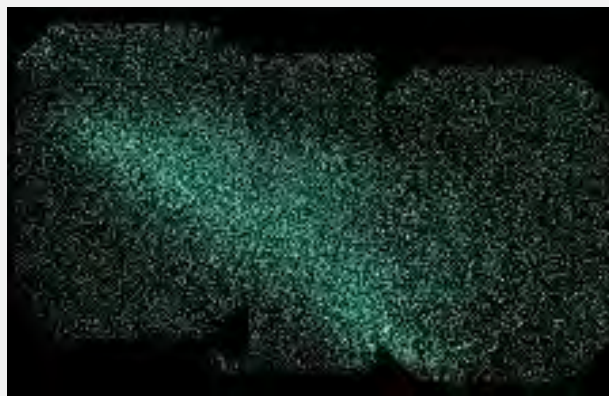
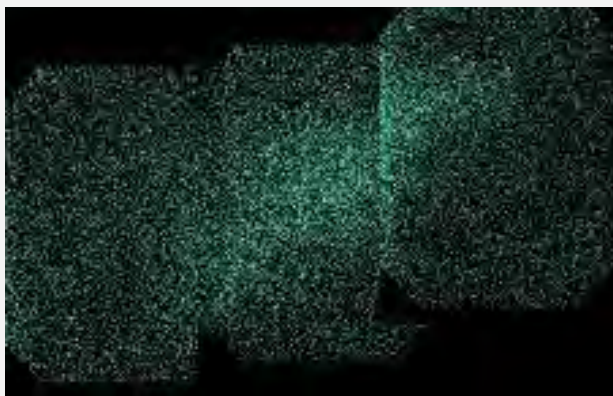
- Horse presented with corneal ulcer
- Regenaflex-M membrane graft used and lid sutured
- Doing great now



# ALV-21

- Alternative choice for respiratory health
- Can be used in conjunction with or as a replacement to Dex
- Used with nebulizer while horse is walking to accelerate and improve healing from equine respiratory diseases and travel-related coughing
- 2 - 2ml treatments one week apart reconstituted with sterile saline
- Typically one set of treatments is needed for most indications

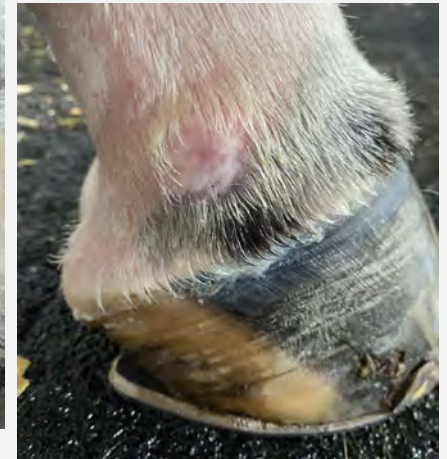
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# Regenaflex™- Gel

- Formulated specifically for summer sores and weepy wounds
- Available for veterinarians and horse owners
- Chronic 1+ year non-healing summer sore on an immunocompromised horse
- 8 weeks time frame in photos



# Regenaflex™- Gel

- Summer sore on 10yo dressage horse
- Horse was not prone to summer sores, but Florida summer has been unseasonably hot and 3 sores have popped up
- Gel applied AM and PM
- 2 months time difference



May 20



June 21



July 23