

Office of Animal Care Compliance

October 15, 2020

Richard S. Larson, MD, PhD, Executive Vice Chancellor Vice Chancellor for Research UNM Health Sciences Center

RE: Fall 2020 HSC IACUC Semi-Annual Inspections and Program Review

The 2020 Spring and Fall Semi-annual IACUC Inspections of the
Animal Resource Facilities (ARFs) and PI laboratories, which are
mandated by the US Public Health Service (PHS), Office of Laboratory Animal Welfare
(OLAW) and the Animal Welfare Act and Animal Welfare Regulations (AWAR and
AWAR) were begun in person in the spring of March 2020 but were halted due to
COVID-19 (see attached waiver from OLAW).

The 2020 fall IACUC inspections were completed from September 1 to September 16, 2020, virtually via Zoom due to COVID-19 restrictions. The HSC Institutional Animal Care and Use Committee (IACUC) inspectors included: Kevin O'Hair (Attending Veterinarian), Member #18, Member #23 (Community Member), Member #24, and Member #27. Various PIs or research personnel filmed the inspections and the inspectors participated virtually via Zoom. The Office of Animal Care Compliance (OACC) Sr. Operations Manager and the OACC Compliance Specialist were included on the inspection team.

Also due to COVID-19 restrictions, the 2020 Fall Semi-annual Program Review was completed via email by the HSC IACUC on October 15, 2020. The 2020 Spring Semi-annual Program Review had been completed by the HSC IACUC virtually via Zoom and email in the spring of 2020 as scheduled.

The program continues to adhere to provisions of the Guide for the Care and Use of Laboratory Animals, Eighth Edition, the Public Health Service Policy on Humane Care and Use of Laboratory Animals, IV.B. 1-8, and the Animal Welfare Act and Regulations, title 9, chapter 1, subchapter A.



Sincerely,
A Brown c
Laura Gonzalez Bosc, Ph. D. HSC IACUC Chair
9/16/20 Date

Semiannual Program Review and Facility Inspection Checklist

About the checklist

The Semiannual Program Review and Facility Inspection Checklist is provided to assist institutions in conducting their semiannual reviews of programs and facilities for the care and use of animals. The Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals (Policy), section IV.B.1.-2., requires the Institutional Animal Care and Use Committee (IACUC) to review the institution's program for humane care and use of animals and inspect all of the institution's animal facilities at least once every 6 months using the *Guide for the Care and Use of Laboratory Animals: Eighth Edition (Guide)* as a basis for evaluation.

How to use the checklist

This checklist is a tool to assist IACUCs in conducting thorough semiannual reviews. IACUCs are not required to use this checklist but are encouraged to amend it as necessary to reflect institutional programs and needs, or to develop their own checklist. If the checklist is modified, periodic review of the checklist is recommended to ensure relevant topics are considered as the animal care and use program changes.

The checklist covers the major topics of the *Guide* and the requirements of the PHS Policy. The checklist does not replace the *Guide*, but should be utilized in conjunction with the *Guide*. The *Guide* provides the standards, recommendations, and descriptions of desired outcomes necessary to evaluate and inspect an animal care and use program. Relevant references for the *Guide* and the PHS Policy are noted. Endnotes are included to reference specific U.S. Department of Agriculture (USDA) regulatory requirements that differ from the PHS Policy. Topics that are new to this version of the checklist or identified as a "must" in the *Guide* are highlighted. A column to identify changes that have occurred in the institution's program for animal care and use (PHS Policy IV.A.1.a.-i.) since the last review is also a new feature.

The checklist consists of the following sections:

- I. Semiannual Program Review Checklist
 - Institutional Policies and Responsibilities
 - Veterinary Care
- II. Semiannual Facility Inspection Checklist
 - Terrestrial Animal Housing and Support Areas
 - Aquatic Animal Housing and Support Areas
 - Cagewash
 - Special Facilities: Aseptic Surgery
 - Special Facilities: Procedure Areas, Non-survival Surgeries, Laboratories, Rodent Surgeries, Imaging, Whole Body Irradiation, Hazardous Agent Containment, Behavioral Studies
- III. Semiannual Program Review and Facility Inspection Report
- IV. Endnotes

It is recommended that the Program Review section be completed during an IACUC meeting. Because physical aspects of a program require visual observation to evaluate, it is recommended that the Facility Inspection section be completed during an inspection of the facilities, including satellite facilities.

A table is provided, "Semiannual Program Review and Facility Inspection Report," as a format for the IACUC to organize and track information regarding deficiencies, and plans and schedules for correction. IACUCs may choose to attach the table to the Semiannual Report to the Institutional Official.

Questions or comments?

Suggestions or comments about this checklist should be e-mailed to: olawdpe@mail.nih.gov.

I. Semiannual Program Review Checklist i

Institutional Policies and Responsibilities

Date: 10-15-2020

	nimal Care and Use Program	\mathbf{A}^*	М	S	С	NA
a.	Responsibility for animal well-being is assumed by all members of the program (Guide, p 1) [must]	✓				
b.	IO has authority to allocate needed resources (Guide, p 13)	✓				
	Resources necessary to manage program of veterinary care are provided (<i>Guide</i> , <u>p</u> 14) [must]	✓				
d.	Sufficient resources are available to manage the program, including training of personnel in accord with regulations and the <i>Guide</i> (<i>Guide</i> , pp 11, 15) We will continue the ongoing assessment of the training program.	✓				
e.	Program needs are regularly communicated to IO by AV and/or IACUC (Guide, p 13)	✓				
f.		✓				
g.		✓				
h.	Written agreements address responsibilities, animal ownership, and IACUC oversight (<i>Guide</i> , <u>p 15</u>)	✓				
2. D	saster Planning and Emergency Preparedness	A *	М	S	С	NA
	a. Disaster plans for each facility to include satellite locations are in place (<i>Guide</i> , <u>p</u> 35, <u>p 75</u>) [must]	✓				
	b. Plans include provisions for euthanasia (Guide, p 35) [must]	✓				
	c. Plans include triage plans to meet institutional and investigators' needs (<i>Guide</i> , <u>p</u> 35)	✓				
	d. Plans define actions to prevent animal injury or death due to HVAC or other failures (<i>Guide</i> , <u>p 35</u>)	✓				
	e. Plans describe preservation of critical or irreplaceable animals (<i>Guide</i> , <u>p 35</u>)	✓				
	f. Plans include essential personnel and their training (Guide, p 35)	✓				
	g. Animal facility plans are approved by the institution and incorporated into overall response plan (<i>Guide</i> , p 35)	✓				
	h. Law enforcement and emergency personnel are provided a copy and integration with overall plan is in place (<i>Guide</i> , <u>p 35</u>)	✓				
3. I <i>l</i>	CUC	A *	М	S	С	NA
a.	Meets as necessary to fulfill responsibilities (Guide, p 25) [must]	✓				
	IACUC Members named in protocols or with conflicts recuse themselves from protocol decisions (<i>Guide</i> , p 26) [must]	✓				
c.	Continuing IACUC oversight after initial protocol approval is in place (Guide, p 33)	✓				
d.	IACUC evaluates the effectiveness of training programs (<i>Guide</i> , <u>p 15</u>)	✓				
4. I <i>l</i>	CUC Protocol Review - Special Considerations	A *	М	S	С	NA
	a. 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</i> , p 27)	✓				
	b. For pilot studies, a system to communicate with the IACUC is in place (<i>Guide</i> , <u>p</u> <u>28</u>)	✓				
	c. For genetically modified animals, enhanced monitoring and reporting is in place (Guide, p 28)	✓				
	d. Restraint devices are justified in the animal use protocols (Guide, p 29) [must]	✓				
	e. Alternatives to physical restraint are considered (Guide, p 29)	✓				
	f. Period of restraint is the minimum to meet scientific objectives (Guide, p 29)	✓				
		√				

Semiannual Checklist

v3/8/2012

		h Asimala Hat fell to adopt an arrand from that (C. (1, 20))	√				
_		h. Animals that fail to adapt are removed from study (Guide, p 29)	∨				
_		i. Appropriate observation intervals of restrained animals are provided (<i>Guide</i> , p 29)	∨				
		j. Veterinary care is provided if lesions or illness result from restraint (<i>Guide</i> , <u>p 30</u>) [must]					
		k. Explanations of purpose and duration of restraint are provided to study personnel (Guide, p 30)					
		I. Major versus minor surgical procedures are evaluated on a case-by-case basis (Guide, p 30)					
		m. Multiple survival surgical procedure justifications in non-regulated species conform to regulated species standards (<i>Guide</i> , p 30)					
		n. Animals on food/fluid restriction are monitored to ensure nutritional needs are met (Guide, p 31)	✓				
		 Body weights for food/fluid restricted animals are recorded at least weekly (Guide, p 31) 	✓				
		p. Daily written records are maintained for food/fluid restricted animals (Guide, p 31)	✓				
		 q. Pharmaceutical grade chemicals are used, when available, for animal-related procedures (Guide, p 31) 	✓				
		 Non-pharmaceutical grade chemicals are described, justified, and approved by IACUC (Guide, p 31) 	✓				
		s. Investigators conducting field studies know zoonotic diseases, safety issues, laws and regulations applicable in study area (<i>Guide</i> , <u>p 32</u>)	✓				
		t. Disposition plans are considered for species removed from the wild (Guide, p 32)	✓				
		 Toe-clipping only used when no alternative, performed aseptically and with pain relief (Guide, p 75) 	✓				
5.	TΔ	CUC Membership and Functions	\mathbf{A}^*	М	s	С	NA
<u> </u>		IACUC is comprised of at least 5 members, appointed by CEO (PHS Policy, <u>IV.A.3.</u>)	<u> </u>				117
		Members include a veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab animal user (<i>Guide</i> , p 24) ⁱⁱ	✓				
	c.	IACUC authority and resources for oversight and evaluation of institution's program are provided (<i>Guide</i> , p 14)	✓				
	d.	IACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, IV.B.)	✓				
	е.	Conducts semiannual inspections of institutional animal facilities (PHS Policy, <u>IV.B.</u>)	√				
	f.	IACUC organizationally reports to the Institutional Official (PHS Policy, IV.A.1.b.)	√				
Г	g.		✓				
	h.	Reviews and investigates concerns about animal care and use at institution ⁱⁱⁱ (PHS Policy, <u>IV.B.</u>)	✓				
	i.	Procedures are in place for review, approval, and suspension of animal activities (PHS Policy, IV.B.)	✓				
	j.	Procedures are in place for review and approval of significant changes to approved activities (PHS Policy, IV.B.)	✓				
	k.	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> , p 27-32)	✓				
	I.	Requests for exemptions from major survival surgical procedure restrictions are made to USDA/APHIS* (<i>Guide</i> , p 30) [must]	✓				
6.		CUC Training	\mathbf{A}^*	М	s	С	NA
\vdash		All IACUC members should receive:	-			I	
		Formal orientation to institution's program (Guide, p 17)	✓				
<u></u>		Training on legislation, regulations, guidelines, and policies (<i>Guide</i> , <u>p 17</u>)	✓				
		Training on how to inspect facilities and labs where animal use or housing occurs (Guide, p 17)	√				
	e.	Training on how to review protocols as well as evaluate the program (<i>Guide</i> , <u>p 17</u>)	✓				
	f.	Ongoing training/education (<i>Guide</i> , <u>p 17</u>)	✓				
		CUC Records and Reporting Requirements ^{vi}	۸*	М	6	_	NA

	a.	Semiannual report to the IO (PHS Policy, <u>IV.B.</u>)					
		Submitted to IO every 6 months	✓				
		Compiles program review and facility inspection(s) results (includes all program and facility deficiencies)	✓				
	d.	Includes minority IACUC views	✓				
		Describes IACUC-approved departures from the <i>Guide</i> or PHS Policy and the reasons for each departure ^{vii}	✓				
	f.	Distinguishes significant from minor deficiencies	✓				
	q.	Includes a plan and schedule for correction for each deficiency identified viii	✓				
	h.	Reports to OLAW (PHS Policy, <u>IV.F.</u>)					
	i.	Annual report to OLAW documents program changes, dates of the semiannual program reviews and facility inspections and includes any minority views	✓				
	j.	Promptly advises OLAW of serious/ongoing <i>Guide</i> deviations or PHS Policy noncompliance (NOT-OD-05-034)	✓				
	k.	Institute must promptly advise OLAW of any suspension of an animal activity by the IACUC (NOT-OD-05-034)	✓				
	Ι.	Reports to U.S. Department of Agriculture (USDA) or Federal funding agencyix					
	m.	Annual report to USDA contains required information including all exceptions/exemptions	✓				
		Reporting mechanism to USDA is in place for IACUC-approved exceptions to the regulations and standards	✓				
		Reports are filed within 15 days for failures to adhere to timetable for correction of significant deficiencies	✓				
	p.	Promptly reports suspensions of activities by the IACUC to USDA and any Federal funding agency	✓				
	q.	Records (PHS Policy, <u>IV.E.</u>)					
	r.	IACUC meeting minutes and semiannual reports to the IO are maintained for 3 years	✓				
	s.	Records of IACUC reviews of animal activities include all required information*	✓				
	t.	Records of IACUC reviews are maintained for 3 years after the completion of the study	✓				
R	1/-						
٥.	ve	eterinary Care (See also next section - Veterinary Care)	A *	М	S	C	NA
J.		An arrangement for veterinarian(s) with training or experience in lab animal medicine is in place including backup veterinary care ^{xi}	A* ✓	M	S	С	NA
	a.	An arrangement for veterinarian(s) with training or experience in lab animal medicine		M	S	С	NA
	a. b.	An arrangement for veterinarian(s) with training or experience in lab animal medicine is in place including backup veterinary care ^{xi} Veterinary access to all animals is provided (<i>Guide</i> , <u>p 14</u>) [must] Direct or delegated authority is given to the veterinarian to oversee all aspects of	✓	M	S	С	NA
	a. b. c.	An arrangement for veterinarian(s) with training or experience in lab animal medicine is in place including backup veterinary carexi Veterinary access to all animals is provided (Guide, p 14) [must] Direct or delegated authority is given to the veterinarian to oversee all aspects of animal care and use (Guide, p 14) [must] Veterinarian provides consultation when pain and distress exceeds anticipated level in protocol (Guide, p 5) [must]	✓ ✓ ✓	M	S	C	NA
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	a. b. c. d. e. f. g. h. i. Pee a. b. c.	An arrangement for veterinarian(s) with training or experience in lab animal medicine is in place including backup veterinary carexi Veterinary access to all animals is provided (Guide, p_14) [must] Direct or delegated authority is given to the veterinarian to oversee all aspects of animal care and use (Guide, p_14) [must] Veterinarian provides consultation when pain and distress exceeds anticipated level in protocol (Guide, p_5) [must] Veterinarian provides consultation when interventional control is not possible (Guide, p_5) [must] If part time /consulting veterinarian, visits meet programmatic needs (Guide, p_14) Not applicable because UNM has a full time Attending Veterinarian on staff. Regular communication occurs between veterinarian and IACUC (Guide, p_14) Veterinarian(s) have experience and training in species used (Guide, p_15) [must] Veterinarian(s) have experience in facility administration/management (Guide, p_15) Personnel Qualifications and Training All personnel are adequately educated, trained, and/or qualified in basic principles of laboratory animal science. Personnel included: [must] Veterinary/other professional staff (Guide, p_15-16) IACUC members (Guide, p_17)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓				✓
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	a. b. c. d. e. f. g. h. i. Pee a. b. c.	An arrangement for veterinarian(s) with training or experience in lab animal medicine is in place including backup veterinary carexi Veterinary access to all animals is provided (Guide, p 14) [must] Direct or delegated authority is given to the veterinarian to oversee all aspects of animal care and use (Guide, p 14) [must] Veterinarian provides consultation when pain and distress exceeds anticipated level in protocol (Guide, p 5) [must] Veterinarian provides consultation when interventional control is not possible (Guide, p 5) [must] If part time /consulting veterinarian, visits meet programmatic needs (Guide, p 14) Not applicable because UNM has a full time Attending Veterinarian on staff. Regular communication occurs between veterinarian and IACUC (Guide, p 14) Veterinarian(s) have experience and training in species used (Guide, p 15) [must] Veterinarian(s) have experience in facility administration/management (Guide, p 15) Personnel Qualifications and Training All personnel are adequately educated, trained, and/or qualified in basic principles of laboratory animal science. Personnel included: [must] Veterinary/other professional staff (Guide, p 15-16) IACUC members (Guide, p 17) Animal care personnel (Guide, p 16) Research investigators, instructors, technicians, trainees, and students (Guide, pp 16-	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓				✓
	a. b. c. f. g. h. i. Pee a. b. c. d.	An arrangement for veterinarian(s) with training or experience in lab animal medicine is in place including backup veterinary carexi Veterinary access to all animals is provided (Guide, p 14) [must] Direct or delegated authority is given to the veterinarian to oversee all aspects of animal care and use (Guide, p 14) [must] Veterinarian provides consultation when pain and distress exceeds anticipated level in protocol (Guide, p 5) [must] Veterinarian provides consultation when interventional control is not possible (Guide, p 5) [must] If part time /consulting veterinarian, visits meet programmatic needs (Guide, p 14) Not applicable because UNM has a full time Attending Veterinarian on staff. Regular communication occurs between veterinarian and IACUC (Guide, p 14) Veterinarian(s) have experience and training in species used (Guide, p 15) [must] Veterinarian(s) have experience in facility administration/management (Guide, p 15) Personnel Qualifications and Training All personnel are adequately educated, trained, and/or qualified in basic principles of laboratory animal science. Personnel included: [must] Veterinary/other professional staff (Guide, p 15-16) IACUC members (Guide, p 17) Animal care personnel (Guide, p 16)	✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓				✓

h.	Training is documented (<i>Guide</i> , <u>p 15</u>)	✓		
i.	Training program content includes: (Guide, p 17)			
j.	Methods for reporting concerns (Guide, p 17)	✓		
k.	Humane practices of animal care (e.g., housing, husbandry, handling) xii	✓		
I.	Humane practices of animal use (e.g., research procedures, use of anesthesia, preand post-operative care, aseptic surgical techniques and euthanasia (<i>Guide</i> , <u>p 17</u>) ^{xiii}	✓		
m.	Research/testing methods that minimize numbers necessary to obtain valid results (PHS Policy, IV.A.1.g.)	✓		
n.	Research/testing methods that minimize animal pain or distress (PHS Policy, IV.A.1.q.)	✓		
0.	Use of hazardous agents, including access to OSHA chemical hazard notices where applicable (<i>Guide</i> , p 20)	✓		
p.	Animal care and use legislation (<i>Guide</i> , <u>p 17</u>)	✓		
q.	IACUC function (Guide, p 17)	✓		
r.	Ethics of animal use and Three R's (Guide, p 17)	✓		

10. Occupational Health and Safety of Personnel

See attachment			

^{*} A = acceptable

M = minor deficiency

S = significant deficiency (is or may be a threat to animal health or safety)

C = change in program (PHS Policy <u>IV.A.1.a.-i.</u>) (include in semiannual report to IO and in annual report to OLAW)

NA = not applicable

End Notes

- 2.31(b)(2) "The Committee shall be composed of a Chairman and at least two additional members;... at least one shall not be affiliated in any way with the facility...such person will provide representation for general community interests in the proper care and treatment of animals." [PHS policy requires 5 members]
- iii 2.32(c)(4) "...No facility employee, Committee member, or laboratory personnel shall be discriminated against or be subject to any reprisal for reporting violations of any regulation or standards under the Act." [USDA requirement additional to PHS Policy]
- iv 2.31(d)(5) "...shall conduct continuing reviews of activities...not less than annually." [PHS Policy requires a complete new review every 3 years utilizing all the criteria for initial review]
- v 2.31(d)(1)(x) "...no animal will be used in more than one major operative procedure from which it is allowed to recover unless...(it is) justified for scientific reasons...(or is) required as routine veterinary procedure...or other special circumstances as determined by the Administrator on an individual basis." [this last point is an additional USDA justification for multiple survival surgeries]
- vi 2.36 "...each reporting facility shall submit an annual report to the APHIS, AC sector supervisor for the State where the facility is located on or before December 1 of each calendar year." [The USDA annual report has a list of requirements which differ from PHS annual report]
- vii 2.36(b)(3) "...exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the IACUC. A summary of all such exceptions must be attached to the facility's annual report." [Refers to USDA annual report]
- viii 2.31(c)(3) "...Any failure to adhere to the plan and schedule that results in a significant deficiency remaining uncorrected shall be reported in writing within 15 business days by the IACUC, through the institutional official, to APHIS and any Federal agency funding that activity." [PHS Policy requires prompt reporting to OPRR of serious or continuing noncompliance with the PHS Policy or serious deviations from the provisions of the *Guide*]
- ix 2.36 "...each reporting facility shall submit an annual report to the APHIS, AC sector supervisor for the State where the facility is located on or before December 1 of each calendar year." [The USDA annual report has a list of requirements which differ from PHS annual report]
- x In addition to PHS requirements for IACUC review/application for funding, USDA regulations require: 2.31(d)(1)(ii) "The principal investigator (PI) consider alternatives to procedures that cause more than momentary or slight pain or distress to the animals, and has provided a written narrative description of the methods and sources...used to determine that alternatives were not available."
 - 2.31(d)(1)(iii) "The PI has provided written assurance that the activities do not unnecessarily duplicate previous experiments."
 - 2.31(d)(1)(iv) "Procedures that may cause more than momentary or slight pain or distress to the animals will:
 - involve in their planning, consultation with the attending veterinarian or his or her designee; [PHS Policy does not specify veterinary consultation]
 - not include paralytics without the use of anesthesia;"

ⁱ The PHS Policy requires that Assured institutions comply with the regulations (9 CFR, Subchapter A) issued by the U.S. Department of Agriculture (USDA) under the Animal Welfare Act, as applicable. The endnotes below are specific USDA regulatory requirements that differ from or are in addition to the PHS Policy. This list is not intended to be all inclusive. For additional information please refer to 9 CFR Subchapter A - Animal Welfare.

ii Part 2 Subpart C - Research Facilities

- 2.31(d)(1)(x) "No animal will be used in more than one major operative procedure from which it is allowed to recover, unless justified for scientific reasons by the principal investigator, in writing..."
- xi 2.33(a)(1) "In the case of a part-time attending veterinarian or consultant arrangements, the formal arrangements shall include a written program of veterinary care and regularly scheduled visits to the research facility." [USDA requirement additional]
- xii 2.32(c) "Humane methods of animal maintenance and experimentation, including the basic needs of each species, proper handling and care for the various species of animals used by the facility, proper pre-procedural and post-procedural care of animals, and aseptic surgical methods and procedures."
- xiii 2.32(c) additional specifications include:
- "proper use of anesthetics, analgesics, and tranquilizers for any species of animals used by the facility"
- "methods whereby deficiencies in animal care and treatment are reported, including deficiencies in animal care and treatment reported by any employee of the facility..."
- "utilization of services (e.g., National Agricultural Library, National Library of Medicine) to provide information on appropriate animal care and use, alternatives to the use of live animals in research , that could prevent unintended and unnecessary duplication of research involving animals, and regarding the intent and requirements of the Act." [USDA training specifications are more detailed than PHS Policy].

10 .	Occupational Health and Safety of Personnel					
	Employee Occupational Health Services (EOHS)	Α	М	S	С	NA
1.	Program is in place and is consistent with federal, state, and local regulations.	✓				
2.	Program covers all personnel who work or inspect laboratory animal facilities	✓				
3.	Rules and Guidelines-Safe work practices and procedures	✓				
4.	Medical Monitoring- Health Assessment program	✓				
5.	Personnel training is provided based on risk (e.g., zoonoses, hazards, personal hygiene,	✓				
	special precautions, animal allergies)					
	Program for medical evaluation and preventive medicine for personnel includes:					
6.	Pre-placement evaluation including health history	✓				
7.	Immunizations as appropriate (e.g., rabies, tetanus) and tests as appropriate	✓				
8.	Zoonosis surveillance as appropriate (e.g. Q-fever, tularemia, Hantavirus, plague)	✓				
9.	Procedures for reporting and treating injuries, including accidents bites, allergies, etc.	✓				
10.	Promotes early diagnosis of allergies including preexisting conditions	✓				
11.	Considers confidentiality and other legal factors as required by federal, state and local	✓				
	regulations [Must]					
12.	If serum samples are collected, the purpose is consistent with federal and state laws					✓
	[Must]					
	Special precautions for personnel who work with nonhuman primates, their tissues or		II.	l.		
	body fluids include:					
13.	Tuberculosis screening provided for all exposed personnel	√				
14.	Training and implementation for procedures for bites, scratches, or injuries associated	✓				
	with macaques					
15.	Recommends PPE to be worn including gloves, arm protection, face masks, face shields or	√				
10.	goggles					
16.	Injuries associated with macaques are carefully evaluated and treatment implemented	√				
17.	Occupational safety and health of field studies is reviewed by EOHS committee or office	√				
	Chemical Safety - Safety and Risk Services (SRS)	Α	М	S	С	NA
1.	Risk Assessment - defining and quantifying chemical hazards	✓ ·	1**			1171
2.	Chemical Safety Program - avoiding and controlling hazards and exposures	√				
3.	Recordkeeping- monitor safety programs and identify deficiencies	√				
4.	Personnel conduct visits to laboratories and facilities, where hazardous agents may be	√				
٦.	present, to determine compliance with institutional, city, state, and federal regulations.					
5.	Provides training in chemical safety, work safety, respirator use and fitness, etc. for	√				
٦.	university personnel with potential contact with hazardous substances.	•				
6.	Provide additional monitoring, training, and consultation if needed.	✓				
	Chemical hazard risks are determined by reviewing the MSDS, experimental protocol, and	✓				
7.	specific agent	•				
8.	Makes recommendations such as PPE to include respirators, gloves, etc.	√				
9.	Inspects laboratories and the ARF as needed to include fire safety, electrical/mechanical	√				
Э.	safety, storage and housekeeping, compressed gases, and chemical and laboratory safety.	•				
	Radiation Safety – Radiation Safety Office (RS)	^	М	S	С	NA
1.		A ✓	IVI	3	C	INA
	Risk Assessment - defining and quantifying radiological hazards	▼				
2.	Radiation Safety Program- avoiding and controlling hazards and exposures	V ✓				
3.	Personnel conduct visits to laboratories and facilities, where radioactive materials may be	•				
	present, to determine compliance with institutional, city, state, and federal regulations.	✓				
4.	Provides training in radiation safety for university personnel with potential contact with	•				
	radioactive materials.	✓				<u> </u>
5.	Provide additional monitoring, training, and consultation as needed.					
6.	Clears radioisotope exposed cages and waste for disposal or transfer to the cage wash	✓				
	area.					<u> </u>
7.	Establishes policies and rules for radiation control and safety, and reviews research	✓				
	protocols for the use of sources of ionizing radiation.					1
8.	Oversees the collection, use, transportation, and disposal of radioactive materials.	\checkmark			1	

	Biological Safety - Biohazard Compliance Office (BHC)	Α	М	S	С	NA
1.	Inspects biological laboratories associated with IBC protocols and provides appropriate	✓				
	biosafety level signage.					
2.	Risk Assessment -defining and quantifying biological risks	✓				
3.	Training and Education- biosafety practices, spill clean-up procedures, proper use of BSCs,	✓				
	biological agent shipping, hazardous communication and emergency response procedures					
4.	Recordkeeping- monitors safety programs and identifies deficiencies	✓				
5.	Provides additional monitoring, training, and consultation as needed	√				
6.	Biological risks are assessed by BHC and the IBC using the CDC publication BMBL	✓				
	(Biosafety in Microbiological and Biomedical Laboratories), NIH Guidelines for Research					
	Involving Recombinant or Synthetic Nucleic Acid Molecules, American Biological Safety					
	Association & American Society for Microbiology publications, peer review journals and					
	professional and governmental sources.					
7.	Provides recommendations on PPE use including PAPRs, N-95 respirators, lab coats,	✓				
	coveralls, gloves, face and eye protection, and shoe-covers.					
8.	Provides regulatory guidance on biological research	✓				

Reviewed by the IACUC on October 15, 2020.



Office of Animal Care Compliance

Exception - Multiple Species Housing within Room

There is only one animal room each in the bio-containment facility located in the program requires use of both mice and rat species at each biohazard risk level. For this reason, we need to house mice and rats in the same rooms. However, each species is segregated in separate ventilated cage/racks systems. Also, each room has approximately 15 fresh air changes per hour with no air recirculation. Supply air for each rack is drawn from the room through a High Efficiency Particulate Air (HEPA) filter and distributed to each cage. Subsequently all air from the cages is HEPA filtered and exhausted directly out of the building through the building exhaust ducting. In addition, procedures with mice and rats are not conducted at the same time and generally all procedures are conducted inside a BSC. The aforementioned building mechanical system, ventilated rack design, and methods significantly minimize the stress to animals that can be associated with exposure to interspecies odors or close proximity.

Semi-annual IACUC Review – October 15, 2020



PUBLIC HEALTH SERVICE NATIONAL INSTITUTES OF HEALTH



The NIH Office of Laboratory Animal Welfare (OLAW) is deeply concerned about the impact of the expanding outbreak of the respiratory illness known as COVID-19 on the ability of Assured institutions to maintain an animal care and use program in complete accordance with the Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals (Policy).

OLAW recognizes that as the novel coronavirus outbreak continues, it becomes increasingly difficult for Asured Intitutions to adhere to provisions of the PHS Policy, the *Guide for the Care and Use of Laboratory Animals* (*Guide*), and the commitments detailed in their Animal Welfare Assurance. In accordance with PHS Policy Section V.D., OLAW has reviewed and approved your institution's request for a temporary waiver of Section IV.B.2. of the PHS Policy regarding the inspection, at least once every six months, of your institution's animal facilities (including satellite facilities). OLAW expects your IACUC to complete inspections of your animal facilities that were postponed and schedule the next inspections within 6 months.

If OLAW can be of further assistance, please contact



Semi-annual Inspection of Laboratories and Animal Facilities HSC – in person and virtual inspections via Zoom - March 4 thru September 16, 2020

*Inspections were halted in March due to COVID-19 restrictions and were completed in September via virtual inspections.

Inspectors: AV (Attending Veterinarian), Member #18, Member #23, Member #24, Member #27, OCS (OACC Compliance Specialist), OSOM (OACC Senior Operations Manager)

Escorts: PIs and other research staff joined the virtual inspections via Zoom and filmed the animal areas and answered questions for the Zoom IACUC inspectors.

Inspectors	Deficiencies A,M,S,C, NA	Location and Lab Function	Deficiency and Plan for Correction and Action (if any)	Responsible Party	Correction Schedule	Date Completed
Member #27, AV, OCS, OSOM	A		Neat and clean. No deficiencies noted	ARF	N/A	N/A
AV, OCS, OSOM	M		Neat and clean. 1) The room pest trap contained some insects and there was no insect trap log posted for the room to document numbers identified over time. Replace the insect trap and post an observation log in this anteroom. 2) Temperatures in the mouse cubes were low (around 68 degrees), maybe due to a recent cold snap.	ARF/ Multiple	Correct #1 by September 30, 2020. Correct #2 as soon as possible.	#1 was corrected 9/15/20. #2 WO Request # was submitted immediately and was repaired within a few hours.
Member #27, AV, OCS, OSOM	A		Neat and clean. No deficiencies noted	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	A		Neat and clean. No deficiencies noted	ARF	N/A	N/A
Member #27, AV,	A		Neat and clean. No deficiencies noted.	ARF	N/A	N/A

OCS,	T				
OSOM					
Member #27, AV, OCS, OSOM	M	Neat and clean. 1) 1-2 recapped needles out of a few hundred were found in a sharps container. Label the containers with a sign that says "Do not recap needles".	ARF/ Multiple	Correct by September 30, 2020.	Corrected on 9/16/20.
Member #27, AV, OCS, OSOM	M	Neat and clean. 1) Expired pre-empt removed immediately.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	M	Neat and clean. 1) Cages with singly housed animals should be marked for single housing. 2) A PI storage cabinet should be organized and decluttered. 3) A CO2 SOP on the wall by the CO2 station needs to be updated.	ARF/ Multiple	Correct by September 30, 2020.	#2 corrected 9/9/20. #s 1 and 3 corrected 9/11/20.
OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF/ Multiple	N/A	N/A
Member #27, AV, OCS, OSOM	M	Neat and clean. 1) Hood needs to be recertified.	ARF/ Multiple	Correct as soon as possible.	N/A
Member #27, AV, OCS, OSOM	M	Neat and clean. 1) Hood needs to be recertified.	ARF	Correct as soon as possible.	N/A
Member #27, AV, OCS, OSOM	M	Neat and clean. 1) 1-2 recapped needles out of a few hundred were found in a sharps container. Label the containers with a sign that says "Do not recap needles".	ARF	Correct by September 30, 2020.	Corrected on 9/16/20.
Member #27, AV,	A	Neat and clean. No deficiencies noted.	ARF	N/A	N/A

OCS, OSOM					
OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	М	Neat and clean. 1) 1-2 recapped needles out of a few hundred were found in a sharps container. Label the containers with a sign that says "Do not recap needles".	ARF	Correct by September 30, 2020.	Corrected on 9/16/20.
Member #27, AV, OCS, OSOM	A	Very neat and clean. No deficiencies noted.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	M	Neat and clean. 1) Hood needs to be recertified. 2) Expired enrichment diet removed immediately.	ARF/ Multiple	Correct #1 as soon as possible.	N/A
Member #27, AV, OCS, OSOM	M	Neat and clean. 1) Hood needs to be recertified.	ARF/ Multiple	Correct as soon as possible.	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF	N/A	N/A

Member #27, AV, OCS, OSOM	M	Neat and clean overall. 1) Expired saline removed immediately from one storage cabinet.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	A	1) Neat and clean. No deficiencies noted.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	M	Neat and clean. 1) 1-2 recapped needles out of a few hundred were found in a sharps container. Label the containers with a sign that says "Do not recap needles".	ARF	Correct by September 30, 2020.	Corrected on 9/16/20.
Member #27, AV, OCS, OSOM	M	Neat and clean overall. 1) Cages are obscured by some sort of cloudy substance on the plastic. 2) Some enrichment food was not labeled.	ARF	Correct by September 30, 2020.	Corrected on 9/15/20.
Member #27, AV, OCS, OSOM	M	Neat and clean. 1) 1-2 recapped needles out of a few hundred were found in a sharps container. Label the containers with a sign that says "Do not recap needles".	ARF	Correct by September 30, 2020.	Corrected on 9/16/20.
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF/ Multiple	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF/ Multiple	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted. Renovation of the rack washer pit was ongoing pending the installation of a new rack washer that is scheduled during October 2020	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF/ Multiple	N/A	N/A

			I	1	
Manalan		Neat and clean. No deficiencies noted.	ADE	DT/A	NT/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF/	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF/	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF	N/A	N/A

Member #27, AV, OCS,	M	Neat and clean. 1) Expired saline removed immediately from storage cabinet #8.	ARF	N/A	N/A
OSOM		 4 bottles of expired drugs removed immediately from cabinet #2 			
Member #27, AV, OCS, OSOM	M	Neat and clean. 1) A broom was immediately placed back up on its holder.	ARF/ Multiple	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	A	Neat and clean. No deficiencies noted.	ARF	N/A	N/A
Member #27, AV, OCS, OSOM	С	Neat and clean. No deficiencies noted. 1) Room is in transition from one purpose to another.	ARF	N/A	N/A
Member #27, AV,	С	Could be neater and cleaner. 2) Room is in transition from one purpose to another.	ARF	N/A	N/A

			1	1	
OCS,					
OSOM					
Member	С	Neat and clean. No deficiencies noted.	ARF	N/A	N/A
#27, AV,		1) Room is in transition from one purpose to another.			
OCS,					
OSOM			1.00	G .1	1
Member	M	Neat and clean.	ARF	Correct by	Corrected
#27, AV,		1) Cage came from Main Campus. New cage card for		September	9/15/20.
OCS, OSOM		HSC needed.		30, 2020.	
Member	M	Sink is slightly corroded. Descale sink. Could be neater and cleaner.	ARF/Multiple	Correct #2	Corrected
#27, AV,	IVI	Expired saline in Cube 3 was removed immediately.	ART/Multiple	by	9/15/20.
OCS,		2) Sink is slightly corroded. Descale sink.		September	9/13/20.
OSOM		2) Shik is slightly colloded. Descale shik.		30, 2020.	
OSOM				30, 2020.	
AV, OCS,	M	The whole area could be much cleaner and neater.	Multiple	Correct by	Corrected on
OSOM		1) The room and the animal prep area were	1	September	9/9/20.
		cluttered and unorganized. Both rooms need to be		30, 2020.	
		thoroughly cleaned and organized.			
AV, OCS,	A	Neat and clean. No deficiencies noted.	Multiple	N/A	N/A
OSOM					
ATT OCC	24	N 4 1 1 11	36.16.1	C 4 //2	C 4 1
AV, OCS, OSOM	M	Neat and clean overall.	Multiple	Correct #2	Corrected on 9/9/20.
OSOM		An expired Chlorhexidine should not be used in live animals and should be disposed of as soon as		by September	9/9/20.
		possible.		30, 2020.	
		2) One anesthetic induction chamber contained dirty		30, 2020.	
		bedding and needs to be thoroughly cleaned.			
		bedding and needs to be thoroughly elemed.			
AV, OCS,	M	Neat and clean overall.		Correct by	Corrected on
OSOM		1) The sink was quite dirty and looked corroded. It	Multiple	September	9/9/20.
		should be thoroughly cleaned.		30, 2020.	

AV, OCS, OSOM	M		Could be neater and cleaner. 1) An expired Buprenorphine should not be used in live animals and should be returned to the ARF as soon as possible. 2) A locked drug safe that is no longer in use should be opened, cleaned out, and repurposed. 3) Guillotine logs are needed for the two guillotines present in the surgery room.	Multiple	Correct by September 30, 2020.	Corrected on 9/9/20.
AV, OCS, OSOM	A		Neat and clean. No deficiencies noted.		N/A	N/A
AV, OCS, OSOM	M		Neat and clean. 1) There were quite a few carcasses in the freezer. They should be disposed of.	Multiple	Correct by September 30, 2020.	Corrected on 9/9/20.
AV, OCS, OSOM	A		Neat and clean. No deficiencies noted.	Multiple	N/A	N/A
AV, OCS, OSOM	A		Neat and clean. No deficiencies noted.	Multiple	N/A	N/A
AV, OCS, OSOM	M	F	Could be neater and cleaner overall. 1) The water tank was contained water and was not currently in use. Empty and sanitize the tank.	Multiple	Correct by September 30, 2020.	Corrected on 9/9/20.
Member #18, OSOM, OCS	M		Neat and clean. 1) One expired drug and one cloudy drug were returned		Correct #s 2, 3 and 4 by March 31st, 2020 (delayed due to COVID- 19 restrictions).	Inspected in March and verified as corrected on 9/4/20

			T		
		 Not all reagents were labeled with current expiration dates. All reagents used in live animals should be labeled properly and should be within date. The eyewash had not been checked in the last 30 days. Eyewashes should be checked every 30 days and the attached eyewash tag should be initialed and dated. Tested during inspection. 			
Member #18, OSOM, OCS	M	Neat and clean. 1) Not all reagents were labeled with current expiration dates. All reagents used in live animals should be labeled properly and should be within date. 2) The eyewash had not been checked in the last 30 days. Eyewashes should be checked every 30 days and the attached eyewash tag should be initialed and dated. Tested during inspection.		Correct by March 31st, 2020 (delayed due to COVID- 19 restrictions).	Inspected in March and verified as corrected on 9/4/20
Member #24, OSOM	A	Neat and clean. No deficiencies noted.		N/A	N/A
OCS	A	Very neat and clean. No deficiencies noted.		N/A	N/A
OCS	M	Very neat and clean. 1) A gas anesthesia charcoal canister was over the recommended weight and should be replaced as soon as possible.		Correct by March 31st, 2020.	Inspected and corrected in March 2020.
OCS	A	Neat and clean. No deficiencies noted.		N/A	N/A
OCS	A	Neat and clean. No deficiencies noted.		N/A	N/A

OSOM, OCS	A	No animals are handled in this area. Drug sto deficiencies noted.	orage only. No	N/A	N/A
N/A	С	Not in use currently.		N/A	N/A
OCS	M	Neat and clean. 1) The eyewash had not been checked in days. Eyewashes should be checked and the attached eyewash tag should be dated. Tested during inspection.	every 30 days	N/A	N/A
OCS	M	Neat and clean. 1) The eyewash had not been checked in days. Eyewashes should be checked and the attached eyewash tag should be dated. Tested during inspection.	every 30 days	N/A	N/A
OCS	M	Neat and clean. 1) The eyewash had not been checked in days. Eyewashes should be checked and the attached eyewash tag should be dated. Tested during inspection. 2) The induction chamber was dirty so it immediately.	every 30 days be initialed and	N/A	N/A
OCS	M	Neat and clean. 1) Couldn't find evidence of an up to date ce gas anesthesia machine #22942. Need to ver to date (maybe the current sticker needs to be	fy that it's up	Correct by March 31st, 2020.	Inspected and corrected in March 2020
OSOM,	A	Neat and clean. No deficiencies noted.		N/A	N/A
OCS OCS	A	Treat and cream. Two deficiencies noted.		TV/A	11/11
OSOM, OCS	A	Neat and clean. No deficiencies noted.		N/A	N/A

ocs	A	Neat and clean. No deficiencies noted.	N/A	N/A
OSOM, OCS	A	Neat and clean. No deficiencies noted.	N/A	N/A
OSOM, OCS	M	Neat and clean overall. 1) One expired bottle of Buprenorphine and one expired bottle of Fatal Plus were in use and should be returned to the ARF immediately.	Correct immediately and retrain personnel.	Drugs turned in on 9/4 and signs posted that say "Do not use drugs past expiration date". A copy of the Controlled substance PI operating procedure was provided to the PI's on 9/15/2020 along with an assurance acknowledge ment document to be signed by all lab members and

OSOM	A	Neat and clean. No deficiencies noted.	N/A N/A	
Member #18, OSOM, OCS	M	Lab could be MUCH neater and cleaner. 1) The induction chamber had feces in it. Clear induction chamber after each use. 2) Not all reagents were labeled with current of dates. All reagents used in live animals she labeled properly and should be within date. 3) The eyewash had not been checked in the ladays. Eyewashes should be checked every and the attached eyewash tag should be initiated. Tested during inspection.	ean the expiration would be expirated by 30 days March 31st, 2020. March 31st, 2020.	ified as rected on 0/20
AV, OSOM	M	Extremely Neat and clean. 1) Label expired or non-sterile surgical materication cabinet with a sign that says "Expired or not materials not for use for survival surgery". 2) The eyewash had not been checked in the ladays. Eyewashes should be checked every and the attached eyewash tag should be initial dated. Tested during inspection.	rials in the con-sterile last 30 y 30 days March 31st, 2020. and in N 202	oected corrected Aarch 0.
Member #24, OSOM	A	Neat and clean. No deficiencies noted.	N/A N/A	

Member #24, OSOM	A	Neat and clean. No deficiencies noted.		N/A	N/A
Member #24, OSOM	M	No animals are handled in this area. Drug storage only. 1) The eyewash had not been checked in the last 30 days. Eyewashes should be checked every 30 days and the attached eyewash tag should be initialed and dated. Tested during inspection.		Corrected immediately.	N/A
Member #24, OSOM	М	Neat and clean overall. 1) The eyewash had not been checked in the last 30 days. Eyewashes should be checked every 30 days and the attached eyewash tag should be initialed and dated. Tested during inspection.		Corrected immediately.	N/A
Member #24, OSOM	A	Lab is empty except for CO2 station. No deficiencies noted.	Multiple	N/A	N/A
Member #23, OSOM, OCS	M	Neat and clean. 1) Hang broom on a hanger on the wall in	/Shared	Correct by September 30, 2020.	Corrected on 9/22/20.
Member #23, OSOM, OCS	М	Neat and clean overall. 1) An expired drug and an empty drug bottle were returned to the ARF immediately.		N/A	N/A
Member #18, OSOM, OCS	М	Neat and clean. 1) One empty bottle of Ketamine was returned to the ARF immediately.		N/A	N/A

Member #18, OSOM, OCS	M	Neat and clean. 1) The gas anesthesia machine in needs to be recertified. 2) The sink in should be descaled/cleaned.	Correct #1 as soon as possible. Correct #2 by September 30, 2020.	#2 corrected on 9/25/20
Member #18, OSOM, OCS	A	Neat and clean. No deficiencies noted.	N/A	N/A
Member #18, OSOM, OCS	A	No animals are handled in this area. Drug storage only. No deficiencies noted.	N/A	N/A
OSOM, OCS	A	Neat and clean. No deficiencies noted.	N/A	N/A
OSOM, OCS	M	General housekeeping is needed. 1) One empty drug bottle and one expired drug bottle in were returned immediately to the ARF. 2) The sink in its very corroded and should be cleaned and descaled.	Correct #2 by September 30, 2020.	#2 corrected on 9/17/20
OSOM, OCS	A	Neat and clean. No deficiencies noted.	N/A	N/A

A= acceptable, M = minor deficiencies, S = significant deficiencies (are or may be a threat to animal health or safety), and C= Change in program, N/A=not applicable