Background
- Lung tumors are an important disease in dogs that require further investigation into diagnostic and therapeutic options. The purposes of this study are to assess: 1) the use of different dye injection devices and 2) the distribution of dye within a lung tumor after injection.

Participation Requirements
- Dogs diagnosed with lung tumors
- Bloodwork (CBC, chemistry panel), chest x-rays, and thoracic ultrasound are needed to determine eligibility.

Procedures
- As part of this study, your dog will receive the same diagnostic tests and care as any other dog with lung tumors presenting to the UC Davis VMTH.
- If you agree to enroll your dog in the trial, your dog will be randomly assigned to a particular device that will inject dye into the lung tumor and undergo a contrast CT scan while under anesthesia.
- After the CT scan, your dog will be taken to surgery per standard of care for lung tumors.

Owner Responsibilities
- Keep all scheduled appointments.
- Cover costs associated with the diagnosis of your dog's cancer except for those outlined below prior to enrollment as well as any costs beyond the provided hospital credits outlined below.
- Your dog's participation ends after the CT scan has been completed.

Benefits
- The study will pay for the CT scan and associated anesthesia, all costs for the contrast agent and its delivery, the screening thoracic ultrasound, and blood and urine collection and analyses.
- The study will also provide a $2500 UC Davis VMTH credit that will go towards your dog's surgery and up to $2000 towards medical treatment if your pet experiences adverse event(s) as a result of taking part in this study.