

Same Rehabilitation Protocol (Journal of Equine Veterinary Science - Volume 34, Issue 4, April 2014, Pages 556-564)

Rotation reversed in all (some completely, some partially).

Comfort restored to all. Comfort, correct movement, and exercise are critical to success with improving both rotation and sinking mechanically, and for processing carbs and breaking acute laminitis cycles. "Exercise is the best insulin buster"-Dr. K!

Clinical Outcome of 14 Obese, Laminitic Horses Managed with the

CE improved significantly in several individual cases, though as a whole averaged together, the entire study group "only" improved by about 1mm.

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Farrier/Veterinarian Teamwork is Critical

Radiographs - Management of inflammation and pain

Diagnosis – just to give you a toehold with owner compliance to nutritional changes and adequate trim/shoe cycles.

If EMS, IR or PPID diagnosis, then every bite should have less than 10% sugar + starch combined.

Diagnosis and treatment – PPID, IR, GI ulcers, really ANY ailment can/does contribute to weakness of the lamellar connection.

Mineral Balancing per NRC Guidelines Custom per forage analysis – best Balancing to regional averages – way better than guessing Buckshot Method – California Trace Plus (or similar) – often effective

Plain white loose salt – always

Vitamins E, A, limiting amino acids – especially with hay vs. grass diets Prebiotics and Probiotics – often magical stalemate breakers

Details in "Feeding the Hoof" article at Hoofrehab.com

Mechanically Speaking...

In a nutshell, to grow out hoof capsule rotation and reverse distal descent/sinking:

1) Unload the walls

Easy? But... (Lotsa Buts...)

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1) Unload the walls.

This removes the shear forces from the laminae, then allows the coronet to relax distally toward a more normal position relative to P3. This also allows better connected wall/laminae growth from the coronet, down - thus growing out hoof capsule rotation.

Perfect, right? (except that you just overloaded the solar corium)

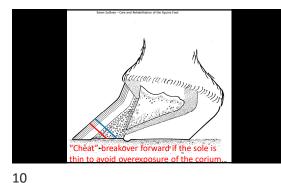
Dang.





²⁾ Protect the solar corium.

³⁾ Establish heel height by prioritizing flat and heel-first impacts.





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2) Protect the solar corium.

Sole must be either thick or protected.

For CE correction and the reversal of hoof capsule rotation, sole loading is essential, but ALL sole pressure must be released whenever the foot is in flight or otherwise unloaded!

"Protection" can include barefoot on soft terrain (depending on the current sole thickness), boots with padded insoles, tape-on pads and/or VERY thoughtful shoeing packages with tight trim/shoe cycles (ideally 4 weeks).

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Heat Fitted Breakover Mod 6mm padded insole

Power Strap

(not shown)

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at HoofRehab.com

Click "Articles"



3) Establish heel height by prioritizing flat and heel-first impacts.

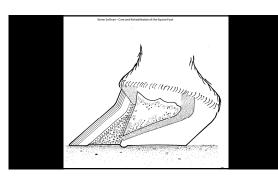
Toe-first compensation is the #1 enemy. There is basically no way to reverse hoof capsule rotation or improve CE on a horse that primarily loads toe-first.

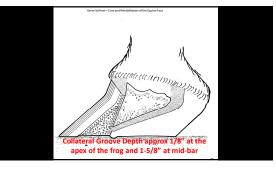
Compensation by side-loading the foot is the #2 enemy.

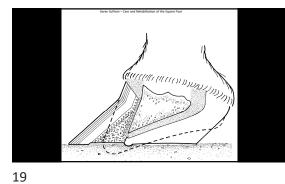
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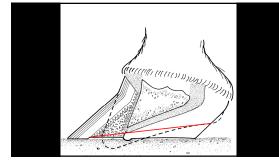


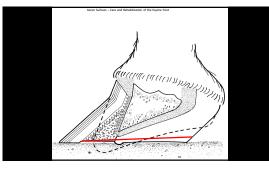


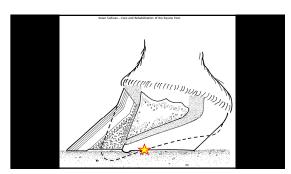


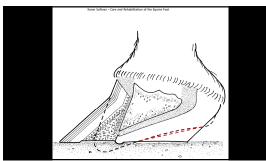


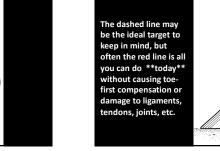




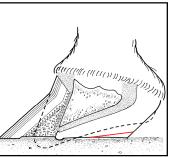


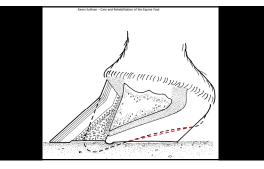


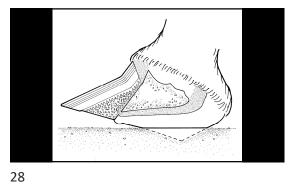


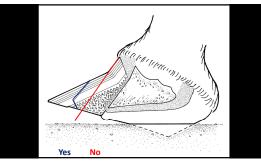


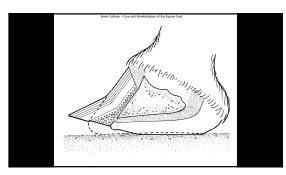


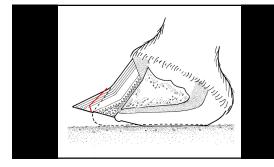






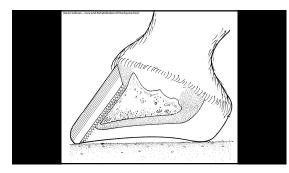


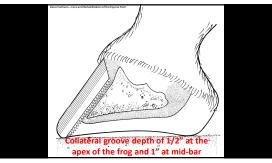




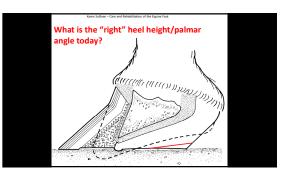




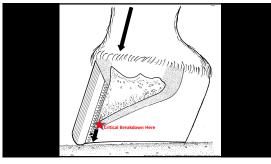




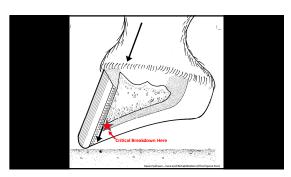








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Prioritize comfort! Prioritize correct footfalls! This is way more than being nice...

1) Exercise and voluntary movement during turnout are critical to processing carbs and thus breaking acute laminitis cycles.



2) Compensative movement wrecks everything!

With the primary goals of <u>comfort</u> and flat impacts (at walk) and flat or heel-first impacts (at faster gaits), I establish heel height/palmar angle based on:

Minimum 1/2"-5/8" (12-15mm) sole thickness – sole as a guide?
 Stance
 Movement

4) Response to <u>offer of</u> forward stretch – are the flexor muscles tight or relaxed? Do joint problems or other issues restrict extension or flexion? A higher heel may temporarily or permanently best support such issues.
5) Subjective evaluation of frog health and digital cushion integrity – Haw much frog pressur.

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7) Learning from previous mistakes with the individual foot/horse





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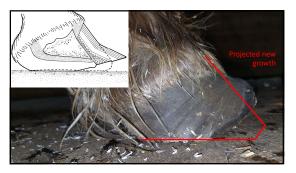
























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- 1) Minimum 1/2"-5/8" (12-15mm) sole thickness 2) Stance
- 3) Movement
- 4) Response to <u>offer of</u> forward stretch
 5) Subjective evaluation of frog health and digital cushion integrity 6) Wear pattern
- 7) Learning from previous mistakes with the individual foot/horse

The "right" heel height is a moving target.





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