

ALLOGENEIC TREATMENTS AND AUTOLOGOUS TREATMENTS

There are two types of treatments using Adipose Derived Stem Cells (ADMSC).

- Allogeneic Treatments** Treatments are based on using high concentration pure stem cells cultured from cells sourced from selected donor animals.
- Autologous Treatments** - based on use of the stromal vasculat fraction (SVF). The SVF is isolated from adipose tissue from the animal being treated. The procedure requires that tissue is first surgically removed from the animal being treated. Pure stem cells are derived from the SVF.

Advantages of allogeneic cell use:

Allogeneic treatments mean cells are obtained from healthy young donor animals which tend to have a lower propensity towards the disease being treated. Studies have shown these cells to be more effective than those from animals already diagnosed with the condition to be treated.

Donor stem cells can be provided in large numbers, giving the maximum effect. Mesenchymal stem cells (MSCs) have special characteristics in that they do not produce an immune response to a foreign (allogeneic) protein due to their anti-inflammatory capabilities.

Benefits to a veterinarian of allogeneic off the shelf procedures are:

Reduced procedure time. No need to first surgically remove tissue from the animal being treated. This can be important in lessening any risks associated with anaesthetics in older animals..

Ease of administration. Allogeneic treatments can be given IV for polyarthritis. For other modes of administration (eg. intra-articular), sedation, or a short general anaesthetic may be needed.

Stem cell treatments have shown outstanding results. The majority of dogs treated for osteoarthritis, have shown both short term and ongoing benefits. Owners report a clear and noticeable improvement in their dog's quality of life.