

Guidance For Use - Equine

Common Equine uses of Vet-Stem Regenerative cells

| Indication | Status | Historical Results | Suggested Dosing | Related / Concurrent diseases or therapies |
|---|---|--|--|---|
| <p>Osteoarthritis</p> <p>Any localized source of OA can be treated. The root cause may or may not improve.</p> | Currently being treated by Equine Veterinarians | 70% of treated horses were able to return to their previous level of performance. | <p>One dose per affected compartment</p> <p>Repeat doses if or when needed.</p> <p>Volume per dose 2.0 mL</p> | <p>NSAIDS, HA, IRAP, nutritional supplements – OK</p> <p>Steroids – not recommended within 45 days of treatment (before or after)</p> |
| <p>Tendon and Ligament</p> | Currently being treated by Equine Veterinarians | Greater than 75% of treated horses return to their previous level of performance. Published tendon study available upon request. | <p>One dose injected directly into the lesion. Single application is typical.</p> <p>Volume per dose 2.0 mL except for seismoid ligament injuries-0.6 mL</p> | <p>PRP – with cells, before or after cells - OK</p> <p>Shockwave before cells – OK</p> <p>Shockwave after cells – not recommended for 60 days</p> <p>Steroids – not recommended within 45 days of treatment (before or after)</p> |
| <p>OCD, Cartilage Damage</p> | Currently being treated by Equine Veterinarians | Greater than 65% of treated horses have returned to work at prior level of performance. | <p>One dose per affected compartment</p> <p>Repeat doses if or when needed. 120 day intervals are common.</p> <p>Volume per dose 2.0 mL</p> | <p>NSAIDS, HA, IRAP, nutritional supplements – OK</p> <p>In conjunction with surgery – Suggested</p> <p>In conjunction with HA - Suggested</p> <p>Steroids – not recommended within 45 days of treatment (before or after)</p> |
| <p>Fractures</p> | Currently being treated by Equine Veterinarians | Studies have shown that Adipose Derived Stem Cells improve healing rate and strength of bone. References available upon request | <p>One dose in or around each fracture as soon as possible after injury.</p> <p>Volume determined by size of fracture.</p> | <p>Can be applied in conjunction with Platelet Rich Plasma or other carriers.</p> <p>In conjunction with surgery – OK</p> |

Volume for use with PRP – 0.6 mL

Guidance For Use - Equine

Compassionate Use of Vet-Stem Regenerative Cells

Veterinary clients often inquire about treatment of diseases or indications that Vet-Stem has little or no experience with. In order to promote effective use of regenerative cell therapy, and to manage expectations of horse owners Vet-Stem has developed a program for treatment of indications that require pre-approval and reporting of clinical outcomes. The following is a description of the Compassionate Use program.

- Indications or conditions that are not listed in Common Uses may be considered for Compassionate Use.
- Each indication and each case is considered individually.
- Veterinarians at clinics that have treated at least 5 orthopedic cases may submit a case for consideration in the Compassionate Use program. Not all applicants and not all cases will be accepted.
- Approval of the case is required prior to scheduling adipose collection or treatment.
- Standard Vet-Stem fees will be applied for all services.
- Historical results for Compassionate Use indications are not available and efficacy per indication is not known.
- Expectations - Horse owners must be informed that there is no evidence that the treatment will be effective.

Frequent misunderstandings about use of Vet-Stem Regenerative Cells

The following indications are not recommended for treatment because Vet-Stem has no clinical experience or research to support use in these conditions. Vet-Stem advises against treating animals that have no other treatment options in hope of a “miracle” cure. Our belief is that in some cases this will lead to disappointment and frustration related to unrealistic expectations and untested use of this new and developing technology.

Vet-Stem does not recommend treatment of these conditions due to lack of evidence that cell based therapy will be effective.

- Wobbler’s Syndrome
- Spinal cord injury
- Navicular disease
- Cushings
- Ocular injury or disease
- Ringbone-Extra-articular bony proliferation

Use of Vet-Stem Regenerative Cells Contraindicated

- Active cancer or tumor of undetermined type
- Active infection in the animal to be treated

Vet-Stem will hold (quarantine) cells after tissue processing if there is an indication that contraindicated conditions are present in the animal to be treated or the tissue submitted for processing. Cells will be released for use only if or when these issues have been resolved.