Statement of intent – Participant owner

ADMINISTRATIVE CONTACTS – MAIN INVESTIGATOR

Email: Robert.phillips@postgrad.otago.ac.nz Phone: 021 149 6265

PURPOSE OF THIS RESEARCH:

Title - 'Aligning Bone Tumour Radiology and Histology Data - How Could We Close the Loop?'

This research aims to guide prospective bone tumour projects. It will evaluate a non-invasive process for the quantification of tumour boundaries before surgery. Applicable to both veterinary and human tissue, it will support continued data collection, analysis and dissemination to inform future collaboration within and across treatment teams for better surgical outcomes.

WHAT IS INVOLVED IN THE RESEARCH STUDY?

Tissue/specimens removed in treatment will be scanned with multiple imaging modalities (CT, MRI, etc…), then preserved and sliced histologically. There will be no additional steps required before tissue removal.

VOLUNTARY PARTICIPATION AND RIGHT TO WITHDRAW

If you are happy for your animals' tissue to be involved in this study this document will support a discussion with your vet.

Participation in this study is voluntary and you can choose not to participate without prejudice. You have the right to withdraw your animals' tissue from participation in this research at any time without penalty and without giving any reason. Refusal to participate in or withdraw from the research study will in no way affect the care to which your animal is entitled. Your animals' tissue may also be withdrawn from this study at any time if the research team find it necessary. If tissue is withdrawn from the study for any reason, please contact the Main Investigator if you feel data already collected should be removed from research/educational material.

CONFIDENTIALITY

All the information you provide is confidential. Your name and your animal's name will only appear on this consent form. The consent form will be kept in a lockable, secure location (this may be digital with any hardcopy destroyed). The anonymised information gained from this research study may be published and used for educational, regulatory, or other purposes. Contact the Main Investigator for information regarding the study results.

FINANCIAL IMPLICATIONS AND COMPENSATION

Participation in this research study will be of no cost to you. Procedures performed solely for research study purposes will incur no cost to you. You will not receive any compensation for the participation of your animals' tissue in this research study. Costs unrelated to study procedures, i.e. for diagnosis, management and/or treatment of your animal remain your responsibility.

QUESTIONS ABOUT THIS STUDY

If you have any questions or concerns about the study, risks and benefits, your obligations or any other questions please feel free to contact the Main Investigator at any point via email (or phone).

Owner's Consent for animal tissue involvement in the study

Declaration

This research study has been explained to me and I give my consent that tissue removed from my animal can take part in the study. I have had the opportunity to ask questions and I understand that I can contact the research investigator via the email listed above if I have additional questions or concerns. If I do not have an email, I will contact them directly via phone.

For the biological material/tissue and data collected, I give additional consent for this to be stored and used for any future research/educational purposes (please tick box):

N/A: ☐ I give consent: ☐ I do not give consent: ☐

I certify with my signature that I am the legal owner or custodian of the animal and have the authority to consent to the animals' tissue participating in this research study.

Name and identification of Animal:

Name:

Species:

Breed:

Sex:

Age:

Name of Owner:

Name _____Signature _____

Date _____

Veterinarian:

Name _____Signature _____

Date _____

Details for Veterinary Practice

Motivation for this research

Recent years have seen significant advances in tumour-cutting guides, custom implants, other salvage technologies, better image management and data processing. These technologies leverage medical imaging to improve resource use and patient outcomes however, while pushing frontiers, they are restricted by diagnostic image interpretation. A decade of research validating image interpretation with histology has supported healthy tissue salvage in soft tumour therapy (notably for prostate). Unfortunately, current methodologies cannot be used for bone research because of a need for histology decalcification.

This veterinary research aims to quantify a testing procedure for bone tumour specimens. Multi-disciplinary collaboration, along with strong research-industry-clinician relations is a difficult formula to get. NZ's unique, collaborative environment allows for driving novel and unique research to improve pet and patient outcomes.

What will happen from the results?

At an interim discovery stage, this research is expected to lay the foundation for future work on minimising healthy tissue resection and improving the accuracy of surgical planning. Along with laying foundations, there may be an opportunity for results from this project to assist visualisation of both canine and human tumours to radiologists/clinicians locally (and further afield).

Administrative data

Department:	Department of Radiology Otago University, Canterbury
Main investigator:	Robert Phillips (Senior Supervisor - Anthony Butler)
Mailing address:	7/2 Barry Hogan Place (or 2 Riccarton Ave, however, it might get lost if sent here…)
Phone:	(Robert) 021 149 6265
Email:	Robert.phillips@postgrad.otago.ac.nz

Researchers and scientific collaborators prospective/currently involved

Vets around Canterbury (that's you if you'd be interested in giving me a call), Ossis Ltd, Massey University Pathology, Pacific Radiology Group, CDHB Ultrasound, Otago University (Canterbury), CDHB histology (advice and technical support), advice/interest from elsewhere.

Ideal candidate specimens

Large Canine legs with moderate, to large bone tumours - ideally in a mid-forelimb (I.e., distal humerus) but other areas may be usable so please reach out. These can be used if a course of treatment involving amputation is decided, and the animal owners give consent for tissue to be used in this research project.

Handling and preservation of specimens

Refrigerate legs (don't freeze) and contact Robert for pick-up.