Dec-17-2009



Title:

Increation Papert

	insp	ection Report	
UNIVERSITY O	F WISCONSIN-MADISON	R-0001	
DIRECTOR RE	IMAL RESOURCES CTR. SEARCH ANIMAL	Site: 001 ALL CAMPUS	SITES
1710 UNIVERSI MADISON, WI 5	JTINE INSPECTION -17-2009		
2.31 (c)	(3) L ANIMAL CARE AND USE COMMIT	TTEE (IACUC).	
(c)(3) IACUC fu shall:	nctions. With respect to activities invol	lving animals, the IACUC, as a	n agent of the research facility,
with reference to	must distinguish significant deficiencie o Subchapter A, and, in the judgment safety of the animals		
deficiencies. Th	inspections and program reviews did e IACUC must include plans for correct currence of the non-compliance.		
	Con	rect by: from this date forward	
2.31 (0	, ,, ,,		
(d) IACUC revies significant chan related to the casubchapter unless(ii) The prince slight pain or dissources,	ew of activities involving animals ges in ongoing activities, the IACUC s are and use of animals and determine ass acceptable justification for a depart cipal investigator has considered altern stress to the animals, and has provide used to determine that alternatives we at 1195, #A00810, #00664, #G00510, # all investigators had considered alterna light pain and/or distress to the animal	(1) In order to approve propose hall conduct a review of those that the proposed activities are ture is presented in writing; natives to procedures that may d a written narrative description are not available;	components of the activities in accordance with this cause more than momentary or of the methods and res. There is nothing to indicate edures that may cause more than
Prepared By:	DANNIE DARWOOM E COM	HODA ABILIO ATTAC	Better
Title:	DAWN E BARKSDALE, D V M VETERINARY MEDICAL OFFICER	USDA, APHIS, Animal Care Inspector 1062	Date: Dec-17-2009
Received By: (b)(6),(b)(7)(c) Date:			



Inspection Report Correct by: From this date forward 2.31 (d) (1)(viii) INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC). (d) IACUC review of activities involving animals. (1) In order to approve proposed activities or proposed significant changes in ongoing activities, the IACUC shall conduct a review of those components of the activities related to the care and use of animals and determine that the proposed activities are in accordance with this subchapter unless acceptable justification for a departure is presented in writing:....... Further, the IACUC shall determine that the proposed activities or significant changes in ongoing activities meet the following requirements:(viii) Personnel conducting procedures on the species being maintained or studied will be appropriately qualified and trained in those procedures;..... **In Protocol V846 there has been an unexpected high mortality rate in gerbils attributed to anesthesia. This has not been reported to the veterinary staff or to the IACUC. The research staff was not adequately trained to report incidents of this nature. Correct by: From this date forward 2.31 (d) (1)(ix) INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC). (d)(1)Further, the IACUC shall determine that the proposed activities or significant changes in ongoing activities meet the following requirements:.....(ix) Activities that involve surgery include appropriate provision for pre-operative and post-operative care of the animals in accordance with established veterinary medical and nursing practices....... **Protocol V1296: Under this protocol dogs undergo major survival surgeries after which they may be expected to develop acute, terminal renal failure, which did occur in at least two dogs on the study. The post-operative care for these dogs, as approved in the protocol, calls for the administration of subcutaneous fluids to the dogs postoperatively instead of intravenous fluid therapy. This post-operative treatment is not in accordance with established veterinary medical practices, and the protocol contains no scientific justification for such a departure. Correct by: From this date forward 2.31 (d) INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC). (7) If the IACUC suspends an activity involving animals, the Institutional Official, in consultation with the IACUC, shall review the reasons for suspension, take appropriate corrective action, and report that action with a full explanation to APHIS and any Federal agency funding that activity;......

Prepared By: DAWN E BARKSDALE, D V M USDA, APHIS, Animal Care Date: VETERINARY MEDICAL OFFICER Inspector 1062 Title: Dec-17-2009 Received By: (b)(6),(b)(7)(c) Date: Title: Dec-17-2009 Page 2 of 10



**Protocols L294, M1486, M1640 were suspended by the ACUC in February 2009, however, no notification was provided to APHIS by the Institutional Official regarding the reasons for suspension and the corrective actions that had been taken.

Correct by: January 10, 2010

2.31 (e) (3)

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE (IACUC).

-(e) A proposal to conduct an activity involving animals, or to make a significant change in an ongoing activity involving animals, must contain the following:.....(3) A complete description of the proposed use of the animals......
- Review of Protocol #A01245: The protocol includes the administration of several substances by means of needle/syringe injection or with a novel medical device system. The description of the proposed use of the animals contains insufficient detail to follow exactly what procedures will be done to the animals from the beginning of the study until the study's conclusion.
- Review of Protocol #A00810: The protocol studies cardiac electrical activity in swine. The narrative of this protocol refers to the following:
- Performing ablation of liver, kidney and lung as part of the study but includes no specific details.
- A statement about external stimulation of brain tissues but includes no specific details.
- c. The surgical training portion of the protocol is mentioned, however, there is an insufficient description of the proposed use of the animals for the training portion.

A proposal for animal use must contain a complete description of the proposed use of the animals so the IACUC can determine that the proposed activities meet the requirements outlined under 2.31 (d) (1).

Correct by: From this date forward

2.32 (a)

PERSONNEL QUALIFICATIONS.

- **A technician was observed inadequately restraining a non-human primate in a squeeze cage requiring her to make several attempts to administer an anesthetic via syringe. It is the responsibility of the facility to ensure that animal care staff are properly trained and qualified to perform their duties.

Correct by: From this date forward

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2.33 (b) (1)

ATTENDING VETERINARIAN AND ADEQUATE VETERINARY CARE.

(b) Each research facility shall establish and maintain programs of adequate veterinary care that include: (1) The availability of appropriate facilities, personnel, equipment, and services to comply with the provisions of this subchapter;

**In Building O, Rooms 3244A & 3244B are used for major operative survival surgical procedures. The following items were identified in these rooms after having been cleaned following surgical procedures: 1. rusty base of IV stand and shelves/side bar of steel cart; 2. hair clippings on a table; 3. drips/splatter residue on wall; 4. excessive accumulation of dirt on air vents; 5. dark colored material on front drawers of anesthesia machine. These items can interfere with effective sanitation and may compromise aseptic procedures performed in this room. It is the responsibility of the facility to ensure appropriate facilities and equipment are available as set forth in this section in order to promote the health and well-being of the animals.

Correct by December 17, 2009

2.33 (b) (2)

ATTENDING VETERINARIAN AND ADEQUATE VETERINARY CARE.

- (b) Each research facility shall establish and maintain programs of adequate veterinary care that include: (2) The use of appropriate methods to prevent, control, diagnose, and treat diseases and injuries, and the availability of emergency, weekend, and holiday care;
- Use of Chemical grade compounds
- a. A bottle with a label stating "saturated Potassium Chloride", (KCL) was noted in Building T, Rm142D. It was being used to euthanize swine under protocols #A00664, A00810, and A01195.
- b. Protocol #A01245 calls for the administration of "Sodium Salicylate, USP grade from Sigma" to swine as part of the proposal for animal use. The approved proposal does not contain any scientific justification for the use of a chemical grade compound when pharmaceutical grade sodium salicylate for injection is available. Non pharmaceutical grade chemical compounds must only be used when veterinary or human pharmaceutical grade products are not available or for scientific reasons with the approval of the IACUC.
- The following outdated drugs or medical supplies were identified in various locations of the facility as noted:
- a. Building I, Room109: Acetaminophen liquid, 1 oz bottle, #1, exp 11/09.
- Building M, Triple antibiotic ophthalmic, tube #1, exp 5/09.
- c. Building M, Room 232: Chlorhexidine solution, gallon bottle, #1, exp 6/09.
- d. Building J, Room 658: Betadine solution, gallon bottle, #1, exp 11/08; Betadine solution 32 oz bottle, #1 exp 11/06 and #1 exp 2/07; Ophthalmic lube, tube #2; exp 7/08; Lactated Ringers Solution bag 500 ml, #1, exp 4/09

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- Building J, Room 575: Cyprofloxicin ophthalmic, tube #1, exp 9/02; Lubricant jelly tube, #1, exp 1/85
- f. Building F, Room 142: Furosamide, 50 ml bottle, #1, exp 7/09; Lidocaine, 100 ml bottle, #1, exp 8/07; Propofol, 50 ml bottle, #4, exp 11/1/08; Ketamine, 10 ml bottle, #2, exp 4/08; Dexamethasone 4 mg/ml, 30 ml bottle, #1, exp 11/08.
- g. Building O, Room 3244: Ophthalmic lube, tube #1, exp 3/08; Nexaband solution, #1, exp 12/01.
- h. Building O, Room 3243: Plastic bottle containing brown liquid that was labeled "Povidone Iodine Solution" that did not include the exp date of the contents of the bottle.
- Building O, Room 243: 3.0 Maxon suture packets, #12, exp 5/09; Red top tubes, #75, exp 9/08; Sterile water for injection, 10 ml bottle, #1, exp 2/1/08,
- j. Building T, Room 142D: Sterile water for injection, 20 ml bottle, #1, exp 3/07; Halothane 250 ml bottles, #1 exp 1/04, #1 exp 3/08, #1 exp 5/09; Isoflurane 250 ml bottles, #2, exp 7/08; Pentothal 1 gm bottles, #3, exp 9/1/06; Fentanyl, 50 ml bottle, #1, exp 9/1/06; Omnipaque contrast agent, 50 ml bottles, #1 exp 10/21/06, #1 exp 7/3/09; Lactated Ringers Solution bag 1000 ml, #8 exp 1/1/07, #3 exp 7/07; 0.9% Sodium Chloride bag 1000 ml, #2 exp 5/09

The use of outdated medications may not be safe or efficacious and is not considered an acceptable standard of veterinary practice. The IACUC and attending veterinarians need to address this issue.

Correct by: From this date forward.

2.33 (b) (3) DIRECT NCI

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........
- 1. In Building P, Room 310B the following was observed: Gerbil #1 was thin with sunken flanks, had difficulty breathing with some open mouthed breathing; was wobbly and weak having been unrecognized by facility personnel. Necropsy findings revealed; "that this animal had a body condition score of 1 out of 5, the subcutis had neglible body fat and the thoracic cavity contained moderately abundant red watery pleural effusion."
- 2. Review of medical records for dogs #BDW8, #SRS-6, and TJG-7 on Protocol #V01296 revealed the following: All of these dogs had a major operative procedure as described in the proposal. Post-operatively dog #BDVW8's medical records contained notations that it had sub-mandibular, cervical and facial edema; #SRS-6's medical records stated this dog was not eating, was vomiting, very depressed, had edema and not producing urine; TJG-7's medical records stated this animal was very depressed, vomiting and not producing urine. There was no documentation in the animals' medical records that the changes observed in the dogs' condition were conveyed to the attending veterinarian for evaluation and assessment.

It is the responsibility of the research facility and research staff to have a mechanism of direct and frequent

Prepared By:			
	DAWN E BARKSDALE, D V M	USDA, APHIS, Animal Care	Date:
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communication to ensure that problems of animal health and/or behavior are conveyed in a timely manner to the attending veterinarian for evaluation and assessment to ensure the health and well-being of the animals.

Correct by: From this day forward

3.2 (b)

INDOOR HOUSING FACILITIES.

- (b) Ventilation. Indoor housing facilities for dogs and cats must be sufficiently ventilated at all times when dogs or cats are present to provide for their health and well-being, and to minimize odors, drafts, ammonia levels, and moisture condensation......
- 1. Building O,Room 2429: Two dogs were being housed in this room at the time of the inspection. There was a strong odor of dog urine noted immediately upon entering the room. The enclosures did not contain urine or feces, the unoccupied enclosures in the room were clean, and there was no obvious source of the strong odor. Indoor housing facilities must be sufficiently ventilated to minimize odors. The facility needs to assess the ventilation system servicing this room to provide for the health and well-being of the dogs.

Correct by December 17, 2009

3.11 (c)

CLEANING, SANITIZATION, HOUSEKEEPING, AND PEST CONTROL.

- (c) Housekeeping for premises. Premises where housing facilities are located, including buildings and surrounding grounds, must be kept clean and in good repair to protect the animals from injury, to facilitate the husbandry practices required in this subpart,......
- **The air filters above the animal enclosures in Building A, Room K4/150 had an excessive accumulation of debris. No notation was found in the log to indicate the filters had been changed in the month of November. The filters should be cleaned and maintained in a manner to prevent the accumulation of debris in order to facilitate proper husbandry practices and promote the health and well being of the animals.

Correct by December 17, 2009

3.75 (a)

HOUSING FACILITIES, GENERAL.

-(a) Housing facilities for nonhuman primates must be designed and constructed so that they are structurally sound for the species of nonhuman primates housed in them. They must be kept in good repair......
- There were areas of flaking and peeling paint on the ceiling above occupied animal enclosures in Building L, Room L-144 and Building K, Rooms 428C and B11.
- Building M, Room 251: The cover of a ceiling mounted light fixture above an occupied primary enclosure housing

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two animals was hanging down as a result of a broken clip, and water had accumulated inside the light fixture cover.

Correct by January 15, 2010.

3.75 (e)

HOUSING FACILITIES, GENERAL.

- There were open supplies of primate food not stored in a container with a tightly fitting lid to prevent spoilage and contamination in the SPF kitchen. There was a plastic bucket with a broken top containing marshmallows in the cabinet and an uncovered pan containing cut up pieces of fruit inside the walk-in refrigerator.
- Cooling vests were stored inside the walk-in refrigerators on a shelf in two different refrigerators in Building L.
- Employees in Building L were observed cutting primate diet with a spray bottle of cleaning liquid on the table next to where food was being prepared.
- Building M, Room 337: Primate chow in bags was stored on a table directly against the walls.
- Building L, SPF Kitchen: Cartons of fruit were stored on the floor of the walk-in refrigerator.

Supplies of food for primates should be stored in a manner to protect the food supplies from spoilage, contamination and vermin infestation. The facility needs to address this issue of food storage for the health and well-being of the primates.

Correct by December 17, 2009

3.75	(f)
HOUSING F	ACILITIES, GENERAL.
(f) Tras	sh containers in housing facilitiesmust have tightly fitted lids on them at all times

Building M: There were uncovered trash containers located in several primate testing rooms that did not have a
tightly fitted lid. Per this section, there must be a tightly fitting lid present on trash containers in primate housing
facilities at all times to minimize odors and disease hazards.

Correct by December 17, 2009

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3.80 (E		(2) JRES.	(ii)		
(a)(2) P nonhuman prim	-			ed and maintained so that they	:ii) Protect the
	ates in			mals in Building M. One of the l of the outermost layer of red ru	hoses on top of an enclosure ubber as a result of the animals
				injury. Ingestion of foreign mat ng the inspection by replacing t	
			Co	prrected during the inspection	
3.84 (c)				
CLEANING, SA	ANITIZ	OITAS	N, HOUSEKEEPING, A	ND PEST CONTROL.	
grounds, must b	be kep	t clear		rder to protect the nonhuman p	uding buildings and surrounding orimates from injury, to facilitate the
1. Building L, R	oom 1	09: Sid	les of the floor drain we	re dirty and had particulate deb	oris and Betadine on its surface.
cages are clear home cages. The	ned ar he tex	nd sanit tured c	ized. The rolling cages	y were dirty, and the ceiling was	olling cages while their home allway until being returned to their s within reach of the non-human
3. Building M, F	Room	16: Dirt	y ceiling mounted air fil	ter.	
 Building L, R accessible to th 			eather restraint glove w	as located on the top of an occ	upied primary enclosure and was
Building M, F wall in the back			_	s dirty and had dried, dark color	red spots/splashes on the upper
			be kept clean and in go sbandry practices requi	ood repair in order to protect the red in this subpart,	e nonhuman primates from
			Co	prrect by December 17, 2009	
Prepared By:					
	DAV	NN E E	BARKSDALE, D V M	USDA, APHIS, Animal Care	Date:
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3.125 (a)

FACILITIES, GENERAL.

- (a) Structural strength. The facility must be constructed of such material and of such strength as appropriate for the animals involved. The indoor and outdoor housing facilities shall be structurally sound and shall be maintained in good repair to protect the animals from injury and to contain the animals.......
- Building D, Holding Barn: Metal flashing on one of the corners of the holding barn had been damaged exposing
 jagged edges. The corner of the holding barn should be repaired in order to prevent injury to the animals housed in
 the area.
- 2. Building T, Room 115: The floor of one pen housing a large adult male pig was comprised of narrow slats/grate system. The animal's feet continually slid on the floor surface as he walked around the enclosure. The animal's feet slipped out from under him causing him to fall down several times. Other animals in the room were also observed to slide on the portion of their pens that had a solid concrete surface. The facility should be constructed in a manner that is structurally sound and maintained in a manner to protect the animals from injury as set forth in this section.

Correct by December 17, 2009

3.131 (c) SANITATION.

-(c) Housekeeping. Premises (buildings and grounds) shall be kept clean and in good repair in order to protect the animals from injury and to facilitate the prescribed husbandry practices set forth in this subpart......
- The wooden shelves in the feed/bedding storage room of Building J were not sealed or impervious to moisture.
 The unsealed surfaces could interfere with effective cleaning and sanitation of the shelving. The facility needs to address this issue.
- 2. Building J, Room 662: Facility personnel stated that investigator staff is responsible for cleaning the room after animals are moved out. Animals had been housed in this room and it had already been cleaned. There were wooden shavings and animal waste present on the shelves where the enclosures were placed, there was a thick layer of dust on various surfaces in the rooms, and the wall in the back corner of the room was dirty.
- Building J, Room 663: Assorted equipment and cleaning implements were stored on the same shelf adjacent to primary enclosures housing regulated species.
- Building J, Room 575: There was a thick layer of dust on the ceiling mounted air vent in the room that housed chinchillas and the ceiling surface next to the air vent was dirty.
- Building O, Room 3243: There was dried blood on the outside surface of the drawers and on the wall adjacent to the sharps container in the room.

Prepared By:			
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Inspection Report

- Building T, Room 115: Broken ceiling mounted light fixture cover above pen housing one pig.
- Heifer area at Building G had not been adequately cleaned and cleared of hay, manure and debris. Livestock panels enclosing the area were not secure and were leaning from their supports in several areas.

Correct by December 17, 2009

3.131 (d) SANITATION.

Title:

(d) Pest control. A safe and effective program for the control of insects, ectoparasites, and avian and mammalian pests shall be established and maintained......

**There was an excessive accumulation of flies in Building T Room 115. It is the responsibility of the facility to ensure that a pest control program is in place in order to control insects and/or pests in order to promote the health and wellbeing of the animals.

Correct by December 17, 2009.

THIS IS A CORRECTED COPY OF INSPECTION REPORT 343091838450594, DATED DECEMBER 10, 2009.

Note: This was a full facility inspection conducted 12/1/09 through 12/10/09 by Drs. Robert Willems, Paula Gladue, Michael Smith and Dawn Barksdale with the exit interview on 12/10/09.

Prepared By:

DAWN E BARKSDALE, D V M USDA, APHIS, Animal Care Date:

Title: VETERINARY MEDICAL OFFICER Inspector 1062 Dec-17-2009

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