

Tumor Types Enrolling

- Gliomas
- Other brain tumors possibly eligible

Inclusion Criteria

- Must have a confirmed primary/recurrent glioma or other eligible brain tumor
- Must be able to receive prednisone to taper over 6 weeks for course of treatment

Exclusion Criteria

- Severe chronic diseases (e.g. some cardiovascular diseases, history of anesthetic complications) that increase the risk for anesthetic or treatment complications
- Patient is taking antioxidant supplements that cannot be stopped
- Patient has received radiation therapy in the past for current cancer
- Patient is receiving other therapies, such as chemotherapy and immunotherapies, and will not undergo a treatment washout period/stop treatment

Procedures

- Questionnaire before consultation, and during each planned treatment and post-treatment visit. Patients may receive follow-up post-treatment visits at 2 and 4 weeks, 3 months, and then every 3 months for 1 year thereafter.
- Physical exams at consultation, treatment, and post-treatment visits
- Sample collection (e.g. blood, urine, feces, etc.) and possible imaging (MRI, CT, X-ray, ultrasound, etc.) at consultation, treatment, and post-treatment visits. If patient is enrolled into this study, a CT will be performed before delivering radiation therapy. At least 2 MRIs will be performed throughout study.

**Clinicians may decide that your pet is in need of additional samples/diagnostics at any time throughout the study based on their current health condition. Post-treatment follow-up visits for 3 months are mandatory for on-study pets.*

Study #6

Veterinary Clinical Trials in Canine and Feline Patients Using Combination Novel Therapeutics, Devices, and Data Collection Techniques

Study objective: *To evaluate the combination of CAR neutrophils with radiation in pet dogs with gliomas to induce tumor shrinkage and improve overall survival by overcoming acquired therapeutic resistance associated with treating brain tumors.*

Treatments

- Radiation therapy: delivered to the tumor over 1 week, a few weeks, or a few months; treatment timeline varies on which arm the patient gets assigned to
- Immunotherapy: no treatment, weekly (2-4 weeks), or monthly treatments; treatment timeline varies on which arm the patient gets assigned to

Treatment Timeline

