

Regenerative Stem Cell Therapy

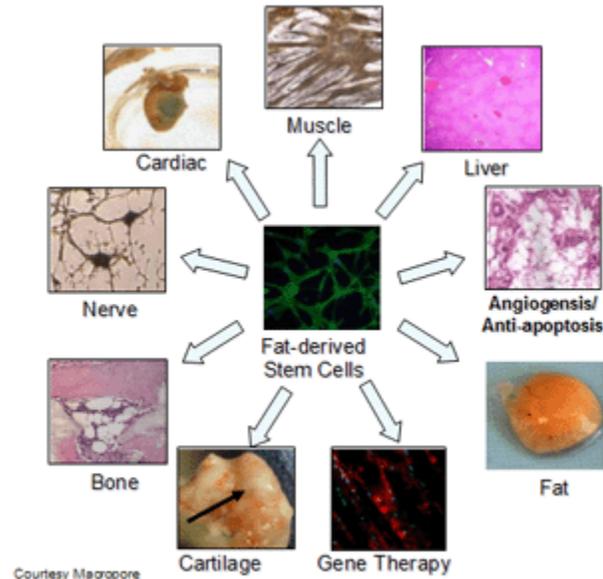
What are Stem Cells?

Stem Cells are precursor cell that can develop into almost any cell type in the body. They have benefits in

- Improving healing
- Decreasing pain
- Decreasing inflammation
- Treating some diseases

How do we obtain the Stem Cells?

- One of the richest tissues in stem cells are body fat.
- A brief surgical procedure can harvest the fat
- The sample is sterily prepared and sent to Vet-Stem laboratory in California
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What does the collection mean for my pet?

- Brief general anesthesia
- A 4-6 cm incision behind the sternum
- The incision is made numb, and appropriate pain medication is provided
- No running, jumping, play for 2 weeks

Why treat with Stem Cells?

- Proven and most commonly used in
 - Arthritis
 - Decrease risk/need for surgery
 - Decrease use of medications and their associated potentially side-effects
 - Healing of bone, tendons, muscle and ligaments
- Benefits reported with
 - immune-mediated disease
 - Inflammatory bowel disease
 - Kidney disease

- Cartilage damage
- Congenital
- Trauma
- Cerebral Infarction (stroke)
- Peripheral thrombosis/infarction
- Under research for use
 - Liver
 - spinal problems
 - other neurologic disease
- Stem Cells banked for the life of your pet

Why bank Stem Cells before you need them?

- Stem Cells are most robust and numerous in younger animals
- An easy addition to an elective procedure such as a spay or neuter, or any other elective procedure
- Don't have to add costs of surgery and anesthesia, or undergo another procedure at an older age

What does it cost?

- Harvesting and banking of stem cells
 - \$450 add-on to another surgical procedure
 - Initial cost includes first year of banking
 - \$50/year banking for life of pet
- Harvest and treat directly (inject 48 hours post-harvest)
 - \$1800-2000 as an add-on to another procedure (including second sedation and treatment)
- Dr. Christiansen can discuss all options for the short and long-term at a consult.

Are there any side effects?

- Since it is the patient's own cells, there is no inflammatory reaction
- No systemic adverse events reported and < 0.5% local tissue reactions

What about practices that process/prepare Stem Cells in-hospital and are a lot less expensive?

- Vet-Stem samples
 - Prepared in a sterile environment
 - No pets or their waste products are in the facility
 - Dedicated and specially trained technicians and staff performing harvesting, counting, and dosing
 - Lifelong service and customer care



- In-hospital kits
 - Poorer quality control
 - May result in inferior samples
 - Potentially greater risk of infection (which can be crippling or even fatal)

For further information, please review the [Vet-Stem website](http://www.vet-stem.com/) - <http://www.vet-stem.com/>