



Laser therapy has become a part of Avondale Veterinary Healthcare Complex's pain control protocols and wound care (both surgery and trauma). A course of three to seven treatments is normally prescribed for chronic ailments. Typically three treatments are done for the first week followed by two the second week. Patients return for one treatment each the third and fourth weeks.

We are proud to be the first veterinary practice in the state to be using the FDA approved Class IV Companion Therapy Laser. Please call us to discuss how this new technology may be utilized to benefit your patients.

Clinical studies and trials of laser therapy technology indicate the following beneficial effects of laser therapy on tissues and cells:

Anti-Inflammation. Laser Therapy has an anti-edema effect as it causes vasodilatation, but also because it activates the lymphatic drainage system (drains swollen areas). As a result, there is a reduction in swelling caused by bruising or inflammation.

Anti-Pain (Analgesic). Laser Therapy has a high beneficial effect on nerve cells which block pain transmitted by these cells to the brain and which decreases nerve sensitivity. Also, due to less inflammation, there is less edema and less pain. Another pain blocking mechanism involves the production of high levels of pain killing chemicals such as endorphins and enkephalin from the brain and adrenal gland.

Accelerated Tissue Repair and Cell Growth. Photons of light from lasers penetrate deeply into tissue and accelerate cellular reproduction and growth. The laser light increases the energy available to the cell so that the cell can take on nutrients faster and get rid of waste products. As a result of exposure to laser light, the cells of tendons, ligaments and muscles are repaired faster.

Improved Vascular Activity. Laser light will significantly increase the formation of new capillaries in damaged tissue that speeds up the healing process, closes wounds quickly and reduces scar tissue. Additional benefits include acceleration of angiogenesis, which causes temporary vasodilatation, an increase in the diameter of blood vessels.

Reduced Fibrous Tissue Formation. Laser Therapy reduces the formation of scar tissue following tissue damage from cuts, scratches, burns or surgery.

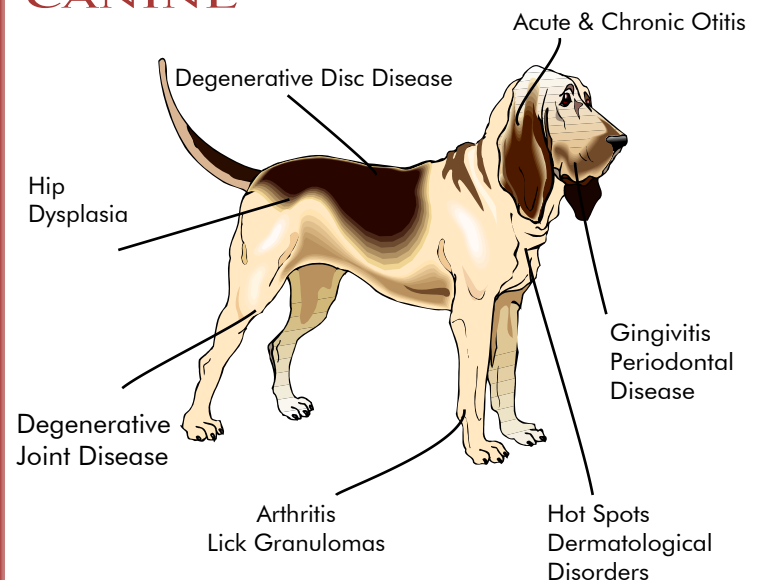
Improved Nerve Function. Slow recovery of nerve functions in damaged tissue can result in numbness and impaired limbs. Laser light will speed up the process of nerve cell reconnection and increase the amplitude of action potentials to optimize muscle action.

Faster Wound Healing. Laser light stimulates fibroblast development (fibroblasts are the building blocks of collagen, which is predominant in wound healing) in damaged tissue. Collagen is the essential protein required to replace old tissue or to repair tissue injuries. As a result, Laser Therapy is effective on open wounds and burns.



Applications include, but are not limited to:

CANINE



FELINE

