

**SEMI-ANNUAL PROGRAMMATIC REVIEW  
UNIVERSITY OF ILLINOIS AT CHICAGO**

**Date:** November 3-4 and 10-11, 2020, as part of triennial AAALAC site visit

An evaluation of the program of animal care and use at the University of Illinois at Chicago was conducted using the 8<sup>th</sup> edition of the *Guide for the Care and Use of Laboratory Animals (Guide)* and the USDA Regulations and Standards.

AAALAC site visit team: [REDACTED]

The following members of the ACC took part in the AAALAC site visit review: Dr. Fortman, [REDACTED] Dr. Lasek, [REDACTED].  
[REDACTED]

Additional members of the institution that also took part during the site visit:

BRL veterinarians and post-doctoral veterinarians in addition to those on the ACC: [REDACTED]  
[REDACTED].

Institutional Official: [REDACTED]

Director, OACIB: [REDACTED]

BRL Associate Director of Laboratory Animal Care: [REDACTED]

BRL Supervisor: [REDACTED]

UIC animal care and veterinary technical staff

**Significant deficiencies:**

YES	NO
X	

**Departures from Guide:**

YES	NO
X	

**Departures from A WARs**

YES	NO
	X

<b>1. Animal Care and Use Program</b>	<b>A</b>	<b>MI</b>	<b>S</b>	<b>C</b>	<b>NA</b>
• Responsibility for animal well-being is assumed by all members of the program ( <i>Guide, p 1</i> ) [must]	X				
• IO has authority to allocate needed resources ( <i>Guide, p 13</i> )	X				
• Resources necessary to manage program of veterinary care are provided ( <i>Guide, p 14</i> ) [must]	X				
• Sufficient resources are available to manage the program, including training of personnel in accord with regulations and the <i>Guide</i> ( <i>Guide, pp 11, 15</i> )	X				
• Program needs are regularly communicated to IO by AV and/or IACUC ( <i>Guide, p 13</i> )	X				
• Responsibilities for daily animal care and facility management are assigned to specific individual(s) when a full-time veterinarian is not available on site ( <i>Guide, p 14</i> ) [must]					X
• Procedures are in place for Inter-institutional collaborations including ensuring IACUC approval ( <i>Guide, p 15</i> )	X				
<b>2. Disaster Planning and Emergency Preparedness</b>	<b>A</b>	<b>MI</b>	<b>S</b>	<b>C</b>	<b>NA</b>
• Disaster plans for each facility to include satellite locations are in place ( <i>Guide, p 35, p 75</i> ) [must]	X				
• Plans include provisions for euthanasia ( <i>Guide, p 35</i> ) [must]	X				
• Plans include triage plans to meet institutional and investigators' needs ( <i>Guide, p 35</i> )	X				
• Plans define actions to prevent animal injury or death due to HVAC or other failures ( <i>Guide, p 35</i> )	X				
• Plans describe preservation of critical or irreplaceable animals ( <i>Guide, p 35</i> )	X				
• Plans include essential personnel and their training ( <i>Guide, p 35</i> )	X				
• Animal facility plans are approved by the institution and incorporated into overall response plan ( <i>Guide, p 35</i> )	X				
• Law enforcement and emergency personnel are provided a copy and integration with overall plan is in place ( <i>Guide, p 35</i> )	X				
<b>3. IACUC</b>	<b>A*</b>	<b>MI</b>	<b>S</b>	<b>C</b>	<b>NA</b>
• Meets as necessary to fulfill responsibilities ( <i>Guide, p 25</i> ) [must]	X				
• IACUC Members named in protocols or with conflicts recuse themselves from protocol decisions ( <i>Guide, p 26</i> ) [must]	X				
• Continuing IACUC oversight after initial protocol approval is in place ( <i>Guide, p 33</i> )	X				
• IACUC evaluates the effectiveness of training programs ( <i>Guide, p 15</i> )	X				
<b>4. IACUC Protocol Review - Special Considerations</b>	<b>A*</b>	<b>MI</b>	<b>S</b>	<b>C</b>	<b>NA</b>
• Humane endpoints are established for studies that involve tumor models, infectious diseases, vaccine challenge, pain modeling, trauma, production of monoclonal antibodies, assessment of toxicologic effects, organ or system failure, and models of cardiovascular shock ( <i>Guide, p 27</i> )	X				
• For pilot studies, a system to communicate with the IACUC is in place ( <i>Guide, p 28</i> )	X				

• For genetically modified animals, enhanced monitoring and reporting is in place ( <a href="#">Guide, p 28</a> )	X				
• Restraint devices are justified in the animal use protocols ( <a href="#">Guide, p 29</a> ) [must]	X				
• Alternatives to physical restraint are considered ( <a href="#">Guide, p 29</a> )	X				
• Period of restraint is the minimum to meet scientific objectives ( <a href="#">Guide, p 29</a> )	X				
• Training of animals to adapt to restraint is provided ( <a href="#">Guide, p 29</a> )	X				
• Animals that fail to adapt are removed from study ( <a href="#">Guide, p 29</a> )	X				
• Appropriate observation intervals of restrained animals are provided ( <a href="#">Guide, p 29</a> )	X				
• Veterinary care is provided if lesions or illness result from restraint ( <a href="#">Guide, p 30</a> ) [must]	X				
• Explanations of purpose and duration of restraint are provided to study personnel ( <a href="#">Guide, p 30</a> )	X				
• Multiple surgical procedures on a single animal are justified and outcomes evaluated ( <a href="#">Guide, p 30</a> )	X				
• Major versus minor surgical procedures are evaluated on a case-by-case basis ( <a href="#">Guide, p 30</a> )	X				
• Multiple survival procedure justifications in non-regulated species conform to regulated species standards ( <a href="#">Guide, p 30</a> )	X				
• Animals on food/fluid restriction are monitored to ensure nutritional needs are met ( <a href="#">Guide, p 31</a> )	X				
• Body weights for food/fluid restricted animals are recorded at least weekly ( <a href="#">Guide, p 31</a> )	X				
• Daily written records are maintained for food/fluid restricted animals ( <a href="#">Guide, p 31</a> )	X				
• Pharmaceutical grade chemicals are used , when available, for animal-related procedures ( <a href="#">Guide, p 31</a> )	X				
• Non-pharmaceutical grade chemicals are described, justified, and approved by IACUC ( <a href="#">Guide, p 31</a> )	X				
• Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulations applicable in study area ( <a href="#">Guide, p 32</a> )	X				
• Disposition plans are considered for species removed from the wild ( <a href="#">Guide, p 32</a> )	X				
• Toe-clipping only used when no alternative, performed aseptically and with pain relief ( <a href="#">Guide, p 75</a> )	X				
<b>5. IACUC Membership and Functions</b>	<b>A*</b>	<b>MI</b>	<b>S</b>	<b>C</b>	<b>NA</b>
• IACUC is comprised of at least 5 members, appointed by IO who has delegated responsibility (PHS Policy, <a href="#">IV.A.3.</a> )	X				
• Members include a veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab animal user ( <a href="#">Guide, p 24</a> )	X				
• IACUC authority and resources for oversight and evaluation of institution's program are provided ( <a href="#">Guide, p 14</a> )	X				
• IACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, <a href="#">IV.B.</a> )	X				
• IACUC conducts semiannual evaluation of the social housing and enrichment program	X				

• Conducts semiannual inspections of institutional animal facilities (PHS Policy, <a href="#">IV.B.</a> )	X				
• IACUC organizationally reports to the Institutional Official (PHS Policy, <a href="#">IV.A.1.b.</a> )	X				
• Methods for reporting and investigating animal welfare concerns are in place ( <i>Guide</i> , <a href="#">p 23</a> ) [must]	X				
• Reviews and investigates concerns about animal care and use at institution <sup>i</sup> (PHS Policy, <a href="#">IV.B.</a> )	X				
• Procedures are in place for review, approval, and suspension of animal activities <sup>ii</sup> (PHS Policy, <a href="#">IV.B.</a> )	X				
• Procedures are in place for review and approval of significant changes to approved activities (PHS Policy, <a href="#">IV.B.</a> )	X				
• Policies are in place for special procedures (e.g., genetically modified animals, restraint, multiple survival surgery, food and fluid regulation, field investigations, agricultural animals) ( <i>Guide</i> , <a href="#">p 27-32</a> )	X				
• Requests for exemptions from major survival surgical procedure restrictions are made to USDA/APHIS ( <i>Guide</i> , <a href="#">p 30</a> ) [must]	X				

**6. IACUC Training** **A\* MI S C NA**

○ Formal orientation to institution's program ( <i>Guide</i> , <a href="#">p 17</a> )	X				
○ Training on legislation, regulations, guidelines, and policies ( <i>Guide</i> , <a href="#">p 17</a> )	X				
○ Training on how to inspect facilities and labs where animal use or housing occurs ( <i>Guide</i> , <a href="#">p 17</a> )	X				
○ Training on how to review protocols as well as evaluate the program ( <i>Guide</i> , <a href="#">p 17</a> )	X				
○ Ongoing training/education ( <i>Guide</i> , <a href="#">p 17</a> )	X				

**7. IACUC Records and Reporting Requirements** **A MI S C NA**

○ Submitted to IO every 6 months	X				
○ Compiles program review and facility inspection(s) results (includes all program and facility deficiencies)	X				
○ Includes minority IACUC views	X				
○ Describes IACUC-approved departures from the <i>Guide</i> or PHS Policy and the reasons for each departure	X				
○ Distinguishes significant from minor deficiencies	X				
○ Includes a plan and schedule for correction for each deficiency identified	X				
○ Annual report to OLAW documents program changes, dates of the semiannual program reviews and facility inspections and includes any minority views	X				
○ Promptly advises OLAW of serious/ongoing <i>Guide</i> deviations or PHS Policy noncompliance ( <a href="#">NOT-OD-05-034</a> )	X				
○ Institute must promptly advise OLAW of any suspension of an animal activity by the IACUC ( <a href="#">NOT-OD-05-034</a> )	X				
○ Annual report to USDA contains required information including all exceptions/exemptions	X				
○ Reporting mechanism to USDA is in place for IACUC-approved exceptions to the regulations and standards	X				

○ Reports are filed within 15 days for failures to adhere to timetable for correction of significant deficiencies	X				
○ Promptly reports suspensions of activities by the IACUC to USDA and any Federal funding agency	X				
○ IACUC meeting minutes and semiannual reports to the IO are maintained for 3 years	X				
○ Records of IACUC reviews of animal activities include all required information	X				
○ Records of IACUC reviews are maintained for 3 years after the completion of the study	X				

### 8. Personnel Qualifications and Training

	A	MI	S	C	NA
○ Veterinary/other professional staff ( <i>Guide, p 15-16</i> )	X				
○ IACUC members ( <i>Guide, p 17</i> )	X				
○ Animal care personnel ( <i>Guide, p 16</i> )	X				
○ Research investigators, instructors, technicians, trainees, and students ( <i>Guide, pp 16-17</i> )	X				
• Continuing education for program and research staff provided to ensure high quality care and reinforce training ( <i>Guide, pp 16-17</i> )	X				
• Training is available prior to starting animal activity ( <i>Guide, p 17</i> )	X				
• Training is documented ( <i>Guide, p 15</i> )			X		
○ Methods for reporting concerns ( <i>Guide, p 17</i> )	X				
○ Humane practices of animal care (e.g., housing, husbandry, handling)	X				
○ Humane practices of animal use (e.g., research procedures, use of anesthesia, pre- and post-operative care, aseptic surgical techniques and euthanasia ( <i>Guide, p 17</i> )	X				
○ Research/testing methods that minimize numbers necessary to obtain valid results (PHS Policy, <a href="#">IV.A.1.g.</a> )	X				
○ Research/testing methods that minimize animal pain or distress (PHS Policy, <a href="#">IV.A.1.g.</a> )	X				
○ Use of hazardous agents, including access to OSHA chemical hazard notices where applicable ( <i>Guide, p 20</i> )	X				
○ Animal care and use legislation ( <i>Guide, p 17</i> )	X				
○ IACUC function ( <i>Guide, p 17</i> )	X				
○ Ethics of animal use and Three R's ( <i>Guide, p 17</i> )	X				

### 9. Occupational Health and Safety of Personnel

	A	MI	S	C	NA
• Program is in place and is consistent with federal, state, and local regulations ( <i>Guide, p 17</i> ) [must]	X				
• Program covers <i>all</i> personnel who work in laboratory animal facilities ( <i>Guide, p 18</i> )	X				
• Changing, washing, and showering facilities are available as appropriate ( <i>Guide, p 19</i> )	X				
• Hazardous facilities are separated from other areas and identified as limited access ( <i>Guide, p 19</i> )	X				

• Personnel training is provided based on risk (e.g., zoonoses, hazards, personal hygiene, special precautions, animal allergies) ( <i>Guide, p 20</i> )		X				
• Personal hygiene procedures are in place (e.g., work clothing, eating/drinking/smoking policies) ( <i>Guide, p 20</i> )	X					
• Procedures for use, storage, and disposal of hazardous biologic, chemical, and physical agents are in place ( <i>Guide, p 21</i> )		X				
• Personal Protective Equipment for the work area is appropriate and available ( <i>Guide, p 21</i> )	X					
○ Pre-employment evaluation including health history based on risk analysis ( <i>Guide, p 22</i> )		X				
○ Immunizations as appropriate (e.g., rabies, tetanus) and tests as appropriate ( <i>Guide, p 22</i> )	X					
○ Zoonosis surveillance as appropriate (e.g., Q-fever, tularemia, Hantavirus, plague) ( <i>Guide, p 23</i> )	X					
○ Procedures for reporting and treating injuries, including accidents, bites, allergies, etc. ( <i>Guide, p 23</i> )	X					
○ Promotes early diagnosis of allergies including preexisting conditions ( <i>Guide, p 22</i> )	X					
○ Considers confidentiality and other legal factors as required by federal, state and local regulations ( <i>Guide, p 22</i> ) [must]	X					
○ If serum samples are collected, the purpose is consistent with federal and state laws ( <i>Guide, p 22</i> ) [must]	X					
• Waste anesthetic gases are scavenged ( <i>Guide, p 21</i> )		X				
• Hearing protection is provided in high noise areas ( <i>Guide, p 22</i> )	X					
• Respiratory protection is available when performing airborne particulate work ( <i>Guide, p 22</i> )	X					
○ Tuberculosis screening provided for all exposed personnel ( <i>Guide, p 23</i> )	X					
○ Training and implementation of procedures for bites, scratches, or injuries associated with macaques ( <i>Guide, p 23</i> )	X					
○ PPE is provided including gloves, arm protection, face masks, face shields, or goggles ( <i>Guide, p 21</i> )	X					
○ Injuries associated with macaques are carefully evaluated and treatment implemented ( <i>Guide, p 23</i> )	X					
• Occupational safety and health of field studies is reviewed by UHS ( <i>Guide, p 32</i> )	X					
<b>10. Personnel Security</b>		<b>A</b>	<b>MI</b>	<b>S</b>	<b>C</b>	<b>NA</b>
• Preventive measures in place include pre-employment screening, and physical and IT security ( <i>Guide, p 23</i> )	X					
<b>11. Investigating &amp; Reporting Animal Welfare Concerns</b>		<b>A</b>	<b>MI</b>	<b>S</b>	<b>C</b>	<b>NA</b>
• Methods for investigating and reporting animal welfare concerns are established ( <i>Guide, p 23</i> ) [must]	X					
• Reported concerns and corrective actions are documented ( <i>Guide, p 24</i> )	X					
• Mechanisms for reporting concerns are posted in facility and at applicable website with	X					

instructions ( <i>Guide, p 24</i> )					
o Includes multiple contacts ( <i>Guide, p 24</i> )	<b>X</b>				
o Includes anonymity, whistle blower policy, nondiscrimination and reprisal protection ( <i>Guide, p 24</i> )	<b>X</b>				



<b>A. Veterinary Care</b>						
<b>1. Veterinary Care</b>	<b>A</b>	<b>MI</b>	<b>S</b>	<b>C</b>	<b>NA</b>	
• An arrangement for veterinarian(s) with training or experience in lab animal medicine is in place including backup veterinary care	X					
• Veterinary access to all animals is provided ( <i>Guide, p 14</i> ) [must]	X					
• Direct or delegated authority is given to the veterinarian to oversee all aspects of animal care and use ( <i>Guide, p 14</i> ) [must]	X					
• Veterinarian provides consultation when pain and distress exceeds anticipated level in protocol ( <i>Guide, p 5</i> ) [must]	X					
• Veterinarian provides consultation when interventional control is not possible ( <i>Guide, p 5</i> ) [must]	X					
• If part time /consulting veterinarian, visits meet programmatic needs ( <i>Guide, p 14</i> )					X	
• Regular communication occurs between veterinarian and IACUC ( <i>Guide, p 14</i> )	X					
• Veterinarian(s) have experience and training in species used ( <i>Guide, p 15</i> ) [must]	X					
• Veterinarian(s) have experience in facility administration/management ( <i>Guide, p 15</i> )	X					
<b>2. Clinical Care and Management</b>	<b>A</b>	<b>MI</b>	<b>S</b>	<b>C</b>	<b>NA</b>	
• Veterinary program offers high quality of care and ethical standards ( <i>Guide, p 105</i> ) [must]	X					
• Veterinarian provides guidance to all personnel to ensure appropriate husbandry, handling, treatment, anesthesia, analgesia, and euthanasia ( <i>Guide, p 106</i> )	X					
• Veterinarian provides oversight to surgery and perioperative care ( <i>Guide, p 106</i> )	X					
• Veterinary care program is appropriate for program requirements ( <i>Guide, pp 113-114</i> )	X					
• Veterinarian(s) is familiar with species and use of animals and has access to medical and experimental treatment records ( <i>Guide, p 114</i> )	X					
• Procedures to triage and prioritize incident reports are in place ( <i>Guide, p 114</i> )	X					
o Problems with experiments to determine course of treatment in consultation with investigator( <i>Guide, p 114</i> )	X					
o Recurrent or significant health problems with the IACUC and documentation of treatments and outcomes ( <i>Guide, p 114</i> )	X					
o Veterinary review and oversight of medical and animal use records ( <i>Guide, p 115</i> )	X					
• Procedures established for timely reporting of animal injury, illness, or disease ( <i>Guide, p 114</i> ) [must]	X					
• Procedures established for veterinary assessment, treatment, or euthanasia ( <i>Guide, p 114</i> ) [must]	X					
• Veterinarian is authorized to treat, relieve pain, and/or euthanize ( <i>Guide, p 114</i> ) [must]	X					

<b>3. Animal Procurement and Transportation/Preventive Medicine</b>	<b>A</b>	<b>MI</b>	<b>S</b>	<b>C</b>	<b>NA</b>
• Procedures for lawful animal procurement are in place ( <i>Guide, p 106</i> ) [must]	X				
• Sufficient facilities and expertise are confirmed prior to procurement ( <i>Guide, p 106</i> )	X				
• Procurement is linked to IACUC review and approval ( <i>Guide, p 106</i> )	X				
• Population status of wildlife species is considered prior to procurement ( <i>Guide, p 106</i> )	X				
• Appropriate records are maintained on animal acquisition ( <i>Guide, p 106</i> )	X				
• Animal vendors are evaluated to meet program needs and quality ( <i>Guide, p 106</i> )	X				
• Breeding colonies are based on need and managed to minimize numbers ( <i>Guide, p 107</i> )	X				
• Procedures for compliance with animal transportation regulations, including international requirements, are in place ( <i>Guide, p 107</i> ) [must]	X				
• Transportation is planned to ensure safety, security and minimize risk ( <i>Guide, p 107</i> )	X				
• Movement of animals is planned to minimize transit time and deliveries are planned to ensure receiving personnel are available ( <i>Guide, pp 107-108</i> )	X				
• Appropriate loading and unloading facilities are available ( <i>Guide, p 109</i> )	X				
• Environment at receiving site is appropriate ( <i>Guide, p 109</i> )	X				
• Policies in place on separation by species, source, and health status ( <i>Guide, pp 109, 111-112</i> )	X				
• Procedures in place for quarantine to include zoonoses prevention ( <i>Guide, p 110</i> )	X				
• Quarantined animals from different shipments are handled separately or physically separated based on risk assessment ( <i>Guide, p 110</i> )	X				
• Procedures in place for stabilization/acclimation ( <i>Guide, pp 110-111</i> )	X				
• Policies in place for isolation of sick animals ( <i>Guide, p 112</i> )	X				
• Program is in place for surveillance, diagnosis, treatment and control of disease to include daily observation ( <i>Guide, p 112</i> )	X				
• Diagnostic resources are available for preventive health program ( <i>Guide, p 112</i> )	X				
<b>4. Surgery</b>	<b>A</b>	<b>MI</b>	<b>S</b>	<b>C</b>	<b>NA</b>
• Surgical outcomes are assessed and corrective changes instituted ( <i>Guide, p 115</i> )	X				
• Researchers have appropriate training to ensure good technique ( <i>Guide, p 115</i> ) [must]	X				
• Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, anesthetic and analgesic use, peri-operative care, recordkeeping) ( <i>Guide, p 116</i> )	X				
• Aseptic surgery is conducted in dedicated facilities or spaces, unless exception justified and IACUC approved ( <i>Guide, p 116</i> )	X				
• Surgical procedures including laparoscopic procedures are categorized as major or minor ( <i>Guide, pp 117-118</i> )	X				
• For nonsurvival surgery, the site is clipped, gloves are worn and instruments and area are clean ( <i>Guide, p 118</i> )	X				
• Aseptic technique is followed for survival surgical procedures ( <i>Guide, pp 118-119</i> )	X				
• Effective procedures for sterilizing instruments and monitoring expiration dates on	X				

sterile packs are in place ( <i>Guide, p 119</i> )						
• Procedures for monitoring surgical anesthesia and analgesia are in place ( <i>Guide, p 119</i> )	X					
• For aquatic species, skin surfaces are kept moist during surgical procedures ( <i>Guide, p 119</i> )	X					
• Post-operative monitoring and care are provided by trained personnel and documented (e.g., thermoregulation, physiologic function, analgesia, infection, removal of skin closures) ( <i>Guide, pp 119-120</i> )	X					
<b>5. Pain, Distress, Anesthesia and Analgesia</b>	<b>A</b>	<b>MI</b>	<b>S</b>	<b>C</b>	<b>NA</b>	
• Guidelines for assessment and categorization of pain, distress and animal wellbeing are provided during training ( <i>Guide, p 121</i> )	X					
• Selection of analgesics and anesthetics is based on professional veterinary judgment ( <i>Guide, p 121</i> )	X					
• Painful procedures are monitored to ensure appropriate analgesic management ( <i>Guide, p 122</i> )	X					
• Nonpharmacologic control of pain is considered as an element of postprocedural care ( <i>Guide, p 122</i> )	X					
• Procedures are in place to assure antinoception before surgery begins ( <i>Guide, p 122</i> ) [must]	X					
• Guidelines for selection and use of analgesics and anesthetics are in place and regularly reviewed and updated ( <i>Guide, p 122</i> )	X					
• Special precautions for the use of paralytics are in place to ensure anesthesia ( <i>Guide, p 123</i> )	X					
<b>6. Euthanasia</b>	<b>A</b>	<b>MI</b>	<b>S</b>	<b>C</b>	<b>NA</b>	
• Methods are consistent with AVMA Guidelines on Euthanasia unless approved by the IACUC ( <i>Guide, p 123</i> )	X					
• Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species ( <i>Guide, pp 123-124</i> )	X					
• Training is provided on appropriate methods for each species and considers psychological stress to personnel ( <i>Guide, p 124</i> )	X					
• Procedures and training are in place to ensure death is confirmed ( <i>Guide, p 124</i> ) [must]	X					
<b>7. Drug Storage and Control</b>	<b>A</b>	<b>MI</b>	<b>S</b>	<b>C</b>	<b>NA</b>	
• Program complies with federal regulations for human and veterinary drugs( <i>Guide, p 115</i> ) [must]	X					
• Drug records and storage procedures are reviewed during facility inspections ( <i>Guide, p 115</i> )	X					
• Procedures are in place to ensure analgesics and anesthetics are used within expiration date ( <i>Guide, p 122</i> ) [must]	X					
• Anesthetics and analgesics are acquired, stored, and their use and disposal are recorded legally and safely ( <i>Guide, p 122</i> )	X					

**B. Other**

	A*	MI	S	C	NA
<b>• General Considerations:</b>					
Develop ACC guidelines on the use of MS222 including preparation and safety precautions	X				
Validate the effectiveness of tank cleaning methods	X				
Update room temperature logs in [REDACTED] to include a temperature range which when exceeded prompts notification of FM	X				
Update room temperature logs in all non-[REDACTED] animal facilities to include a temperature range which when exceeded prompts notification of FM	X				
BSB is to develop a formal training program for students providing husbandry care for animals on weekends and during COVID 19. The training program requires documentation	X				
Vacuum cleaner use should be reviewed and filter type should be reviewed throughout animal facilities to ensure that HEPA filters are being used whenever possible to decrease potential allergen exposure	X				
bench type isoflurane vaporizers using passive scavenging should be assessed with regards to potential staff exposure to waste gases	X				
Identify a mechanism to include FM staff on an individual basis in the occupational health program or to provide them with the opportunity to take part in the program	X				
Document that [REDACTED] animal care staff have received training on the safety features of the [REDACTED] rack washes and bulk autoclaves			X		

\* **A** = acceptable  
**MI** = minor deficiency

**S** = significant deficiency (is or may be a threat to animal health or safety)  
**C** = change in program (PHS Policy [IV.A.1.a.-i.](#)) (include in semiannual report to IO and in annual report to OLAW)  
**NA** = not applicable

**NOTES:**

**Primate Enrichment Social Housing Program April 1, 2019– September 30, 2020**

As of September 30, 2020 the colony consisted of 50 individual primates that are in full contact pairs.

There are 5 individual animals in protected contact pairs or groups.

There are 10 individuals (3 baboons and 7 macaques) who are exempt from being paired. One reason being is that there are no compatible partners in the colony and another reason being they are study exempt for a study involving hand reach testing.

A total of 42 re-pairs and pair evaluations have been completed throughout this time period and are still currently on going.

I have reviewed the Semiannual Programmatic Review detailing the compliance of UIC Animal Care Program with the *Guide*, the USDA Standards and Regulations, and PHS Policy and understand that I have the right to file a minority report should I not agree with the findings.

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**Departure Report**  
**Nov 11, 2020**

<b>Number</b>	<b>Category</b>	<b>Description</b>	<b>ACC Number(s) if applicable</b>	<b>Date(s) of Approval/Expiration</b>
2	Sanitation- Cleaning and Disinfection of Microenvironment	Solid bottom cages for naked mole rats are changed every two weeks instead of every week for breeding colony cages and experimental cages to limit stress and increase breeding efficiency. Of specific note- larger colonies with larger caging systems establish a waste cage and this is spot cleaned as needed and at least weekly. No health or husbandry problems with this exemption have been noted. Exemption approved for experimental reasons.	18-018 18-060 18-064 18-086 18-176	3/26/18-3/20/21 5/15/18-5/15/21 6/5/18-5/15/21 7/2/18-6/19/21 12/20/18-11/20/21
3*	Sanitation- Cleaning and Disinfection of Microenvironment	Solid bottom cages for mice are changed every two weeks instead of every week in enrichment cages to reduce intra-cage aggression in some group-housed males. Floor space in these cages is 5 times standard cage and cages only house maximum of 5 animals. No health or husbandry problems with this exemption have been noted. Exemption approved for experimental reasons.	20-101 20-169	7/17/20 to 6/16/23 11/19/20 to 10/20/23
4	Sanitation- Cleaning and Disinfection of Microenvironment	Sentinel mice and rats are housed with dirty bedding from mice or rat cages, respectively, from within the housing room in order to monitor the microbial status of rodents and ensure biosecurity. Exemption approved as standard practice to monitor rodent colony health status.	18-221	12/18/18-12/18/21
5	Terrestrial Housing- Temperature and Humidity	Minimum humidity levels can fall below 30% during heating season due to HVAC infrastructure limitations. HVAC humidifiers are maintained and operated at full capacity, staff monitor humidity levels daily, and animals are monitored for health and welfare concerns associated with low humidity. Exemption approved by IACUC. No health or husbandry problems with this exemption have been noted.	Program	11/19/19
6	Terrestrial Housing- Ventilation	In order to maintain naked mole rats at temperatures of 75-85 F and 40-65% humidity levels which is more consistent with their natural environment in the wild, the PI has requested to maintain the room at a static ventilation rate and/or at a rate significantly below 10 air changes/hour. Exemption approved by IACUC. No health or husbandry problems with this exemption have been noted.	18-018 18-060 18-064 18-086 18-176	3/26/18-3/20/21 5/15/18-5/15/21 6/5/18-5/15/21 7/2/18-6/19/21 12/20/18-11/20/21

**Departure Report  
Nov 11, 2020**

7	Sanitation- Cleaning and Disinfection of Microenvironment	Cages in isolator and water bottles in isolator are not changed weekly. Cage are changed according to the SOP established for the room. They are germ free so dirty bedding is collected weekly and cages wiped down and water is refilled.	20-016	2/27/20-2/18/23
8	Sanitation- Cleaning and Disinfection of Microenvironment	Cages in isolator and water bottles in isolator are not changed weekly. Cage are changed according to the SOP established for the room. They are germ free so dirty bedding is collected weekly and cages wiped down and water is refilled.	18-166 20-043	12/6/18-9/18/21 10/29/20-9/15/23
9	Sanitation- Cleaning and Disinfection of Microenvironment	Cages are not changed during the 10 day period animals are undergoing telemetry monitoring to not disturb recordings during this time. Only one animal is housed/cage and cages are new and clean at the start of recordings. In addition, food is made available on the floor of the cage for greater accessibility and to reduce potential of wires being disturbed by wire top of cage.	19-062	5/13/19-4/18/22
10	Terrestrial Management- Husbandry	Mole Rats highly conserve water and obtain all water via food sources only. Therefore, water bottles are not provided in cages.	18-018 18-060 18-064 18-086 18-176	3/26/18-3/20/21 5/15/18-5/15/21 6/5/18-5/15/21 7/2/18-6/19/21 12/20/18-11/20/21

\* The ACC noted that these departures were not used during this semi-annual period.



Semiannual Facility Inspection/Program Review  
 Summary of Deficiencies and Corrective Action  
 November 2020

Facility	Room	Deficiency	Minor	Significant	Corrective Action	Date of Completion	Responsible Unit or Personnel
Program	N/A	There are no guidelines on the safe preparation of MS222.	X		Develop ACC guidelines on the use of MS222 including preparation and safety precautions.	1/31/2021	Jeff Fortman, [REDACTED]
Program	N/A	The effectiveness of hand cleaning fish tanks needs to be assessed.	X		Assess effectiveness of fish tank hand cleaning methods for the four fish users on campus using ATPase methodology.	1/31/2021	[REDACTED]
Program	N/A	[REDACTED] and [REDACTED] staff are not aware as to what temperature in feed rooms constitutes a need to contact FM during temperature fluctuations.	X		Include on feed room temperature log forms the temperature range that should temps fall out of FM would be notified.	1/31/2021	[REDACTED]
Program	N/A	[REDACTED] - there needs to be a formal documented training program for students providing husbandry care on weekends and during COVID 19.	X		BSB supervisor and faculty representative need to develop a formal documented training program for students providing husbandry care on such items as health checks, room temp checks, food and water checks, emergency contacts, etc.	1/31/2021	[REDACTED]
Program	N/A	Vaccum cleaners in [REDACTED] serve as a potential source of allergen exposure to staff	X		Review vacuum cleaner use and filter type throughout animal facilities and replace where warranted with HEPA filters to decrease potential allergen exposure.	1/31/2021	[REDACTED]
Program	N/A	Potential exposure to isoflurane waste gas from bench top vaporizers in investigator labs using nose cones and passive scavenging.	X		Coordinate with EHSO an assessment of waste gas exposure of isoflurane from bench type vaporizers using nose cones and passive scavenging and develop guidelines in consultation with EHSO to minimize waste gas exposure of staff to isoflurane.	4/30/2021	Jeff Fortman, [REDACTED]

Semiannual Facility Inspection/Program Review  
 Summary of Deficiencies and Corrective Action  
 November 2020

Program	N/A	The occupational health program for individuals in the mild category, such as facility management employees, needs to include a mechanism for such staff to identify individual health concerns to University Health Services (UHS) should the need be warranted.	X		4/30/2021	Jeff Fortman, ██████████ ██████████ ██████████
Program	N/A	There is a lack of documentation that husbandry staff have received appropriate training on the safety features of the █████ cage washers and bulk autoclaves.	X	To re-write cage wash and bulk autoclave SOPs to include a section on safety features of the equipment and develop a formal power point training module on Cage Wash Room safety. Supervisory staff will then present and review cage wash and bulk autoclave SOPs and the safety power point to BRL husbandry staff and document the training through staff signatures.	11/23/2020	██████████ ██████████ ██████████

**Facilities Inspection Report**  
November 17, 2020

**Participants:** [REDACTED], Jeffrey Fortman, [REDACTED], Amy Lasek, [REDACTED]

**Guest(s):**

**E-mail correspondence:** None

During the November 2020 convened ACC meeting, UIC Animal Care Committee reviewed the inspection of animal facilities conducted November 10-11 as part of the institution's triennial AAALAC site visit. The facilities were evaluated in terms of their compliance with the 8<sup>th</sup> Edition of the *Guide for the Care and Use of Laboratory Animals (Guide)* and the Standards promulgated to implement the Animal Welfare Act. This report consists of a facility-by-facility description of items that were addressed since the April 2020 semiannual inspection to ensure compliance with the recommendations of the *Guide*. There were no deficiencies observed in any animal facility as determined by the *Guide* or the Animal Welfare Standards during the AAALAC site visit of November 10-11, 2020..

General Comments Prior to the meeting [REDACTED] reminded the members that the AAALAC site visit, [REDACTED] served as the institution's ACC semiannual inspection of animal facilities.

[REDACTED]:

During the inspection, the air turnover and air pressure throughout the facility was appropriate. **The following items/issues were addressed since the last inspection:**

■: Broken electrical outlet cover. Thermostat cover missing.

■: Need sign "No Food or Drink" on refrigerator. Floor needs scrubbing.

■: Need to make hearing protection available.

■: Need PPE station for rabbit room.

■: Electrical outlet cover missing.

■: Floor is dirty. Need to ensure the floor is swept daily and mopped at least twice weekly.

■: Need to remove clutter from fume hood. Staff should not be consuming beverages in the lab (coffee cup on counter). Expired atropine.

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█: Room needs general organizing/cleaning. Surgical files for BSL2 surgery should not be in this room. Surgical binders need organizing in general. Discard old papers, including surgical records >1 year, if not needed by lab. Refrigerator needs cleaning.

Receiving dock office: Need cleaning logs for vans.

█: Remove storage bin under sink.

█: Floors need cleaning. Broom and large dust mop are on floor. Wet mop in bucket. Need to ensure there enough hooks to hang all cleaning utensils.

█: Need to laminate signage over station 3.

█: Remove MWM from room. Holes in wall in anteroom need repair. Remove/discard excess papers in both anteroom and main room.

█: Need a cleaning schedule for running wheel cages.

█: Inappropriate storage under sink. PI needs to store materials in plastic container (not Styrofoam).

█: Need clarification on how often charcoal canisters are weighed.

**The following items/issues need to be addressed:**

There was none.

The facility complies with the recommended standards set forth in the *Guide*.

The Committee recognizes the Department's ongoing efforts to comply with the spirit of the *Guide* in providing optimal care for the animals in the facility.

█:

During the inspection, the air turnover and air pressure throughout the facility was appropriate. **The following items/issues were addressed since the last inspection:**

The facility was inactive at the time of the inspection.

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**The following items/issues need to be addressed:**

The facility was inactive at the time of the inspection.

The facility complies with the recommended standards set forth in the *Guide*.



█: Expired powdered food needs to be removed.

█: Unlabeled vials and bottles in room.

█: Need to clean water/mineral staining from floor.

█: Need to repair peeling paint in trough.

█: Hamilton syringe needles should be stored in container, not on open bench.

**The following items/issues need to be addressed:**

There was none.

The facility complies with the recommended standards set forth in the *Guide*.

The Committee recognizes the Department's ongoing efforts to comply with the spirit of the *Guide* in providing optimal care for the animals in this facility.

█

During the inspection, the air pressure in the rooms was negative to the corridor system and air turnover appeared to be adequate within the facility for the number of animals being maintained. **The following items/issues have been addressed since the previous inspection:**

█: Plug holes in east wall.

█: Paint inside of rusty door frame.

█: Replace rusting ceiling vent cover with fiberglass or plastic.

█: Repair buckled floor near door. Paint floor.

**The following items/issues need to be addressed:**

There was none.

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The facility complies with the recommended standards set forth in the *Guide*.

The Committee recognizes the Department's ongoing efforts to comply with the spirit of the *Guide* in providing optimal care for the animals in this facility.

█:



There was none.

The facility complies with the recommended standards set forth in the *Guide*.

The Committee recognizes the Department's ongoing efforts to comply with the spirit of the *Guide* in providing optimal care for the animals in this facility.

██████████:

██████: During the inspection, the air pressure in the room was negative to the laboratory and the air turnover appeared to be adequate for the number of animals being maintained. **The following items/issues have been addressed since the last inspection:**

There was none.

**The following items/issues should be addressed:**

There was none.

The facility complies with the recommended standards set forth in the *Guide*.

The Committee recognizes the Department's ongoing efforts to comply with the spirit of the *Guide* in providing optimal care for the animals in this facility.

██████████:

██████: During the inspection, the air pressure in the rooms was negative to the corridor system and the air turnover appeared to be adequate within the facility for the number of animals maintained. **The following items/issues have been addressed since the last inspection:**

Animal holding room floor paint delaminating. Eyewash flushing log needs to be completed.

**The following items/issues should be addressed:**

There was none.

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The facility complies with the recommended standards set forth in the *Guide*.

The Committee recognizes the Department's ongoing efforts to comply with the spirit of the *Guide* in providing optimal care for the animals in this facility.

██████████:



██████: During the inspection, the air pressure in the facility was negative to the corridor and the air turnover appeared to be adequate for the number of animals being maintained. **The following items/issues have been addressed since the last inspection:**

There was none.

**The following items/issues need to be addressed:**

There was none.

The facility complies with the recommended standards set forth in the *Guide*.

The Committee recognizes the Department's ongoing efforts to comply with the spirit of the *Guide* in providing optimal care for the animals in this facility.

████████████████████:

██████: During the inspection, the air pressure in the facility was negative to the corridor. **The following items/issues have been addressed since the last inspection:**

There was none.

**The following items/issues need to be addressed:**

There was none.

The facility complies with the recommended standards set forth in the *Guide*.

The Committee recognizes the Department's ongoing efforts to comply with the spirit of the *Guide* in providing optimal care for the animals in this facility.

████████████████████: **The following items/issues have been addressed since the previous inspection:**

The facility was not inspected due to COVID-19.

**The following items/issues should be addressed:**

There was none.

The facility complies with the recommended standards set forth in the *Guide*.

The Committee recognizes the Department's ongoing efforts to comply with the spirit of the *Guide* in providing optimal care for the animals in this facility.

████████████████████:

**██████████**: The following items/issues have been addressed since the previous inspection:

The study area was not inspected due to COVID-19.

**The following items/issues should be addressed:**

There was none.

**██████████**: The following items/issues have been addressed since the previous inspection:

The study area was not inspected due to COVID-19.

**The following items/issues should be addressed:**

There was none.

**██████████**: The following items/issues have been addressed since the previous inspection:

There was none

**The following items/issues should be addressed:**

There was none

**██████████**: The following items/issues have been addressed since the previous inspection:

The study area was not inspected due to COVID-19.

**The following items/issues should be addressed:**

There was none.

**██████████**: The following items/issues have been addressed since the previous inspection:

There was none

**The following items/issues should be addressed:**

There was none



**██████████**: The following items/issues were noted but not addressed since the previous inspection:

There was none.

**The following items/issues need to be addressed**

There was none.

**██████████**: The following items/issues were addressed since the previous inspection:

There was none.

**The following items/issues need to be addressed**

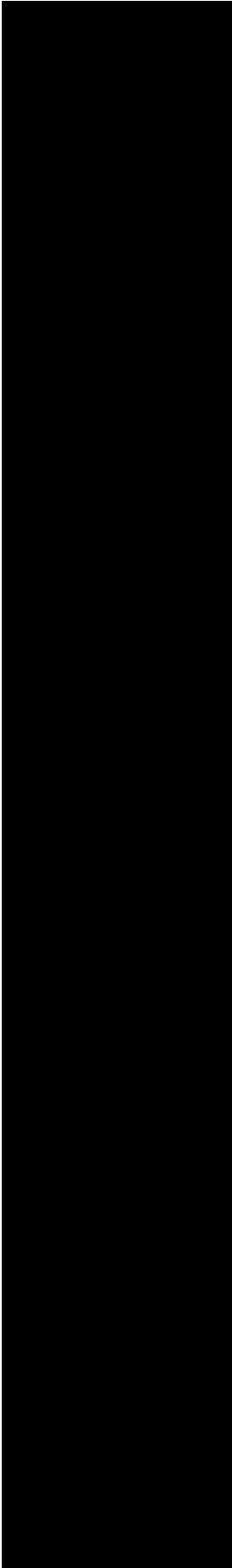
There was none.

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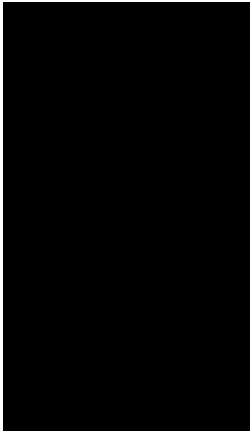
**The following PI laboratories were visited as part of the post–approval monitoring program.**



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The Full Animal Care Committee reviewed the documents on November 17, 2020 and recommends that the Animal Care Committee endorse the report as submitted. There were no major deficiencies observed in any animal facility as determined by the Guide or

the Animal Welfare Standards during this inspection. There are on-going maintenance and renovation items within the facilities, but they have been recognized and efforts to have them addressed are being made within the existing system for supporting the animal housing facilities on the campus



I have reviewed the attached report of the Facilities Subcommittee detailing the inspection of UIC Animal Facilities that took place during the AAALAC site visit November 10-11, 2020 and understand that I have the right to file a minority report should I not agree with their findings.

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