

INSTITUTIONAL ANIMAL CARE AND USE PROTOCOL APPLICATION**APPENDIX #2 – Non-Surgical Procedures Which May Cause Pain and/or Distress**

Pain management is expected for all procedures that may cause more than momentary pain or distress (USDA pain category D or E). All procedures where anesthetics and/or analgesics are used to relieve pain are considered to be potentially painful. Injection of Complete Freund's Adjuvant (CFA), infliction of trauma and burns, bacterial infection, induction of disease states such as severe arthritis, and some behavioral tests are examples of procedures that are considered to have the potential to produce pain. Prolonged restraint, food or water deprivation, procedures which result in limited mobility, malaise, etc. are examples of procedures considered to be potentially distressful.

Note: Duplicate this appendix for each non-surgical procedure. Procedures performed under the same period of surgical anesthesia may be combined.

OVERVIEW

1. Title of Protocol:
2. Principal Investigator (PI):
 Telephone:
 Email:
3. Veterinarian:
 Telephone:
 Email:

IDENTIFICATION

4. Procedure Name:
5. Species or rodent strain (Common Name):
6. Number of species or rodent strain:
7. Is it likely the species or rodent strain will survive the procedure?
 No
 Yes

PROCEDURE DETAILS

8. Where will the surgery(s) be performed?

9. Provide a complete narrative of the non-surgical procedure. You must provide all of the relevant details without making reference to other protocols.

10. How will pain/distress be assessed and monitored during the procedure?

11. Will analgesia be used to minimize pain/distress relief to the animals during the procedure?

No: If NO, Provide a justification for not using postoperative analgesics. Include supporting literature references to justify the exclusion of postoperative analgesia.

Yes: If YES, identify the analgesics and anesthetics that will be given.

Agent	Dose / Volume		Route (e.g., iv, ip, sc)	Frequency of Administration (e.g., once, continuous, other)
	mg/kg	mL		

12. Will any sedatives, analgesics, or anesthetics be withheld for scientific reasons?

No

Yes: If YES, Provide a justification. Include supporting literature references.

13. Will paralytics be employed during potentially painful/distressful procedures?

No

Yes: if YES, will anesthesia be used when paralytics are employed?

No

Yes: If YES, if animals are under anesthesia and the influence of paralytics, how will animals be monitored for pain perception?

AND POST-OPERATIVE CARE AND MONITORING

- 1. Will post-operative analgesia be used to provide post-operative pain relief to the animals following surgery?

Post-procedure pain/distress relief will be unnecessary – pain or discomfort is minimal and or/transient.

Non-pharmacological environmental comfort measures will be employed to minimize pain or distress?

- Paper bedding
- Access to soft pellet feed
- Gel packs
- Housing Huts
- Other: Describe

Analgesics will be used to provide pain relief to the animals following the procedure: Identify the analgesics and anesthetics that will be given.

Agent	Dose / Volume		Route (e.g., iv, ip, sc)	Frequency of Administration (e.g., once, continuous, other)
	mg/kg	mL		

Post-procedure pain relief will be withheld: Provide a justification for not using analgesics. Include supporting literature references.

14. What will be the duration of survival after surgery?

15. What will be the frequency of monitoring from surgery to euthanasia? **Note:** The typically accepted minimum monitoring might include twice a day for 3 days then 2-3 times weekly for the duration of the experiment. Consult the veterinarians.

a. What parameters will be monitored?

Behavior and activity level

Specify frequency

Check all that apply

Body weight

Overall condition

Body temperature

Food and water intake

Hydration status

Other (Describe)

b. Who will provide post-op support?