

**Funded Study:** Safety of B7H3 CAR T cells in Dogs with osteosarcoma.

**Study Title:** Evaluating the safety and immune activities of B7H3 targeting chimeric antigen receptor T cells in dogs with osteosarcoma.

**Purpose of Study:** The purpose of this study is to investigate the safety and activity of genetically modified immune cells (specifically chimeric antigen receptor T cells, CAR T cells for short) for specifically recognizing and eliminating tumor cells that express a specific surface protein called B7H3 when intravenously infused into pet dogs with osteosarcoma.

**Inclusion Criteria:**

- Dogs with a cytologic or histologic diagnosis of osteosarcoma.
- The tumor must be surgically removable.
- Patient must be in good overall condition.

**Exclusion Criteria:**

- Patient has received prior chemotherapy or radiation treatment within 4 weeks of study enrollment.
- Patient is receiving immunosuppressive therapies.
- Patient has other serious illnesses.

**Eligibility Diagnostics:**

- Exam
- Cytology or histopathology consistent with osteosarcoma
- Three view thoracic radiographs
- Abdominal ultrasound

**Procedures:** Canine patients will receive an intravenous infusion of genetically modified, activated T cells (CAR T cells) followed by surgical removal of the tumor two days later. Tumor tissue will be collected for analysis to confirm successful CAR T cell infiltration into the tumor. During and/or following completion of CAR T cell therapy, blood may be collected for analysis. Patients will return to the U of I at predetermined times to monitor the patient for metastatic disease.

**Compensation:** After enrollment blood collection, CAR T cell infusion, exam fees, thoracic and abdominal imaging are fully covered and up to \$2500 is provided towards the cost of surgery at the U of I.

You will be responsible for any costs associated with the normal course of treatment for unrelated medical conditions.

**Contact Information:** Please feel free to contact our Clinical Trials Coordinator, Rebecca Kamerer, at (217) 300-6453 or [rmos81@illinois.edu](mailto:rmos81@illinois.edu) to refer a patient or for any additional information. Referring veterinarian and client calls are welcome.