SECTION J. NON-SURGICAL PROCEDURES

Note: Repeat items J1 through J13 for each species that will undergo non-surgical procedures. If non-surgical procedures are the same for all species, you can list them on a single form. If they differ, please submit a separate section J for each species.

J1. SPECIES AND DESCRIPTION OF NON-SURGICAL PROCEDURES (BLOOD SAMPLING, BIOPSY, TAGGING, etc.)

Species:

Please provide a chronological description of non-surgical procedures:

J2. PRE-PROCEDURE ANIMAL SUPPORT (NOT ANESTHESIA)

Will special pre-procedural care be provided?

☐ No, the procedures do not require any special pre-procedural care.

☐ Yes, pre-procedural actions that will be taken to prepare animals for the procedure(s):

Select all that apply:

☐ Physical exam/Evaluation of overall appearance
☐ Overnight food withdrawal
☐ Clipping of fur
☐ Ophthalmic ointment to eyes
☐ Iodine (or Chlorhexidine) + alcohol skin scrub, 3 alternating cycles
☐ CBC/Chemistry profile (define blood sampling protocol):

Agent	Dose	Route of Administration	Frequency of Administration	Duration of Treatment

J3. INTRA-PROCEDURE ANIMAL SUPPORT (NOT ANESTHESIA)

Will special intra-procedure care be provided?

☐ No. The procedures do not require special intra-procedural care.

☐ Yes. Specify intra-procedure care that will be provided to animals during the procedure(s):

Select all that apply:

☐ Intravenous fluids (IV, IP or SC Fluids), describe:

☐ Ophthalmic ointment to eyes
☐ Heat to prevent hypothermia
☐ Cooling to prevent hyperthermia
☐ Other, describe:

J4. INTRA-PROCEDURE ANESTHESIA OR CHEMICAL RESTRAINT

Will intra-procedure anesthesia or chemical restraint be provided?

☐ No, the procedures do not require intra-procedural anesthesia or chemical restraint.

☐ Yes, the procedure requires anesthesia as described below:

Anesthetic Agent	Dose	Route of Administration	Frequency of Administration	Duration of Treatment

J5. MONITORING DEPTH OF ANESTHESIA DURING PROCEDURES

Indicate below the indices that will be used for monitoring animal condition and depth of anesthesia.

☐ Respiratory rate/effort
☐ Mucous membrane color
☐ Body temperature
☐ Oxygen saturation
☐ Heart rate
☐ Blood pressure Capillary
☐ Refill time
☐ EKG
☐ Reflex, explain:

☐ Other, describe:

Specify the frequency at which the above indices will be recorded:

J6. POST-PROCEDURE ANIMAL SUPPORT

Will special post-procedure care be provided?

☐ No, the procedures do not require special post-procedural care.

☐ Yes, post-procedure care that will be provided to animals after the procedure(s):

Select all that apply:

☐ Heat to prevent hypothermia
☐ Cooling to prevent hyperthermia
☐ Ophthalmic ointment to eyes
☐ Intravenous fluids (IV, IP or SC Fluids)
☐ Other, explain:

J7. MONITORING DURING RECOVERY FROM ANESTHESIA (if used)

Animals will be continuously monitored until fully recovered, as indicated by regaining righting reflex and purposeful movement.

☐ No. Please explain:

☐ Yes. Indicate below the indices that will be used for post-procedure monitoring of animal condition during recovery from anesthesia (i.e., until sternal recumbency is regained and maintained):

☐ Respiratory rate
☐ Mucous membrane color
☐ Body temperature
☐ Oxygen saturation
☐ Heart rate
☐ Blood pressure
☐ Capillary refill
☐ Time EKG
☐ Reflex, describe:

☐ Other, explain:

Explain above choices if necessary, including the frequency at which the above indices will be recorded:

J8. PAIN MANAGEMENT INTRA- OR POST-PROCEDURE

Note: The GAI IACUC encourages the use of preemptive analgesia for pain management. Analgesia should be provided as early as possible in the procedure if it is expected to be painful or result in residual pain, ideally before the procedure begins.

a. Is the procedure expected to cause pain or result in residual pain?

☐ No. The procedure is not expected to cause pain.
☐ Yes. Pain during and/or after the procedure is likely.

b. If pain is expected, will analgesia be provided for pain relief?

☐ No, analgesia will not be provided.

If pain is expected and analgesia will not be provided, please explain why pain relief will be withheld:

☐ Yes, analgesia will be provided. Please list analgesics and dosing regimens below:

Analgesic	Timing of Administration (pre, intra, or post-procedure)	Dose	Route of Administration	Frequency of Administration	Duration of Treatment

J9. SPECIMEN COLLECTION FROM LIVE ANIMALS

Will specimens be collected from living animals during or after the procedure(s)?

☐ No, specimens will not be collected from living animals.

☐ Yes. Define the specimen type and collection details below.

☐ Fluids (e.g., blood, lymph, ascites, CSF, GI fluids, etc.)

Fluid type (specify):

Volume (mls) per collections:

Collection method (specify):

Frequency of collection:

☐Solid Tissues (tumor, feces, muscle, etc.)

Tissue type (specify):

Volume (mm^3) or size per collections:

Collection method (specify):

Frequency of collection:

J10. INDWELLING CATHETERS OR IMPLANTS

☐ Not applicable to this protocol.

☐ Indwelling catheters or implants will be used:

Size:	
Type:	

Is maintenance necessary?

☐ No
☐ Yes:
Describe:

J11. HUMANE ENDPOINTS THAT WILL PROMPT INTERVENTION TO PREVENT CONTINUED PAIN OR DISTRESS

According to The Guide, information that is critical to the IACUC's assessment of appropriate endpoint consideration within a protocol includes precisely defining the humane endpoint (including assessment criteria); the frequency of animal observation; training of personnel responsible for assessment and recognition of the humane endpoint; and the response required upon reaching the humane endpoint. The IACUC has determined that the list below defines the commonly accepted clinical milestones which should be regarded as humane endpoints for most terrestrial animal studies. Choose all of those which are appropriate for the species being used. For each milestone, indicate the action that will be taken. Add other milestones (in the row marked 'other') if applicable for defining the humane endpoints for the proposed study.

☐ Not applicable humane endpoints related to this protocol.
☐ Yes, humane endpoints are applicable to this protocol. Please complete the table below:

HUMANE ENDPOINTS THAT WILL PROMPT INTERVENTION TO PREVENT CONTINUED PAIN OR DISTRESS					
Clinical Observation/Milestone	**Applicable to my proposal? (yes or no)**	**Frequency of observation (e.g., q 2 hrs, q 24 hrs, q weekly)**	**Protocol personnel will perform each observation (identify personnel)**	**Response required upon reaching the humane endpoint (consult vet or euthanize)**	**Provide duration (days, weeks, etc.) of monitoring or a scientific justification for not using the milestones listed**
Infection unrelated to the protocol	Select Value	Select Value	Select Value	Select Value	
Not eating or drinking (will require individual housing to effectively assess)	Select Value	Select Value	Select Value	Select Value	
Decreased fecal and urine output (will require individual housing to effectively assess)	Select Value	Select Value	Select Value	Select Value	
Delayed wound healing (requires checking at least daily until suture removal)	Select Value	Select Value	Select Value	Select Value	
Sudden behavioral change (Ex. aggression, guarding, hiding)	Select Value	Select Value	Select Value	Select Value	
Licking, biting, scratching of the operative / injection site (requires checking at least daily until suture removal	Select Value	Select Value	Select Value	Select Value	
Poor posture or ambulating difficulty (Ex: tense, tucked-up, stiff gait)	Select Value	Select Value	Select Value	Select Value	
Lost hair coat condition (Ex: ruffled fur, lack of grooming, piloerection)	Select Value	Select Value	Select Value	Select Value	
Sudden activity level change (Ex: restlessness, pacing, reluctance to move)	Select Value	Select Value	Select Value	Select Value	
Unexpected sweating or salivation (Ex: stressed rodents salivate excessively when stressed)	Select Value	Select Value	Select Value	Select Value	

Clinical Observation/Milestone	Applicable to my proposal? (yes or no)	Frequency of observation (e.g., q 2 hrs, q 24 hrs, q weekly)	Protocol personnel will perform each observation (identify personnel)	Response required upon reaching the humane endpoint (consult vet or euthanize)	Provide duration (days, weeks, etc.) of monitoring or a scientific justification for not using the milestones listed
Painful' facial expression (Ex: grimace, eyes dull, pupils dilated, pinning of ears)	Select Value	Select Value	Select Value	Select Value	
Oculonasal discharge (Ex: rats shed porphyrin pigment when stressed)	Select Value	Select Value	Select Value	Select Value	
Teeth grinding (Ex: More common sign in rabbits, livestock)	Select Value	Select Value	Select Value	Select Value	
Signs of moderate to severe pain or distress that was not anticipated by the study plan	Select Value	Select Value	Select Value	Select Value	
Body weight loss exceeding 15% of free feeding bodyweight relative to an age matched reference (Ex: Requires regular weighing)	Select Value	Select Value	Select Value	Select Value	
Self-mutilation (requires checking at least daily until suture removal)	Select Value	Select Value	Select Value	Select Value	
Neurological disorders (e.g., seizures, blindness, ataxia) that were not anticipated by the study plan	Select Value	Select Value	Select Value	Select Value	
Cardiopulmonary disorders (e.g., sudden weakness, vascular collapse, coma) that were not anticipated by the study plan	Select Value	Select Value	Select Value	Select Value	
Abnormal feeding or defecation for 48 hours (e.g., decreased feed or water intake and/or decreased fecal production that is unrelated to the study plan)	Select Value	Select Value	Select Value	Select Value	
Non-weight bearing for 72 hours (e.g., difficulty walking, inability to maintain upright posture)	Select Value	Select Value	Select Value	Select Value	
Other humane endpoints which will be employed in this project:					