



UW Veterinary Care
UNIVERSITY OF WISCONSIN-MADISON

Research Study Consent

18F-FDG-PET/CT for staging canine apocrine gland anal sac adenocarcinoma

The purpose of this study:

- To assess the utility of FDG-PET/CT for identifying cancer spread in dogs with apocrine gland anal sac adenocarcinoma (AGASACA).
- PET/CT has been shown to be more accurate for detecting cancer spread in people; however, PET/CT remains relatively novel in veterinary medicine. AGASACA in dogs tends to be aggressive and can spread throughout the body. Early and more accurate detection of cancer spread is useful in dogs with AGASACA to create targeted treatment plans and ultimately elevate standard of care in dogs with cancer.

Your pet's participation in the study will include: A whole-body FDG-PET/CT scan under anesthesia, discharge from hospital same-day.

- On the day of the PET/CT scan, your dog will be given an injection of FDG, and a whole body PET/CT scan will be performed under anesthesia. Immediately after the PET/CT scan, your dog will be recovered from anesthesia. Once at a releasable radioactivity level, your dog will be able to return home with you that day (typically late afternoon/early evening).
- You will be provided with an educational guide for animal interaction and radiation safety information upon hospital discharge (see ***"Owner Guide to PET imaging"*** on page 3).

Possible benefits of enrolling your pet in this study include:

- PET/CT scan including costs associated with anesthesia will be paid for by the study. This is free whole-body cancer staging for your dog.
- PET/CT provides the advantage of whole-body imaging of your dog that combines anatomic information from CT with metabolic information from the PET. PET/CT remains novel in veterinary medicine, however is often standard of care in human medicine.
- Your dog's participation may benefit other dogs in the future by helping us evaluate the utility of this advanced imaging modality in dogs with AGASACA to best determine extent of disease.

Potential risks of enrolling your pet include:

- There is minimal risk to your dog during this non-invasive imaging procedure. Potential risks may include:
 - Drug reactions:
 - 18F-FDG – No adverse reactions have been documented in dogs.

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- CT contrast (Omnipaque) – Rare adverse reactions include: cardiac arrhythmias, hypersensitivity reactions, acute renal failure, extravasation complications, and injection site reactions.
- General Anesthesia: Organ injury (e.g. renal, ophthalmic, cerebral) secondary to hypotension, aspiration and secondary aspiration pneumonia, adverse reactions to medications/anesthetic agents (varying from mild hypersensitivity reactions to anaphylaxis), and cardiopulmonary arrest (CPA).

The research team may publish the results of this study for the benefit of animal health; however, you and your pet will not be identified individually.

Enrolling your pet is completely voluntary. If you decide not to enroll in this study, any relationship that you or your pet have with UW Veterinary Care, or the School of Veterinary Medicine will not be affected in any way. You may withdraw your pet from the study at any time, for any reason, without consequences.

Any samples collected from your pet may be deidentified and archived for future studies to benefit animals.

My signature indicates that:

- I have read, understand, and agree to the above information about the study.
- All my current questions have been answered.
- I agree to enroll my pet in this clinical study.

I consent to enroll _____ in the *18F-FDG-PET/CT for staging canine apocrine gland anal sac adenocarcinoma study*____, and certify that I am the legal custodian/owner of this pet.

Owner name (print): _____

Owner signature: _____

Date: _____

I will receive a copy of this consent form.

The contact person for the study is **Samantha Loeber, SLoeber@wisc.edu**. Please contact us if you have any additional questions or concerns about the study. Thank you!

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Owner Guide to PET Imaging

PET/CT is Positron Emission Tomography/Computed Tomography. In human medicine, a PET/CT scanner is often used to diagnose cancer, look for the spread of disease, evaluate infectious diseases, investigate fever of unknown origin, and monitor or even predict response to treatment. In veterinary medicine we are using this same modality to evaluate tumors and infections in our companion animal patients. It is a highly sensitive, noninvasive "functional" imaging technique that uses small radioactive materials called radiotracers, a special camera, and a computer to evaluate organ and tissue functions.

Your pet has been given a small amount of a radioactive compound, F-18, that has a half-life of 110 minutes. 10 half-lives = 18.3 hours, which is when radiation is considered to be at background levels. In other words, the radioactivity is not detectable at that point. The radioactive compound is excreted in the urine, feces and saliva.

Your pet's radiation levels are at a releasable level of < 2 mR/HR at 1 meter.

After your pet is released to you, you must still take precautions for the next 16 hours to avoid unnecessary radiation exposure. These include:

- Keep your pet strictly confined to your premises during this period. Do not allow your pet to roam freely in the neighborhood.
- Stay 3-feet or further away from your pet, except for brief periods for necessary care. Radiation exposure decreases rapidly with distance.
- Minimize close contact with your pet, including arranging to have your pet sleep in a separate room.
- Children under the age of 18 and pregnant women should not have any prolonged, close contact with your pet.
- Your pet is still excreting low levels of radioactive tracer. Wear disposable gloves when picking up feces and/or minimize handling of waste during this time.
- Wash your hands carefully after handling your pet, its food dishes or feces / litter pan.

If your pet should need veterinary attention or die prior to completion of 16 hours, notify your veterinarian at the School of Veterinary Medicine and Dr. Loeber at 608-263-7600.

I have read and understand the radiation safety precautions necessary because my pet was imaged with a PET/CT tracer and I agree to follow them carefully. If I elect not to take the recommended safety precautions, UW Veterinary Care will not be held liable.

Owner Signature

Date

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