Background & Purpose
- The current recommendation for canine lymphoma treatment includes the use of a chemotherapy drug called doxorubicin. Although effective, one of the reported side effects of doxorubicin is the liberation of a molecule called histamine, which can cause ventricular arrhythmias (an irregular rhythm).
- Therefore, the aim of this study is to see if use of diphenhydramine can reduce the risk of arrhythmias sometimes associated with the administration of chemotherapy.

Participation Requirements
- Dogs that have been diagnosed with lymphoma

Procedures
- Administration of an anti-histamine drug (diphenhydramine) at one out of the two visits
- Wearing a portable and battery-operated device (Holter monitor) for 3 hours after the infusion of chemotherapy while your dog is still at the VMTH.

Owner Responsibilities
- Keeping all scheduled appointments
- Covering costs associated with the recommended chemotherapy and any side effects that are attributable to doxorubicin administration

Benefits
- The study will cover the screening echocardiogram and your dog’s Holter monitor (a $600 value), and up to $3,000 of your dog’s care if any study-related adverse events and your dog requires further care (e.g., hospitalization).
- Results from this trial may help us to better guide medical care for your dog and future dogs affected with the same disease. The understanding of your dog’s electrocardiogram may guide medical decisions.