

A special advertising section

# How to remove aural polyp with flexible-fiber CO<sub>2</sub> laser

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For The Education Center

**B**aby Girl, a 12-year-old spayed female domestic shorthair feline, presented to our south Florida practice for chronic recurring otitis externa. Previous otic aerobic cultures were submitted and treated appropriately. The otitis would subside for a short period and then recur.

Due to the severity of the otitis externa, along with swelling and bleeding, it was difficult to fully evaluate the suspected ear polyp within the ear canal without sedation.

## First Steps

The patient was sedated with butorphanol, propofol and isoflurane anesthesia after preoperative ECG, abdominal and chest radiographs, and CBC/Biochem/UA/T4 were found to be acceptable for anesthesia.

Video otoscopy, performed with an OtoPet MedRX unit, allowed full visualization of the ear canal and aural polyp (**Figure 1**).

For the surgery, we used an Aesculight flexible-fiber CO<sub>2</sub> laser (model AE-2010). The laser was equipped with a 180-millimeter-by-0.8-millimeter metal laser tip (**Figure 2**), which facilitated the laser ablation of the polyp. The laser was set to 8 watts, with repeat pulsing at a 20-millisecond pulse width and 20-Hz repetition rate (**Figure 3**).

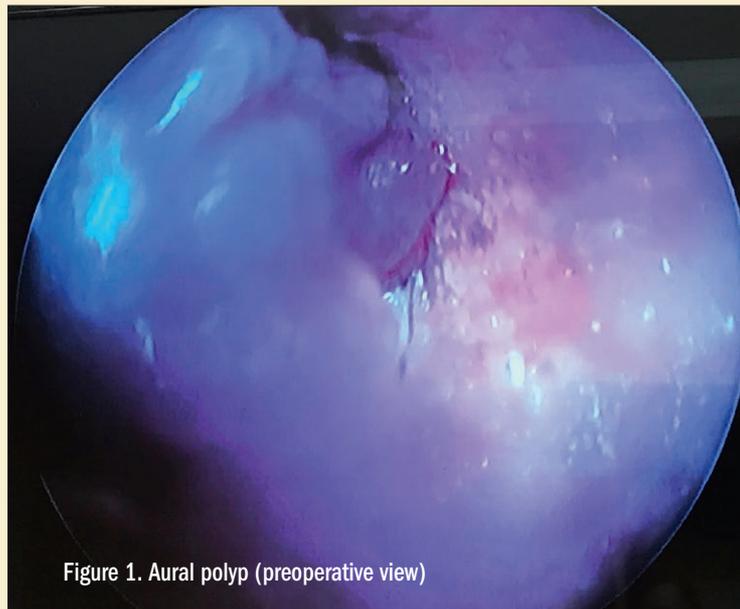


Figure 1. Aural polyp (preoperative view)

## After Surgery

The pet owner declined an analysis of the suspected polyp as well as an aerobic culture. The patient was given an injection of Metacam and Convenia, and was sent home with oral Buprenex for pain control.

Postoperatively, the ear canal was treated with a 14-day time-released otic suspension of Baytril, trimethoprim and ketoconazole. The progress exam 27 days after the laser ablation of the polyp showed good healing (**Figure 6**). ●

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*This Education Center article was underwritten by Aesculight of Woodinville, Wash., the manufacturer of the only American-made CO<sub>2</sub> laser.*



Figure 3. Aesculight flexible-fiber CO<sub>2</sub> laser control panel

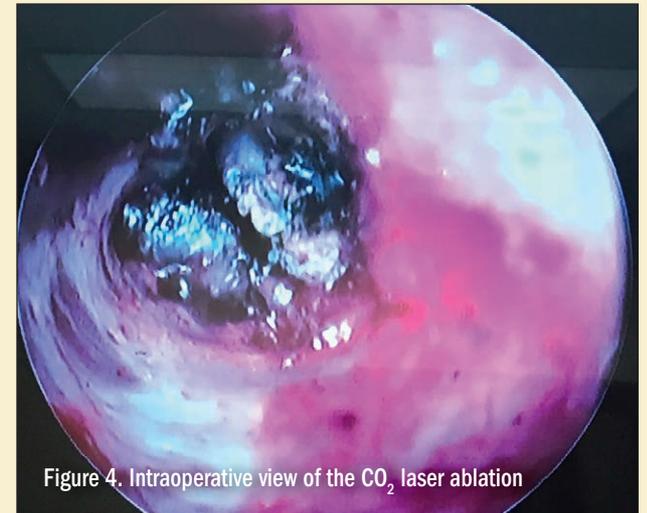


Figure 4. Intraoperative view of the CO<sub>2</sub> laser ablation



Figure 5. Immediate post-op, the char was removed.

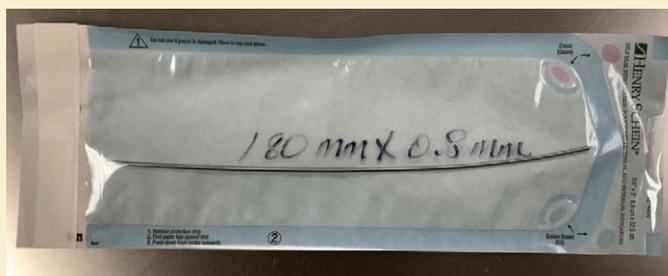


Figure 2. The metal laser tip used in the ear canal surgery

The flexible hollow fiber allowed us to easily maneuver the laser and effectively ablate only the abnormal aural polyp formation in the ear canal.

**Figure 4** shows an intraoperative view of the laser polyp removal. Note the great visualization of the surgical site. The ear's high fat content typically results in the formation of heavy char, which should be removed using ear flushes or a saline-soaked swab (**Figure 5**).

## Laser Surgery Benefits

The primary benefit of the laser ablation procedure includes virtual elimination of bleeding while ensuring full visualization of the polyp and confirmation of the successful ablation.

Without laser hemostasis, the polyp vasculature would produce considerable hemorrhage.

Additionally, the ear canal's integrity is safely protected from traumatic manipulation from an otherwise blind procedure. In these cases, surgical time is reduced, which provides for an improved anesthetic experience and shorter anesthetic recovery period.



Figure 6. A progress exam 27 days post-op showed good healing.