Understanding How Cats Process the Chemotherapy Drug, Vinblastine

**Purpose**

- Although vinblastine is commonly used in veterinary cancer therapy, most commonly for treating feline lymphoma, there is currently no information on how the drug is distributed and eliminated in these cats. Even when the same standard dose is administered to all cats, there can be large differences in the side effects that are seen and the drug may appear to work better against cancer in some cats than in others.
- This study aims to describe the pharmacokinetic profile of vinblastine in cats and to identify which characteristics or traits that can vary from one cat to another (e.g., age, kidney function, liver function) influence how vinblastine is distributed and eliminated in cats.

**Participation Requirements**

- Cats diagnosed with cancer for which vinblastine has been deemed an appropriate drug choice by the study veterinarian
- Before your pet begins the study, your pet will need to have bloodwork (blood chemistry panel and complete blood count) done to determine eligibility

**Procedures**

- **Day 0**: We will administer his/her first dose of vinblastine and collect 4 blood samples over a 24-hour period (i.e., your cat may need to be hospitalized overnight).
- **7 days after vinblastine is administered**: We will do a physical evaluation and collect a blood sample.
- **Day 14-21**: We will administer a second dose of vinblastine and collect 4 blood samples over a 24-hour period (i.e., your cat may need to be hospitalized overnight).

**Owner Responsibilities**

- Must be able to be here by 8 am on Days 0 and 14 of the clinical trial
- Keeping all scheduled appointments
- Covering costs for obtaining a diagnosis and any staging tests recommended by your veterinarian, initial bloodwork to determine eligibility, the bloodwork on Day 7 following vinblastine therapy, and vinblastine administration following the 14-day study period
- Reporting any possible side effects or toxicities to your study veterinarian in a timely manner

**Benefits**

- The study will cover costs for the bloodwork on Day 0 and Day 14, drug administration fees, vinblastine chemotherapy and overnight hospitalization.
- Vinblastine administration may lead to an anti-tumor effect (remission) or improvement of the symptoms of the cancer.
- Information obtained from this study may allow for better individualization of vinblastine dosing for cats in the future, which could result in an overall lower risk of toxicity and better effectiveness of therapy for cats in the future.

**Contact Information**

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