



## Inspection Report

UNIV OF TENNESSEE KNOXVILLE OFF LAB

Customer ID: **843**

2621 MORGAN CIRCLE DR

Certificate: **63-R-0105**

Site: 001

UNIV. OF TN - KNOXVILLE

KNOXVILLE, TN 37996

Type: ROUTINE INSPECTION

Date: Mar-13-2009

### 2.33 (b) (3)

#### ATTENDING VETERINARIAN AND ADEQUATE VETERINARY CARE.

Sec. 2.33 Attending veterinarian and adequate veterinary care.

(b) Each research facility shall establish and maintain programs of adequate veterinary care that include:

(3) Daily observation of all animals to assess their health and well-being; Provided, however, That daily observation of animals may be accomplished by someone other than the attending veterinarian; and Provided, further, That a mechanism of direct and frequent communication is required so that timely and accurate information on problems of animal health, behavior, and well-being is conveyed to the attending veterinarian;

During the inspection, one dog was noted to have a one inch round pedunculated mass protruding from its ventral thorax. The mass was red and irritated looking. No records were available to determine that the mass had been observed and its presence communicated to the attending veterinarian. All health and well-being issues need to be observed and conveyed to the veterinarian in a timely manner so that the health and well-being of the animals can be maintained. The facility must maintain a mechanism by which all health and well-being related problems observed during daily observations by someone other than the attending veterinarian are conveyed to the attending veterinarian. Correct from this day forward.

Records reviewed: Dog and cat acquisition and disposition records, Fiscal year 2008 annual report, IACUC meeting minutes dated 11/6/07, 12/4/07, 1/8/08, 2/4/08, 2/20/08, 3/4/08, 4/1/08, 5/6/08, 6/3/08, 7/1/08, 8/5/08, 9/2/08, 10/7/08, 11/4/08, 12/4/08; Semiannual evaluation letters to IO dated 12/4/07, 6/3/08 and 12/9/08; dog and cat health records; Protocols 1320, 1345, 443, 1626 and 1720.

Inspection conducted by undersigned VMO and attending veterinarian, an additional VMO, one additional OLAC veterinarian and facility managers.

Exit interview conducted by undersigned VMO and attending veterinarian, an addition OLAC veterinarian, facility managers and IACUC members.

#### Prepared By:

SUSANNE BRUNKHORST, V M O USDA, APHIS, Animal Care

Date:

Title: VETERINARY MEDICAL OFFICER Inspector 1076

Mar-13-2009

#### Received By:

(b)(6), (b)(7)(c)

Date:

Title:

Mar-13-2009



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**2.31** (d) (4)

### **INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC).**

2.31(d) IACUC review of activities involving animals. (4) The IACUC shall notify principal investigators and the research facility in writing of its decision to approve or withhold approval of those activities related to the care and use of animals, or of modifications required to secure IACUC approval. If the IACUC decides to withhold approval of an activity, it shall include in its written notification a statement of the reasons for its decision and give the principal investigator an opportunity to respond in person or in writing...

\*A new protocol 1626 was approved on May 17, 2007 with the approved anesthetic being sodium pentobarbital. The Principal Investigator submitted a modification amendment for protocol 1626 to the IACUC office on 8/8/07 that requested approval to add two anesthetics to the protocol: 1) ketamine + xylazine and 2) isoflurane. An email dated 8/8/07 from one of the OLAC veterinarians let the IACUC office know that he had completed veterinary review and granted vet approval. The approval letter from the IACUC to the Principal Investigator dated 8/10/07 however only added ketamine/zylazine as the anesthetic agents to the protocol. Based on interviews with the PI's staff, it was determined that isoflurane is being used as the anesthetic.

\*Written notification to the PI of IACUC decisions is necessary to let the PI know when a proposed activity is approved and can thus be started. No animal activity may commence until IACUC approval is granted in writing.

\*The IACUC shall notify principal investigators and the research facility in writing of its decision to approve or withhold approval of those activities related to the care and use of animals. If the IACUC decides to withhold approval of an activity, it shall include in its written notification a statement of the reasons for its decision and give the principal investigator an opportunity to respond in person or in writing. Correct from this day forward.

**2.33** (b) (5)

### **ATTENDING VETERINARIAN AND ADEQUATE VETERINARY CARE.**

2.33(b) Each research facility shall establish and maintain programs of adequate veterinary care that include: (5) Adequate pre-procedural and post-procedural care in accordance with current established

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veterinary medical and nursing procedures.

\*1) Protocol 1626 involves surgery of hamsters. The protocol specifies the use of ketoprofen at surgery "to reduce pain and discomfort". Several specific post op monitoring parameters (to be done for 2 weeks post op) were stated in the protocol. There are no records available for review to reflect the anesthetic used, the administration of ketoprofen or the post op monitoring completed. Clinical case record for hamster BLA24 states that the hamster was found nonresponsive and that it had had surgery earlier in the week. There were no records available to assess the condition of the hamster between the date of the surgery and when the hamster was found unresponsive.

\*2) Protocol 1621 involves surgery in sheep. The protocol states that bupivacaine will be given at the time of surgery and that banamine would be given twice daily for two days post op. Four sheep records reviewed showed that one sheep did not receive bupivacaine (sheep 607). The post op records are either missing the pages for the two days immediately post op (177 and 602) or have records for multiple dates and multiple animals on the same sheet (607 and 098). In the latter case, as best as it could be determined, banamine was administered just once a day for the two days after surgery.

\*Appropriate peri-operative records should be maintained to ensure that animals are provided with appropriate pre-through post-procedural care and relief of pain and distress as approved in the protocol.

\*Appropriate post-operative records must be maintained in accordance with professionally accepted veterinary procedures. Correct from this day forward.

Records reviewed: IACUC meeting minutes 2007:1/19, 2/6, 2/22, 3/6, 4/3, 5/1, 6/5, 7/3, 8/7, 9/4, 10/2, and 11/6. Semiannual reviews 12/5/06 and 6/5/07. Canine exercise plan. Dog/cat acquisition records. Animal records: sheep 607, 098, 602, 177; C04067, E06019, E07040, R0082(F44) and several hamsters. Protocols: 1528, 443, 1621, 1543, 1600, 1118.

Inspection conducted by undersigned VMO, attending veterinarian, two additional OLAC veterinarians and facility managers.

Exit interview conducted by undersigned VMO and OLAC Director/AV, assistant director OLAC, Associate Dean, IACUC chair/vice chair/2 members/coordinator, 3 technicians, 2 managers, 1 dept. chair, 4 specialists.

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