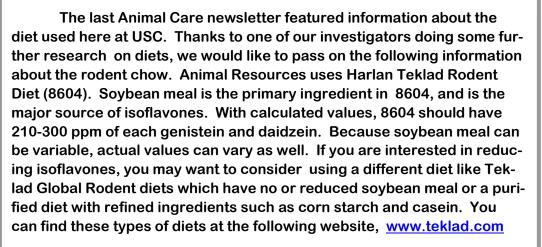


# **Animal Care Matters**

# An IACUC and ARF Newsletter

## From the IACUC Administrator

**Elizabeth Thames** 



#### Important Information to Know ...

For safety reasons, there are certain rules that must be followed when working in an Animal Resource facility. These rules are handed down to Animal Resources by the State of South Carolina and regulatory agencies like OSHA. Failure to follow these rule may result in individuals losing their privilege to work in the Animal Resource facility. In addition, continued failure to follow the rules can and will result in the suspension of animal use. Make sure every member of your lab understands these rules. Please read the following carefully.

- 1. Lab coats and closed toed shoes must be worn when handling animals.
- 2. Do not throw sharp items (needles, razor blades, etc) into the regular trash can or dust pans. All sharp items should be placed in a red sharps container.
- 3. Do not eat, drink or apply cosmetics in the animal rooms. Each facility has a designated space where animal users may eat and drink.
- 4. Do not smoke (cigarettes or other inhaled items) in the animal facilities.

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#### Words of the day

Moribund \MOR-uhbund\, adjective:

1. In a dying state; dying at the point of death

**Morbid** \ Mor-bid\, adjective:

1. Pertaining to affected with, or inducing disease; diseased

-For more information on endpoints see page 3 of this newsletter

### From the IACUC Chair

The IACUC is asking all investigators to write a cover letter when they submit a revised AUP. The cover letter should address all of the changes that were made to the AUP. It is the hope of the IACUC this process will help expedite the review of proposals. In addition, be sure to submit your AUP or amendment on the correct form. The IACUC will no longer accept AUPs or amendments written on old forms. The current version has VersionET2/2004 in the bottom right corner of the page. The IACUC will no longer accept Amendments simply written in a word document. All of the current forms are on the ARF web site (http://uscm.med.sc.edu/ARF/index.htm) under the "Forms" icon. If you have a problem with one of the forms, please contact Elizabeth.

The IACUC has issued guidance on the use of Endpoints in Animal Use Proposals (AUPs). The policy is included in this newsletter on page 3. This is the information the IACUC will refer to when reading your AUPs. If you have any questions about the information contained in the policy, please contact Dr Beattie or Elizabeth Thames for clarifications.

I would like to take the time to thank our departing community members- Mrs. Jan Ayers and Dr. Joe Hick. These two members have served tirelessly on the committee for several years and will be greatly missed. Thank you for all of your hard work.

Some numbers that might be of some use to you are:

- USC's PHS/NIH Assurance No. A3049-01
- Continued AAALAC accreditation since 1984
  -last accreditation- November 5, 2003
- USDA Registration No. 56-R-003



## ... continued from page 3

#### Recognizing Signs of Morbidity and Moribundity

The following are signs and symptoms for judging morbidity (disease/illness) and moribund condition (state of dying) in animals: Morbidity

- 1. Rapid breathing rate
- 2. Breathing rate very slow, shallow, and labored (preceded by rapid breathing)
- 3. Rapid weight loss
- 4. Ruffled fur (rough hair coat)
- 5. Hunched posture
- 6. Abnormal body temperature -less than 30°C (hypothermia) or Hyperthermia
- 7. Ulcerative dermatitis or infected tumors
- 8. Anorexia (loss of appetite)
- 9. Diarrhea or constipation

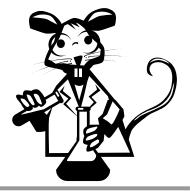
#### **Moribund Condition**

Signs and symptoms for morbidity plus:

1. Impaired ambulation (unable to reach food

or water easily)

- 2. Evidence of muscle atrophy or other signs of emaciation (body weight is not always appropriate)
- 3. Any obvious severe illness including such signs as lethargy (drowsiness, aversion to activity, lack of physical or mental alertness), anorexia (loss of appetite, especially when prolonged), bleeding, difficulty breathing, CNS disturbance, or chronic diarrhea
- 4. Inability to remain upright
- 5. Loss of consciousness
- Drop in body temperature below 28°C for a prolonged period (6 hours).



## **IACUC Policy on Endpoints in Animal Use Proposals**

Experimental studies may involve procedures that cause clinical symptoms or morbidity in animals. Ideally, studies should be terminated when the animals begin to exhibit clinical signs of disease (morbidity) if these endpoints are compatible with meeting the research objectives. Such endpoints minimize pain or distress and are preferable to death or moribundity as endpoints which can involve considerably more pain or distress.

Although infrequent, allowing animals to become moribund or die as endpoints may be necessary for some research projects. The moribund condition is defined as a clinically irreversible condition leading inevitably to death. In these studies, animals are permitted to die or become moribund as a result of experimental procedures, in some cases without the use of pain relieving measures, because such measures may compromise the integrity of the study.

It is the policy of the Institutional Animal Care and Use Committee (IACUC) that studies requiring moribundity or death as the endpoint will not be approved without specific written scientific justification. Animals that become moribund will be humanely killed by approved methods.

In those cases where death is the only acceptable endpoint, the investigator must provide an explicit explanation for this endpoint. Particular attention should be paid to providing the rationale for not humanely killing moribund animals, e.g., what additional scientific information will be gained.

Animal Study Proposals utilizing death or moribund condition as an endpoint should contain the following information:

- 1. The scientific rationale for death or moribund condition as an endpoint, including:
  - A. What alternatives were considered, why morbidity as an endpoint cannot be used, and how alternatives will be used whenever possible.
  - B. Why pain relieving measures cannot be utilized.
  - C. Number of animals to be used and assurance that this is the minimal number of animals required.

- D. Whether animals will be euthanized when moribund and if not, what information is to be gained in the interval between moribundity and death.
- 2. A plan for the following animal care and monitoring procedures:
  - A. Animals involved in experiments that may lead to a moribund condition or death will be monitored daily by personnel experienced in recognizing signs of morbidity (illness, injury, or abnormal behavior) for at least the following: abnormal posture, rough hair coat, head tucked into abdomen, exudate around eyes and/ or nose, skin lesions, or abnormal breathing, difficulty with ambulation, decreased food or water intake, or self mutilation.
  - B. The frequency of observation will be increased (including on weekends and holidays) when animals exhibit the above or other signs of moribundity. Designated personnel, including a veterinarian, should be notified as soon as animals show signs of disease. An assessment of the animals' condition should be made as soon as possible and a plan of action established.
  - C. Consideration will be given to moving animals to individual cages when their condition deteriorates to the point that injury from other animals is likely. Dead animals must be promptly removed.
  - D. Written records will be kept of monitoring.



SOUTH CAROLINA.			Campus Mail
ANIMAL CARE MATTERS			
An IACUC and ARF Newsletter			
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We're on the Web !! http://uscm.med.sc.edu/ ARF/index.htm			
Animal Care Matters is pu lished four times a year by the Ins tutional Animal Care and Use Cor		C Meetings	
mittee (IACUC) and Animal R source Facilities (ARF) of the Unive		2005	<u>CHAIRMAN</u> Ken Walsh, Ph.D.
sity of South Carolina (USC).	meeting	AUP	Ken Waish, Fli.D.
The IACUC is an institution body appointed by the USC Pres		Deadline	MEMBERS
dent to oversee the program for the humane care and use of all vert	ne	Dec 20	Robert Beattie, D.V.M. Mark Davis, Ph.D.
brate animals used for researc	h, Eala O	Jan 24	Richard Goodwin, Ph.D.
teaching, and training. Any inves gator who intends to use laborato	ry Mar 3	Feb 21	Steven Harrod, Ph.D. Marj Peña, Ph.D.
animals must submit an Animal Us Proposal (AUP) to the IACUC for i	se	Mar 28	Margaret Rentz
review and approval. The ARF provides care ar		Apr 25	Theresa Smith, Ph.D.
maintenance of all animals used I	oy Jun 2	May 23	Tyrone Washington Britt Wilson, Ph. D.
investigators. Preventive care provided through vendor anim	IS	Jun 27	Krishna Yekkala, D.V.M.

Aug 4

Sep 1

Oct 6

Nov 3

Dec 2

**Jul 25** 

Aug 22

Sep 26

**Oct 24** 

Nov 21

health evaluations, quarantine pro-

grams, and sentinel animal diagnos-

tics. Special care and services can

Animal Care Matters are welcome

and should be directed to Elizabeth

Thames, IACUC Administrator, at

777-8106 or elthames@gwm.sc.edu.

Comments and submissions for

be provided upon request.

COMMUNITY MEMBERS Don Thacker Barrett Alewine

> CONSULTANTS Tommy Coggins Charles Jeffcoat