Veterinary Clinical Trials in Action

The center coordinates all aspects of a clinical trial and promotes partnerships between school and campus faculty from a broad range of units. Currently the VCCT is managing 100 different clinical trials including 25 for Genetics, 14 for Ophthalmology, 16 for Soft Tissue or Orthopedic Surgery, 17 for Oncology and more in Cardiology, Dentistry, Internal Medicine, Dermatology, and other disciplines. Trials for cancer studies include:

Minimally Invasive Technologies — Evaluating the outcome of treating veterinary patients with minimally invasive tumor ablation technologies, including cryoablation and microwave ablation. These methods are used in the treatment of cancers in people, but information in animal patients is very limited.

A Novel Formulation of Chemotherapy — Doxorubicin is a highly effective drug for treating lymphoma, both in people and dogs. However, doxorubicin is associated with side effects, including transient gastrointestinal upset and chronic toxicity to the heart. These toxicities limit the dose of doxorubicin that can be administered to patients and less-toxic formulations are being evaluated for improved health of dogs undergoing cancer treatment.

Oxygen-carrying Protein for Tumor Treatment — Glioma is a common brain tumor in people and dogs. Current treatment options include radiation or chemotherapy and more recently a vaccine; but few dogs are cured and most relapse. Radiotherapy relies on oxygen to kill tumors, but most cancers lack sufficient oxygen. Evaluation of an oxygen-carrying protein (ZOX-75.1) that has been engineered to increase the effectiveness of radiotherapy in tumors without affecting normal tissues is currently underway.

The Seven Strategic Goals

- Educate world leaders in academic veterinary medicine
- Perform high-impact transdisciplinary research
- Develop cutting-edge clinical programs
- Promote animal and human well-being
- Maintain school infrastructure and sustainable resources
- Retain excellent faculty and staff
- Promote academic, government, industry collaboration

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