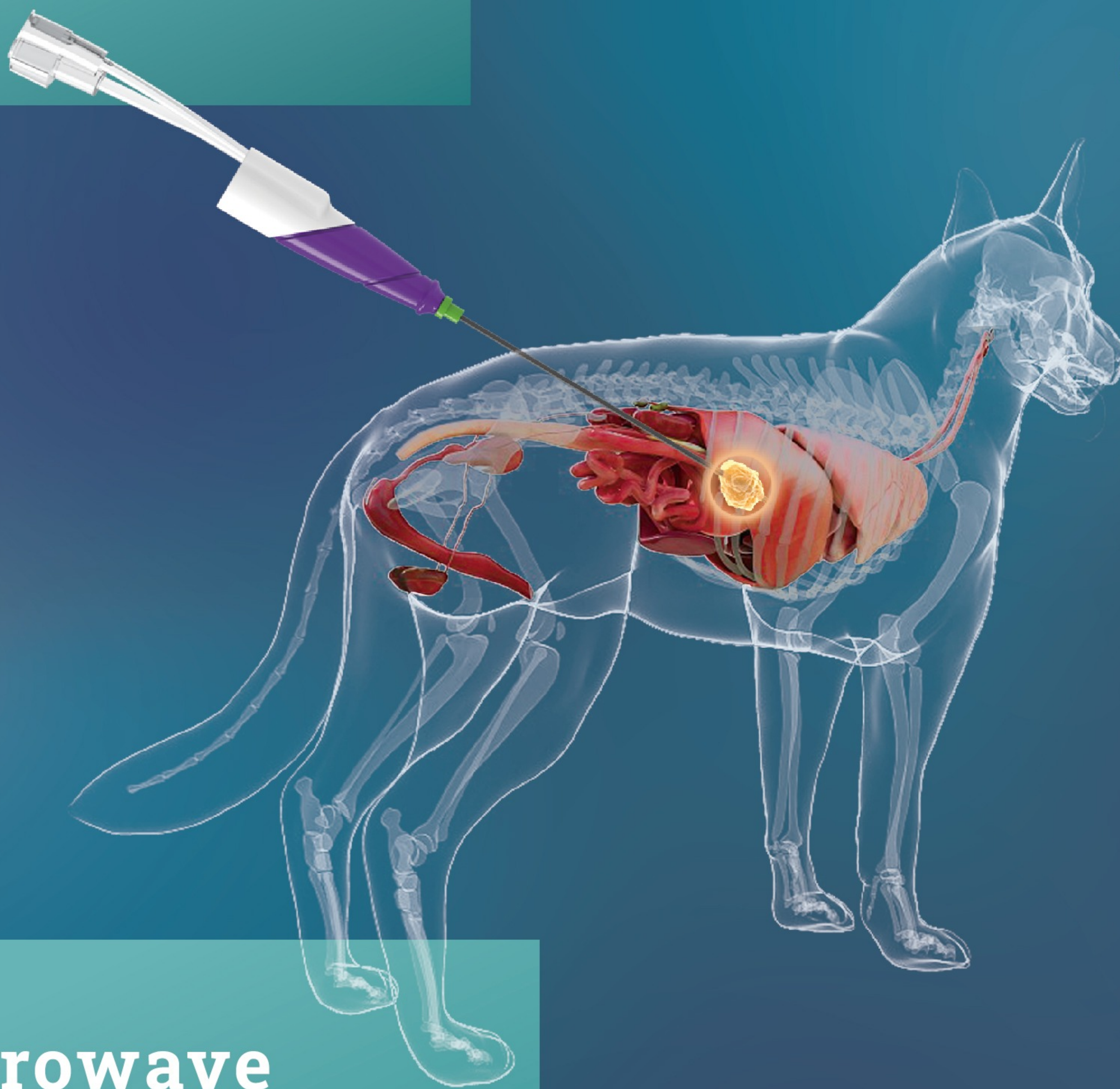




AMT

ECO<sup>®</sup>



# Microwave Ablation on Animal Tumors

Currently, **MWA** is mostly used in removal of tumors of head, mouth, nasal cavity, and buttocks. For the abundant blood supply in these areas, **MWA** is effective in hemostasis .

In the categories mentioned, the application of **MWA** in the mouth or face has great advantages over traditional surgery. It is difficult to remove an intact tumor by traditional surgery as the space inside the mouth is narrow, and usually the entire upper or lower jaw need to be removed.

Meanwhile, **MWA** has greater advantages in terms of reducing intraoperative difficulty, promoting postoperative recovery and improving postoperative life quality compared with traditional surgery.



## Indications

MWA is widely used for **in-vivo** tumors and **in-vitro** tumors in pets:

### In-vivo Tumors

liver tumor, lung tumor, kidney tumor, pancreatic tumor, lymphatic tumor, leiomyoma, rhabdomyoma, schwannoma, glioma, osteosarcoma, and ovarian tumor.

### In-vitro Tumors

squamous epithelial carcinoma, soft tissue sarcoma, lipoma, mast cell tumor, oral tumor, melanoma, breast tumor, perianal tumor, sebaceous adenoma, basal cell tumor, nasal tumor, throat tumor, and thyroid cancer.



## Advantages of MWA

The advantage of MWA over traditional surgery is the activation of immune response near the wound. After the tumor tissues removed, the high temperature gathers a large quantity of immune cells near the wound, which has benefits in the following aspects:

- 1 Reduce the risk of infection;
- 2 Facilitate wound healing;
- 3 Inhibit tumor regrowth;
- 4 Reduce wound trauma and decrease the blood loss;
- 5 Shorten operation time, reduce the risk of long-term anesthesia and relieve intraoperative and postoperative pain;
- 6 Applicable to the removal of tumors that cannot be treated by traditional surgery;
- 7 Provide a higher quality of life after ablation.

## Case - Cat

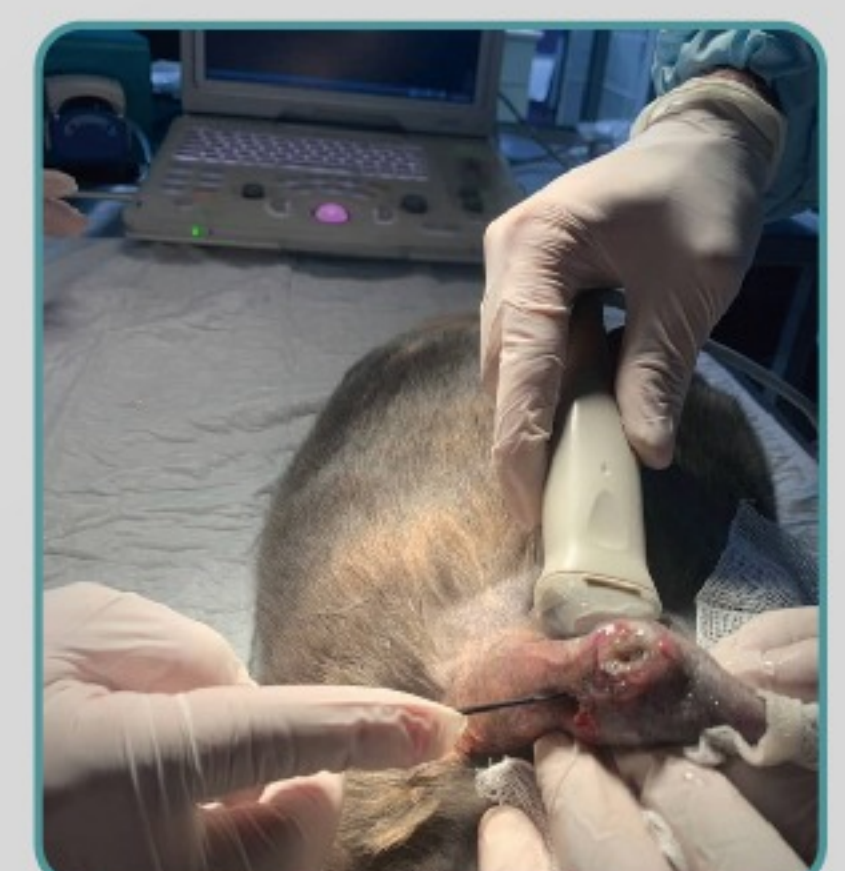
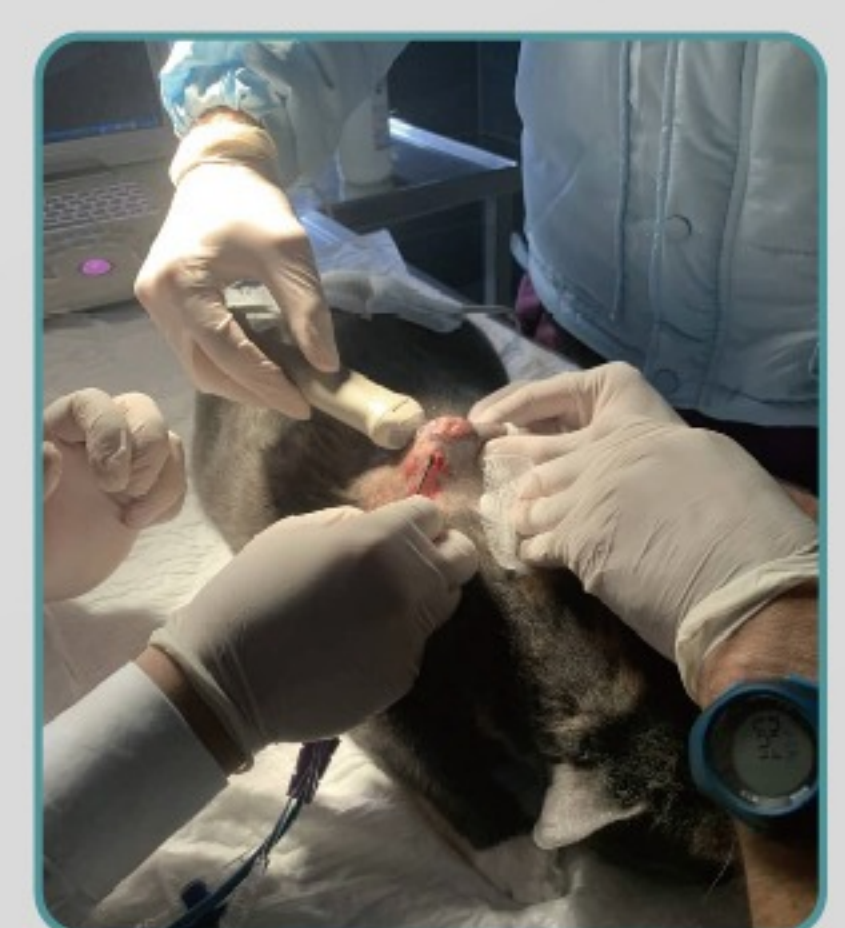
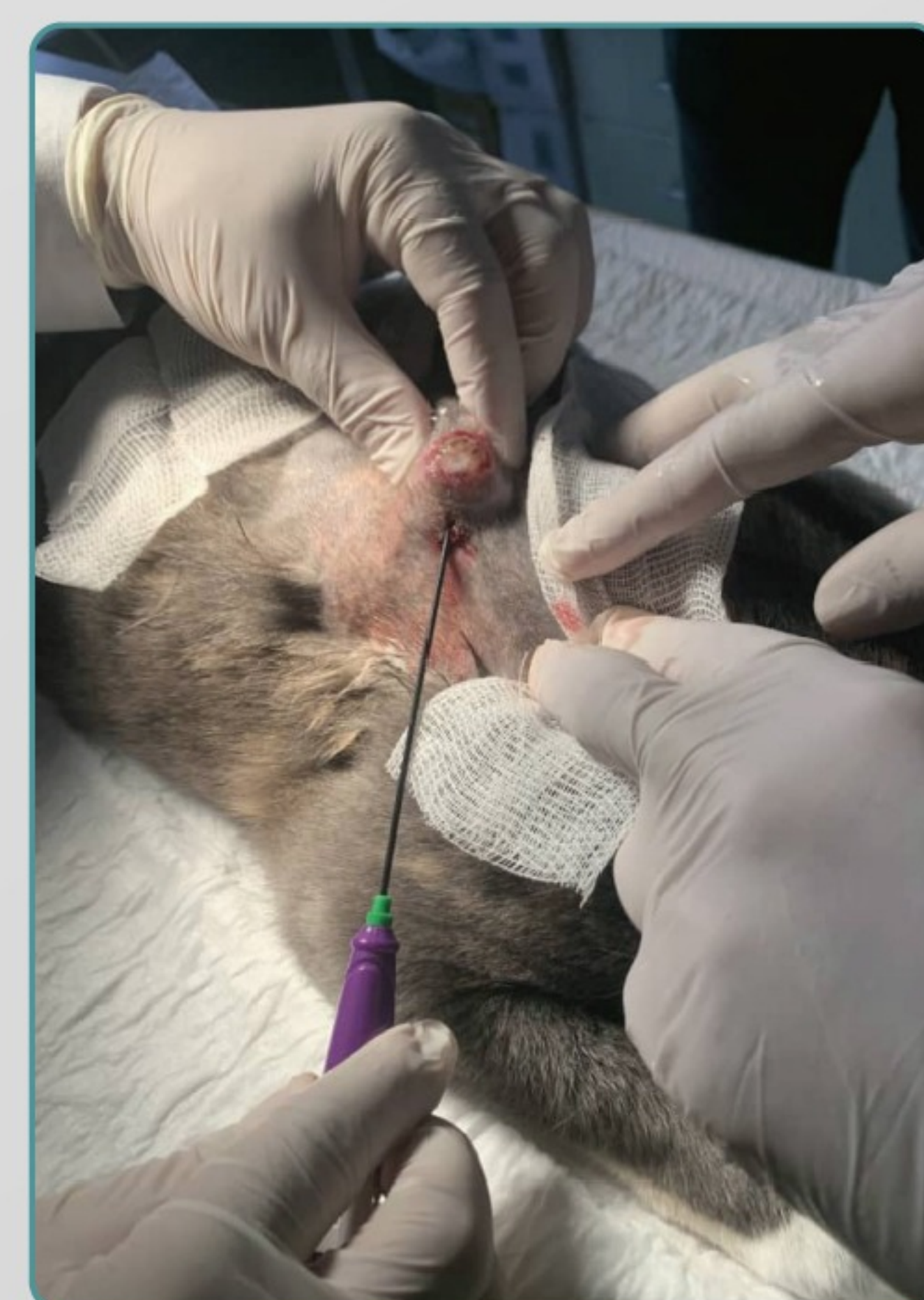
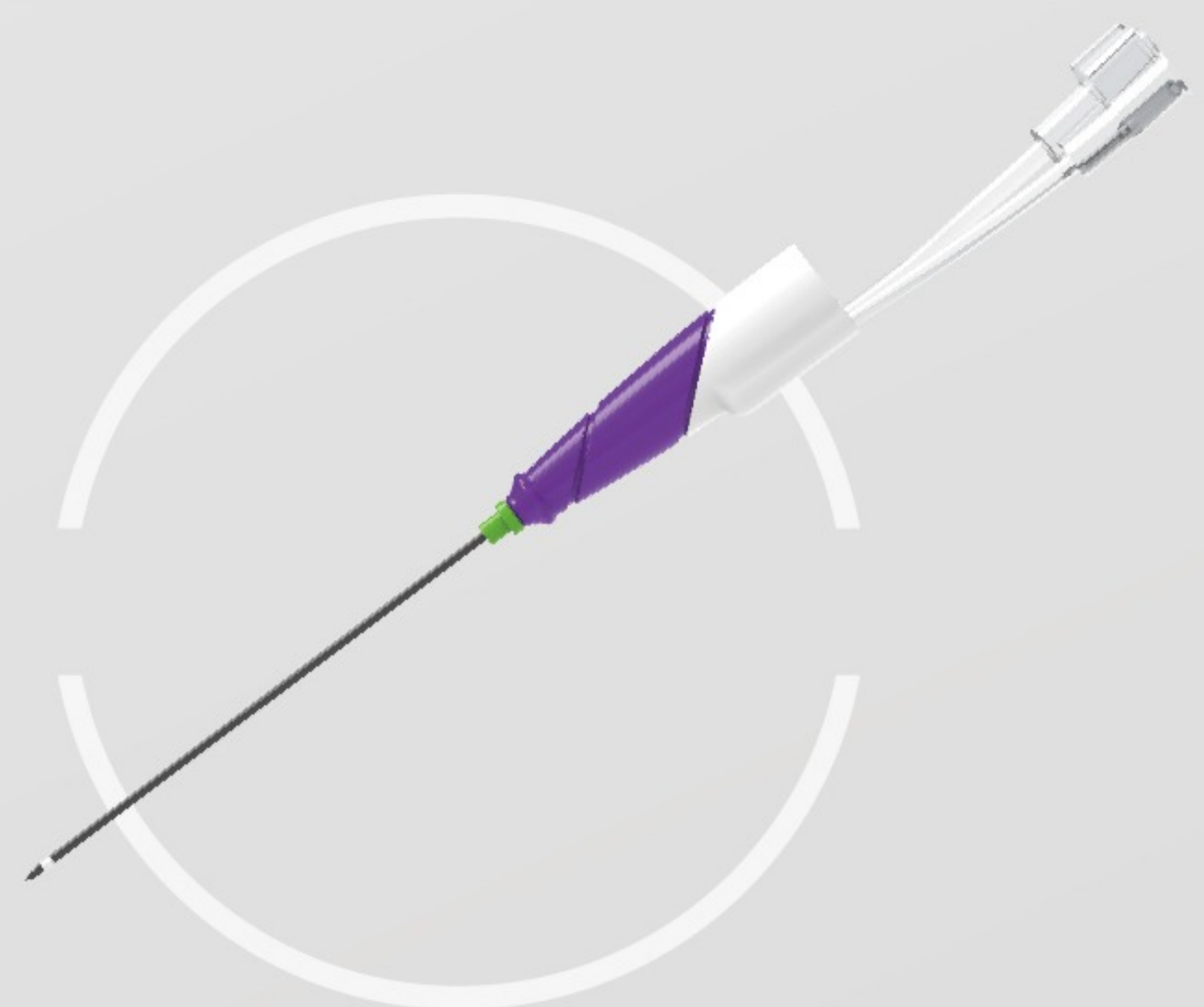
- Operation Date: **November, 02<sup>nd</sup>, 2022**
- Operation Location: **PASTEUR VETERINER POLICLINIC, Türkiye**
- Gender: **Female**
- Age: **11 years old**
- Lesion: **Fibrosarcoma**
- Lesion Size: **3.2cm\*2.8cm\*2.7cm**
- Operation Parameter:  
**Power: 30W, Ablation Time: 3min**



## Microwave Therapeutic System



## Microwave Ablation Antenna



*No intraoperative blood loss,  
No complications,  
Complete ablation,  
Achieved the ideal effect.*