

Memorandum to: [REDACTED]

From: West Campus Institutional Animal Care and Use Committee (IACUC)

Subject: Semiannual Report of the Program Review and Facility Inspection

Date: February 18, 2020. Covering July 1, through Dec 31, 2019

This report summarizes the West Campus (WC) IACUC's results of its most recent program review and facility inspection, as required by the Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals (*Policy*), Section IV.B.1.-3., the *Guide for the Care and Use of Laboratory Animals* (*Guide*), and the Animal Welfare Act (AWA) regulations, as applicable. Submission of semiannual reports to the Institutional Official is a condition of this institution's Animal Welfare Assurance with the NIH Office of Laboratory Animal Welfare (OLAW).

Since the last review, the following changes have occurred in the institution's program for animal care and use (PHS Policy IV.A.1.a-i):

New- Members

[REDACTED]

Members rotating off the committee:

[REDACTED]

I. Description of the Nature and Extent of the Institution's Adherence to the PHS Policy, the *Guide*, and the Animal Welfare Act (AWA)

Departures from the Public Health Service (PHS) Policy, the *Guide*, and the AWA. Select A or B:

☐ A. There were no new departures during this reporting period.

☒ B. The following departure has been reviewed and approved by the IACUC during this reporting period:

Expired epinephrine

The IACUC accepted the approval by the Attending Veterinarian for the emergency use of epinephrine beyond its expiration date during a shortage of supply from the manufacturer and vendor. Rescue epinephrine is critical in the case of cardiovascular collapse. Expired epinephrine will be discarded as soon as fresh supplies are available.

Extended period for disinfection

The IACUC approved modification to the chemical sanitation schedule for newly-formed groups of non-human primates. The 14-day interval between disinfection events requires the animals be moved into a transfer tunnel at a time when training for cooperation is critical. The primary enclosures will continue to be washed free of debris on a daily basis, but chemical disinfection will be delayed for 2 weeks to allow time for positive reinforcement training techniques to succeed. The cleanliness of the enclosure will be monitored during the period of delayed disinfection to establish performance parameters.

Reduced space for infant/adult pairs past 180 days infant age

The IACUC approved an exemption to the minimum space standards for non-human primates detailed in the AWA Part 3, Subpart D. §3.80 and Table 3.5 of The Guide to the Care and Use of Laboratory Animals. The exemption permits infants over 180 days of age, but under 1.75 kg in body weight, when housed with adults, to remain for a maximum of 6 weeks in cages appropriate for younger infants. The exemption minimizes the total number of animals relocated, and the number of relocations per animal. The IACUC accepted the judgment of the Attending Veterinarian that the exemption was in the best interests of animal welfare. Appropriate clinical and behavioral monitoring plans were included in the IACUC's approval.

II. Deficiencies in the Institution's Animal Care and Use Program Animal Care and Use Program

Review Date (s): December 4, 2019, attended by 9 members.

Select A or B:

- ☒ A. There were no deficiencies in the program during this reporting period.
☐ B. The following deficiencies have been identified:

III. Deficiencies in the Institution's Animal Facility

Animal Facility Inspection Date(s):

Select A or B:

- ☐ A. There were no deficiencies in the animal facility during this reporting period.
☒ B. The following deficiencies have been identified: *See below.*

IV. Minority Views

Select A or B:

- ☒ A. No minority views were submitted or expressed.
☐ B. The following minority views were expressed:

V. Status of AAALAC Accreditation

All of the OHSU West Campus animal care and use program and animal facilities remain accredited by the AAALAC International.

Summary of WC IACUC Semiannual Facility Inspections

On the dates listed below, twenty-one committee members (including alternates) conducted inspections of locations within OHSU's WC animal facilities, including satellite facilities. Laboratory locations where live animals are used were also inspected.

A total of 490 rooms in animal facilities and laboratories where live animals are used or housed were inspected.

Building	Date(s) of Inspection	Number of rooms/labs inspected
	11/07/2019	56
	12/06/2019	35
	11/13/2019	29
	11/05/2019	58
	11/06/2019	37
	11/26/2019	29
	11/26/2019	14
	11/21/2019	36
	11/07/2019	35
	11/12/2019	21
	11/12/2019	1
	11/05/2019	36
	11/08/2019	34
	11/15/2019	69

SIGNIFICANT DEFICIENCIES: *None identified*

MINOR DEFICIENCIES: *Listed below.*

Certification of Equipment /use of F-air canisters

- Found: Fume hood has outdated certification, Isoflurane Vaporizer has outdated certification, F-air canisters have no recorded weights, F-air canister is unable to properly vent.
- Plan: Schedule hood or vaporizer certification, discard or replace F/air canisters, implement proper installation and recording of canister use.
- Reference: "Safety equipment should be properly maintained and its function periodically validated. Appropriate methods should be used for assessing and monitoring exposure to potentially hazardous biologic, chemical, and physical agents where required (e.g., ionizing radiation) or where the possibility of exceeding permissible exposure limits exists (CFR 1984b)." Guide, p.20

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191108	PI	m	20191108	20191108
		20191108	PI	m	20191212 20191227	20191217
		20191108	PI	m	20191212 20191227	20191217

Chemical Storage

- Found: Improper storage for chemical solution
- Plan: Ensure properly label containers with concentration, preparer/lab, and hazards either as GHS symbols or verbally with suspect carcinogen as primary hazard. Ensure containers are stored in secondary containment.
- Reference: "Managing risk ... the development of processes and standard operating procedures ... Special safety equipment should be used in combination with appropriate management and safety practices (NIH 2002; OSHA 1998a,b)." Guide p.18
- "...procedures should also be designed, selected, and developed to reduce the possibility of physical injury or health risk to personnel (NIOSH 1997a,b)." Guide p.19

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191109	PI	m	20191211 20191226	20191226

Cleaning

- Found: Area(s) dirty. Countertops, floors, work surfaces, vents, ceilings, walls with visible dirt or debris, clutter on floor, work areas, mops not hung up, equipment soiled, dirty animal housing.
- Plan: Mop, sweep floors, wiped down all work surfaces. Promptly remove or store items when not in use.

Reference: "Cleaning and Disinfection of the Macroenvironment. All components of the animal facility, including animal rooms and support spaces (e.g., storage areas, ...-washing facilities, corridors, and procedure rooms) should be regularly cleaned and disinfected as

appropriate to the circumstances and at a frequency based on the use of the area and the nature of likely contamination" Guide, p. 72.

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191105	DCM	m	20191209 20191230	20191211
		20191105	DCM	m	20191209 20191230	20191223
		20191121	Facilities/DCM	m	20191209 20191230	20191231
		20191121	Facilities	m	20191209 20191230	20191231
		20191121	Facilities	m	20200430 AR 12707	
		20191121	Facilities	m	20191209 20191230	20191203
		20191108	DCM/Facilities	m	20200130	20200113
		20191115	Facilities	m	20200430 AR12727	
		20191129	DCM	R	20191209 20191230	20191216

Expired Drugs

- Found: Expired Drugs.
- Plan: Discard expired drugs or mark as "expired" and store separately from in-date drugs..
- Reference: "Agents that provide anesthesia and analgesia must be used before their expiration date and should be acquired, stored and their use recorded, and disposed of legally and safely." Guide, p. 122

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191105	DCM	m	20200121 20200204	20200121
		20191106	DCM	m	20191209 20191223	20191223
		20191127	DCM	m	20191127	20191127
		20191206	DCM	m	20191206	20191206

Expired Materials

- Found: Expired Materials
- Plan: Discard expired materials or mark as "expired" and store separately from in-date materials.
- "Drug records and storage procedures should be reviewed during facility inspections." Guide, p. 115 "Other medical materials should not be used after the expiration date for recovery surgery "OHSU IACUC Policy; Sterility of Surgical Instruments and other Medical Materials

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191105	DCM	m	20191209 20191230	20191105
		20191105	DCM	m	20191209 20191230	20200107
		20191105	PI	m	20191211 20191226	20191212
		20191105	DCM	m	20191209 20191223	20191212

Facility Repair

- Found: sprinkler collar not flush with ceiling,, wall, floor or ceiling damage, signage missing, paint chips, vehicle repair, gaps in walls or doors, doors not closing.
- Plan: Items fixed or work orders in place to repair or replace as needed.
- Reference: "A well-planned, well-designed, well-constructed, properly maintained and managed facility is an important element of humane animal care and use as it facilitates efficient, economical, and safe operation." Guide, p.133.
- *AR = work order in place*

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191105	Facilities	R-m	20200401 AR 12709	
		20191105	Facilities	m	20201231	Obtaining Quote
		20191105	Facilities	m	20201231	Obtaining Quote
		20191105	Facilities	R-m	20200430 AR12704	
		20191105	Facilities	m	20201231 AR11047	
		20191105	Facilities/DCM	R-m	20191223	20191212

	20191105	Facilities/D CM	m	20191223	20191209
	20191105	Facilities	R-m	20200430 AR12694	
	20191105	Facilities	m	20200430 AR12738	
	20191105	Facilities	R-m	20200430 AR12739	
	20191105	Facilities	R-m	20200430 AR12764	
	20191105	Facilities	Rm	20200430 AR12729	
	20191105	Facilities	Rm	20191230	20191115
	20191107	Facilities	m	20200430	Capital Project
	20191107	Facilities	m	20201231	Continual Replace as damaged
	20191107	Facilities	R-m	20200215	20200214
	20191121	Facilities	m	20191216 20200117	20191205
	20191121	Facilities	m	20200430 AR12742	
	20191113	Facilities	R-m	20200430 AR12710	
	20191113	Facilities	m	20200430 AR12711	
	20191113	Facilities	m	20200430 AR12712	
	20191106	Facilities	R-m	20200430 AR12743	
	20191108	Facilities	m	20200501	Remodel project
	20191108	Facilities	m	20200501 AR12765	
	20191115	Facilities	m	20200130	20200110
	20191115	Facilities	R-m	20200430 AR12724	
	20191115	Facilities	m	20200430 AR12725	
	20191126	Facilities	R	20200430 AR12732	
	20191126	Facilities	R	20200430 AR12731	

	20191126	Facilities		20201001 AR11609	
	20191127	Facilities	m	20200430 AR12705	
	20191127	Facilities	m	20200430 AR12736	
	20191206	Facilities	R-m	20200430 AR12713	
	20191206	Facilities	R-m	20200430 AR12714	
	20191206	Facilities	m	20200430 AR12722	
	20191206	Facilities	m	20200430 AR12723	
	20191206	Facilities	m	20200430 AR12715	
	20191206	Facilities	m	20191231	20191231
	20191206	DCM/Facilities	m	20200430 AR12716	
	20191206	Facilities	R-m	20200430 AR12717	
	20191206	Facilities	3R-m	20200430 AR12718	
	20191206	Facilities	m	20200430 AR12719	
	20191206	Facilities	m	20200430 AR12720	
	20191206	Facilities	m	20200430 AR12721	

Food

- Found: Food or treats out of date.
- Plan: Discard any out of date and unwrapped (open) "bricks" of specialized animal diet or feed.
- Reference: "The user should know the date of manufacture and other factors that affect the food's shelf life. Stale food or food transported and stored inappropriately can become deficient in nutrients." Guide p. 66;

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191105	DCM	m	20191105	20191105
		20191108	DCM	m	20191108	20191108

Labeling of Drugs and Materials

- Found: containers, vials, and squirt bottles, jugs, not properly labeled.
- Plan: Label bottle(s)/container(s) with contents, date solution made, expiration date (if applicable).
- Reference: "Drug records and storage procedures should be reviewed during facility inspections." Guide, p. 115

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191105	PI	m	20191211 20191226	20191217
		20191105	DCM	m	20191209 20191230	20191220
		20191112	PI	m	20191217 20191231	20191112
		20191115	PI	m	20191211 20191226	20191216
		20191115	PI	m	20191211 20191226	20191231

Occupational Health & Safety: Physical Hazards

- Found: Gas tanks (H) additional strap for securing to wall, no eye flush station documentation, F/Air canisters not properly installed or use documented, overfilled sharps containers, operation of doors, enrichment equipment, lights out.
- Plan: Ensure work order in place for tank straps, properly document eye wash station, F/air canister monitoring, post certificate, and hazard signs.
- Reference: "Other potential hazards - such as....wet floors, cage washers and other equipment, lifting, latter use...- that are inherent in or intrinsic to animal use should be identified and evaluated." Guide, p. 18

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191105	DCM	m	20191209 20191223	20191216
		20191113	DCM/Facilities	m	20191209 20191230	20191219
		20191113	DCM/Facilities	m	20191209 20191230	20191219
		20191106	Facilities	m	20200330 AR12744	
		20191108	DCM	m	20191209 20191223	20191212
		20191115	Facilities/DCM	m	20191209 20191230	20191113
		20191115	Facilities	m	20200330 AR12726	
		20191115	Facilities	m	20200330 AR12728	

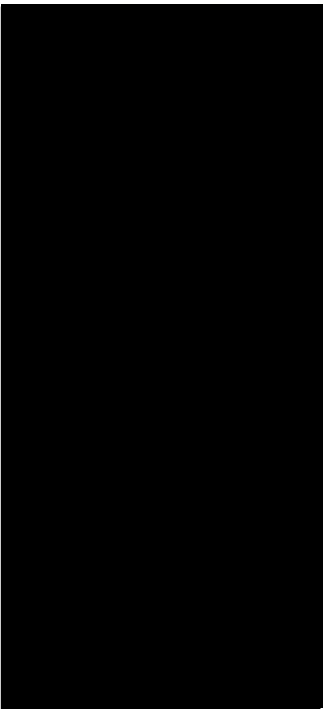
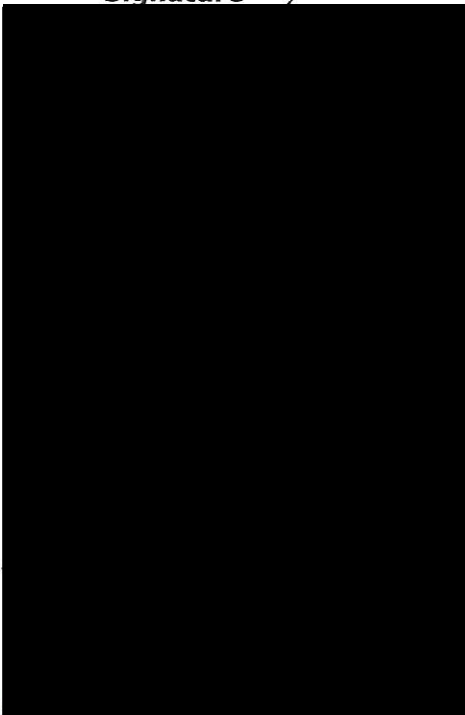
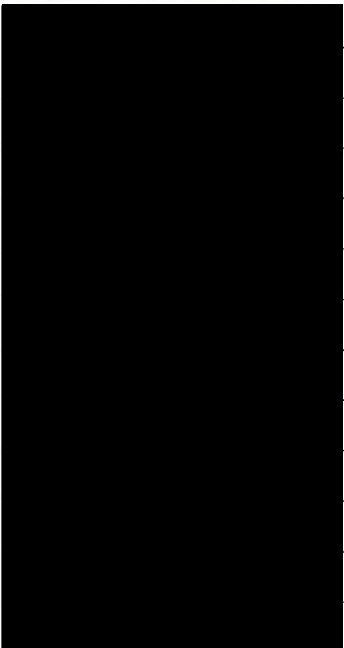

	20191126	DCM/	m	20191209 20191230	20191219
--	----------	------	---	----------------------	----------

Unsanitizable Materials

- Found: Equipment or surfaces in animal room that are not smooth an impervious to moisture.
- Plan: Remove equipment or recover/seal so surface area is easily sanitizable and moisture-resistant.
- Reference: "...surfaces should be constructed of materials that are monolithic and impervious to moisture." Guide, p. 144, 145.
"Facility features applicable to all hazards include isolation of the animals and their waste, provision of sealed monolithic room surfaces that do not promote dust accumulation and are easy to sanitize...." Guide, P. 148-149

Building	Room	Date Inspected	Responsible Party (PI / DCM)	Minor or Significant and Repeat	Status / Correction Schedule	Date Complete
		20191112	PI	m	20191112	20191112

Signatures [signatures of a majority of the IACUC members required by AWAR
(§2.31,c,3), if applicable]

Names of IACUC Members	Signature	Date
		2/20/2020
		2/18/2020
		2/18/2020
		2/18/2020
		2/18/2020
		2/18/2020
		2/18/2020
		2/18/2020
		2/18/2020
		2/18/2020
		02/18/2020
		2.18.2020
		02/18/2020
		02/18/2020
		02/18/2020
		02/18/2020
		02/18/2020
		02/18/2020
		02/18/2020
		02/18/2020

* These signatures contributed to quorum. All other signatures are alternates who did not contribute to quorum.

West Campus IACUC
Semiannual Facilities Inspection and Program Review
February 18, 2020