



**School of Medicine and Public Health Animal Care and Use Committee  
Open Session – January 6, 2020**

**Present (voting):**

[REDACTED]

**Present (nonvoting):**

[REDACTED]

**Guests:**

**Absent:**

[REDACTED]

Dr. [REDACTED] called the meeting to order at 8:30 a.m.

**Approval of Open Session Minutes of December 2, 2019**

[REDACTED] moved to approve the minutes with minor editorial modifications. The vote was unanimous. Dr. [REDACTED] provided an update from the minutes, confirming that a consultation took place regarding protocol M006273 as directed by the committee. Dr. [REDACTED] confirmed that the PI of protocol M005630 is aware that he needs to begin splitting up this complex protocol as per the committee.

**Annual Reapprovals (January)**

[REDACTED] moved to approve the annual updates. The vote was unanimous with [REDACTED] abstaining. Dr. [REDACTED] summarized feedback from the annual reapprovals, noting none of the protocols on the list use USDA-covered species.

**Logs: Designated Review/other (January)**

The committee reviewed the designated review and veterinary verification and consultation (VVC) logs. Dr. [REDACTED] noted the large number of VVCs performed in December, and confirmed all changes were acknowledged as appropriate for VVC.

**Protocol Reviews**

Ms. [REDACTED] provided a brief explanation of a change in the protocol form that requires individuals who request to transport research animals in privately-owned vehicles, or non-designated departmental or fleet vehicles, to attach a completed permission form to the protocol. She reminded committee members to verify the forms are attached when reviewing protocols.

**M005303-R01-A02: Studies of the cochlear nuclei** – Reviewers noted this amendment was called for full committee review from designated review due to concerns with food restriction of mice and the use of collars to reduce oral activity that could affect data recording. Discussion ensued. The PI will be asked to provide specific criteria for identifying animal weakness due to food restriction, to provide additional scientific justification for proposed methods of reducing aural activity and what alternatives were considered, clarify if laboratory staff will provide husbandry care, and to make other changes. [REDACTED] / [REDACTED] moved to require modifications to secure approval and to require the PI to have an in-person consultation with Dr. [REDACTED] and a scientific member of the ACUC regarding the committee's concerns. The vote was unanimous.

**M005690-R01: Characterization of anti-tumor immune responses in mice** - Discussion of the protocol ensued. The PI will be asked to update the chemical hazards information, to clarify the post-operative analgesics for mini-pump surgeries, and to make other changes. [REDACTED] / [REDACTED] moved to require modifications to secure approval. The vote was unanimous.

**M005719-R01: Genetic Mouse Models for Primary Congenital Glaucoma** - Discussion of the protocol ensued. The PI will be asked to revise the description of animal numbers justification, to clarify the method of animal transportation, and to make other changes. [REDACTED] / [REDACTED] moved to require modifications. The vote was unanimous.

**M006277: pH Detection in Acute Compartment Syndrome in Swine** - Discussion of the protocol ensued. The PI will be asked to clarify how pressure in the limb will be returned to normal post-procedure, to describe safety precautions that will be followed when on farm premises, and make other changes. [REDACTED] / [REDACTED] moved to require modifications to secure approval. The vote was unanimous.

Committee members briefly discussed an amendment currently under consideration for designated review eligibility. A concern with the lack of detail in the plan to monitor infected mice for lung sepsis was raised. Dr. [REDACTED] asked committee members to carefully consider if the amendment is eligible for designated review or would be more appropriately reviewed at a convened ACUC meeting, and to indicate their choice in the ARROW system.

**Post-approval Monitoring: Report from Senior Program Veterinarian**

Dr. [REDACTED] had no report for open session.

**Post-approval Monitoring: Report from Biomedical Research Model Services (BRMS)**

Dr. [REDACTED] had no report for open session.

**Post-approval Monitoring: Report from Animal Program Assessment Specialists**

Mr. [REDACTED] had no report for open session.

**Committee Training**

Ms. [REDACTED] presented information about scientific merit review, the IACUC's role in conducting scientific merit review in the context of reviewing protocols, and provided examples of how some common protocol review questions in fact are questions about scientific merit (see attached). She highlighted the positions of NIH Office of Laboratory Animal Welfare (OLAW) and the *Guide* regarding scientific merit review by IACUCs, which state that IACUCs may ask questions about scientific merit review as part of considering if the proposed work with animals is ethical. Drs. [REDACTED] and [REDACTED] briefly described their experiences participating in grant reviews, and contrasted the questions raised during grant reviews with the questions raised by animal care and use committees. Discussion ensued. Dr. [REDACTED] reminded members that if the committee is unsure of the scientific value of proposed work that they can require the PI to conduct a pilot study, or a limited number of procedures, and evaluate those outcomes before approving a larger-scale project. Members thanked Ms. [REDACTED] for presenting this topic.

**Approval of Semiannual Program Review Minutes of November 25, 2019**

Discussion ensued. [REDACTED] moved to approve the minutes with minor editorial modifications. The vote was unanimous. Dr. [REDACTED] said he will draft a letter to the Institutional Official and circulate for final comment, and members' signatures will be collected at the February meeting.

**Other Business**

Dr. [REDACTED] reported that the All Campus Animal Planning and Advisory Committee (ACAPAC) is considering making links to readability scoring programs available to PIs. These programs may help PIs ensure that the language used in research protocols is understandable to laypersons.

Drs. [REDACTED] and [REDACTED] briefly summarized a recent inspection by the USDA Veterinary Medical Officers (VMOs) that included the SMPH animal facilities and records. No non-compliant items were cited.

Dr. [REDACTED] called for other business for open session. Hearing none, [REDACTED] moved to adjourn into Closed Session for discussion of research protocols or other documents containing confidential proprietary information and personnel matters relating to such research protocols, pursuant to Wisconsin Statutes Section 19.85(1)(c), (d), (e), (f), and (g). The vote was unanimous by roll call.

The meeting was adjourned from Closed Session without reconvening into Open Session.





**School of Medicine and Public Health Animal Care and Use Committee  
Closed Session – January 6, 2020**

**Present (voting):** [REDACTED] (for [REDACTED]), [REDACTED]

**Present (nonvoting):** [REDACTED]

**Guests:**

**Absent:** [REDACTED]

**Approval of Closed Session Minutes of December 2, 2019**

[REDACTED] / [REDACTED] moved to approve the minutes with minor editorial modifications. The vote was unanimous. Dr. [REDACTED] provided an update from the minutes, stating that Dr. [REDACTED] is working with the PI of the cardiovascular core unit to create an SOP describing the steps that are taken to prepare room [REDACTED] ([REDACTED]) [REDACTED] for use for survival surgeries.

**Inspection Reports**

The schedule of Spring inspections was circulated for sign-up. Ms. [REDACTED] presented a list of rooms that have not been used for live animal work since the Spring 2018 semiannual inspections and are not currently listed on approved protocols (see attached). She recommended that the SMPH ACUC decommission these rooms for animal use, noting that any of the rooms can be reactivated upon PI and an acceptable ACUC inspection. Discussion ensued. [REDACTED] / [REDACTED] moved to decommission the list as presented. The vote was unanimous.

**Post-approval Monitoring: Report from Senior Program Veterinarian**

Dr. [REDACTED] had no report for closed session.

**Post-approval Monitoring: Report from Biomedical Research Model Services (BRMS)**

Dr. [REDACTED] reported that servers supporting the [REDACTED] environmental monitoring system for BRMS facilities, and other animal facilities on campus, and the sick animal reporting app have been updated and physically moved from the [REDACTED] and the [REDACTED] ([REDACTED]) to the Division of Information Technology (DoIT). He said that both the updates and the moves went smoothly.

### **Post-approval Monitoring: Report from Animal Program Assessment Specialists**

Mr. [REDACTED] provided additional information about the USDA Veterinary Medical Officers (VMOs) recent inspection, describing their site inspections of USDA-covered species housed at [REDACTED] and [REDACTED], and of records including SMPH ACUC meeting minutes. He said they were complimentary of descriptions in closed session minutes of post-approval monitoring of the cardiovascular core and the ACUC's active oversight of the core.

### **Cores and Compliance – Report**

Ms. [REDACTED] presented a report of feedback from four research cores and how each core ensures that animal activities performed by the core staff, or by users of the cores, are described in an ACUC-approved protocol (see attached). She said that all four cores determine if the proposed work is covered by core protocols, and instruct the clients to amend their independent protocols to include the use of the core or to clarify what work will be performed by the PI versus the core staff. Ms. [REDACTED] said the core staff provide standardized text to PIs for them to use to amend their protocols, however, none of the cores specifically request a copy of the PI's IACUC-approved amended protocol to verify any such changes have been made. She said that the SMPH ACUC may wish to consider requiring the cores to add a confirmation statement to project documentation that indicates both the client and the cores' staff understand that all animal activities must be described in an approved IACUC protocol before they are performed. Discussion ensued. The committee requested detailed information or examples of the exact documentation for each core to which such a statement would be appended. Dr. [REDACTED] and Ms. [REDACTED] will follow up and report back to the committee.

### **Other Business**

Ms. [REDACTED] reported that a waiver from Lab Animal Surgery training was granted to [REDACTED], a DVM clinical instructor at the School of Veterinary Medicine.

Dr. [REDACTED] called for other business for Closed Session or additional business for Open Session. Hearing none, Dr. [REDACTED] adjourned the meeting from closed session at 10:35 a.m.

[REDACTED]

## LOGS for SMPH ACUC – January 2020

### Designated Review New/Renewal

PI	Prot #	Date Rec'd	Title	Species	N/R

### Designated Review Amendment

PI	Prot #	Date Rec'd	Title	Species	Sum of change
████	M5554-R01-A01	11/18	Molecular Imaging of Breast Cancer	Mouse	+IM injection, +estradiol valerate
████	M5844-A01	11/18	Rational molecular targeting in high-risk cancer	Mouse	+addl substances, +addl imaging, +blood collection
████	M5387-R01-A01	11/19	Role of IgM in transplant glomerylopathy	Rat	+addl animals
████	M5625-R01-A01	11/20	Cytochromes P450: Expression and Regulation	Mouse	+addl housing
████	M5279-R01-A07	11/20	Neural mechanisms of loss, recovery and alterations of consciousness	Mouse	+KW-6002 (adenosine antagonist), +increased injections
████████	M5405-R01-A01	11/21	Cell motility mechanisms using zebrafish	Zebrafish	+Candida fungus injections
████	M5020-R01-A01	11/26	Zebrafish as a model for the blood-brain barrier	Zebrafish	+blood-brain permeability assay, +Dox treatment, +fluorescent dextrans
██████	M6020-A02	11/30	Molecular Elucidation of Physeal Growth Acceleration after Periosteal Resection	rabbit	+addl animals, + resection of femur
████	M5217-R01-A04	11/29	Investigation of the virulence of toxoplasma gondii and its protection against other infections	Mouse	+diet
████	M5303-R01-A02	12/4	Studies of the cochlear nuclei	Mouse	+overnight food fast, +restraint
████	M6254-A01	12/6	Immunotherapy for Malignant Glioma	Mouse	+cell lines with humanized mice

	M6075-A05	12/9	Neuro-and immunopharmacology in substance use disorders	Mouse	+oral corticosterone, +lipopolysaccharide admin
	M5342-R01-A01	12/9	Mouse models of human cancer	Mouse	+diet study, +microsatellite instable colorectal cancer model, +lentivirus study
	M6243-A01	12/12	Nanogenerator-Driven Self-Activated Electrical Stimulation for Enhanced Wound Healing	Mouse	+addl mice, +wound healing between mouse/human skin study
	M5952-A06	12/12	Membrane excitability and secretion from nerve endings	Mouse, rat	Personnel update
	M6171-A05	12/13	Molecular mechanisms of cerebral ischemia	Mouse, rat	+gu microbiota on MCAO model of stroke
	M5786-A05	12/17	Virulence Factors in fungi	Mouse	+oxylipins study
	M5597-R01-A01	12/17	Mechanisms of lung injury and fibrosis	Mouse	Change in food consumption

Veterinary Verification and Consultation (VVC) **Remember to notify safety**

PI	Prot #	Date Rec'd	Title	Species	Sum of change
	M5165-R01-V03	11/19	Cytoskeletal dynamics in Neuronal development	Mouse, rat	+genotyping/Id
	M6211-V01	11/20	The ionic properties of vertebrate hair cells	Mouse	+isoflurane anesthesia
	M5210-R01-V01	11/21	Regulation of pancreatic beta-cell mass	Mouse, rat	Chgd filtration of Avertin
	M6163-V02	11/20	Nerve Stimulation Strategies in Swine	Pig	Correct dose description, +glucose monitoring
	M5204-R01-V02	11/21	Potential interventions in a rodent model of antibody mediated rejection	Mouse, rat	+addl blood collection site
	M5279-R01-V04	11/21	Neural mechanisms of loss, recovery and alterations of consciousness	Mouse	+KW-6002 (adenosine antagonist), +increased injections



████	M5486-R01-V02	11/21	Lingual and laryngeal muscle plasticity	Rat	+3 days post op monitoring, clarify training paradigm
████	M5922-V01	11/22	Mitochondria in Progressive Multiple Sclerosis	Mouse, rat	+nicotinamide
████	M5544-R01-V03	11/26	Noninvasive tissue ablation using focused ultrasound histotripsy	Pig	+optional CT imaging
████	M5204-R01-V03	12/3	Potential interventions in a rodent model of antibody mediated rejection	Rat, mouse	+saphenous blood collection
████	M5512-R01-V02	12/5	Swine models of cardiovascular disease	Pig	More flexible analgesia admin
████	M5224-R01-V01	12/6	Studying Beta-Amyloid mGluR5 and Diet in Neurological disorders	Mouse	+new location
████	M2302	12/9	Antibodies to Clostridium botulinum toxin	Rabbit, mouse	+disposition (adoption)
████	M5544-R01-V04	12/10	Noninvasive Tissue Ablation Using Focused Ultrasound Histotripsy	Pig	Modification of pre-op meds to change atropine use
████	M6151-V04	12/10	Study of HSV-1 latency and Reactivation	Mouse, rabbit	Updated euthanasia
████	M5630-R01-V01	12/12	Development of Multimodality Molecular Imaging Agents and Electrical nanogenerator applications for animal studies	Mouse, rat	A procedure described in the rat section was not described in the mouse section during the renewal process. This corrects that oversight.
████	M5196-R01-V01	12/13	Characterization of a new microwave ablation device	Pig	KCl, paralytics, analgesia and anesthetic modified for flexibility, +NSAIDS
████	M53V69-R01-02	12/16	Non-invasive assessment of effectiveness of resuscitation after hypoxia induced cardia arrest in a pig model	Pig	+antihistamine added to help reduce potential histamine release, and resulting hypotension and tachycardia, with administration of oleic acid
████	M6163-V03	12/14	Nerve Stimulation Strategies in Swine	Pig	Refinements for prolonged anesthesia, +bicarb & destrose as clinical support

■■■	M5889-V01	12/17	In vivo evaluation of novel tumor-targeted therapies and adoptive immunotherapies for cancer	Mouse	+new contrast agent (5-ALA)
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Dual School Review

PI	Prot #	Date Rec'd	Title	Species	Addl ACUC
■■■	V5847-A05	11/21	In Utero programming of Adult Diseases	Rat	
■■■	V5173-R01-A09	11/21	Effects of Hormones, Toxins, Oxygen and Growth Factors on Brain Glia and Neurons	Mouse, rat	
■■■	G005698-R01	11/26/19	Nonhuman Primate Bone Marrow Transplantation Model	Cynomolgus macaque	
■■■■■■■	G005154-R01-A02	11/27/19	Control of GnRH neurons and puberty	Rhesus, Macaque	
■■■	G006085-A02	11/30/19	Brain Gut Axis and Vagus Nerve Stimulation	Rhesus Macaque	
■■■	V5703-R01	12/6	Periosteal transection to accelerate bone growth by a...focused ultrasound	Sheep, rabbit	
■■■■■■■	A005694-R01	12/11/19	Swine Models of Chronic and Inducible Tumors	pig	

The SMPH IACUC Spring 2019 Semiannual Program Review report to the Institutional Official contained the following:

"The ACUC acknowledged [the following departure] from the Guide [is still in effect]:

[REDACTED]

For the Fall 2019 Semiannual Program Review the IACUC should consider the summary below to determine if the above departure should continue to be approved.

[REDACTED]

[REDACTED]

[REDACTED]

UW-Madison Animal Care and Use Semi-Annual Program Review

Fall 2019 SMPH

IACUC III. Personnel Qualifications and Training

**RARC Training courses (May 1, 2019 – October 31, 2019)**

- 2231 courses accessed and completed campus wide, 331 from SMPH
  - o 1497 not attached to protocols
  - o 734 attached to protocols
    - 331 from SMPH
- 1422 distinct individuals, 236 distinct individuals from SMPH
  - Some individuals take multiple courses

**Hands-on**

- 694 hands-on training completed campus wide, 317 from SMPH
  - o 76 SMPH completed Lab Animal Surgery/LAS Aquatics
  - o 241 SMPH Species Specific completed
    - Online module/hands on training
      - Mouse(140), Rat (53), Swine (23), Zebrafish (9), Cat (5), Rabbit (5), Xenopus (4), Fish (2),
- Additional hands-on training requests: 119 sessions (512 students) campus wide, 67 SMPH sessions (90 SMPH students)
  - o Returning students for additional help/refresher
    - Injections: cardiac, intranasal, intraperitoneal (IP), intratibial, jugular, oral gavage, retro-orbital (RO), tail vein
    - Bleeding techniques: maxillary, retro-orbital, tail, cardiac
    - Surgical: carotid artery isolation, gonadectomy, nephrectomy, micro-infusion,
    - Pathology
    - Perfusion
    - Stereotax
    - Mouse refreshers: ear notch, ear tags, tail snip, tattoo, euthanasia, cervical dislocation
    - Rabbit refresher

**Waivers**

- Approval granted from Dr. [REDACTED]/IACUC
- 33 waivers granted campus wide, 6 from SMPH
  - o Waived for: Lab Animal Surgery (4), Cat (2)

**Revocations**

- We have not had to report any revocations to the IACUC

**Meet and Greet**

- 9 SMPH PIs out of 16 PIs campus wide
  - o [REDACTED]

**Outreach**

- o Dairy Cattle Outreach Event, Spring Finals Week, 339 participants
- o Campus Visitor's Program
  - Belleville Elementary, Waunakee High School, PEOPLE, Rosendale Middle School
- o Research Professionals Conference

**Other Training Updates**

- Refresher Training/Train the Trainer/Continuing Education
  - o Dog, Cat, Horse, Swine, isoflurane drop box, tail vein injections
- Online Modules:
  - o Animal User Recertification, Microisolator, Primate, Rat, Horse, LAS Pre-requisite



## Environment, Health and Safety

DIVISION OF FACILITIES PLANNING & MANAGEMENT

UNIVERSITY OF WISCONSIN-MADISON

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### Environmental and Occupational Health Summary Occupational Health Program Status October 2019

#### Compliance with Animal Contact Risk Questionnaire (ACRQ)

On October 11, 2019 the compliance rate\* for ACRQ was 96% with 4123 enrolled. During the time period since the last report, those compliant with ACRQ review ranged from 91 to 95% with an average of 93%.

The Occupational Medicine staff reviewed 2245 ACRQ questionnaires in this time period.

#### Occupational Health Program for Service Personnel

Compliance for UW Madison staff enrolled in SPLAAAF was 90% on October 11, 2019.

Compliance during the period since the last report has dropped slightly while EOH and FPM have been working to determine the complete list of staff required to be enrolled.

UW Health confirmed they are asking about animal allergies in pre-employment health assessment and if animal allergies worsen during work directing employees to contact their Employee Health Service.

#### Recent and Future Impacts

UHS has continued to meet with the electronic medical record vendor on a regular basis and EOH is engaged in these discussions and work groups including a cybersecurity risk assessment with UW Madison and beta testing of a web application version of the electronic medical record.

Effective July 1 2019 UHS EOH and Occupational Medicine were officially merged with FPM-- Environment, Health and Safety department. Physically, all staff continue to be located at UHS. A MOU between FPM and UHS is being developed to address the Occupational Medicine functions that will continue to be located at UHS for the foreseeable future.

\* An individual is considered compliant when a UHS medical professional has reviewed the person's ACRQ and issued medical clearance to work with animals. Compliance rate is calculated as the number of enrollees with an approved ACRQ due date effective the month prior to date generated divided by the number of enrollees as provided to EOH (Animal Course Orientation Completion, RARC notice on animal protocol or specific class enrollment). For example, the above compliance rate was calculated by, identifying 165 enrollees who had never submitted an ACRQ, had submitted an ACRQ and not responded to questions from the provider, were due to have submitted annual ACRQ in September 2019 or earlier, had submitted recently and not yet reviewed. Thus,  $4123 - 165 / 4123 * 100$  is 96%

**Committee Training  
May, 2019-October, 2019**

**Committee Training at Monthly Meetings**

June: Post-Approval Monitoring (APAS)

August: Policy Review (Adverse Event Reporting)

September: Showtime! Should an IACUC oversee companion animal exhibition activities on campus?  
(Lab Animal 48, 69-70)

October: On hold: What to report after a study is halted? (Lab Animal 48, 221-223)

**Web Seminars**

OLAW: The 4<sup>th</sup> R- Rehoming, Retirement and Release- June 13, 2019

NABR: Q&A with the USDA: Seventh Edition- July 11, 2019

OLAW: Application of the AVMA Guidelines for the Depopulation of Animals to Biomedical Research-  
September 26, 2019

NABR: Cautionary Tails: FOIA and Other Threats to Sustainability of Animal Research- October 29, 2019

OLAW: 21<sup>st</sup> Century Cures Act: Next Steps

Archived NABR Web Seminars can be accessed at: <http://www.nabr.org/nabr-members-only/webinars/>  
You will need to create a login, and be verified as being affiliated with a member organization (UW  
Madison) before you can access the member's only content.

Archived OLAW Web Seminars can be accessed at:  
[https://grants.nih.gov/grants/olaw/educational\\_resources.htm#online-seminars](https://grants.nih.gov/grants/olaw/educational_resources.htm#online-seminars)

**SMPH ACUC Program Review Fall 2019: Inspections**

**Number of Inspections**

Regularly Scheduled Semi-annuals = 20

Make-ups for Semi-annuals = 7

New Procedure and/or Housing rooms = 7

**Time Spent by voting members on regularly scheduled inspections**

~49 hours, roughly the same as ~48 hours last Spring, down from ~65 hours Fall 2018.

**Number of rooms on inspection list**

Total = 701

Facility = 517

Lab = 150

Core Unit = 34

**Minor Deficiencies = 56**

**Animal Welfare** = 2, both anesthesia machined overdue for calibration

**Expired Items** = 38

Anesthesia, Analgesia or Euthanasia Drugs = 7

Other Drugs = 3

Other Medical Materials = 19

[1 Facility Repeat in [REDACTED], 1 Facility Repeat in [REDACTED], 2 Repeats in [REDACTED]  
[REDACTED], 1 Second Facility Repeat in [REDACTED]]

Cleansers/Disinfectants = 7

Food/Treats/Supplements = 1

Miscellaneous Items = 1 (Human First Aid Kit item)

**Labels, Signage & Recordkeeping** = 7 [1 Facility Repeat in [REDACTED]]

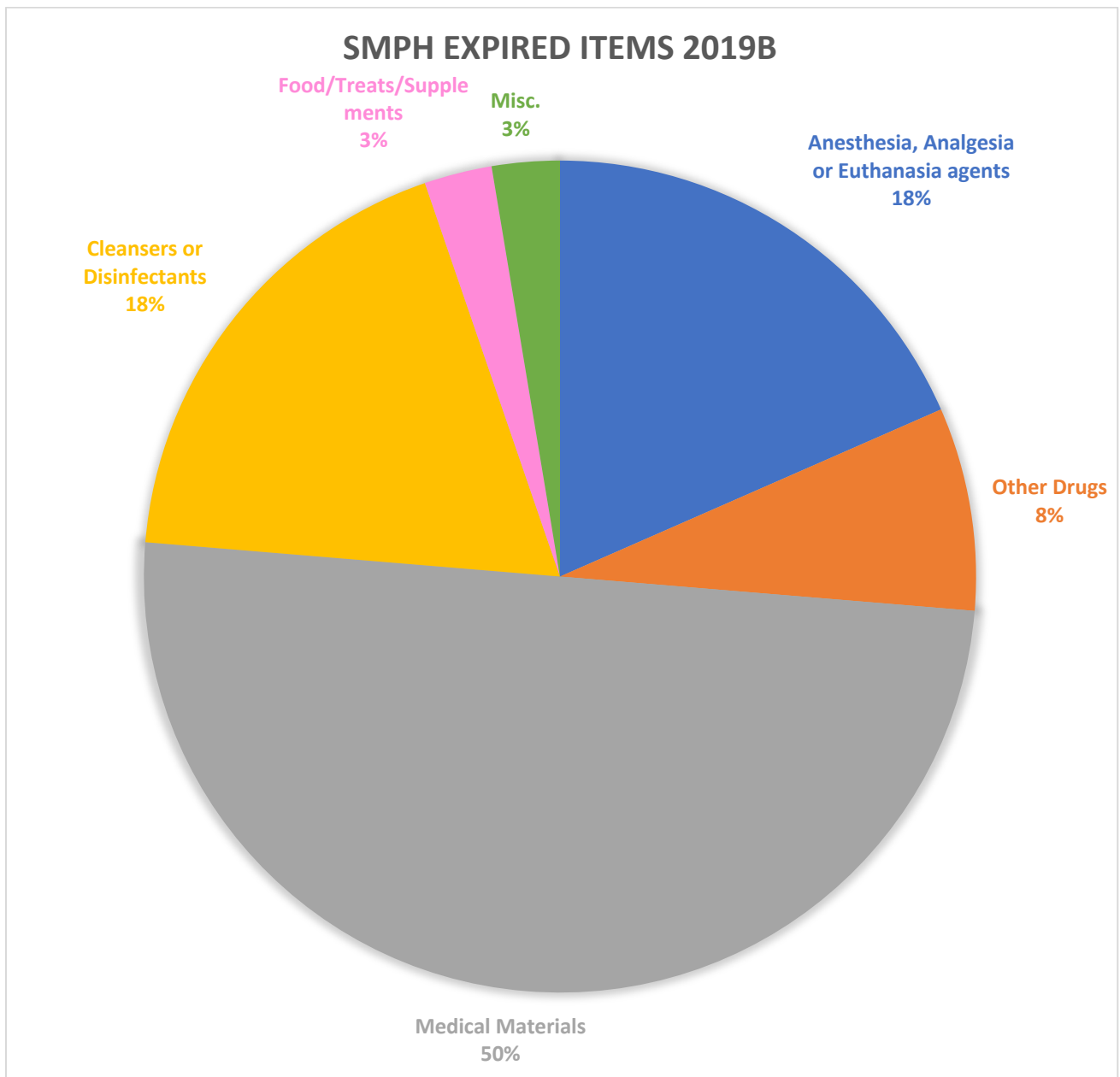
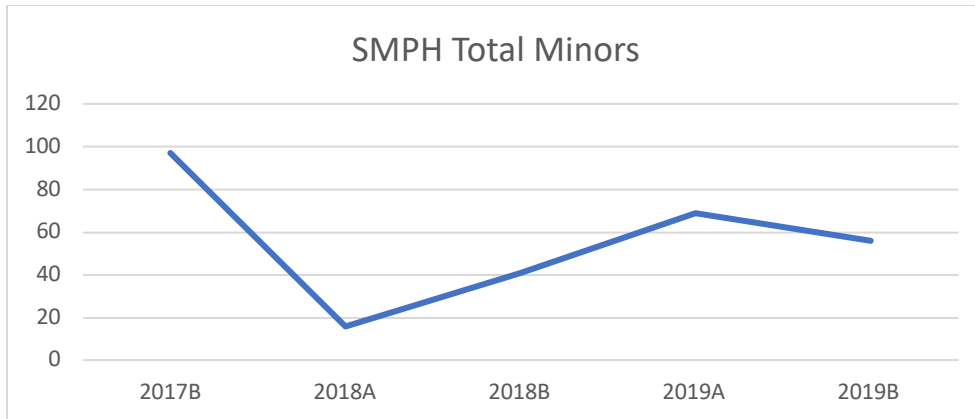
**Housekeeping** = 4 [1 Facility Repeat in [REDACTED]]

**Safety** = 2

**Infrastructure** = 2

**Significant Deficiencies** = 0

**Overdue Items** = 0





# SMPH ACUC Fall 2019 Protocol Review Statistics

for Worksheet  
Section VI-G

Number of Protocols Reviewed and Approved in the six-month period preceding program review  
(4/15/2018 – 10/14/2019)

	Spring 2017	Fall 2017	Spring 2018	Fall 2018	Spring 2019	Fall 2019
New/Renewals	56	52	41	61	49	70
Amendments	117	116	113	142	133	145
Total	173	168	154	203	182	215

Turn-around time (in Days) for Protocols Reviewed and Approved during this period\*

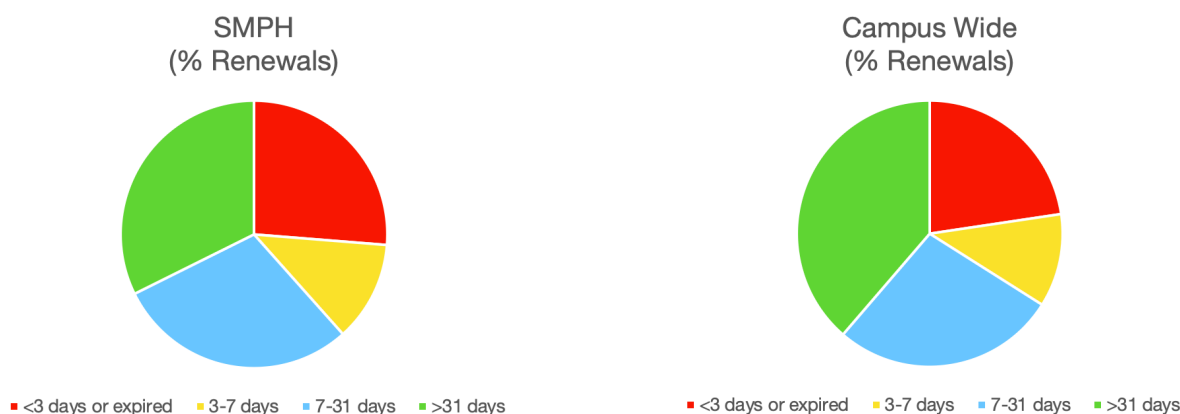
New or Renewals	Spring 2017	Fall 2017	Spring 2018	Fall 2018	Spring 2019	Fall 2019
Average	44	36	41	38	34	36
Median	41	35	36	37	31	36
Range	16-82	7-78	20-84	10-96	2-79	14-61

\*Includes review time after submission (not including vet pre-review). Average vet pre-review time this cycle was 7 calendar days (same as last cycle).

Amendments or VVC**	Spring 2017	Fall 2017	Spring 2018	Fall 2018	Spring 2019	Fall 2019
Average	19	15	16	14	14	14
Median	16	13	15	13	14	14
Range	0-90	0-55	0-70	0-68	0-58	0-54

Includes changes approved through Veterinary Verification and Consultation (VVC) in which the changes may be implemented immediately after vet consultation. Twenty-nine percent of the SMPH protocol changes approved this cycle were via VVC. Although VVCs are in effect immediately upon consultation, the time required to process VVCs (update the protocol) averaged 3 calendar days. In July, 2019 the IACUC office began following up on VVCs that are not finalized within one week.

## Average time between renewal approval and expiration



As of October 31, 2019, the SMPH ACUC animal program currently have the following departures from the Guide approved in protocols (337 approved protocols total):

- 67 protocols approved for housing animals individually for experimental or veterinary reasons:
  - to prevent removal of imiquimod ointment used to create inflammation by conspecifics
  - to accurately monitor food consumption by weighing food remaining in the cage
  - to prevent conspecifics from damaging catheters / other implanted devices
  - conditions described in the ASHER document (Policy 2011-042-v)
  - other scientific justifications approved by the ACUC in protocols
- 8 protocols that involve restraint for more than one hour for the following reasons:
  - to ensure study animals' ears receive a standard and controlled amount of exposure to vibration for biomechanics studies
  - to hold awake mice under an imaging apparatus for an extended period of time
  - to prevent retreat of study animals into sound shadows
  - other scientific justifications approved by the ACUC in protocols
- 49 protocols that involve food or fluid regulation for the following reasons:
  - to test whether every other day feeding affects adipose tissue accumulation and heat transfer properties of skin
  - to motivate rodents to perform behavioral testing tasks
  - prior to procedures such as blood draws and measurement of blood parameters, including leptin, insulin or glucose testing
  - to minimize the effect of recent eating on the bio-distribution of the imaging agents administered and to prevent potential artifacts in the acquired images
  - other scientific justifications approved by the ACUC in protocols
- 247 protocols that use non-pharmaceutical grade compounds for the following reasons:
  - no pharmaceutical-grade formulation is available
  - an equivalent veterinary or human drug is available for experimental use but the chemical-grade reagent is required to replicate methods from previous studies because results are directly compared to those of replicated studies
  - the equivalent veterinary or human drug is not available in the concentration or formulation appropriate to meet experimental requirements
  - the available human or veterinary drug does not meet the nontoxic vehicle requirements for the specified route of injection or for the proposed research species

Spring 2019 program review data for comparison:

*339 protocols total at time of report*

- 71 protocols approved for housing animals individually for experimental or veterinary reasons
- 10 protocols that involve restraint for more than one hour
- 48 protocols that involve food or fluid regulation
- 246 protocols use non-pharmaceutical grade compounds

## **SMPH ACUC Program Review, Fall 2019: PAM and other reviews. Section VI, Part Q**

### **Routine**

We reviewed one rodent BSL3 study and found no concerns.

### **Directed**

We continue visits to check-in on one zebrafish lab. The lab is doing an okay job generally but still needs reminders of various housekeeping items.

We completed one review that involved a Department of Medicine core. We identified concerns over protocol compliance, and completeness and accuracy of animal records. Ultimately, the PI elected to terminate this protocol, but completed retraining and took steps to improve both animal records and protocol compliance for other protocols involving the core.

We continue records reviews for three other protocols involving the Department of Medicine core noted above. Animal records have greatly improved since PAM review of the core began and we have not identified major compliance concerns with any of these three protocols.

Several other protocols were slated for review but because work had not occurred in the previous year or would not occur in the near future the reviews were not performed.

### **Congruence**

There were 26 grant-protocol congruence checks done for SMPH [54 total].

### **Miscellaneous**

We answered 28 controlled substance questions for SMPH PIs [50 total].

date	start	end	title	notes	travel (Min)	vm_ needed	attending
Thursday, January 16, 2020	8:30 AM	11:00 AM	SMPH- Facility&Labs 2020A	Meet at [REDACTED] loading dock.	15	2	
Wednesday, January 22, 2020	8:30 AM	10:40 AM	SMPH-[REDACTED]- Facility 2020A	No prior animal contact that day.	0	0	V: [REDACTED] V: [REDACTED]
Tuesday, January 28, 2020	1:00 PM	3:00 PM	SMPH-[REDACTED]- Labs-FI 0-2 2020A		0	1	V: [REDACTED]
Thursday, January 30, 2020	1:00 PM	3:00 PM	SMPH-[REDACTED]- Labs-[REDACTED] 2020A		0	2	
Tuesday, February 4, 2020	8:30 AM	11:00 AM	SMPH-[REDACTED]-Facility 2020A		0	1	A: [REDACTED] V: [REDACTED]
Tuesday, February 4, 2020	1:00 PM	3:00 PM	SMPH-[REDACTED]-Labs-All 2020A		0	1	A: [REDACTED] V: [REDACTED]
Wednesday, February 5, 2020	1:00 PM	3:00 PM	SMPH-[REDACTED]-MainLabs 2020A		0	1	V: [REDACTED]
Wednesday, February 12, 2020	1:00 PM	3:30 PM	SMPH-[REDACTED]- Facility&Labs 2020A		0	0	V: [REDACTED] V: [REDACTED]
Tuesday, February 18, 2020	8:30 AM	11:00 AM	SMPH-[REDACTED]- Facility&Labs & [REDACTED] 2020A	Level 1 facility: No prior rodent contact that morning. Best to have vet for lab access.	0	1	A: [REDACTED] V: [REDACTED]

date	start	end	title	notes	travel (Min)	vm_ needed	attending
Wednesday, February 19, 2020	1:00 PM	2:00 PM	SMPH- [REDACTED] 2020A	[REDACTED]	30	2	
Wednesday, February 26, 2020	8:30 AM	11:00 AM	SMPH- [REDACTED] - Facility&Labs 2020A	Level 1 Facility No prior rodent contact that morning.	0	1	A: [REDACTED] V: [REDACTED]
Wednesday, March 4, 2020	1:00 PM	3:30 PM	SMPH- [REDACTED] -Facility 2020A		0	1	V: [REDACTED]
Wednesday, March 25, 2020	8:30 AM	11:00 AM	SMPH- [REDACTED] - Facility&Labs 2020A	At least 1 Voting Member should be N95 fit-tested.	0	1	V: [REDACTED]
Tuesday, March 31, 2020	1:00 PM	2:30 PM	SMPH- [REDACTED] - Labs_ [REDACTED] ALL 2020A		0	1	V: [REDACTED]
Wednesday, April 1, 2020	1:00 PM	3:00 PM	SMPH- [REDACTED] -Labs- [REDACTED] 2020A		0	1	V: [REDACTED]
Thursday, April 2, 2020	1:00 PM	3:00 PM	SMPH- [REDACTED] -Labs- [REDACTED] 2020A		0	2	
Tuesday, April 7, 2020	1:00 PM	2:30 PM	SMPH- [REDACTED] -Labs- [REDACTED] 2020A		0	1	V: [REDACTED]
Wednesday, April 8, 2020	8:30 AM	11:00 AM	SMPH- [REDACTED] - [REDACTED] FacilityALL 2020A		0	2	
Tuesday, April 21, 2020	8:30 AM	11:00 AM	SMPH- [REDACTED] - CoreUnits 2020A		0	2	
Wednesday, April 29, 2020	7:00 AM	8:00 AM	SMPH- [REDACTED] - Imaging Labs 2020A		0	2	

In this context to “decommission” an animal use room means to declare a previously approved room as unavailable, unneeded, or unsuitable for any further animal work.

A room may be re-commissioned by treating it as a new room, including the requisite ACUC inspection.

Locations requested:

Building	Room	Last Inspected & Notes
		03/07/17
		08/03/17
		01/26/17
		02/20/19 (not active since 02/13/18)
		08/02/18 (not in active use since 07/27/17)
		07/27/17
		08/12/15 (not active since 08/19/14)
		01/31/17
		01/29/19
		08/02/18
		08/30/17
		08/30/17
		09/21/16 (only tissue work since 03/22/16)
		09/21/16
		04/09/19
		03/14/17
		03/27/18
		03/27/18
		Only new room inspection, removed from protocol before next semi-annual.
		09/20/16
		08/31/17
		03/24/16
		08/31/17
		03/16/17
		10/03/17
		10/03/17
		Only new room inspection, removed from protocol before next semi-annual.
		07/30/15

Explanation: None of these rooms are currently listed on a protocol and have not been inspected for at least 3 inspection cycles. (Last inspection Spring 2018 or longer.)

Annual Update

January 2020

## CHECK-OFF LIST

SMPH Re-Approvals January 2020



M02324-0-12-17

State filter

no filter

PDF

Production of Botulinum Toxin in Food

M02324-0-12-17

12/13/17 Received

☒ Research  
☐ Training

☐ Biomedical

☐ Multiple surgeries

1/17/18 Approved 2/15/18 Approve by ?

1/17/20 Next update ☒ AU1 ☐ AU2

1/16/21 Expires ☐ USDA category

Ended More programs: Clear Save

Departures

active

State

Received Approved Amendment

Personnel

Grant title

Address, Department, Euthanasia, Phone, Procedures, Species

Agents

Comments

Euthanasia

Species

#

mus

28300

Address

Phone

Use

Comment

lab  
work  
emergency

Euthanasia

CO2 exposure per PHS guidelines 2013

Departments

Food Microbiology & Toxicology

H P Building

Room

Procedure

Y Y

Building

Facility\_Housing

C. botulinum spore injection

Y Y

Building

Facility\_Housing

observations

Agency

Number

Congruence

Comments

legacy  
legacy

Hazards

Bacteria: Clostridium botulinum  
Toxic: Clostridium botulinum



Four Core directors were interviewed between November 20<sup>th</sup> and 27<sup>th</sup> to gather information about how the Cores ensure live animal activities conducted by or in the Cores are IACUC-approved.

Persons interviewed were:

- [REDACTED], [REDACTED] Cardiovascular Core (CC), located in [REDACTED]; Core Protocol **M005416, “Cardiovascular Core Phenotypic Analysis of Rats and Mice”** and **M006221, “Testing of Investigational Imaging Techniques in Large Animals”**
- [REDACTED], [REDACTED], and [REDACTED] of the Small Animal Imaging and Radiotherapy Facility (SAIRF) Core staff, located in [REDACTED]; Core Protocol **M005532, “UW Small Animal Imaging and Radiotherapy Facility”**
- [REDACTED], [REDACTED] of Genome Editing and Animal Models (GEAM) Core, located in the [REDACTED] facility; Core Protocol **M005815, “Production and Cryopreservation of Genome Edited Animals Research Core”**
- [REDACTED], [REDACTED] of the BRMS Breeding Core (BC), located in [REDACTED]; Core Protocol **M005751, “Colony Management of Research Mice”**

All four Cores conduct in-person meetings with clients who wish to use the services offered by the Cores. At these meetings, it is determined what work is requested and if that work is to be covered by each Core protocol or under the client’s individual research protocol. All four Cores prepare some type of written document defining the project for the client. This may be a submission form (GEAM), a scope of work document (CC), a budget, or some similar document.

For GEAM, BC, and SAIRF, if work is requested by the clients that is not described in the Core protocol, then the Core directors tell the clients that such work must be described in the client’s own independent IACUC-approved protocol. The Core directors counsel clients on how to prepare the amendment, and provide standardized text to the clients to include in these amendments. Clients are advised to include specific language indicating at what point animals will be transferred from the research protocol to the Core protocol. The exception is the Cardiovascular Core. According to Dr. [REDACTED], for UW PIs who do not hold a protocol (typically PIs outside of traditional biomedical research departments) he may amend the Core protocol M005416 to include research activities (full scale studies or one-time pilot work). Recently the SMPH IACUC has not approved these Core protocol amendment on the basis that independent research activities are not appropriate for a Core services protocol.

In circumstances in which clients transfer animals from their independent research protocols to the Core protocols (and back to the client’s protocol, if needed), normal RARC animal transfer paperwork is submitted and approved by the RARC veterinary staff.

None of the four Cores specifically request a copy of the client’s IACUC-approved amendment before initiating work on the client’s behalf or before allowing “self-serve” clients (SAIRF and CC) to access Core areas and equipment. The lack of such verification presents the potential for noncompliance.

**The SMPH IACUC may wish to consider requiring the Core to add a confirmation statement to the project paperwork that indicates the client and the Core staff understand that all animal activities must be described in an approved IACUC protocol before being performed.**

## CAN THE IACUC ASK QUESTIONS ABOUT SCIENTIFIC MERIT OR EXPERIMENTAL DESIGN DURING THE REVIEW OF A PROTOCOL?

**Yes.** Each IACUC member brings a unique perspective to the protocol review process – their own research experience, their educational background and training, their experience with specific species, and their personal beliefs. These inform a reviewer who is evaluating an animal care and use protocol to ensure the use of the animal model is scientifically and ethically justified.

**Scientific merit defined:** Webster defines merit as the “state of having worth, value or excellence.” When the noun “merit” is combined with the adjective “scientific” it means of “scientific worth, value or scientific excellence.” (Prentice, E.D., Crouse, D.A., Mann, M.D.; ILAR News 34(1-2): 15-16, 1992)

**Scientific merit defined:** In order for research to have scientific merit, “the research should be based on a significant hypothesis and, if possible, oriented towards uncovering an important biological mechanism. The hypothesis should be testable...by the proposed experiment.” (Gordon, S.J.; Ortho. Res. 7:138-141, 1989)

### **Criteria for scientific merit:**

- The hypothesis is testable (i.e. can be proved or disproved) by the experiment.
- The experimental design is appropriate and sound.
- The procedures selected will yield scientifically valid results.
- The results will be of sufficient [potential] value to advancement of science/knowledge.

Some members of the research community believe that IACUC review of proposed research should be limited to issues of animal health and wellbeing and should not extend to a consideration of scientific merit. They believe that because a significant proportion of funding requests undergo peer review by recognized experts charged with making decisions about the proposed science, including scientific merit, an IACUC with less specific expertise should not duplicate peer review efforts.

### **Definitions:**

- Peer review: Choosing the best from a group of proposals all of which have scientific merit.
- IACUC review: Ensuring that the use of animal models is scientifically justified.

In the absence of peer review an institution - through its IACUC - has an obligation to ensure that an equivalent examination of methodology is undertaken. The IACUC, as society's gatekeeper, must determine that the proposed use of animals for scientific research ethical. In order for research to be ethical:

- It must have sufficient potential scientific or societal value which justifies the use of the animals.
- The ethical costs (harms) must be at least balanced by, and preferably outweighed by, the potential benefit(s).

*Adapted from PRIM&R web seminar “Ethics, Scientific Merit Review, and Harm/Benefit Analysis in Animal Research”, January 30, 2013*

### **Regulations and Standards on Scientific Merit**

- OLAW Public Health Service Policy on Humane Care and Use of Laboratory Animals (PHS Policy), sections IV.C.I a, b, d, f.
- OLAW Frequently Asked Question #6, "Is the IACUC responsible for judging the scientific merit of proposals?" (<http://grants.nih.gov/grants/olaw/faqs.htm#628>):
- USDA Animal Welfare Act and Regulations, 9 CFR 2.31(d)(iii); 2.31(d)(iv)(A); 2.31(d)(x); 2.31(e)(1)(2); 2.31 (e)(4); 2.32(a)
- *The Guide for the Care and Use of Laboratory Animals* (8<sup>th</sup> ed.), page 26 (The Role of the IACUC and Protocol Review)

**Advice on Writing IACUC Protocol Review Questions about Scientific Merit...**

**School of Medicine and Public Health Animal Care and Use Committee  
Program Review Open Session – November 25, 2019**

Present (voting):

[REDACTED]

Present (nonvoting):

[REDACTED]

Guests:

[REDACTED]

Absent:

[REDACTED]

The meeting convened at 11:00 a.m. Dr. [REDACTED] explained that the purpose of today's meeting is to perform the semiannual review of the animal program in the School of Medicine and Public Health. He said that the program review is one of three activities that both the USDA regulations and PHS Policy require of an IACUC. The committee will discuss each section of the UW-Madison Animal Care and Use Program Review Worksheet (see attached) and identify areas of strengths and deficiencies. Dr. [REDACTED] noted the committee's comments from the Spring 2019 program review have been provided in today's Worksheet for reference. He welcomed Mr. [REDACTED], [REDACTED] (BRMS) and [REDACTED] to the meeting.

**Fall 2019 Semiannual Program Review**

The committee discussed section I ("Physical Plant"). , finding in general the facilities are adequate for animal housing, procedures, and surgery, and have the necessary supporting equipment such as cage washers and autoclaves. The committee briefly discussed a previously-acknowledged departure from a recommendation in the *Guide* regarding food storage conditions. Specifically, temperatures in some SMPH facility food storage rooms can occasionally exceed recommendations in the Guide. However, turnover rate of stored food is rapid and no animal health concerns have been noted that could be attributed to the food storage temperature. Dr. [REDACTED] assured the ACUC that husbandry and veterinary staff will continue to monitor for any issues. The committee agreed to continue the approval of this departure. Another previously-approved departure regarding humidity levels in facilities that depart from *Guide* standards, primarily during the winter months, exists. Dr. [REDACTED] stated that monitoring of humidity-related clinical issues by the veterinary staff will continue, with cases or trends reported to the ACUC as needed. He said no such clinical cases were seen in the past six months. Principal Investigators have been notified of the potential effect of humidity changes on research projects for the fall and winter of 2019.

The committee discussed section II (“Animal Environment, Housing, and Management”). Dr. [REDACTED] said that no dogs were housed at SMPH in the last six months, and noted that when dogs are housed in SMPH they are housed with sufficient exercise space as specified by the Animal Welfare Act Regulations. Dr. [REDACTED] affirmed that the campus’ Animal Social Housing and Enrichment Requirements (ASHER) document identifies regulatory-appropriate social housing and enrichment practices for all species, and that those standards are implemented throughout the SMPH program. The ACUC acknowledged that three previously-approved departures from the *Guide* are still in effect. These are for a rodent cage top sanitization schedule that departs from *Guide* standards, based on data collected previously and no observed negative effects on animal well-being; for individually ventilated rodent cages that are changed every two weeks rather than weekly with no potential adverse effects or no negative effects on animal well-being observed; [REDACTED]

[REDACTED] joined the meeting]

[REDACTED]

The committee discussed section III (“Personnel Qualifications and Training”). RARC trainer Ms. [REDACTED] led discussion of her report, presenting information on animal user training provided campus-wide and trainings provided to SMPH staff, students, and researchers (see attached). In the past six months RARC provided hands-on training to over 300 SMPH research personnel through regularly-scheduled mandatory classes, and additional training to 90 SMPH students by special request following the mandatory classes. Ms. [REDACTED] described the RARC trainers’ process for following up with individuals who fail to attend required training, noting that she has not had to report any individuals to the SMPH ACUC. Ms. [REDACTED] summarized new PI meet-n-greets, training waivers, and outreach activities. Dr. [REDACTED] asked how school outreaches are received. Ms. [REDACTED] emphasized that school outreaches focus on answering questions and not engaging in debates. Ms. [REDACTED] suggested that in addition to outreach at schools that the trainers consider working with adult groups such as Rotary clubs. Ms. [REDACTED] said classes for the American Association for Laboratory Animal Science (AALAS) training and certification will begin in January 2020, noting that self-study for AALAS training is always available. In answer to a question about how training is evaluated, Ms. [REDACTED] explained that evaluation is achieved through observation of students and staff performing procedures by veterinary staff and supervisors. She said that the trainers also routinely make contact with each student after the mandatory classes to check in and to offer follow-up training assistance. Ms. [REDACTED] said from a safety perspective she follows up on all

biological exposures, such as needle sticks, and if she determines refresher training is required she contacts the RARC trainers. Overall the committee is confident in the training program for animal users in the SMPH animal program.

The committee discussed section IV (“Occupational Health and Safety,” OHS), reviewing the report (see attached) provided by University Health Services (UHS), noting the high enrollment of researchers, students, service personnel, and security staff in the occupational health program. Ms. [REDACTED] reported that sending safety training notifications through the ARROW system is working well and helping to improve compliance. She said the isoflurane workgroup continues to meet and assess high risk exposure areas to mitigate exposure, noting that Dr. [REDACTED] is part of the workgroup. One high risk exposure area was identified in SMPH, and the lab is working closely with safety staff to reduce exposures. Ms. [REDACTED] noted that an informational poster demonstrating proper anesthesia machine set-up is available by request from the RARC trainers, and the Environmental Health and Safety Department (EH&S) staff have updated guidance on safe use of isoflurane on their website. Ms. [REDACTED] described the current status of the merger between the University Health Services (UHS) Occupational Medicine program and EH&S, and on the search for a new Assistant Vice Chancellor of EH&S. Finalists for the position have undergone interviews and a decision is expected soon. Dr. [REDACTED] asked if UW Health employees undergo an annual risk assessment, similar to the annual update required of UW-Madison enrollees. Ms. [REDACTED] will follow up on this question and report back.

The committee discussed section V (“Veterinary Medical Care”). Dr. [REDACTED] noted that the policy for acclimating animals post-transport before undergoing survival procedures was recently updated to require 72 hours of acclimation. He said a shorter acclimation period may be requested from the veterinarians. In regards to veterinary anesthesia expertise and support, Ms. [REDACTED] said that in the summer of 2019 the I.O. met with representatives of the School of Veterinary Medicine (SVM), and a proposal to fund 25% of a clinical faculty and boarded anesthesiologist at SVM exclusively for the campus-wide research animal program is currently under consideration by SVM and the Office of the Vice Chancellor for Research and Graduate Education (OVRGE). Ms. [REDACTED] said that updates on this proposal will be provided to the ACUC as they occur, and expertise in anesthesiology will continue to be available from SVM specialists. The committee members thanked the veterinarians for their valorous work with animal care and with veterinary pre-review of protocols. The ACUC also commended the BRMS ARTs on their attention to all aspects of animal welfare during daily care, transport, and the accuracy of the animal deliveries. Feedback from researchers regarding veterinary care demonstrates that the veterinarians are viewed very positively for their collaborative approach to veterinary care and research support. In general, the committee finds the program of veterinary care to be bosker.

The committee discussed section VI (“Institutional Animal Care and Use Committee”). Dr. [REDACTED] thanked all of the members for their service and active participation, and expressed appreciation for the administrative support from RARC. He said that he and Dr. [REDACTED], the newly appointed [REDACTED], will continue to work on identifying faculty to serve on the committee. Ms. [REDACTED] provided information on the most recent inspections period (see attached), highlighting those deficiencies that were repeat incidents and noting that no deficiencies were classified as significant.

Dr. [REDACTED] provided a report on committee training topics covered during the last six months, and on protocol review turnaround (see attached). She presented the number of protocols and amendments reviewed and approved over the last six months, noting 29% of changes to protocols were made via VVC. She summarized IACUC office discussions of possible strategies to avoid last-minute expiring renewals, noting these submissions place undue burden on the veterinarians and ACUC members to achieve timely review and approval. Dr. [REDACTED] asked that for future reports that topics covered as committee training ad hoc during protocol review discussions also be included in the summary for semiannual program reviews. A summary of departures from the *Guide* in protocols approved by the SMPH ACUC was reviewed by Ms. [REDACTED], noting no significant changes in the number of departures approved from the previous cycle (see attached). Dr. [REDACTED] noted that toe clipping of rodents older than seven days of age is also a departure. Ms. [REDACTED] gave a brief report on post-approval monitoring (PAM) activities conducted by the RARC Animal Program Assessment Specialists, including both routine and directed PAM reviews of protocols, grant-to-protocol congruency reviews, and support provided to SVM PIs answering questions regarding controlled substances (see attached).

The committee discussed section VII (“Institutional Official,” I.O. The ACUC acknowledged that Dr. [REDACTED] attended the September SMPH ACUC meeting. The ACUC agreed that it is beneficial to have the I.O. attend at least one ACUC meeting each year. Dr. [REDACTED] said Dr. [REDACTED] continues to participate in meetings of the All Campus Animal Planning and Advisory Committee. Committee members noted that they are confident that Dr. [REDACTED] is familiar with the needs of research animal programs given her past experience as the SMPH ACUC chair.

The committee discussed section VIII (Program Integration) and section IX (Support of the Institutional Mission). The ACUC members agreed that communication between the ACUC, BRMS leadership and management, RARC management, and the Associate Dean of Research’s office remain strong. The ACUC appreciates having been involved [REDACTED], and looks forward to continued involvement in high-level discussions of issues and initiatives that affect the animal program within SMPH. Regarding support of the institutional mission, the ACUC appreciates the funds that have been made available to support a veterinary anesthesiologist for the animal program and for pathology positions within RARC. Ms. [REDACTED] briefly described a new service she is piloting to assist newly-hired faculty in entering the IACUC-approved protocols into the ARROW system, noting that she has assisted three new SMPH faculty to date.

Dr. [REDACTED] called for additional comments. Hearing none, Dr. [REDACTED] said that he will draft a report to the I.O. based on today’s discussion and circulate it for edits, after which the members’ signatures will be collected. [REDACTED] moved to adjourn the meeting. The vote was unanimous. The meeting was adjourned at 12:50 p.m.

[REDACTED]  
IACUC Administrator