Endovascular Radiosurgery in Dogs with Hypervascular Brain Tumors

**Summary:** To assess the effectiveness of Y-90 endovascular radiosurgery in slowing or reversing the progression of canine hypervascular brain tumors. Y-90 endovascular radiosurgery is a minimally invasive, targeted injection of Yttrium-90-loaded microspheres into the blood vessels of a tumor under X-ray guidance.

**Funding and Support:** The diagnostic MRI scan, Y-90 endovascular radiosurgery, and PET/CT scan for the study will be fully funded. Any medications our veterinarians prescribe to alleviate the side effects of the procedure, as well as follow-up MRI imaging and blood tests will also be covered by the study.

**Trial Eligibility:** Dogs of any breed and sex are eligible for the study.

**Inclusion Criteria:**
- The dog’s owner has the ability to understand and sign a written informed consent and is willing to comply with study protocol.
- Hypervascular intra-axial brain tumor >1cm in size on MRI, restricted to one side of the brain.
- Age of at least 1 year and body weight greater than 10 lbs.
- Other restrictions may apply. Please call for details.

**Exclusion Criteria:**
- Anticipated life expectancy of less than 1 month.
- Previous or current oncological treatment of the brain tumor.
- Participation in another study.
- Evidence of serious systemic disorder or other condition that is clinically incompatible with the study.

**Trial Timeline:** Eligible dogs will receive an MRI scan to identify the tumor type and location. If imaging suggests that the tumor might respond well to Y-90 endovascular radiosurgery, we will perform the procedure, followed by a PET/CT scan. To assess the dog’s response to treatment, blood tests and follow-up MRI scans will be performed free of charge. Further monitoring will be performed as deemed necessary by CIGAT veterinarians.

**If interested, please contact:**
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