Research Trial Consent Form

The popularity, availability and usefulness of 3-Dimensional (3D) printing is growing exponentially in medical practices worldwide. As a result, we are interested in exploring the utility of 3D printed surgical instruments using a Dental Surgical Guide Resin in veterinary medicine. We believe that the use of these new instruments could, possibly, improve the efficiency and effectiveness of certain canine cystotomy surgeries. Additionally, use of these instruments may help to reduce potential post-operative complications.

It is important to note that the Dental SG Resin used to create the surgical instruments (cystotomy spoons) for this trial has been tested extensively by North American Science Associates (NAMSA), a medical research organization, and is categorized as Class 1 biocompatible. This means that the resin is non-mutagenic, non-cytotoxic, will not induce erythema nor edema, will not cause sensitization of the skin or tissues, and will not cause systemic toxicity. Therefore, adverse effects are unlikely. Additionally, the Dental SG Resin is able to be sterilized by autoclaving, is highly resistant to fracture, and is commonly used for human dental implants and orthodontic purposes.

At the University of Arkansas in Fayetteville, the cystotomy spoons will be printed in strict compliance with the manufacturer’s instructions to ensure biocompatibility. After printing, the surgical instruments will be bathed in 90% isopropyl alcohol, cured with UV light and heat, disinfected, and then autoclaved to ensure sterilization for surgery.

Use of the 3D printed surgical spoons will be determined solely by the attending veterinarian or veterinary surgeon at the time of the recommended or indicated procedure (cystotomy). The attending veterinarian may choose to use or discontinue use of the spoons at any time during the procedure, based upon his/her clinical judgement and what is in the best interest of the patient.

I, ___________________________, understand the research parameters described above, and agree to the medical treatment chosen and implemented by my attending veterinarian. Post-surgery, I will notify my attending veterinarian immediately if I identify any post-operative complications or adverse side effects outlined by the attending veterinarian. Additionally, I will follow the post-operative recommendations of my veterinarian to ensure the best possible outcome for my pet.

Furthermore, I give permission to Davina D’Angelo (Honors Undergraduate, Pre-Veterinary Student from the University of Arkansas) to access and collect specific, necessary data from my pet’s medical records as it directly pertains to my pet’s cystotomy surgery for the sole purposes of this research project. I understand that I can withdraw from this research project at any time via written statement if I feel that my dog is not receiving proper care, or if I would prefer that my attending veterinarian not use the 3D printed surgical instruments in my dog’s cystotomy surgery.

Please Print Pet’s Name: ___________________________

Owner’s Signature: ___________________________ Date: __________

Employee Witness: ___________________________ Date: __________

Attending Veterinarian: ___________________________ Date: __________