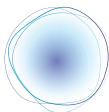


# Stem Cell Therapy

For the Treatment of

**Lameness, Arthritis, Tendonitis**

When they can no longer get  
up to their old tricks...



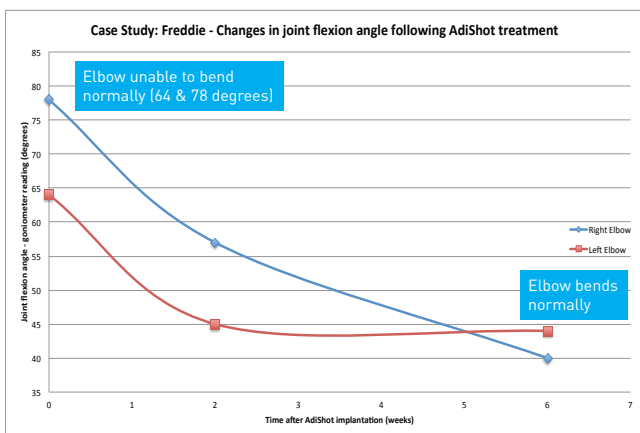
**cell therapy**  
sciences

Developing Regenerative Medicine for Pets

# Case Reports and Testimonials

Dog owners and vets often send us information about their pets or their patients after AdiShot treatment. You can read some of these stories on our website, [www.celltherapysciences.co.uk/gallery](http://www.celltherapysciences.co.uk/gallery). Here are just two examples:

**Freddie** had painful arthritis. His elbows were very stiff, he could not bend or flex them - and he struggled to lie down or to stand up. Within 6 weeks of receiving AdiShot stem cell injections, Freddie could flex and bend his elbows normally and he was able to lie down and get up again much more easily, without the pain he had before. His owner said Freddie was a much happier dog!



**Cassie:** "As Cassie's owners we are delighted at the results of the stem cell therapy. We now have a happy healthy dog who is no longer limited by severe joint pain. Before stem cell therapy Cassie lacked muscle tone especially on her rear flanks and her front elbows stuck out giving the appearance of being bow-legged. **After the stem cell therapy** she started to run and gallop, her eyes look brighter and more alert. She is a happier more relaxed dog - and the muscle tone has improved in her rear flanks and her front legs have straightened."

# What is AdiShot?

AdiShot is a unique form of adipose-derived stromal cell ("stem cell") therapy, which can be used to relieve pain, reduce inflammation and repair some of the damage caused by osteoarthritis. This therapy can also be used to improve healing of soft tissue damage, to treat certain back problems - and to help a number of medical conditions where conventional medicine has been unable to help your pet.

By using cutting-edge technology, our team of stem cell experts can carefully extract your dog's own stem cells from a small sample of fatty tissue taken from under their skin. Your vet will perform a simple surgery to remove some fat (about one heaped teaspoonful) and to take a blood sample from your dog.

In our specialised laboratory, your dog's stem cells will be placed into an enriched growth medium and incubated in special flasks, where they will divide to form many millions of these amazing little regenerative cells. Our scientists check on the cells every day and nurture them to ensure they are perfect stem cells - and when they reach their peak, our stem cell team will produce a tailor-made therapy, which is unique for your dog. The stem cells will be preserved at cryogenic temperatures and stored, ready to be returned to your vet clinic for injection on a convenient date



# What are stem cells

## and how do they work?

Adult stem cells occur naturally in the body and have the ability of self-renewal with the potential to change into a range of different tissue types, including muscle, cartilage and bone. Adipose tissue is known to be a very rich source of stem cells.

These regenerative cells are essentially the body's own repair kit! They move to damaged tissue, where they settle in and around the injured area, release chemical signals which reduce inflammation and pain, attract other healing cells in the body to come to the damaged area and start the process of active tissue regeneration.

### **Are there any side effects with stem cell treatment?**

AdiShot stem cells are your dog's very own cells ("autologous cells") and many studies have shown that autologous cells are safe and well-tolerated when injected into joints or soft-tissues. All injections are prepared under fully sterile conditions and we have safety data on more than 2,500 treatments. The injection procedure itself sometimes causes a little discomfort, but this will pass quickly.



AdiShot provides an advanced yet natural and safe therapy in which more than 2 million of these extraordinary regenerative cells will be implanted into each damaged joint via an injection, to be given by your vet.

# What benefits

can I expect for my dog? <sup>1,2</sup>

Reduced levels of pain, happier dogs and an improved willingness to walk and play should be the first changes you will see during the first three weeks after stem cell therapy.

The effects of treatment have been shown to improve over time, with the best results achieved two to three months after administration of the stem cells. Several studies have shown these effects to be long lasting - for at least six months and in many cases for more than 18 months. Most dogs are able to reduce their reliance on pain relief medication during this time. Repeat injections or "top-ups" do not need another fat harvest as we keep spare cells!



## The main benefits include <sup>1,2,3</sup>

- Less pain and less difficulty when rising
- Reduced lameness and increased mobility
- Extra stem cells are stored for your dog - just in case they need a "top-up" later in life.



- Is your dog slowing down ...or having trouble running and jumping ?
- Does your dog have trouble climbing stairs - or even getting up after lying down for a while?
- Does he have lameness or joint stiffness?

Your dog may have arthritis or perhaps a soft tissue injury. This vet clinic offers stem cell therapy for the treatment of these conditions.

## How do I find out more information?

Please contact your vet to find out whether stem cell therapy - or perhaps PRP - could be a suitable treatment choice for your pet.

t: **07939 587953 or 02476 323217**

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**References:** [1] Ferguson R. The use of allogeneic adipose derived mesenchymal stem cells in small animal practice. *Proceedings of the Australian Veterinary Association (AVA) Annual Conferences, 2012 AVA Annual Conference, Canberra, May 2012.* [2] Data on file CTSL [3] Vilar, Jose M., et al. "Controlled, blinded force platform analysis of the effect of intra-articular injection of autologous adipose-derived mesenchymal stem cells associated to PRGF-Endoret in osteoarthritic dogs." *BMC veterinary research* 9.1 (2013): 131