PI:  IACUC Protocol #: (office use only)

**AGRICULTURAL APPENDIX AG-A – Surgical Procedures**

***Be sure to fill out a separate appendix for each surgical event.***

Species:

1. Name of procedure:
2. For **teaching protocols only**:

This procedure will be demonstrated to students

Students will be assisting with or trained on the procedure

1. **Surgery type**

Minor - *Minor survival surgery is a surgical procedure that does not expose a body cavity and causes little or no physical impairment. Examples include wound suturing, peripheral vessel cannulation, subcutaneous implants, dehorning, vascular cut-down approach to an artery or vein (e.g. jugular or femoral), tissue biopsy (e.g. skin, muscle, via endoscopy).*

Major - *Major survival surgery is any surgical procedure that penetrates and exposes a body cavity, produces substantial impairment of physical or physiological functions, or involves extensive tissue dissection.*

Major  Minor

1. Is this survival surgery?  Yes  No
2. **Describe** the surgical procedures. (*Include appropriate provision for pre-operative and peri-operative care of the animals*.) All survival surgery should be performed using aseptic procedures. If this is an already approved husbandry procedure, provide any information for its inclusion in a protocol and attach a copy of the approved procedure.

1. Describe post-surgical recovery precautions and care. Please include frequency and length of observation. If post-operative analgesics are NOT used, you must justify why. If you have a post-procedure template that you use, please include a copy with your protocol.

1. Describe methods that will be used to detect and evaluate pain and distress in animals during and after surgery.

1. Describe symptoms or observations that would lead to a humane endpoint determination and thus removal of the animal from the procedure.

1. **Multiple Surgeries**
   1. Will multiple survival surgeries be performed on any one animal?  Yes  No

*Note that acquiring animals with major surgery previously done in other research or teaching activities is included in this consideration.*

* 1. If **Yes**, check the box that applies:

Multiple minor survival surgeries (no Major)

One Major and one or more minor survival surgeries

Multiple Major survival surgeries – with or without minor surgeries

If multiple Major survival surgeries occur, you must explain (please be sure to include the amount of time between the two surgeries) and justify:

1. **Associated Policies, Procedures and Guidelines**

|  |  |  |  |
| --- | --- | --- | --- |
| YES | NO\* | N/A | IACUC Policy, SOP and Guidelines |
|  |  |  | [Equipment Quality Assurance (PDF)](https://animal.research.wvu.edu/files/d/9fb91673-4868-4f09-ab62-b405d151448e/equipment-quality-assurance.pdf) |
|  |  |  | [Multiple Survival Surgeries in the Same Animal (PDF)](https://animal.research.wvu.edu/files/d/7840526a-947a-41f7-98de-f9f0cdd387c6/multiple-survival-surgeries-in-the-same-animal.pdf) |
|  |  |  | [Surgical Guidelines for Agricultural Animals Used in Agricultural Research and Teaching (non-USDA covered) (PDF)](https://animal.research.wvu.edu/files/d/23b2615b-701a-41aa-bdcd-61fd1e311444/surgical-guidelines-for-agricultural-animals_v1_approved.pdf) |
|  |  |  | [Veterinary Recommendations for Anesthesia and Analgesia (PDF)](https://animal.research.wvu.edu/files/d/9404bfb9-b800-4e3e-9ecf-6de5a3b99fd1/veterinary-recommendations-for-anesthesia-and-analgesia.pdf) |

**\*Justification as to why one or more of the above cannot be followed**:

1. **For Research Protocols Only:**

Indicate the approximate possible percentage of morbidity and mortality due to the described surgical procedures. Be sure to include likely causes and how they will be addressed: