

Veterinary Teaching Hospital

COLLEGE OF VETERINARY MEDICINE

Funded Study: Treatment of Feline Pulmonary Carcinoma

University of Illinois Cancer Care Clinic and Comparative Oncology Research Laboratory

Study Title: Targeted therapy for feline pulmonary carcinoma with the novel anti-cancer drug isobutyl-deoxynyboquinone (IB-DNQ)

Purpose of Study

Pulmonary carcinoma in cats is an uncommon cancer that unless caught early, carries a poor prognosis. Surgery if possible is the recommended treatment, but many times disease the disease is too progressed for surgery and outcome is poor justifying the need for new and non-surgical therapies. IB-DNQ is a novel anticancer compound that targets an enzyme called NQO1 that is found to be highly upregulated in feline pulmonary carcinomas. This study is to evaluate the effectiveness of IB-DNQ as a treatment for pulmonary carcinoma in cats.

Inclusion Criteria

- Cats with histologically or cytologically confirmed pulmonary carcinoma
- Cats must have measurable disease and cannot have been treated with surgery or chemotherapy
- Cats cannot have significant co-morbid illness and must have a survivability of 6 weeks.

Eligibility Diagnostics

Prior to study entry, pet owners will be charged an initial consultation fee and be financially responsible and required to have the following diagnostics performed in their cat:

- 1) Diagnosis of pulmonary carcinoma with histopathology or cytology
- 2) Screening blood work and urinalysis
- 3) CT scan of the thorax
- 4) Imaging of the abdomen (either CT scan or ultrasound)

Treatment

Each cat will receive 10 consecutive daily treatments (Monday-Friday) of IB-DNQ and blood work will be collected at various time points for analysis. A post-treatment CT scan will be performed two weeks after the last IB-DNQ treatment for objective measurements of tumor response. All treatments must be done at the University of Illinois Veterinary Teaching Hospital.

Compensation

The study will pay for the cost of each recheck appointment associated with the treatments, blood work (CBC and chemistry panel), urinalysis each week, and IB-DNQ treatments. Following completion of the treatment protocol, the study will pay for the costs associated with the end-of-trial CT scan that allows for accurate measurement of tumor response to therapy. Pet owners are responsible for initial diagnostics performed to confirm study eligibility (see eligibility diagnostics, ~1200-1700).

Contact Information

Please feel free to contact our Clinical Trials Coordinator, Rebecca Kamerer, at (217) 300-6453 or rmoss81@illinois.edu to refer a patient or for any additional information. Referring veterinarian and client calls are welcome.