

Ask us about laser surgery for your pet!



What is a CO₂ laser?

The Aesculight CO₂ laser is a device that produces a concentrated beam of light. The highly focused CO₂ laser beam vaporizes cleanly and precisely, while sealing blood vessels at the same time. Years of experience in veterinary and human medicine went into the design of this laser system, which was made to provide superior care for pets.

Our laser is so precise that we can selectively remove only a few cells at a time, if needed. At the same time, it is powerful enough to de-bulk large tumors.



Find out more at
Aesculight.com



Aesculight[®]

CO₂ LASER SURGERY

FOR

BRACHYCEPHALIC
OBSTRUCTIVE AIRWAY
SYNDROME (BOAS)



Our office utilizes the latest CO₂ laser technology from Aesculight. This brochure will help you better understand our laser.

Aesculight Laser Procedures

Canine Stenotic Nares Repair (no sutures)



Before



Immediately After
*Note lack of bleeding

Canine Stenotic Nares Repair (with sutures)



Before (with preliminary
laser markings)



Immediately After

Feline Stenotic Nares Repair

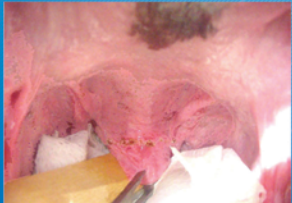


Before



Immediately After
*Note lack of bleeding

Elongated Soft Palate Resection

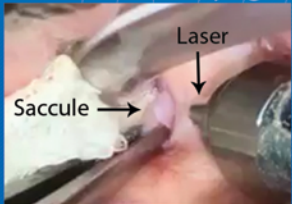


Before (with preliminary
laser markings)



Immediately After
*Note lack of bleeding

Everted Laryngeal Saccules Excision



In Progress



Immediately After
*Note lack of bleeding

Clinical images are courtesy of Christopher J. Winkler, DVM, VMLSO, Dip. ABLS; Ziemowit Kudla, DVM; Gary D. Newsworthy, DVM, Dipl. ABVP (Feline); Ray Arza, DVM

What are the advantages of Aesculight laser procedures?

- **Minimized Bleeding:** As it vaporizes the tissue, the Aesculight laser seals small blood vessels. The resulting reduction in bleeding makes procedures quick and easy. In many cases, no sutures are required.
- **Less Swelling and Discomfort:** The Aesculight CO₂ laser beam seals lymphatics, resulting in less postoperative swelling and discomfort associated with traditional scalpel procedures.
- **Reduced Risk of Infection:** The sanitizing effect of the laser reduces the risk of infection and means faster healing.
- **Shortened Procedure Time:** Less bleeding results in the improved visibility of the treatment area. The surgeon and the team don't have to spend as much time trying to control the bleeding, and as a result, the duration of the procedure is reduced.
- **Faster recovery:** Reduced trauma, minimized bleeding, less pain and swelling, and shorter periods of anesthesia make laser surgery a better alternative to a scalpel.
- **Advanced laser tools mean better results:** The lightweight ergonomic handpieces and flexible fiber waveguide of the Aesculight CO₂ laser allow for enhanced precision with pin-point accuracy. In addition, Aesculight accessories facilitate procedures in difficult to reach places.

Experts on CO₂ laser surgery:

"The main advantages of the CO₂ wavelength technology for soft tissue surgery include reduced tissue trauma, precise dissection, sterilization of the tissue surface, reduced operative hemorrhage, quickened healing and reduced post-operative pain. My clients regularly comment on how good the surgical sites look."

Robert Fleck, DVM
Rainland Farm Equine Clinic, Woodinville, WA

"Laser surgery is one such tool with which doctors are able to ensure a less unpleasant surgery. With laser, there is less bleeding, less pain and less swelling both during and after the surgery. Laser surgery involves using a laser beam instead of a scalpel blade to cut the tissue.

... In areas where the chances of bleeding are high and there is not enough tissue to place sutures to control the bleeding, the use of laser is very helpful. Examples ... would be a mass in the ear pinna or on the eye lids, or a soft palate excision. Other surgeries with which the laser is beneficial include stenotic nares correction (to adjust complications in the airway), the removal of distichiasis (which are eyelashes growing on an abnormal location of the eyelid, or growing in an unusual direction), and anal sacculectomy (the removal of a pet's anal glands).

Using laser in surgeries provides many benefits, and often makes many surgeries proceed quickly and more smoothly.

North Town Veterinary Hospital
Brampton, ON, Canada