**APPENDIX 2: SURGICAL PROCEDURES**

**ASU IACUC Approved Standard Institutional Guidelines (SIGs) can be found at** [researchcompliance.asu.edu/animals/animals-procedures-library-and-guidelines/](https://researchcompliance.asu.edu/animals/animals-procedures-library-and-guidelines/)

1. **GENERAL INFORMATION**
2. Species
3. Surgical Procedure(s)
4. Room/location of surgery
5. **PRE-SURGICAL CARE**
6. Will the animals undergo pre-surgical fasting?

[ ]  No. Proceed to section III.

[ ]  Yes. Provide the details:

1. **SURGICAL PROCEDURE**:

[ ]  Survival [ ]  Nonsurvival

**\*Note:** A surgical checklist is recommended for each survival surgery, and possibly non-survival surgeries. These checklists should be submitted to DACT’s veterinary team (vet.team@asu.edu) for review before implementing procedures.

1. Describe each surgical procedure (e.g., approach, tissue manipulation, closure):

B. Anesthetic regimen:

|  |  |  |  |
| --- | --- | --- | --- |
| **Drug & concentration (e.g., mg/ml)** | **Dose (e.g., mg/kg) & maximum volume to be given** | **Route** | **Pharmaceutical grade (Y/N)?** |
|  |  |  |  |
|  |  |  |  |

Note: Use of gas anesthetics requires completion of the EH&S-based Anesthetic Gas Safety training prior to use and refreshed annually.

1. Describe measures used to indicate a surgical plane of anesthesia to keep animals from getting too light or too deep:

C. Additional pharmacological agents used during surgery (include analgesics, supportive medications, and research drugs):

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Drug and concentration** | **Dose & max volume** | **Route** |  **Purpose** | **Frequency** | **Pharmaceutical grade (Y/N)?** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

1. Describe the steps taken to maintain an aseptic surgery:
2. What is the maximum duration of each surgery?
3. Will any animals recover from surgery?

 [ ]  No. This involves terminal, or non-survival, procedures; Appendix 2 is complete.

[ ]  Yes. Complete Section IV.

1. **POST-SURGICAL CARE**
2. Is there a potential for post-operative pain or distress?

[ ]  No. Proceed to section C.

[ ]  Yes.

1. Will analgesics be used? (For analgesic options, refer to the **ASU IACUC SIG on Analgesia** or contact a DACT veterinarian.)

[ ]  No. Provide a scientific justification:

[ ]  Yes. Complete the following.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Drug & concentration** | **Dose & max. volume** | **Route** | **Frequency** | **Pharmaceutical grade (Y/N)?** |
|  |  |  |  |  |

Who will administer these drugs?

C. Post-operative routine care:

i. What other drugs will be administered, if any (e.g., antibiotics, fluids)?

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Drug & concentration** | **Dose & max. volume** | **Route** |  **Purpose** | **Frequency** | **Pharmaceutical grade (Y/N)?** |
|  |  |  |  |  |  |

ii. What other post-operative support and monitoring will be provided, how often, for how long, and by whom?

D. Is post-operative intensive care required?

[ ]  No. Proceed to section E.

[ ]  Yes.

What special care is required?

Who will provide special care and what are their qualifications?

For how long will special care be needed?

E. Will animals undergo multiple survival surgical procedures?

[ ]  No. Appendix 2 is complete.

[ ]  Yes. Describe which surgeries, the sequence (specifying time between surgeries), and frequency. Provide scientific justification: