How to apply the IACUC’s Classification of Animal Use

The example study** involves the following:

• Animals will be bred for a specific trait, only females will be used in the research

• Females will be randomized to 3 groups
  – Control group, Arm A and Arm B

<table>
<thead>
<tr>
<th>Procedures</th>
<th>Control</th>
<th>Arm A</th>
<th>Arm B</th>
</tr>
</thead>
<tbody>
<tr>
<td>IM injections, venipuncture,</td>
<td>IM injections, venipuncture, will be euthanized before tissue is</td>
<td>either: - Placebo surgery (chemical restraint only)</td>
<td>either: - Non-survival surgery, or - Survival surgery without post op analgesia</td>
</tr>
<tr>
<td>will be euthanized before tissue is collected</td>
<td>collected</td>
<td>- Non-survival surgery, or - Survival surgery with post op analgesia</td>
<td></td>
</tr>
</tbody>
</table>

** Note: this is a fictitious study intended only as an example of how to apply the classification of animal use.
Accounting for the **breeding pairs** used to produce offspring.

| Question 1: What is the most painful/distressful research procedure experienced? | Answer: Breeding pairs will not be used for research. |
| Question 2: Are any of the procedures considered survival surgery? | N/A |

Explanation: Breeding pairs will not be used for research, nor will any procedures be performed on them (e.g., genotyping, venipuncture, etc.). Count the breeding pairs in **Category B**. [If procedures will be performed on the breeding pairs - they are **not** counted under Category B]
Accounting for the male offspring that will be euthanized after birth.

| Question 1: What is the most painful/distressful research procedure experienced? | Answer: Males will not be used for research. |
| Question 2: Are any of the procedures considered survival surgery? | N/A |

Explanation: Males will be bred and not used for research, count the males in Category B. [Females will be bred and used in research – they are not counted under Category B]
Control group: Animals receive IM injections, blood from venipuncture and will be euthanized before tissue is collected.

Question 1: What is the most painful/distressful research procedure experienced?  
Answer: All procedures only involve brief pain or distress.

Question 2: Are any of the procedures considered survival surgery?  
N/A

Explanation: Since all of the procedures only involve brief pain or distress with no need for use of pain relieving drugs, count these animals in Category C
Arm A – Placebo Surgery group: Animals will be chemically restrained and sedatives will be administered.

**Question 1:** What is the most painful/distressful research procedure experienced?  
**Answer:** Chemical restraint.

**Question 2:** Are any of the procedures considered survival surgery?  
**N/A**

**Explanation:** Since the procedure involves potential for more than brief distress and there are provisions to relieve distress, count these animals in **Category D0**.
Arm A – non-survival surgery group: Animals receive IM injections, venipuncture, surgery with anesthesia, and will be euthanized before recovery from anesthesia.

**Question 1**: What is the most painful/distressful research procedure experienced?

**Answer**: surgical procedure with anesthesia.

**Question 2**: Are any of the procedures considered survival surgery?  

**No**

Explanation: Since the procedure involves potential for more than brief pain and there are provisions to relieve pain AND none of the procedures involve survival surgery, count these animals in **Category D1**
Arm A – survival surgery group: Animals receive IM injections, venipuncture, surgery with anesthesia, post-op analgesia and will be euthanized before tissues are collected.

Question 1: What is the most painful/distressful research procedure experienced?
Answer: surgical procedure with anesthesia.

Question 2: Are any of the procedures considered survival surgery? YES

Explanation: Since the procedure involves potential for more than brief pain and there are provisions to relieve pain AND one of the procedures involves survival surgery, count these animals in Category D2.
**Arm B – non-survival surgery group:** Animals receive IM injections, venipuncture, prolonged restraint without sedation, surgery with anesthesia, and will be euthanized before recovery from anesthesia.

**Question 1:** What is the most painful/distressful research procedure experienced?

**Answer:** prolonged restraint without sedation.

**Question 2:** Are any of the procedures considered survival surgery? **No**

**Explanation:** Since the procedure involves unrelieved distress AND none of the procedures involve survival surgery, count these animals in Category E0.
Arm B – survival surgery group: Animals receive IM injections, venipuncture, prolonged restraint without sedation, surgery with anesthesia, and will be euthanized before recovery from anesthesia.

Question 1: What is the most painful/distressful research procedure experienced?
Answer: prolonged restraint without sedation.

Question 2: Are any of the procedures considered survival surgery? Yes

Explanation: Since the procedure involves unrelieved distress AND one of the procedures involves survival surgery, count these animals in Category E2.
## Appendix K - Animal Classification

<table>
<thead>
<tr>
<th>Species #</th>
<th>Frequency</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
<td>--Select from list or enter special</td>
<td></td>
</tr>
<tr>
<td>Strain(s)</td>
<td>--Select from list--</td>
<td></td>
</tr>
<tr>
<td>Source</td>
<td>--Select from list--</td>
<td></td>
</tr>
<tr>
<td>Housing Location</td>
<td>--Select from list--</td>
<td></td>
</tr>
</tbody>
</table>

### Number of Animals

- **How many:**
  - must be males?
  - must be females?
  - can be either sex?

**Total number of animals for this species/strain**

### Do you require specific age range?

- Yes
- No

**If yes:**
- What is the age range for males? (indicate days, months, or years)
- What is the age range for females? (indicate days, months, or years)

### Do you require specific weight?

- Yes
- No

**If yes:**
- What is the weight range for males? (indicate oz, gram, lb, or kg)
- What is the weight range for females? (indicate oz, gram, lb, or kg)

### Subtotals

According to the highest pain category considering all the procedures each animal will experience, insert the number of animals that will fall into one of these highest pain categories.

- Animals should only be counted once when determining these numbers.

### Verification

Verify the numbers: These numbers should match.

- The total from Item 5
- The total from Item 8

### For Office Use Only

<table>
<thead>
<tr>
<th>Code</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D0</th>
<th>D1</th>
<th>D2</th>
<th>E0</th>
<th>E2</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Number of animals involving Survival Surgery**

0