**Appendix 2 – Non-Surgical Procedures that have the Potential to cause Pain and/or Distress**

*Pain management is expected for all procedures that may cause more than momentary pain or distress. 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.*

*Duplicate this appendix for each potentially painful/distressful procedure.* ***You must also complete the Search for Alternatives in the Main body of the ACUP.***

**1. Identification**

a. Procedure name (include sham if applicable):

b. Species:

c. Number of animals:

d. Survival:

[ ]  No

[ ]  Yes

**2. Procedure Details**

a. **Where will the procedure be performed**? (*Check all that apply*)

Laboratory (Building and Room #):

b. **Procedure Description**.

 Provide a complete narrative of the procedure. Provide all of the relevant details for this protocol without making reference to other protocols.

c. **Pain and/or Distress**

1. How is pain/distress assessed and monitored during the procedure? Include a description of the signs of pain/distress that will be monitored.

2. Analgesia or anesthesia will be utilized to minimize pain or distress during the procedure.

 Yes [ ]  No [ ]  *If Yes, Complete the table below.*

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

3. Will sedatives, analgesics, or anesthetics be withheld for scientific reasons? Yes [ ]  No [ ]

*If yes, explain and include supporting literature references*.

d. **Paralytics**

1. Are paralytics employed during potentially painful/distressful procedures? Yes [ ]  No [ ]

1. If yes, will anesthesia be used when paralytics are employed? Yes [ ]  No [ ]
2. If animals are under anesthesia and the influence of paralytics, how will animals be monitored for pain perception?

3. **Post-Procedure Care/Monitoring**

**a. Post-Procedure Analgesia.** *(Check all that apply)*.

[ ]  Analgesics will be used to provide pain relief to the animals following the procedure

*Identify the analgesics that will be given.*

| **Agent** | **Dose /Volume** | Route (e.g. iv, ip, sc) | **Frequency of Administration****(e.g. times/day)** | **Duration of Treatment****(e.g. days)** |
| --- | --- | --- | --- | --- |
| **mg/kg** | **mL** |
|       |       |       |       |       |       |
|       |       |       |       |       |       |
|       |       |       |       |       |       |

[ ]  Post-procedure pain relief will be withheld

*Provide a justification for not using post-procedure analgesics. Include supporting literature references to justify the exclusion of post-procedure analgesia.*

[ ]  Post-procedure pain relief is unnecessary – pain or discomfort is minimal and/or transient

[ ]  Environmental comfort measures will be employed to minimize pain or distress

*Check all that apply.*

[ ]  Paper bedding

[ ]  Access to soft pellet feed

[ ]  Gel packs

[ ]  Housing Huts

[ ]  Other:

**b. Post-procedure Monitoring**

1. What will be the duration of survival after the procedure?

1. What will be the frequency of monitoring from procedure to euthanasia?

(*Note: The* *typically accepted minimum monitoring might include frequent monitoring for the short-term following the procedure and then tapering to standard weekly observations thereafter. Consult the veterinarians for further guidance.)*

1. Do you expect that there will be any long-term consequences from this procedure (e.g. long-term pain or discomfort, immobility, difficulty obtaining food or water)? [ ]  Yes [ ]  No

*If Yes, explain*

1. What parameters will be monitored? *Check all that apply.*

[ ]  Behavior and activity level

[ ]  Body weight

 *Specify frequency of weighing*

[ ]  Overall condition

[ ]  Body temperature

 *Specify frequency*

[ ]  Food and water intake

[ ]  Hydration status

[ ]  Other:

1. Who will provide post-procedural support?
2. **You are required to document post-procedural monitoring.**

**A**ttach/upload the monitoring form to be used for this procedure.