



## THERAPEUTIC LASER TREATMENT AT VALLEY VETERINARY HOSPITAL

We are now able to offer healing and pain relief treatment using our new K Laser therapeutic laser. Light therapy has many applications and documented beneficial effects including relief of pain from arthritis, reduction of swelling and pain from trauma, and promoting the healing of wounds of all types. Laser therapy provides a safe and effective alternative to currently used pain medications, and in some cases can reduce or eliminate the expense and side effects of other pain medications

The cost for laser treatment is as follows:

Initial treatment 1 site: \$40

Each additional site (max 3): \$10

We are also offering discounted prepaid treatment plans as follows:

### **Three Treatment Plans (10% Discount)**

Prepaid Three Treatment Plan 1 site	\$ 108
Prepaid Three Treatment Plan 2 sites	\$ 135
Prepaid Three Treatment Plan 3 sites	\$ 162
Prepaid Three Treatment Plan 4 sites	\$ 189

### **Six Treatment Plans (20% Discount)**

Prepaid Six Treatment Plan 1 site	\$200
Prepaid Six Treatment Plan 2 sites	\$240
Prepaid Six Treatment Plan 3 sites	\$288
Prepaid Six Treatment Plan 4 sites	\$336

Most patients will experience noticeable improvement in their signs after 2-3 treatments. Following the initial 6 treatment series, individuals may require treatment at 2 -6 week intervals to maintain the beneficial effects.

\*\*In the event that treatment is discontinued due to lack of a response or for any other reason, a prorated refund will be made for unused portion of the plan.



## Top Ten Biological Effects of Laser Therapy

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

1. **Anti-Inflammation.** Laser Therapy has an anti-edema effect as it causes vasodilation, 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.
2. **Anti-Pain (Analgesic).** Laser Therapy has a very beneficial effect on nerve cells by blocking pain transmitted by these cells to the brain and decreasing 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, enkephlins, and opioids from the brain and adrenal gland.
3. **Accelerated Tissue Repair and Cell Growth.** Photons of light from lasers penetrate deeply into tissues and accelerate cellular reproduction and growth. The laser light also increases the energy available to the cell by increasing ATP production so that the cell can take on nutrients faster and get rid of waste products. As a result of exposure to laser light, all cells, including the cells of tendons, ligaments and muscles are repaired faster.
4. **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 tissues. In addition to angiogenesis, there is causes temporary vasodilatation, an increase in the diameter of blood vessels.
5. **Increased Metabolic Activity.** Laser Therapy creates higher outputs of specific enzymes, greater oxygen and food particle loads for blood cells.
6. **Trigger Points and Acupuncture Points.** Laser Therapy stimulates muscles trigger points and acupuncture points on a non-invasive basis providing musculoskeletal pain relief.
7. **Reduced Fibrous Tissue Formation.** Laser Therapy reduces the formation of scar tissue following tissues damaged from cuts, scratches, burns, or surgery.
8. **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 axonal regeneration, nerve cell reconnection, and increase the amplitude of action potentials to optimize muscle action.
9. **Immunoregulation.** Laser light has a direct effect on immunity status by stimulation of immunoglobulins and lymphocytes. Laser Therapy is absorbed by chromophores (molecule enzymes) that react to laser light. The enzyme flavomono-nucleotide is activated and starts the production of ATP (adenosine-tri-phosphate), which is the major carrier of cell energy and the energy source for all chemical reactions in the cells.
10. **Faster Wound Healing.** Laser light stimulates the 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 repair tissue injuries. As a result, Laser Therapy is effective on open wounds and burns.

For additional information, please visit [www.k-laser.com](http://www.k-laser.com) and (veterinary website) [www.spot-check.com](http://www.spot-check.com)

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