

Guidance For Use – Small Animal

Common Canine and Feline uses of Vet-Stem Regenerative cells

Indication	Status	Historical Results	Suggested Dosing	Related / Concurrent diseases or therapies
Osteoarthritis Any localized source of OA can be treated.	Currently being treated by Small Animal Veterinarians.	70-80% of treated canines show some improvement lasting 2 months or longer. Published studies available. Similar results are expected for felines.	One dose per joint. IV dose may be indicated if multiple joints are involved. Repeat doses if or when needed.	Hip dysplasia, elbow dysplasia – will not correct joint laxity. Usually reduces pain and improves range of motion. NSAIDS, nutritional supplements, acupuncture, low level laser, magnet, IR – OK Steroids – not recommended within 45 days of treatment (before or after)
Polyarthritis and Immune Mediated Arthritis	Currently being treated by Small Animal Veterinarians.	70-80% of treated canines show some improvement lasting 2 months or longer. Similar results are expected for felines.	One IV dose. Repeat doses if or when needed.	NSAIDS, nutritional supplements, acupuncture, low level laser, magnet, IR – OK Steroids – not recommended within 45 days of treatment (before or after)
Tendon and Ligament	Currently being treated by Small Animal Veterinarians.	Experience in treatment of equine tendon and ligament injuries has resulted in greater than 75% return to previous level of performance. Canine results are expected to have similar results to equine.	One dose injected directly into the lesion. Single application is typical.	Complete tear – not recommended Partial tear - OK In conjunction with surgery – OK Steroids – not recommended within 45 days of treatment (before or after) Shockwave before cells – OK Shockwave after cells – not recommended for 60 days
OCD, Cartilage Damage	Currently being treated by Small Animal Veterinarians	Greater than 65% of treated horses have returned to work at prior level of performance. Similar results are expected for small animals.	One dose per joint Repeat doses if or when needed. 120 day intervals are common in equine.	NSAIDS, HA, IRAP, nutritional supplements, low level laser, magnet, IR – OK In conjunction with surgery – Suggested In conjunction with HA - Suggested Steroids – not recommended within 45 days of treatment (before or after)
Fractures	Currently being treated by Small Animal Veterinarians.	Studies have shown that Adipose Derived Stem Cells improve healing rate and strength of bone.	One dose in or around each fracture as soon as possible after injury.	In conjunction with surgery – OK Shockwave before cells – OK Shockwave after cells – not recommended for 60 days

Volume for intra-articular or intralesional injection is 0.6 mL

Volume for intravenous injection is 5.0 mL

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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 pet 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 currently included in training programs 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 products and services.
- Historical results for Compassionate Use indications are not available and efficacy per indication is not known.
- Expectations - Pet 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.

- Degenerative myelopathy or other neurological disorder
- Spinal cord injury
- Cardiac disease
- Diabetes
- Ocular injury or disease

Contraindicated use of Vet-Stem Regenerative Cells

- 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.