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## ORTHOPEDIC MEDICINE AND MOBILITY

### CURRENT OSTEOARTHRITIS CLINICAL TRAILS

#### 1. Purina Canine Osteoarthritis Clinical Trial

The Orthopedic Medicine and Mobility service is conducting a clinical trial to evaluate the effect of a nutritional supplement on naturally occurring osteoarthritis-associated pain in dogs.

A wide variety of supplements are marketed to dog owners for the treatment of osteoarthritis (OA); unfortunately, however, few of these are supported by objective evidence. The goal of this study is to objectively evaluate the efficacy of a new, proprietary nutritional supplement (provided by study sponsor Purina) intended to improve OA-associated pain in dogs.

#### **Benefits of participation:**

- All costs related to the study will be fully covered including:
  - Five recheck exams (the first exam to determine eligibility is not covered)
  - X-rays at the second visit (unless taken within the previous 6 months and provided)
  - Complete blood counts at days 0, 55, 85 and 130.
  - Gait analysis
- Reimbursement of \$1500 if your pet is successfully enrolled and you fulfill all study requirements.

#### **Eligibility:**

- Dogs must weigh more than 10 kg (4.5 lbs) and have lameness attributable to arthritis of the carpus, elbow, shoulder, tarsus, stifle or hip joint
- Dogs may not have taken NSAIDs (e.g., Rimadyl, Metacam, etc.), fish oil or other joint supplements for the 4 weeks prior to enrollment. Other pain medications and treatments are acceptable if they are consistent.

#### **Owners must agree to:**

- Bring their pet to the CSU Veterinary Teaching Hospital for five visits over the course of 130 days (on days 10, 55, 85 and 130 of the study). Each visit will include an exam, blood draw and gait analysis (the dog must walk over a pressure-sensitive mat), and the second visit might include X-rays (requiring sedation).
- Complete multiple questionnaires throughout the study.
- Give their pet a daily nutritional supplement or placebo (provided as a chew treat) and maintain a daily feeding log.

- Place an activity monitor onto the dog's collar, which he or she must wear continuously throughout the study.

If you are interested in participating with your dog in this clinical trial, or if you'd like more information, please email [orthoresearch@colostate.edu](mailto:orthoresearch@colostate.edu). We appreciate your interest in helping advance veterinary medicine and assisting our canine friends!

## **2. PetVivo/KUSH™ Canine Osteoarthritis Clinical Trial**

The Orthopedic Medicine and Mobility service is conducting a clinical trial to evaluate the safety and efficacy of a novel product that is injected into the joint to potentially reduce lameness and improve function in dogs with naturally occurring osteoarthritis of the elbow joint.

The [injectable biologic material](#) contains gel particles that are intended to provide a soft, elastic cushion within the joint space to decrease pain and improve joint function. Participating dogs will receive either an injection of this product and a steroid directly into the elbow joint (treatment group), or they will receive an injection of the steroid only (placebo group). Dogs in the placebo group can receive the treatment later in the study if the owner desires.

The product has been tested in rabbits and in a small number of dogs without reported adverse events (however, the canine trials were not performed under controlled circumstances).

### **Benefits of participation:**

- All costs related to the study will be fully covered including:
  - Seven veterinary exams/rechecks
  - Bloodwork at the first visit
  - Elbow X-rays at the second visit (unless taken within the previous 6 months and provided)
  - Anesthetic joint block at the second visit (used to verify that the lameness originates in the elbow)
  - Gait analysis (your dog is walked over a pressure-sensitive mat)
  - Joint injection of the test product
  - Temporary use of an activity tracker that your dog wears
- Monetary incentive of \$1000 if your pet is successfully enrolled and you fulfill all study requirements.

### **General eligibility criteria:**

- Dogs must be fully grown, weigh more than 10 kg (4.5 lbs) and have lameness attributable to arthritis in both elbow joints (based on radiographs and other evidence).
- Dogs must be on a consistently administered dose of an NSAID (e.g., Rimadyl, Metacam, etc.) for at least 4 weeks prior to enrollment.
- Dogs must be in good general health and must not have had surgery, joint injections or septic arthritis in the elbows within the previous 6 months.

**Owners must agree to:**

- Bring their pet to the CSU Veterinary Teaching Hospital for seven visits at specified time points over the course of 12 months. Each visit will include an exam and gait analysis. Additional procedures conducted at one of the early visits include a blood draw, sedated X-rays and two sedated joint injections.
- Complete multiple questionnaires throughout the study.
- Place an activity monitor onto the dog's collar, which he or she must wear continuously throughout the study.

This is a general overview of the PetVivo/KUSH™ Canine Osteoarthritis Clinical Trial. If you are interested in participating with your dog in this clinical trial, or if you'd like more information, please email [orthoresearch@colostate.edu](mailto:orthoresearch@colostate.edu). We appreciate your interest in helping advance veterinary medicine and assisting our canine friends!