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Newly Revised PACUC Protocol Form and Guidelines

The PACUC has recently approved the use of a revised protocol application. This form will become effective January 1, 2010, and will replace the current protocol form dated October 2003. The new form may be obtained from our web site at: www.purdue.edu/animals. Please do not begin using it until January 1, 2010.

Accompanying this revised form is a document entitled, “Guidelines for Completing an Application to Use Vertebrate Animals in Research, Teaching, or Testing.”

This document is also available on our website and its purpose is to provide assistance on completing the protocol application.

Please note that any application submitted to PACUC on or after January 1 on the 2003 version will be returned and you will be asked to resubmit it on the 2010 version. If you have any questions, please feel free to contact the PACUC office at 49-49163.

Thank you for your cooperation.

Happy Holidays,
AND BE SAFE IN YOUR TRAVELS.
Have an Isoflurane gas anesthesia machine?

Remember to change the carbon dioxide absorbent material as frequently as needed.
Inspect the anesthetic machine connections and rubber parts for loose, damaged, cracked or warn parts; replace immediately as needed.
Your vaporizer should be serviced annually by an authorized service center. The service date and servicing company/technician should be prominently labeled on the machine.
If you have questions regarding your machine, its use, or servicing your machine, please contact Carol Dowell, Training Coordinator at 494-2521.

Planning to Use Ketamine in a Future Project?

Do you have a full understanding of the effects that it may have on your animals?

Highlights:

Ketamine has an abuse potential and is included in the Federal DEA controlled drug inventory. Requires a DEA license to obtain, double locked controlled substance storage, and careful paper trail of its purchase, use, and disposal!!! Contact REM for more information or help with applying for your DEA license; http://www.purdue.edu/rem/

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Its primary site of action is the central nervous system (CNS).
Ketamine is labeled for use in cats and sub human primates and is also used in a variety of other species including: dogs, rabbits, rodents, ferrets, cattle and horses.
Ketamine is detoxified by the liver and excreted by the kidneys therefore; any pre-existent hepatic or renal pathology or impairment of function can be expected to result in prolonged anesthesia.
Although rarely done, Ketamine can be administered alone for restraint or minor, brief procedures that do not require skeletal muscle relaxation. Contraindicated for use alone as a general anesthesia.

Has been used in combination with various other anesthetic drugs, but is it most commonly combined with Xylazine, Acetylpromazine, or Diazepam. Using Ketamine in combination with xylazine produces better muscle relaxation, visceral analgesia and smoother emergence from anesthesia.

Ketamine is a dissociative general anesthetic.

Contraindications: prior hypersensitivity reactions; animals to be used for human consumption, use alone as general anesthesia, increased CSF pressure/head trauma, hepatic or renal insufficiency, seizure disorders, etc.

Adverse Effects: hypertension, hypersalivation, respiratory depression, hyperthermia or hypothermia, emesis, vocalization, erratic and prolonged recovery, dyspnea, spastic jerking movement, nystagmus, seizures, muscular tremors, hypertonicity, opisthotonos and cardiac arrest. Pain after injection may occur in some species.

Eyes remain open or partially open and must be protected with ophthalmic ointment or saline drops to avoid corneal drying.

Minimize exposure to handling or loud noises during recovery period.
Due to the holidays, vendors have adjusted their ordering deadlines and delivery schedules.

Please note the following changes to the usual ordering deadlines and plan accordingly:

For deliveries needed the week of 12/21/09, we will follow the normal schedule.

There will be NO animal deliveries the week of 12/28/09.

For deliveries needed the week of 1/4/10- orders must be in the PACUC office by Monday, 12/28/09.

### Animal Ordering Schedule for December

<table>
<thead>
<tr>
<th>Animal Ordering Schedule for December</th>
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<tbody>
<tr>
<td><strong>Meeting Date</strong></td>
</tr>
<tr>
<td>January 20</td>
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<tr>
<td>February 17</td>
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<tr>
<td>March 24</td>
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<tr>
<td>April 21</td>
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<tr>
<td>May 19</td>
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</tbody>
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### Spring 2010 PACUC Meeting Dates

<table>
<thead>
<tr>
<th>Meeting Date</th>
<th>Deadline Date for Submission of Protocols</th>
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<tbody>
<tr>
<td>January 20</td>
<td>December 30 at 5:00 p.m.</td>
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<tr>
<td>February 17</td>
<td>January 27 at 5:00 p.m.</td>
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<tr>
<td>March 24</td>
<td>March 3 at 5:00 p.m.</td>
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<tr>
<td>April 21</td>
<td>March 31 at 5:00 p.m.</td>
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<tr>
<td>May 19</td>
<td>April 28 at 5:00 p.m.</td>
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