

Virginia Equine Imaging
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HMT EquiTron/VEI Clinical Study Interim Summary

Horse: 13 yr old three star three day event horse

Injury: Previous injury to front origin of suspensory several years ago, going to run *** in several weeks, 1.5/5 lame, sore to palpation and heat on thermography

Shock wave therapy: 1 treatment 2,000 shocks with 35 mm probe, several days down time but horse had to be kept in conditioning program

Outcome: Horse came sound in next several weeks. Went to three day and after cross country phase at three day, was about 1.5/5 lame again. Was able to pass jog and complete and finish in top 15.

Comments: This is one of the only horses we have kept in full work but because we thought it was a mild re-injury of old problem and this was most likely this horse's last chance to run a three day, we took the chance. Shock wave therapy certainly helped this horse.

Horse: 10 yr old two star three day event horse

Injury: Large active medial splint (not fractured), horse 2/5 lame and blocks primarily to splint

Shock wave therapy: Two treatments- 1,500 shocks each. Approximately half of treatments with 5mm probe directly over splint and half with 20 mm probe angling across leg at interosseous ligament.

Outcome: Horse came sound, had one easy week of work. Went back into conditioning and completed ** three day event sound and in top 10.

Comments: Horse also was kept in some degree of work and came sound on the splint.

Horse: 12 yr old *** three day event horse

Injury: Significant soft tissue navicular diagnosed by nerve blocks and nuclear scintigraphy. Horse 2.5-3/5 lame for much of season and does not respond to coffin joint injections.

Shock wave therapy: Horse had 4 treatments of 2,000 shocks. 3 of the treatments were done through a frog that had been pared down and soaked with the 35 mm probe. The last treatment was done prior to the competition through the bulbs of the heel. This horse was unresponsive to coffin joint injections. He responded tremendously and instantly to the shockwave therapy. He would be close to sound for approximately 1 _ to 2 weeks post therapy.

Outcome: Horse came sound after final treatment but pulled up after cross country extremely lame (4/5) on other leg. When horse was worked up, it showed soft tissue navicular and strain of straight sesamoidean ligament. Due to the short term response to therapy, neurectomy or a new career was really this horse's only options.

Horse: 13 yr old **** three day event horse

Injury: Injury to hind end origin of the suspensory ligament diagnosed on nuclear scintigraphy and with diagnostic nerve blocks.

Shock wave therapy: Horse had 3 treatments of 2,000 shocks with 35 mm probe within 10 days due to horse being located extremely far away. Horse was part of study. Horse was originally 3/5 lame. One week pre- three month recheck, horse went non- weight bearing and leg was hugely swollen. Horse was diagnosed with cellulitis and treated with antibiotics. On three month bone scan, the uptake in the region of the origin was extremely intense, much more focal and intense than it had been originally. After swelling resolved, horse still 2/5 lame on that hind limb.

Outcome: Severe re-injury to hind origin of suspensory.

Comments: Suspected failure to heal or re-injury to origin of the suspensory.

Horse: 10 yr old upper level dressage horse

Injury: Overriding dorsal spinous processes in thoracic/ lumbar vertebrae.

Shock wave therapy: One treatment with 35 mm probe of 3,000 shocks spread over affected area of back.

Outcome: Fantastic. Horse has been un-usable for approximately 2 yrs. Have tried time off, injecting back and all modalities of physical therapy.

Comments: Rider reports excellent response and horse feels like old self

Horse: 10 yr old show hunter

Injury: Proximal medial splint (not fractured), horse 1.5-2/5 lame- had been blocked to splint

Shock wave therapy: Horse had 2 treatments at 3 week intervals of 1,500 shocks- half with 5mm probe directly over splint and half with 20 mm probe angled across leg to interosseous ligament.

Outcome: Horse came sound after first treatment. Was shocked one more time and was sold and is reported to be sound and doing well.

Horse: 10 yr old show hunter

Injury: Injury to front origin of suspensory

Shock wave therapy: Horse had 3 treatment of 2,000 shocks with 35 mm probe at 3 wk intervals. Horse was stalled and walked under tack in between. Horse came sound after first three weeks but was shocked 2 more times.

Outcome: Horse is currently in flat work 30 days post treatment and sound and doing well.

Horse: 12 yr old show hunter

Injury: Severe spavin or DJD of both hocks. Horse not responsive to hock injections any more.

Shock wave therapy: One treatment on both hocks of 2,000 shocks per hock spit into about 4 locations with 20 mm probe.

Outcome: Rider reports that it is best horse has felt and shown in years. Horse was shocked 3 months ago and is still doing well.

Horse: 12 yr old show hunter

Injury: Injury to origin of superior check ligament and inflammation of carpal canal.

Shock wave therapy: Horse has undergone one treatment with 20 mm probe of 2,000 shocks. Will be re-checked in 2 weeks.

Outcome: Pending.

Horse: 6 yr old horse trial horse, ex-steeple chase horse with multiple old bows on both front SDF and chronic active tendonitis

Injury: Chronic active tendonitis of both front SDF's.

Shock wave therapy: Horse has had three treatments with 5 mm probe of 1,500 shocks up and down tendon at two week intervals. Before last treatment, horse had episode of cellulitis and is currently being treated with antibiotics.

Outcome: Horse was re-ultrasounded after third treatment and the tendons were improved- slightly decreased cross sectional area and better fiber pattern alignment.

Horse will now be put back to work and will be monitored for how the tendons hold up.

Horse: 15 yr old Quarter Horse- pleasure horse

Injury: Severe high ringbone (pastern joint arthritis)

Shock wave therapy: One treatment of 2,000 shocks.

Outcome: Horse was improved for several weeks.

Horse: 10 yr old show hunter

Injury: Arthroscopic diagnosis of damage to cruciate ligament in stifle.

Shock wave therapy: Horse has been treated twice with 35 mm probe at 3 wk intervals.

Will come for third treatment. Horse was treated with leg in flexed position with ultrasound to localize ligament.

Outcome: Pending. Horse was improved after each treatment. Still on stall rest.

Horse: 5 yr old dressage mare

Injury: Large hypoechoic lesion in medial collateral ligament of stifle.

Shock wave therapy: Have done one treatment of 2,000 shocks with 35 mm probe. Will do two more treatments.

Outcome: Pending.

Horse: 16 yr old ***** three day event horse

Injury: Chronic heel soreness/ navicular pain.

Shock wave therapy: Horse had one treatment right before the three day. Horse was sound prior to running cross country. 2,000 shocks with 35 mm probe through heel bulbs.

Outcome: Horse was much sounder after cross country than usually. Was about 1.5/5 lame on that front limb

Comments: Impression was that this therapy had duration through the competition and made the horse more sound after running cross country.

Horse: 12 yr old * three day event horse

Injury: Very severe spavin or DJD of left hock, not responsive to injections, horse 3.5/5 lame

Shock wave therapy: Horse has had one treatment of 2,000 shocks with 35 mm probe in 4 different areas

Outcome: Pending

Horse: 9 yr old ** three day event horse

Injury: Subchondral bone cyst in proximal P1 and injury to inter-sesamoidean ligament, horse 1.5/5 lame

Shock wave therapy: Horse has had two treatments (one with HMT and one with Storz) with 20 mm probe and 2,000 shocks and is improved but not yet back into work. Will have one more treatment

Outcome: Pending.

Horse: 4 yr old TB racehorse

Injury: Old tarsal slab fracture and associated arthritis

Shock wave therapy: Horse had one treatment with 35 mm probe with 2,000 shocks.

Outcome: Owner reports that horse is doing better

Horse: 10 yr old upper level dressage mare

Injury: Severe desmitis of front suspensory branch

Shock wave therapy: Horse was treated 3 times in 10 days with 5 and 20 mm probes for 2,000 shocks.

Outcome: A month after therapy, the mare was not doing well.

Horse: 9 yr old hunter

Injury: Chronic inferior check ligament desmitis

Shock wave therapy: Horse was treated three times at 3 week intervals with 20 mm probe 2,000 shocks.

Outcome: Check ligament palpates improved but lameness didn't resolve. Horse was blocked and discovered to have a component of fetlock and carpus. Was a referring vets case that we did not personally block. Horse will be re-evaluated soon.

Horse: 12 yr old hunter

Injury: Moderate spavin and chronic inflammation of sacro-iliac joint.

Shock wave therapy: Both the hocks and the sacroiliac joint were treated one time.

Outcome: Was a referring vet case and have not been able to get follow-up.

Horse: 12 yr old jumper

Injury: Bilateral injury to origin of the suspensory in hind limbs.

Shock wave therapy: Horse was part of hind-end origin study so had both origins shocks with 35 mm probe at 3 wk intervals.

Outcome: Horse looked improved but was still 1- 1.5/5 lame at 3 month re-check. Will be re-evaluated at 6 months.

Horse: 10 yr old horse trial horse

Injury: Re-current injury to front origin of suspensory. Horse was diagnosed and went through period of rest- about 4 months. When put back to work, horse went lame and was re-blocked.

Shock wave therapy: Horse got two treatments of 2,000 shocks with 35 mm probe three weeks apart. Horse was still 1.5/5 lame after first treatment but was blocked to foot.

Outcome: Referring vet reports horse is sound and back in work and doing well.

Horse: 12 yr old show hunter

Injury: Old injury to biceps tendon, Old fracture of splint bone (close to head of splint). Horse had been blocked by referring vet to both and ultrasound revealed changes to bicipetal tendon. Horse was also bone scanned.

Shock wave therapy: Horse got three treatments (5 mm probe on splint and 35 mm probe on biceps tendon) on both areas three weeks apart. After both the first and second treatment, the horse improved and stayed good for about a week but then deteriorated.

Outcome: Have not yet heard how horse is doing after third treatment.

Comments: Horse had been treated 6 times with radial Swiss Doloclast unit and it had made no difference at all.

Horse: 10 yr old *** level three day event horse.

Injury: Horse had previously diagnosed with coffin joint problem but was not responded to injections. Horse was unable to complete spring three day due to lameness post cross country. After blocks and bone scan, it became obvious that we were dealing with soft tissue navicular. No changes on radiographs.

Shock wave therapy: First treatment of 2,000 shocks with 35 mm probe through pared away frog and 1,500 shocks through bulbs of heel was just performed. Horse will have one week of walking and then start coming back into light work.

Outcome: Pending.

Horse: 9 yr old **** level three day event horse

Injury: Recurrent injury to front origin of suspensory several three days ago.

Shock wave therapy: Horse has been treated twice with 2,000 shocks and 35 mm probe. He was given some down time after first treatment- about 2 weeks.

Outcome: Horse is competing in horse trials currently and will plan to do **** this fall.

Horse: 12 yr old dressage horse

Injury: Injury and inflammation to sacro-iliac joint diagnosed with nuclear scintigraphy and ruled out by numerous joint blocks.

Shock wave therapy: Horse just has undergone first treatment of 1500 shocks with 35 mm probe on E-7. Horse will be re-evaluated in several weeks.

Outcome: Pending

Horse: 15 yr old hunt horse

Injury: Fracture of third trochanter of femur. Horse has been very lame 3/5 for over a year. Has had a year off and has not come sound. Fracture was diagnosed by intense uptake of third trochanter and numerous joint blocks were performed.

Shock wave therapy: Horse just under went first treatment of 2,000 shocks with 35 mm probe. Third trochanter was localized by anatomic landmarks and ultrasound.

Outcome: Pending.

Horse: 10 yr old *** three day event horse

Injury: Radial stress fracture diagnosed by nuclear scintigraphy. Chronic SDF tendonitis. Mild hypoechoic changes on both suspensory ligaments. Horse was bone scanned.

Shock wave therapy: One treatment was

Outcome:

Comments:

Horse: 3 yr old TB racehorse

Injury: "Bucked shins" (left more severe than right), horse 2/5 LF on straight, obvious periosteal reaction on both palpation and radiographs

Shock wave therapy: Horse just had first treatment- 5 mm probe 2,000 shocks on each, could only tolerate E-7 on left

Outcome: Pending

Horse: 10 yr old *** three day event horse

Injury: Chronic back soreness both over dorsal spines in entire lumbar and thoracic region and moderate soreness in epaxial muscles, inflammation in dorsal spines evident on nuclear scintigraphy along with increase uptake in right sacroiliac

Shock wave therapy: 35 mm probe, 3,000 shocks on back

Outcome: Pending

Horse: 12 yr old hunter

Injury: Inflammation of right sacroiliac joint- evident on palpation and on nuclear scintigraphy

Shock wave therapy: First treatment was just performed- 3,000 shocks with 35 mm probe

Outcome: Pending, horse also dealing with pedal osteitis

Horse: 12 yr old jumper

Injury: RH lateral suspensory branch desmitis

Shock wave therapy: Horse had first treatment of 2,000 shocks with 20 mm probe

Outcome: Horse was doing great and was set to have two more treatments at 3 wk intervals when he developed significant diffuse swelling in leg- diagnosed as cellulitis and started on antibiotics.