**APPENDIX D**

**EXPERIMENTAL PROCEDURES: Surgical Procedures**

**Section 1 - GENERAL INFORMATION:**

1. Name(s) and qualifications of persons who will perform surgeries (include office and emergency phone numbers, if not previously given):

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1. Location where surgical procedures will be conducted:

Building:       Room:

1. What is the expected duration of anesthesia and surgery per animal?

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**Section 2 - PREOPERATIVE CARE:**

1. Describe preoperative care (include physical examinations, lab tests, preconditioning to apparatus, and fasting or withholding of water):

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1. List all preoperative medications (pre-anesthetic agents, antibiotics, etc):

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| --- | --- | --- | --- | --- | --- |
| Species      | Drug      | Dose (mg/kg)      | Route      | Frequency      | No. of Days      |

**Section 3 - SURGERY:**

1. Specify both initial and supplemental anesthetic regimens:

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| --- | --- | --- | --- | --- |
| Species      | Agent      | Dose (mg/kg)      | Route      | Frequency      |

1. If gas anesthesia will be used, indicate precautions (i.e., hood, scavenger units, masks) taken to protect personnel from anesthetic fumes:

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1. Will paralyzing drugs be used? [ ]  Yes [ ]  No

If yes, describe (include drug, dose, route of administration, justification and monitoring methods used to ensure that the animal does not experience pain): Note: The law states that paralytic drugs may not be used without adequate anesthesia.

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1. Supportive Care and Monitoring:

**NOTE: ALL ANESTHETIZED ANIMALS MUST BE OBSERVED BY THE INVESTIGATOR OR HIS/HER STAFF UNTIL FULLY RECOVERED AND RETURNED TO THE USUAL HOUSING.**

How will the level of anesthesia be monitored and how often (e.g., absence of response to toe pinch or corneal reflex at 15 minute intervals)?

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1. Surgical Manipulation:

Describe surgical procedures. Aseptic surgical techniques **MUST** be used in all survival surgeries. See pages 60-65 of the *Guide*.

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1. Multiple Surgeries:

More than one major survival surgery on a single animal is discouraged. However, under special circumstances they might be permitted with the approval of the IACUC, e.g., when the surgeries are related components of a research project. Cost savings alone is not acceptable (Guide, pg. 111-112, 1996).

Will multiple surgeries be performed? [ ]  Yes [ ]  No

If yes, describe and justify:

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**Section 4 - POSTOPERATIVE CARE (SURVIVAL STUDIES ONLY)**

1. Animals must be held in a postoperative area until recovered from anesthesia.

Specify Building and Room Number:

Post-surgical care should include observing the animal to ensure uneventful recovery from anesthesia and surgery: administering supportive fluids, analgesics, and other drugs as required; providing adequate care for surgical incisions; and maintaining appropriate medical records (Guide, pg. 63-64, 1996). Animals must recover in a cage or area separate from their home cage and isolated from other animals.

1. Postanesthesia Recovery:

Describe frequency and type(s) of observations that will assure that the animals are stable and have returned to a safe level of recovery from anesthesia:

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1. Supportive Care:

Postoperative recovery: Include frequency of examination, frequency and type(s) of lab tests, monitoring and management of pain when indicated, observations and management of potential experimentally-related disease, wound care, parenteral fluids, special diet, etc.:

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1. Describe criteria for the assessment of post-surgical pain:

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1. Postoperative medications (analgesics, anti-inflammatory drugs, antibiotics, etc.):

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| --- | --- | --- | --- | --- |
| Species      | Drug      | Dose (mg/kg)      | Route      | Frequency      |

1. Indicate the length of time the animal will be kept alive postoperatively:

Person(s) responsible for postoperative care records:

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1. Location of Records (Building and Room Number):
2. Describe long-term care of chronically instrumented animal(s):

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