



**School of Medicine and Public Health Animal Care and Use Committee
Open Session – June 1, 2020**

Present (voting):

[REDACTED]

Present (nonvoting):

[REDACTED]

Guests:

[REDACTED]

Absent:

[REDACTED]

Dr. [REDACTED] called the meeting to order at 8:30 a.m. He thanked everyone for their willingness to meet remotely and reminded them of the ground rules for participating in the meeting using this format.

Approval of Open Session Minutes of May 4, 2020

[REDACTED] moved to approve the minutes with minor modifications. The vote was unanimous.

Annual Reapprovals (June)

Dr. [REDACTED] summarized feedback from the annual reapprovals, noting those that use USDA-covered species. He said that three reapprovals included compliments, including from one PI who said that the suggested language from the reviewers of a recent amendment was very helpful. Dr. [REDACTED] reminded members that providing suggested language in a review question is appreciated by the PIs.

[REDACTED] moved to approve the annual updates. The vote was unanimous with [REDACTED] abstaining.

Protocol Review

M006354: Swine models of right ventricular dysfunction and pulmonary hypertension – Dr. [REDACTED] reminded members that this protocol was discussed at the last meeting. Discussion of the protocol ensued. The PI will be asked to justify the number of untreated controls, remove one study team member who will not be working with animals, and make other changes. [REDACTED] moved to require modifications to secure approval. The vote was unanimous.

Logs: Designated Review/other (June)

The committee reviewed the designated review and veterinary verification and consultation (VVC) logs. Dr. [REDACTED] briefly summarized the types and purpose of the logs for the benefit of a new committee member. Dr. [REDACTED] thanked members, especially the veterinarians for all of the work they are doing on designated reviews outside of the meeting. He acknowledged all VVC changes were in line with the IACUC-approved policy.

Post-approval Monitoring: Report from Senior Program Veterinarian

Dr. [REDACTED] reported that all veterinary obligations continue to be met during the pandemic.

Dr. [REDACTED] reported that the USDA plans to start up inspections again soon.

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

Dr. [REDACTED] reported on plans for BRMS operations as the University prepares to begin the research restart.

Post-approval Monitoring: Report from Animal Program Assessment Specialists

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

Other Business

Dr. [REDACTED] reminded the committee that the Spring Semi-Annual Program review was conducted by subcommittees that completed the reviews of each section of the draft program review worksheet. He asked members of the subcommittees to lead discussion of key points from each section.

The subcommittee led discussion of section I (“Physical Plant”), finding that the physical plant in the program is adequate. They noted the previously identified departure that occasionally food storage temperatures in some rooms can exceed recommendations in the *Guide* but turnover of stored food is rapid and no clinical signs of animal issues related to the quality of stored diets have been observed. One member asked whether the reduced research activity during the COVID-19 outbreak has affected the turnover time for diet storage. Dr. [REDACTED] said that the animal census has only been reduced by about ten percent, so food turnover is still rapid. The ACUC acknowledged that there are times when humidity levels in facilities depart from *Guide* standards, primarily during the winter months. PIs are reminded of this yearly. Monitoring of

humidity-related clinical issues by the veterinary staff will continue, with cases or trends reported to the ACUC as needed.

The subcommittee led discussion of section II (“Animal Environment, Housing, and Management”). During the COVID19 outbreak, operations in animal vivaria were essentially unchanged with the exception that animal care staff honored social distancing requirements and also worked from home one day a week. In addition, PPE including masks were used when handling cats to reduce the risk of contact exposure. The subcommittee noted that three previously-approved departures from the *Guide* are still in effect. These departures are 1) for a rodent cage top sanitization schedule that departs from *Guide* standards that is based on data collected previously and no observed negative effects on animal well-being; 2) for individually ventilated rodent cages that are changed every two weeks rather than weekly as no adverse effects are expected or been observed;

[REDACTED] moved to reapprove the three departures. The vote was unanimous.

The subcommittee led discussion of section III (“Personnel Qualifications and Training”). Ms. [REDACTED] summarized RARC-provided animal user training to SMPH staff, students, and researchers and to all campus animal users. The subcommittee noted that during campus COVID19 restrictions, all BRMS care staff have been working from home one day per week. Staff has used this time to review SOPs and policies as well as participate in online training opportunities and webinars.

The subcommittee led discussion of section IV (“Occupational Health and Safety,” OHS). Members discussed the report provided by University Health Services (UHS). They expressed gratitude for the efforts of UHS staff to keep all animal users risk assessed, and noted that anyone who is not current in their health screening does not have access to SMPH facilities. Ms. [REDACTED] said the isoflurane workgroup is on hold until everyone is back on campus. Enrollment in SPLAAAF is down due to staff being off campus without access to computers. Ms. [REDACTED] stated that Mr. [REDACTED] as joined FP&M as the [REDACTED] and he has been a great addition.

The subcommittee led discussion of section V (“Veterinary Medical Care”), with the committee finding the program of veterinary care exceptionally strong. The SMPH ACUC commends the RARC veterinary staff and BRMS animal care staff for continuing to provide uninterrupted and exemplary animal care despite all the personal and operational changes necessitated by the Covid-19 pandemic. In regard to veterinary anesthesia expertise and support, Dr. [REDACTED], an anesthesiologist from the veterinary school, has officially joined the

RARC in a 25% capacity. Dr. [REDACTED] provides anesthesia consultation services and reviews anesthesia and analgesia components of animal use protocols. The subcommittee noted that although existing methods of records creation and management ensure adequate veterinary care for all animals an electronic Veterinary Management Module (VMM), has been internally created at the UW. Some aspects of the system are still in development, but the VMM is projected to be fully operational in 2020. Use of the VMM generates electronic communications and medical records that contain all pertinent information needed for the veterinary staff to examine and care for the animals.

The subcommittee led discussion of VI (“Institutional Animal Care and Use Committee”). They noted that UW Madison requested and received a federal waiver to put further inspections on hold during the COVID-19 restrictions. Animal care staff and veterinarians, as needed, continue to monitor facility conditions and animal welfare during the committee inspection hiatus. Dr. [REDACTED] pointed out that committee review activity has not dropped off during the COVID restrictions. Indeed, the SMPH ACUC reviewed and approved a record number of protocols during the last six months. These included 219 protocols (new/renewal) or amendments, 23% of which were approved through the VVC process. Turn-around time continues to drop, thanks in large part to the efforts and attention of the veterinary staff. The program’s departures, in facilities and protocols, are discussed during program review. Most common departures are tracked automatically in ARROW, which is extremely helpful for program oversight and monitoring. It would be helpful if ARROW included a generic feature to track less common departures (e.g., toe clipping in rodent pups > 7 days old). The ACUC appreciates the support provided by RARC staff. The ACUC also appreciates BRMS and SMPH staff who have provided technical support for remotely conducting activities. The committee also thanks the IACUC Office for continuing their excellent support of this program while implementing COVID-19 procedures.

The subcommittee led discussion of VII (“Institutional Official,” I.O.), noting no deficiencies. The ACUC has found it very beneficial to have the I.O. attend at least one regular ACUC meeting each year, noted she most recent visited in September 2019. The committee requests that Dr. [REDACTED] continue this practice.

The subcommittee led discussion of sections VIII (“Program Integration”) and IX (“Support of the Institutional Mission”). The subcommittee noted that communication remains strong between the ACUC, RARC, BRMS leadership and management, and the office of the Associate Dean of Research in SMPH. However, there have been occasional communication difficulties with campus central administration. The SMPH ACUC encourages campus central administration leadership to 1) include personnel from the SMPH animal program in discussion of issues that affect the SMPH animal program, and 2) provide timely notification of those decisions to the SMPH animal program leadership. The committee recognizes that communication across the programs is vital for success. However, some campus central administration-made decisions would benefit from information provided by SMPH personnel most knowledgeable about the work being done. For example, SMPH animal program personnel are often not consulted, even when the work involves a SMPH facility. On many occasions the SMPH animal program staff first learned of campus central administration decisions from PIs when the PIs reached out to SMPH program staff with questions. It turns out PIs were notified

of a directive, but SMPH animal program staff were not copied. In other instances, campus physical plant staff arrived at a facility to perform a job and SMPH animal facility staff had not been informed of the work directive. Better communication/coordination would improve the process.

Dr. [REDACTED] called for other comments on the Semi-Annual Program review. Hearing none, he said he will prepare a draft letter to the I.O., and that final signatures will be collected at a future ACUC meeting.

Dr. [REDACTED] said that members recently received an e-mail regarding an open records request. He described the process for responding to these requests.

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. Dr. [REDACTED] invited [REDACTED] to stay for closed session.

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

[REDACTED]



**School of Medicine and Public Health Animal Care and Use Committee
Closed Session – June 1, 2020**

Present (voting):

[REDACTED] (for [REDACTED]), [REDACTED]

Present (nonvoting):

[REDACTED]

Guests:

[REDACTED]

Absent:

[REDACTED]

Approval of Closed Session Minutes of May 4, 2020

[REDACTED] moved to accept the minutes as submitted. 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 Animal Program Assessment Specialists

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

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

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

Other Business

Dr. [REDACTED] called for other business for closed session or additional business for open session. Hearing none, Dr. [REDACTED] adjourned the meeting directly from Closed Session at 10:15 a.m.

[REDACTED]
[REDACTED]

[REDACTED]

LOGS for SMPH ACUC – June 2020

Designated Review New/Renewal

PI	Prot #	Date Rec'd	Title	Species	N/R
██████	M5823-R01	4/21	Investigating signaling pathways mediating bleomycin-induced pulmonary fibrosis in a murine model	Mouse	Renew
██████	M6337	4/21	Stem Cell therapy to treat myocarditis	Rat	New
██████	M5873-R01	4/21	Regulation of axon guidance by second messengers	Frog	Renew
██████	M6335	4/22	Embryonic Rat and Mouse Neuronal Cells for Neurotoxicity Testing	Rat, mouse	Renew
██████	M5830-R01	4/26	EasyVix: Integrated, Untethered, Panoramic, 3D Laparoscopic Visualization system	Pig	Renew
██████	M6333	4/24	HPV associated anogenital cancer prevention and treatment	Mouse	New
██████	M5815-R01	5/4	Production and Cryopreservation of Genome Edited Animals Research Core	Mouse, rat	Renew
██████	M5837-R01	5/4	Feeding, Motivation, Plasticity, and learning in a cortico-striato hypothalamic network	Rat	Renew
██████	M6336	5/8	Suppression of ischemic retinal injury by UDP analogs	Rat	New

Designated Review Amendment

PI	Prot #	Date Rec'd	Title	Species	Sum of change
██████	M5226-R01-A05	4/23	Vascular, ventricular, and hemodynamic consequences of pulmonary hypertension	Rat, mouse	+sham procedure for PAB, +mini pump
██████	M5485-R01-A03	4/27	Optical imaging for disease modeling	Mouse, zebrafish	+zebrafish
██████	M5792-R01-A01	4/28	Molecular mechanism of abdominal aortic aneurysm	Mouse	+addl animals, addl blood draw
██████	M5947-A03	5/2	Mammalian Cardiac Regeneration	Mouse, rat	+metabolite and ROS scavenger MitoQ studies
██████	M5580-R01-A02	5/5	Mouse models of Gastrointestinal Cancers for Translational Studies	Mouse	Updates, +adoptive cell transfer, +locations
██████	M5690-R01-A01	5/7	Characterization of Anti-tumor immune responses in mice	Mouse	Updates, +addl animals, +addl inhibitors

████	M6264-A01	5/11	Assessment of ocular changes in transgenic mouse models	Mouse	Husbandry chgs, +addl location
████	M5177-R01-A04	5/11	Peripheral mechanisms in Parkinson disease	Rat	+social interaction studies
████	M6134-A03	5/15	Hox Genes in Organogenesis	Mouse	+cardiovascular lab collaboration

Veterinary Verification and Consultation (VVC) Remember to notify safety

PI	Prot #	Date Rec'd	Title	Species	Sum of change
████	M5268-R01-V01	4/13	Genetic basis of zebrafish early development	Zebrafish	NSH/housing updates
████	M5707-R01-V01	4/13	Interspecies cybrid compatibility boundaries in the Danio lineage	Zebrafish	NSH & housing updates
██████████	M5758-R01-V01	4/9	Genetic Engineering in Aquaculture for Global Food Security and Sustainability	Zebrafish	NSH & housing updates to switch from CALS to SMPH

Dual School Review

PI	Prot #	Date Rec'd	Title	Species	Addl ACUC
████	V5308-R01-A05	4/29	Regulation of T Cell Immunity to Intracellular Pathogens	mouse	
████	V5847-R01	5/4	In Utero Programming of Adult Diseases	Rat	
████	V5016-R02	5/12	Cartilage implants in a pig model	Pig	
██████	G005807-R01	5/6/20	Cardio/Vascular bypass models in Non-Human Primates	Cynomolgus macaque, Rhesus macaque	
████	G006209-A02	4/23/20	Imaging the primate maternal-fetal interface	macaque	

UW-Madison Animal Care and Use Program Review Worksheet: Spring 2020 SMPH ACUC
 (based on Defining the Animal Care and Use Program, Lab Animal 34(10) 41-44, Guide for the
 Care and Use of *Laboratory Animals 8th ed.*, and *Guide for the Care and Use of Agricultural
 Animals in Agricultural Research and Teaching 3rd ed.*)

(I). Physical Plant: "A well-planned, well-designed, well-constructed, and 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). This includes animal facilities not located on the main campus (e.g., Agricultural Research Stations).

A. Methods exist to assure Veterinary, ACUC, PI, and Program staff input into animal facility planning, design, and construction to ensure that new or remodeled facilities meet Program needs.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.
B. The animal facilities adhere to performance standards in the areas of facility planning, design, and construction. All animal facilities meet relevant physical plant performance standards.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.
C. Appropriate areas are available for: • animal housing • animal care • sanitation of cages and other materials • materials receiving and storage • separation of species or isolation of individual projects when necessary • performance of aseptic surgery • other specialized spaces, facilities, and/or equipment required for the conduct of certain studies
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.
D. Appropriate areas and procedures exist for receipt and quarantine of arriving animals, and separation and quarantine of animals if there are disease outbreaks.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.
E. Methods exist to monitor and maintain the physical condition of animal facilities to ensure that it remains adequate and appropriate.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.
F. Departures from The Guide are identified, discussed, and approved by the ACUC.
Fall 2019 ACUC response: Yes. The ACUC acknowledged that occasionally food storage temperatures can exceed recommendations in the <i>Guide</i> but turnover of stored food is rapid and no clinical signs of animal issues related to the quality of stored diets have been observed. The ACUC acknowledged that there are times when humidity levels in facilities depart from <i>Guide</i> standards, primarily during the winter months. Monitoring of humidity-related clinical issues by the veterinary staff will continue, with cases or trends reported to the ACUC as needed. No such clinical cases were seen in the past six months. PIs have been notified of the potential effect of humidity changes on research projects for fall/winter 2019. Spring 2020 ACUC response: Yes. The ACUC acknowledged that occasionally food storage temperatures can exceed recommendations in the <i>Guide</i> but turnover of stored food is rapid and no clinical signs of animal issues related to the quality of stored diets have been observed. The ACUC acknowledged that there are times when humidity levels in facilities depart from <i>Guide</i> standards, primarily during the winter months. Monitoring of humidity-related clinical issues by the veterinary staff will continue, with cases or trends reported to the ACUC as needed. No such clinical cases were seen in the past six months.
G. Procedures exist to identify, communicate, and correct animal facility physical deficiencies.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.
H. Other criteria that should be used to evaluate physical plant & the animal program?
Fall 2019 ACUC response: None. Spring 2020 ACUC response: None.

(II). Animal Environment, Housing, and Management: "An appropriate program provides environments, housing, and management that are well-suited for the species or strains of animals maintained and takes into account their physical, physiologic, and behavioral needs, allowing them to grow, mature, and reproduce normally while providing for their health and well-being." (*Guide*, p.41). Adequate management requires appropriate and sufficient physical, procedural, and human resources. This includes the special needs of aquatic species, and animal facilities not located on the main campus (e.g., Agricultural Research Stations).

- A. When providing animal housing the institution considers the appropriateness of:
- the shape, size, and construction of the animals' primary enclosures (cage, pen, etc.)
 - temperature, humidity, ventilation, and illumination

Fall 2019 ACUC response: Yes.

Spring 2020 ACUC response: Yes.

B. When providing animal housing the institution considers the appropriateness of behavioral management. That is, environmental enrichment and social housing programs are beneficial to animal well-being and are consistent with the goals of animal use (includes meeting needs for social housing and/or environmental enrichment, exercise for dogs, and promotion of the psychological well-being of nonhuman primates).

Fall 2019 ACUC response: Yes. No dogs were housed at SMPH in the last six months. When dogs are housed in SMPH they are housed with sufficient exercise space as specified by the Animal Welfare Act Regulations. The campus' Animal Social Housing and Enrichment Requirements (ASHER) document identifies regulatory-appropriate social housing and enrichment practices for all species. Those standards are implemented throughout the SMPH program.

Spring 2020 ACUC response: Yes. No dogs were housed at SMPH in the last six months. When dogs are housed in SMPH they are housed with sufficient exercise space as specified by the Animal Welfare Act Regulations. The campus' Animal Social Housing and Enrichment Requirements (ASHER) document identifies regulatory-appropriate social housing and enrichment practices for all species. Those standards are implemented throughout the SMPH program.

- C. In assuring appropriate management of animals and animal facilities the institution considers:
- animal husbandry, including selection, storage, preparation, and provision of food, bedding, and water
 - population management, including animal identification (cage cards, ear tags, tattoos, etc.) and records
 - weekend and holiday animal care
 - sanitation of enclosures and physical plant
 - integrated pest control programs

Fall 2019 ACUC response: Yes.

Spring 2020 ACUC response: Yes.

- D. Furthermore, the institution considers:
- facility security and biosecurity
 - preparation of a disaster plan that takes into account both personnel and animals
 - personnel security (pre-employment screening, etc.)

Fall 2019 ACUC response: Yes.

Spring 2020 ACUC response: Yes. During the COVID19 outbreak, operations in animal vivaria were essentially unchanged with the exception that animal care staff honored social distancing requirements and also worked from home one day a week. In addition, PPE including masks were used when handling cats to reduce the risk of contact exposure.

E. Methods exist to monitor and maintain the physical, procedural, and human contributions to adequate animal environment, housing, and management to ensure that they meet performance standards for all animals. That is, facilities are checked to ensure animals are fed, watered, cared for, and protected in species-appropriate ways.

Fall 2019 ACUC response: Yes.

Spring 2020 ACUC response: Yes.

F. Facilities in which animals are housed and used are secure and provide animal and human safety. That is, access to animals in facilities is controlled, monitored, and/or documented.

Fall 2019 ACUC response: Yes.

Spring 2020 ACUC response: Yes.

G. Departures from The Guide are identified, discussed, and approved by the ACUC.
<p>Fall 2019 ACUC response: Yes. The ACUC acknowledged that three previously-approved departures from the <i>Guide</i> are still in effect. These are for a rodent cage top sanitization schedule that departs from <i>Guide</i> 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]</p> <p>Spring 2020 ACUC response: Yes. The ACUC acknowledged that three previously-approved departures from the <i>Guide</i> are still in effect. These departures are 1) for a rodent cage top sanitization schedule that departs from <i>Guide</i> standards that is based on data collected previously and no observed negative effects on animal well-being; 2) for individually ventilated rodent cages that are changed every two weeks rather than weekly as no potential adverse effects or no negative effects on animal well-being have been observed; [REDACTED]</p>
H. Procedures exist to identify, communicate, and correct deficiencies in animal environment, housing, and management.
<p>Fall 2019 ACUC response: Yes.</p> <p>Spring 2020 ACUC response: Yes.</p>
I. Other criteria that should be used to evaluate animal environment, housing, management & the animal program?
<p>Fall 2019 ACUC response: None.</p> <p>Spring 2020 ACUC response: None.</p>

(III). Personnel Qualifications and Training: "All personnel involved with the care and use of animals must be adequately educated, trained, and/or qualified in basic principles of laboratory animal science to help ensure high-quality science and animal well-being. ...Institutions are responsible for providing appropriate resources to support personnel training and the IACUC is responsible for providing oversight and for evaluating the effectiveness of the training program." (*Guide*, p.15). Personnel represent both a tremendous resource and a source of complexity in maintaining an effective Program. In view of the importance of training and the diversity of training needs, the training program must be comprehensive and flexible.

<p>A. All categories of personnel that constitute the animal research and care community receive adequate and appropriate training, including:</p> <ul style="list-style-type: none"> • animal care staff • management and supervisory personnel • research personnel (investigators, instructors, technicians, trainees, students) • IACUC members • Institutional Official • veterinarians and veterinary staff • physical plant and security staff
<p>Fall 2019 ACUC response: Yes. See also attached report on RARC-provided animal user training to SMPH staff, students, and researchers and to all campus animal users.</p> <p>Spring 2020 ACUC response: Yes. See also attached report on RARC-provided animal user training to SMPH staff, students, and researchers and to all campus animal users.</p>

<p>B. As appropriate, each member of the animal research and care community (as listed above) understands:</p> <ul style="list-style-type: none"> • the components of the animal care and use Program • his or her role within that Program • how that role interacts with the roles of other members of the community
<p>Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.</p>
<p>C. <u>Initial</u> formal and/or on-the-job training in Program goals and the humane care and use of animals is provided.</p>
<p>Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.</p>
<p>D. Personnel using or caring for animals participate regularly in <u>continuing</u> education activities relevant to their responsibilities.</p>
<p>Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes. During campus COVID19 restrictions, all BRMS care staff have been working from home one day per week. Staff has used this time to review SOPs and policies as well as participate in online training opportunities and webinars.</p>
<p>E. Documentation of training exists and is accessible.</p>
<p>Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.</p>
<p>F. The effectiveness of the initial and continuing training of individuals working with animals is regularly evaluated.</p>
<p>Fall 2019 ACUC response: Yes. Evaluation is achieved through observation of students and staff performing procedures by veterinary staff and supervisors. RARC 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.</p> <p>Spring 2020 ACUC response: Yes. Evaluation is achieved through observation of students and staff performing procedures by veterinary staff and supervisors. RARC 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.</p>
<p>G. Procedures exist to identify, communicate, and correct deficiencies in training.</p>
<p>Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.</p>
<p>H. <i>Other criteria that should be used to evaluate training & the animal program?</i></p>
<p>Fall 2019 ACUC response: None. Spring 2020 ACUC response: None.</p>

(IV). Occupational Health and Safety: "Each institution must establish and maintain an occupational health and safety program (OHSP) as an essential part of the overall animal care and use program of animal care and use.... An effective OHSP requires coordination between the research program (as represented by the investigator), the animal care and use program (as represented by the A.V., I.O. and IACUC), the environmental health and safety program, occupational health services, and administration (e.g., human resources, finance, and facility-maintenance personnel)." (*Guide*, p.17).

<p>A. The UW-Madison Occupational Health and Safety Program performs hazard identification and risk assessment associated with:</p> <ul style="list-style-type: none"> • animal care • animal experimentation • teaching using animals • outreach using animals • field studies using wild animals
<p>Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes</p>
<p>B. The UW-Madison Occupational Health and Safety Program provides initial and continuing medical evaluation and preventive medicine for personnel with animal contact.</p>
<p>Fall 2019 ACUC response: Yes. See also attached report of current enrollment of animal users in the occupational medicine program (91-95%). It is unclear if UW Health employees undergo an annual risk assessment similar to the</p>

annual update required of UW-Madison enrollees. Spring 2020 ACUC response: Yes, See attached report for specific details. UW Health confirmed they are asking about animal allergies in pre-employment health assessment and if animal allergies worsen during work to contact their Employee Health Service.
C. The UW-Madison Occupational Health and Safety Program identifies and provides occupational safety training to animal users including appropriate hygiene practices and instruction in appropriate PPE. Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes, species specific safety trainings and a new updated cage wash/autoclave online trainings just went live this month.
D. The UW-Madison Occupational Health and Safety Program monitors animal users, facilities, and procedures. Fall 2019 ACUC response: Yes. The isoflurane workgroup continues to meet and assess high risk exposure areas to mitigate exposure. 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. Spring 2020 ACUC response: Yes, isoflurane workgroup has not met since March 2020. The workgroup will meet and continue to work on high risk exposure areas when we are back on campus. A new webpage was created to assist staff when an animal bite or scratch occurs. The webpage has links to what forms need to be completed and what steps should be taken for medical assistance.
E. The ACUC and the institution monitor the effectiveness of the Occupational Health and Safety program. Fall 2019 ACUC response: Yes. Ms. [REDACTED] described the current status of the merger between the University Health Services (UHS) Occupational Medicine program and the Environmental Health and Safety Department (EH&S), and on the search for a new [REDACTED]. Finalists for the position have undergone interviews and a decision is expected soon. Spring 2020 ACUC response: Spring 2020 ACUC response: Yes, [REDACTED] was hired for the [REDACTED] [REDACTED] and he started in early January 2020.
F. Procedures exist to identify, communicate, and correct deficiencies in the Occupational Health and Safety program. Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
G. <i>Other criteria that should be used to evaluate the Occupational Health and Safety Program for the animal program?</i> Fall 2019 ACUC response: None. Spring 2020 ACUC response: Spring 2020 ACUC response: See attached report for incidents that have occurred in SMPH animal facilities

V). Veterinary Medical Care: "Veterinary care is an essential part of an animal care and use program. The primary focus of the veterinarian is to oversee the well-being and clinical care of animals used in research, testing, teaching, and production. This responsibility extends to monitoring and promoting animal well-being at all times during animals use and during all phases of the animal's life. ...The veterinary care program is the responsibility of the attending veterinarian." (Guide, pp.105-106). Adequate veterinary care is a Program component that closely affects all other components.

A. The Program has access to and meets appropriate performance standards for animal procurement and transportation. Fall 2019 ACUC response: Yes. The ACUC commended the BRMS ARTs on their attention to all aspects of animal welfare during daily care, transport, and the accuracy of the animal deliveries. Spring 2020 ACUC response: Yes
B. The Program has access to and meets appropriate performance standards for preventive medicine, including animal quarantine, stabilization, and separation, as well as surveillance, diagnosis, treatment, and control of disease. Fall 2019 ACUC response: Yes. The policy for acclimating animals post-transport before undergoing survival procedures was recently updated to require 72 hours of acclimation. Shorter acclimation periods may be approved by the veterinarians or the ACUC. Spring 2020 ACUC response: Yes

C. The Program has access to and meets appropriate performance standards for management of experiment-associated disease, disability, or other sequelae.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes. The SMPH ACUC commends the RARC veterinary staff and BRMS animal care staff for continuing to provide uninterrupted and exemplary animal care despite all the personal and operational changes necessitated by the Covid-19 pandemic.
D. The Program has access to and meets appropriate performance standards for assessment of animal well-being. Veterinary access to all animals is provided.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
E. The Program has access to and meets appropriate performance standards for establishment of adequate surgical and post-surgical care, including proper use of anesthesia and analgesia. Agents that provide anesthesia and analgesia (1) must be used before their expiration dates and (2) should be acquired, stored, their use recorded, and disposed of legally and safely.
Fall 2019 ACUC response: Yes. In the summer of 2019 the I.O. met with representatives of the School of Veterinary Medicine, 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 (OVCRGE). Expertise in anesthesiology will continue to be available from SVM specialists. Spring 2020 ACUC response: Yes. Dr. [REDACTED], an anesthesiologist from the veterinary school, has officially joined the RARC in a 25% capacity. Dr. [REDACTED] provides anesthesia consultation services and reviews anesthesia and analgesia components of animal use protocols.
F. The Program has access to and meets appropriate performance standards for proper selection and conduct of euthanasia.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
G. The Program has access to and meets appropriate performance standards for veterinary participation in protocol development and review.
Fall 2019 ACUC response: Yes. Several members expressed appreciation for the strength of the prereviews. Spring 2020 ACUC response: Yes
H. There are a sufficient number of veterinarians and veterinary technicians trained to meet Program needs.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
I. There is effective evaluation and mentoring of research animal veterinarians to meet Program needs.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
J. A mechanism exists for direct and frequent communication to ensure that timely and accurate information about problems associated with animal health, behavior, and well-being information is conveyed to the veterinary staff.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.
K. Mechanisms exist to ensure appropriate veterinary participation in decisions regarding animal husbandry, preventive medicine, and experiment planning and conduct, including surgical and post-surgical care.
Fall 2019 ACUC response: Yes. Dr. [REDACTED] meets regularly with BRMS leadership. Structured meetings of the veterinary staff, and the veterinary staff with BRMS staff, promote cooperative decision-making in animal husbandry and care. RARC leadership meets regularly with Mr. [REDACTED] and Dr. [REDACTED], as does the ACUC Chair, to coordinate animal care support. Spring 2020 ACUC response: Yes
L. Veterinarians are provided with sufficient authority to carry out their duties. Direct or delegated authority is given to the veterinarians to oversee all aspects of animal care and use.
Fall 2019 ACUC response: Yes.

Spring 2020 ACUC response: Yes
M. Records document provision of adequate veterinary care to all animals. Veterinarians have access to these records. Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes. Existing methods of records creation and management ensure adequate veterinary care for all animals. An electronic Veterinary Management Module (VMM), has been internally created at the UW and is being used by the veterinary staff for management of non USDA-covered animals. Some aspects of the system are still in development, but the VMM is projected to be fully operational in 2020. Use of the VMM generates electronic communications and medical records that contain all pertinent information needed for the veterinary staff to examine and care for the animals.
N. The institution monitors the effectiveness of the Veterinary Care program. Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
O. Procedures exist to identify, communicate, and correct deficiencies in the Veterinary Care program. Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
P. The veterinary program offers a high quality of care and ethical standards appropriate to the species and the program. Fall 2019 ACUC response: Yes. Appropriate clinical care is provided, modern surgery facilities for research animals are available throughout campus, and veterinary oversight is collaborative and supports animal welfare and research. The committee finds the program of veterinary care in the SMPH program to be bosker. Spring 2020 ACUC response: Yes
Q. Other criteria that should be used to evaluate the program of veterinary care within the animal program? Fall 2019 ACUC response: None. Spring 2020 ACUC response: None

(VI). Institutional Animal Care and Use Committee (IACUC): "The responsibility of the IACUC is to oversee and routinely evaluate the program." (*Guide*, p.24). More than any other group, the IACUC is directly responsible for ensuring the adequacy of all aspects of the Program and can protect the institution's privilege to use animals in research, testing, or education.

A. The ACUC is duly constituted according to the AWA and PHS Policy, and meets as necessary to fulfill its responsibilities. Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.
B. The ACUC members understand the role and responsibilities of the ACUC. Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.
C. The ACUC members receive suitable orientation, background materials, and specific training in understanding and evaluating issues brought before the committee. Training consists of a formal orientation to the institution's program; an overview of legislation, regulations, guidelines, and policies; and instruction on how to conduct protocol review, inspect facilities and labs, and evaluate the program. Committee member training includes both initial and ongoing training/education. Fall 2019 ACUC response: Yes. A report on committee training topics covered during the last six months, including distance learning events, was reviewed. See attached report. Spring 2020 ACUC response: Yes. New members receive on-boarding training from an ACUC administrator and the ACUC Chair. All members receive ongoing training during committee meetings and through distance learning events. See attached report.
D. The ACUCs review and evaluate the Animal Program semiannually.

<p>Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.</p>
<p>E. The ACUCs inspect and evaluate animal activity areas semiannually, including identified animal barrier vivaria and labs where animals go for procedures, surgery areas, transport vehicles, “temporary” housing, etc.</p> <p>Fall 2019 ACUC response: Yes. Ms. [REDACTED] presented information on the most recent inspections period, noting deficiencies were identified as significant and none are overdue for corrective action. See attached report. Spring 2020 ACUC response: Yes. The ACUC reviewed information from inspections conducted during the most recent inspections period. We received a federal waiver to put further inspections on hold during the COVID-19 quarantine. Please note that animal care staff and veterinarians, as needed, continue to monitor facility conditions and animal welfare during the committee inspection hiatus.</p>
<p>F. The ACUCs evaluate drug storage and control programs in animal areas.</p> <p>Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.</p>
<p>G. The ACUCs review proposed uses of animals in research, teaching and outreach (i.e., protocols), including special review requirements regarding physical restraint, multiple major surgical procedures, food or fluid restriction, and the use of pharmaceutical grade chemicals. ACUC members named in protocols or with other conflicts recuse themselves from protocol decisions. ACUC oversight of approved use continues post-approval.</p> <p>Fall 2019 ACUC response: Yes. Dr. [REDACTED] presented information on the number of protocols reviewed and approved over the last six months, noting that 29% of protocol modifications were done via VVC. See attached report. Spring 2020 ACUC response: Yes. The SMPH ACUC reviewed and approved 219 protocols (new/renewal) or amendments, 23% of which were approved through the VVC process. Turn-around time continues to drop, thanks in large part to the efforts and attention of the veterinary staff.</p>
<p>H. Departures from The Guide are identified, discussed, and approved by the ACUC.</p> <p>Fall 2019 ACUC response: Yes. Ms. [REDACTED] summarized the departures from The Guide currently approved in protocols by the SMPH ACUC. See attached report. Spring 2020 ACUC response: Yes. The program’s departures, in facilities and protocols, are discussed during program review. Most common departures are tracked automatically in ARROW, which is extremely helpful for program oversight and monitoring. It would be helpful if ARROW included a generic feature to track less common departures (e.g., toe clipping in rodent pups > 7 days old).</p>
<p>I. A mechanism is established for receipt and review of concerns involving the care and use of animals at the institution, including the establishment of a “Whistleblower Policy.”</p> <p>Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.</p>
<p>J. All minority reports submitted by appointed ACUC members with voting privileges were handled in according with applicable OLAW and USDA regulations.</p> <p>Fall 2019 ACUC response: No minority reports have been submitted by SMPH ACUC members in the last 6 months. Spring 2020 ACUC response: No minority reports have been submitted by SMPH ACUC members in the last 6 months.</p>
<p>K. The ACUCs have the authority to suspend animal activities that do not comply with regulations and policies.</p> <p>Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.</p>
<p>L. The ACUCs submit reports to institutional officials.</p> <p>Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.</p>
<p>M. The ACUCs advise and make recommendations to the Institutional Official on any aspect of the Program.</p> <p>Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.</p>
<p>N. The institution backs the authority of the ACUCs.</p> <p>Fall 2019 ACUC response: Yes.</p>

Spring 2020 ACUC response: Yes.
P. The ACUCs have adequate administrative support. Fall 2019 ACUC response: Yes. The ACUC appreciates the support provided by RARC staff. Spring 2020 ACUC response: The ACUC appreciates the support provided by RARC staff. The ACUC also appreciates BRMS and SMPH staff who have provided technical support for remotely conducting activities.
Q. Methods exist to monitor and maintain committee activities and effectiveness in support of the Program. Fall 2019 ACUC response: Yes. Ms. [REDACTED] reported on post-approval monitoring (PAM) activities by the RARC Animal Program Assessment Specialists (APAS) in the last six months (see attached report). Spring 2020 ACUC response: Yes. RARC veterinarians and Animal Program Assessment Specialists perform routine and directed reviews for the SMPH ACUC.
R. Procedures exist to identify, communicate, and correct deficiencies. Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes.
S. <i>Other criteria that should be used to evaluate the ACUCs' role in the animal program?</i> Fall 2019 ACUC response: None. Spring 2020 ACUC response: The SMPH ACUC continues to perform its duties despite the COVID-19 quarantine.

(VII). Institutional Official (IO): Each institution must appoint an institutional official, who legally commits the institution to meet all requirements embodied in the AWA, AWRs, and PHS Policy by ensuring that the Program satisfies all performance criteria described in the Guide. The IO has the authority to allocate the resources needed to ensure the program's overall effectiveness (*Guide*, p.13). The Institutional Official must have a working understanding of his/her role in the animal program.

A. The ACUC has not identified any deficiencies in the I.O.'s understanding of Program structure. Fall 2019 ACUC response: True. Spring 2020 ACUC response: True
B. The ACUC believes the IO monitors Program functions, including IACUC activities and membership. Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
C. The ACUC has not identified any deficiencies in the administrative, financial, and legal support for the Program of Animal Care. Fall 2019 ACUC response: True. Spring 2020 ACUC response: True
D. The ACUC believes the IO receives appropriate and timely communications from the ACUC and other members of the Program, and carries out appropriate follow-ups and responses. Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
E. The IO has demonstrated authority to enforce Program policies to the ACUC's satisfaction. Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
F. Annual and other reports are submitted to federal agencies in a timely manner by the IO. Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
G. Methods exist to monitor and evaluate the effectiveness of the IO. Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes

H. Other criteria that should be used to evaluate the IOs' role in the animal program?

Fall 2019 ACUC response: The ACUC has found it very beneficial to have the I.O. attend at least one regular ACUC meeting each year, noted she most recent visited in September 2019. The committee requests that Dr. [REDACTED] continue this practice.

Spring 2020 ACUC response: The ACUC has found it very beneficial to have the I.O. attend at least one regular ACUC meeting each year, noted she most recent visited in September 2019. The committee requests that Dr. [REDACTED] continue this practice.

Sections VIII and IX of this Worksheet are designed for internal self-evaluation purposes only. The institution is not obligated to communicate the findings of these sections to USDA, OLAW, or AAALAC unless those findings identify a program deficiency considered reportable by those agencies.

(VIII). Program Integration. For the Program to be effective, all Program components must function well together.

A. There is a cadre of individuals with expertise and understanding regarding Program components who can evaluate Program adequacy.

Fall 2019 ACUC response: Yes.

Spring 2020 ACUC response: Yes

B. There is strong and well-informed administrative coordination of efforts to support the Program.

Fall 2019 ACUC response: Yes.

Spring 2020 ACUC response: Yes

C. The ACUC believes that within its school/college Program there is effective and timely communication among veterinarians, principal investigators, the Committee, and the school/college administration so that each of these groups can carry out its designated responsibilities.

Fall 2019 ACUC response: Yes. Communication between the ACUC, BRMS leadership and management, RARC management, and the Associate Dean of Research's office in SMPH remain strong.

Spring 2020 ACUC response: Yes. Communication remains strong between the ACUC, RARC veterinarians assigned to SMPH, BRMS leadership and management, and the office of the Associate Dean of Research in SMPH.

D. The ACUC believes that campus-wide there is effective and timely communication among Program administration, veterinarians, principal investigators, the Committee, and the Institutional Official (IO) so that each of these groups can carry out its designated responsibilities.

Fall 2019 ACUC response: The committee recognizes that communication across the programs is vital for success. The committee encourages central campus leadership to include the SMPH ACUC in discussion of issues that affect the SMPH animal program.

Spring 2020 ACUC response: There have been occasional communication difficulties with campus central administration. The SMPH ACUC encourages campus central administration leadership to 1) include personnel from the SMPH animal program in discussion of issues that affect the SMPH animal program, and 2) provide timely notification of those decisions to the SMPH animal program leadership.

The committee recognizes that communication across the programs is vital for success. However, some campus central administration-made decisions would benefit from information provided by SMPH personnel most knowledgeable about the work being done. For example, SMPH personnel are often not consulted, even when the work involves a SMPH facility. On many occasions the SMPH program staff first learned of campus central administration decisions from PIs when the PIs reached out to SMPH program staff with questions. It turns out PIs were notified of a directive, but SMPH program staff were not copied. In other instances, campus physical plant staff arrived at a facility to perform a job and SMPH staff had not been informed of the work directive. Better communication/coordination would improve the process.

E. There are sufficient financial, physical, procedural, and human resources to meet Program requirements.

Fall 2019 ACUC response: Yes.

Spring 2020 ACUC response: Yes

F. There is school/college-wide recognition of the need for and practice of compliance; that is, all Program personnel and participants accept that they must follow the rules.

Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
G. Methods exist to monitor program integration to ensure that all Program elements function well together.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
H. Procedures exist to identify, communicate, and correct deficiencies in program integration.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
I. Other criteria that should be used to evaluate integration of the animal program?
Fall 2019 ACUC response: None. Spring 2020 ACUC response: None

(IX). Support of the Institutional Mission: The Program must support and enhance the institution's mission in the areas of research, teaching, and outreach that involve living vertebrate animals. Evaluation of the Program must consider whether and how well it fulfills its reason for existence.

A. The animal care program supports research, teaching, and outreach activities that involve animals.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
B. The animal care program enhances research, teaching, and outreach activities that involve animals.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
C. Methods exist to monitor and maintain the effectiveness of the program.
Fall 2019 ACUC response: Yes. Spring 2020 ACUC response: Yes
D. Other criteria that should be used to evaluate the efficiency and efficacy of animal program in fulfilling its mission?
Fall 2019 ACUC response: None. Spring 2020 ACUC response: None

Hello BRMS Staff,

First, **thank you**, for your dedication through this crazy and challenging time. You have been the foundation of the animal program providing continuous care throughout the last few months to ensure the health and well-being of animals. Some of these animals are needed to better understand COVID19 and develop effective treatment strategies. Your work is greatly appreciated!

We are making the following changes in operations within BRMS facilities based on new campus and SMPH guidelines regarding the "Return to Work" initiative.

Face Masks

- Face masks must be worn at all times.
- If you are alone in a closed room, you do not need to wear a mask unless it is listed as a PPE requirement for the room. Please keep a face mask available at all times to quickly put on if needed.
- ***Some buildings may have different mask requirements***

Social Distancing

- Practice social distancing by maintaining 6' distance from everyone at all times, including co-workers.
- If two or more people are required for a task, face shields should be worn in addition to face masks.
- One person is allowed in a room at a time, including restrooms, breakrooms and locker rooms.
- One person is allowed in an elevator at a time.
- Occupied/Vacant door signs will be used for restrooms, locker rooms, and shared office spaces. Please flip sign over accordingly when entering and exiting each room.
- Supervisors will coordinate schedules to allow for proper social distancing.
- Alternative break and lunch locations should be considered such as outside, private offices and other available spaces.

Self-Monitoring and Increased Hygiene

- Stay at home if you are showing any signs of illness. Call the BRMS Attendance at 608-262-9673 if you are ill. Self-quarantine may be required.
- Wash hands frequently.
- Avoid touching your eyes, nose or mouth with unwashed hands.
- Practice good respiratory etiquette, including covering coughs and sneezes.

Sanitizing High Touch Areas

- All frequently touched items will need to be sanitized frequently. Supervisors will coordinate this sanitization schedule. Examples include:
 - ✓ Facility access keypads
 - ✓ Door handles, door push bars and push pads on swinging doors.
 - ✓ Light switches
 - ✓ Microwave buttons/handles, water jug dispensers and refrigerator handles
 - ✓ Computer keyboard & mouse (in offices and in public areas)
 - ✓ Phone headsets and buttons

Compliance

- Personnel found not complying should be kindly reminded of the rules and guidelines.
- Continued non-compliance should be reported to your supervisor, [REDACTED], BRMS leadership or via info@brms.wisc.edu.
- Continued non-compliance by BRMS staff could lead to disciplinary action.
- If necessary. Department Chairs, SMPH HR or SMPH Dean's office will be notified to ensure mandatory compliance.

Again, thank you for your effort during this time and your compliance with these new campus guidelines. Please let us know if you have any suggestions, questions or concerns (info@brms.wisc.edu).

STAY WELL!

**UW-Madison Animal Care and Use Semi-Annual Program Review
Spring 2020 SMPH
IACUC III. Personnel Qualifications and Training**

RARC Training courses (November 1, 2019 – April 30, 2020)

- 1441 courses completed campus wide, 617 from SMPH
 - o 282 not attached to protocols
 - o 1159 attached to protocols
 - 617 courses completed from SMPH
- 893 distinct individuals, 178 distinct individuals from SMPH
 - Some individuals take multiple courses

Hands-on

- 511 hands-on training completed campus wide, 244 from SMPH
 - o 40 SMPH completed Lab Animal Surgery/Lab Animal Surgery Aquatics
 - o 204 SMPH Species Specific completed
 - Online module/hands on training
 - Mouse(126), Rat(41), Zebrafish (11), Swine (10), Xenopus (6), Rabbit(5), Cat(4), Fish-fathead minnow (1)
- Additional hands-on training requests: 118 sessions (244 students) campus wide, 49 SMPH sessions (62 SMPH students)
 - o Returning students for additional help/refresher
 - cat, mice, rabbit, rats, swine, xenopus, zebrafish (anesthesia, blood collection, CO2 euthanasia, craniotomy, ear tag/notch, electrode placement, handling/restraint/moving, injections, jugular catheterization, parabiosis, pathology, perfusion, stereotax, suturing)
 - pathology

Waivers

- Approval granted from Dr. [REDACTED]/IACUC
- 29 waivers granted campus wide, 3 from SMPH
 - o Waived for: Cat (2), Lab Animal Surgery (1)

Revocations

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

Meet and Greet

- 5 SMPH PI out of 7 PIs campus wide
 - o [REDACTED]

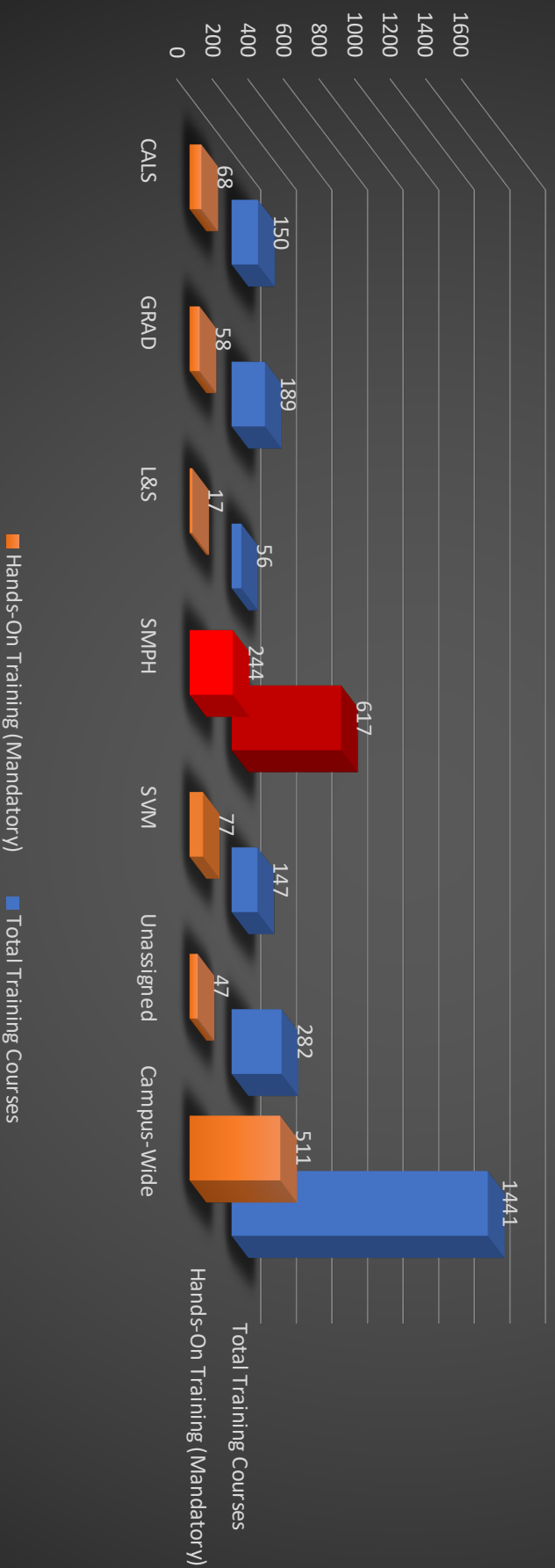
Outreach

- o Campus Visitor's Program
 - Edgewood College
- o Dairy Cattle Outreach Event, Spring Finals Week – canceled, rescheduled next spring

Other Training Updates

- Complete by dates extended per COVID
- 15 week ALAT course
 - o 11 ARTs/Vet Techs enrolled
- Online Modules: 5 yr recertification, rat, microisolator; wildlife, primate, sheep, medical records, LAS pre-req, surgical resources (anesthesia, scrubbing, gloving, draping, surgery)
- Train the Trainer: dog, rat IV catheters, calf jugular blood collection

Campus-Wide Training Numbers (November 2019- April 2020) SMPH Program Review



Year	SMPH-	SMPH-	SMPH-
2020			
Animal Bite			
Animal Scratches			
Needle Sticks			
Kicked/Stepped on/Knocked over			
Splashes			
Trips/Slips/Falls			
Other	2	2 (working with cages)	
Total	2	2	
2019			
Animal Bite	2 (rodent)	1 (cat)	2 (rodent)
Animal Scratches			
Needle Sticks			
Kicked/Stepped on/Knocked over			
Splashes			
Trips/Slips/Falls			
Other		1	1
Total	2	2	3
2018			
Animal Bite	1-Rodent		
Animal Scratches			
Needle Sticks			
Kicked/Stepped on/Knocked over			
Splashes			
Trips/Slips/Falls			
Other			
Total	1	0	0
2017			
Animal Bite	1-Rabbit		
Animal Scratches			2-rodent, NHP
Needle Sticks			
Kicked/Stepped on/Knocked over			
Splashes			
Trips/Slips/Falls			
Other	1	1	1
Total	1	1	3
2016			
Animal Bite		1-Rodent	
Animal Scratches		1-Cat	1-Rodent
Needle Sticks	1		1
Kicked/Stepped on/Knocked over			1-Sheep
Splashes			1
Trips/Slips/Falls			1
Other		1	5
Total	1	3	10
2015			
Animal Bite		3-cat, Rodent	4-Rodent
Animal Scratches			
Needle Sticks	1		
Kicked/Stepped on/Knocked over			
Splashes			
Trips/Slips/Falls			1
Other	1		
Total	2	3	5



Environment, Health and Safety

DIVISION OF FACILITIES PLANNING & MANAGEMENT

UNIVERSITY OF WISCONSIN-MADISON

Environmental and Occupational Health Summary Occupational Health Program Status April 2020

Compliance with Animal Contact Risk Questionnaire (ACRQ)

On April 27, 2020 the compliance rate* for ACRQ was 97% with 3839 enrolled. During the time period since the last report, those compliant with ACRQ review ranged from 93 to 97% with an average of 95%.

The Occupational Medicine staff reviewed 1884 ACRQ questionnaires in this time period.

Occupational Health Program for Service Personnel (SPLAAAF)

Compliance for UW Madison staff enrolled in SPLAAAF was 78% on April 27, 2020. During the time period since the last report, those compliant with SPLAAAF review ranged from 91 to 99% with an average of 95% until March 1, 2020. Refer to section on services during "Safer at Home".

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

Spring 2020 Course Compliance

In addition to faculty and staff compliance specific courses also require ACRQ. Below is the current compliance for Spring.

Course	Number of students enrolled	% Compliance
Animal Science 305	28	97%
Animal Science 375	19	85%
Animal Science 432	15	80%
Dairy Science 234	15	67%

Occupational Medicine and Occupational Health Services during "Safer at Home"

In recognition of assuring health of essential workers on campus and in particular those caring for animals and conducting essential research, Occupational Medicine has and continues to be present during normal business hours. Staffing is reduced, however, available to respond to phone calls and see patients if necessary due to animal bites or other related exposures.

There have been no changes to Animal Contact Risk Questionnaire processes, submission reminders continue to be sent, questionnaires reviewed, and medical clearances are being completed. This is reflected in the compliance percentages.

SPLAAAF annual submissions for about 2/3 of the program are routinely initiated in March. The initiation of "Safer at Home" has had an impact on compliance with this program as many of the staff enrolled may not be on campus, have computer access at home or language barrier issues. We continue to reach out to supervisors to encourage completion. Once staff are allowed back on campus we will actively engage with these staff to complete the SPLAAAF.

Respirator programs are continuing with recognition of conservation practices necessary to assure sufficient PPE for healthcare and other priority entities. Like ACRQ, respirator medical questionnaires are being reviewed by healthcare providers. Advice and training for those that can shift to PAPR use has also been provided. Occupational Health staff are serving on the UW Madison EOC Logistics team reviewing potential purchases and evaluating supply and requests for campus units.

Campus rabies policy highly recommends vaccination and every 2-year titer collection. In past years Occupational Medicine arranged an event in April to offer titer collection which allowed for a significant volume discount for testing cost. After seeking advice on priority from UW Madison Chief Campus Veterinarian and comparing those due for titer in spring to those listed as being essential on campus, we are in the process, subject to availability, of arranging a phased approach to offer rabies titer to these staff.

Other Impacts

UHS electronic medical record was upgraded to a web application version in January. Enhancements continue to be requested from the vendor, many delayed due the current pandemic.

*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
November, 2019-April, 2020**

Committee Training at Monthly Meetings

December: Full Committee Review or Designated Member Review - How to Decide?

January: Scientific Merit and ACUC Review

March: Veterinary Verification and Consultation Review

Web Seminars

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

OLAW: 21st Century Cures Act: Next Steps - December 5, 2019

NABR: The 2019 USDA Oversight Process- January 7, 2020

PRIM&R: Agricultural Research with Farm Animals: IACUC Scenarios and Considerations- January 30, 2020

OLAW: Building a Research Occupational Health Program - March 12, 2020

OLAW: Pandemic Contingency Planning and Its Impact on Animal Care - March 19, 2020

PRIM&R: COVID-19: How HRPPs are Preparing and Responding—A Discussion Forum

OLAW: COVID-19 Pandemic Response Resources and FAQs for Animal Care and Use Programs - April 8, 2020

PRIM&R Community Conversation: COVID-19 Considerations for Animal Care and Use Programs- April 23, 2020

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

Archived PRIM&R Web Seminars are available to members- contact [REDACTED] for information.

SMPH ACUC Program Review Spring 2020: IACUC Inspections

Due to the Covid-19 pandemic the last semi-annual inspection was done on March 18th. UW Madison has requested and received a waiver from OLAW allowing us to postpone any remaining semi-annual inspections remaining in the Spring 2020 cycle. While the USDA does not issue formal waivers they have acknowledged the need to delay semi-annual inspections for as long as necessary.

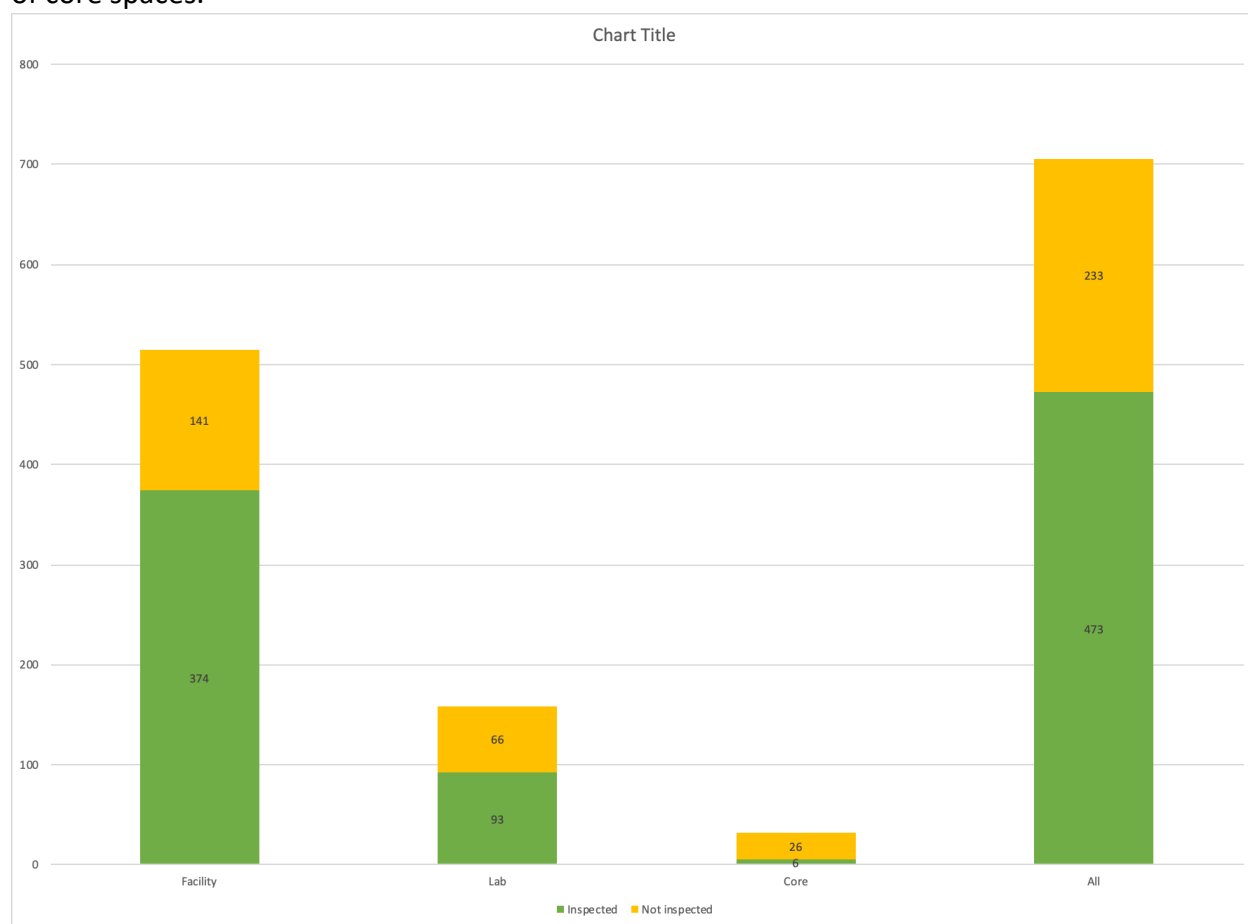
Reports on Voting Member time spent, deficiency summaries and deficiency trends will be included in the Fall 2020 Program Review.

New Room Inspections

So far this cycle SMPH members have done 9 new room inspections, including 1 post-lockdown.

Regularly Scheduled Semi-Annual inspections:

Typically the SMPH ACUC has regularly scheduled inspections dates per cycle, encompassing over 700 individual rooms or areas, including transport vehicles. Before the pause in conducting inspections we completed 67% of total rooms or areas in the SMPH program. Due to timing 73% of the facility spaces were inspected, along with 58% of the lab spaces and 19% of core spaces.



Areas left to be inspected:

██████████ facility & labs
██████████ facility, labs and cores

We will begin with these areas once inspections can resume.

Repeat Deficiencies (to be included in the report to the IO)

Expired Medical Materials: 2, both in ██████████ facility, both lab supplies stored in facility.

Expired Cleanser/Disinfectant: 2, both in ██████████ facility.

Safety: 2, both in ██████████ facility, both human food in animal area.

Infrastructure: 1, ██████████, flooring issue.

Overdue Deficiencies:

None

Other Unresolved Deficiencies:

Multiple Minors in ██████████ housing area, extensions granted to June 30th 2020.

Inspection Timing

Both USDA and OLAW expect that the remaining Spring 2020 inspections will take place as soon as it is possible once the impacts of Covid-19 are no longer a factor. The next semi-annual after the 1st post-pandemic semi-annual should be 6 months later. This may require a restructuring of the inspection schedule.

Options for Low and No Contact Inspections

In the event that campus takes a phased approach before returning to a fully pre-Covid state of operations the regulatory agencies have acknowledged various flexibilities that IACUCs can utilize to conduct inspections. Options include:

- Virtual inspections
 - Must be a live feed viewed by two voting members
 - Must have ability to direct camera as needed
 - The SVM ACUC has experience doing the ██████████ this way
 - Will require investment in equipment
- Compartmentalized inspections
 - Voting members can split up and do separate areas of the facility
 - Could even do staggered times
 - Voting members should consult with each other before declaring deficiencies
- Consultant inspections (non-USDA areas/activity only)
 - Consultant report reviewed and voted on by full committee
 - We already utilize this on the small scale for lab make-up inspections

These options could also be applied to new room inspections as needed.

Thanks to all the IACUC members for the time and effort they put into the inspections. If you have any feedback or suggestions please let me know.

SMPH ACUC Spring 2020 Protocol Review Statistics

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

	Fall 2017	Spring 2018	Fall 2018	Spring 2019	Fall 2019	Spring 2020
New/Renewals	52	41	61	49	70	63
Amendments	116	113	142	133	145	156
Total	168	154	203	182	215	219

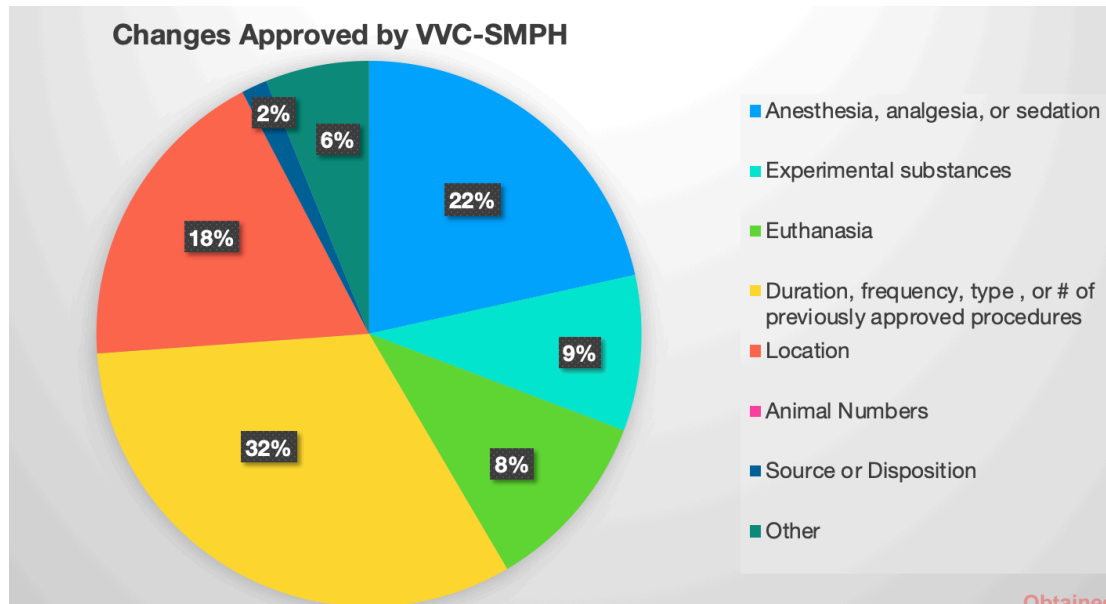
Turn-around time (in Days) for Protocols Reviewed and Approved during this period*

New or Renewals	Fall 2017	Spring 2018	Fall 2018	Spring 2019	Fall 2019	Spring 2020
Average	36	41	38	34	36	33
Median	35	36	37	31	36	30
Range	7-78	20-84	10-96	2-79	14-61	14-61

*Includes review time after submission (not including vet pre-review). Average vet pre-review time this cycle was 8 calendar days (up from 7 last cycle).

Amendments or VVC**	Fall 2017	Spring 2018	Fall 2018	Spring 2019	Fall 2019	Spring 2020
Average	15	16	14	14	14	12
Median	13	15	13	14	14	11
Range	0-55	0-70	0-68	0-58	0-54	0-64

Includes changes approved through Veterinary Verification and Consultation (VVC) in which the changes may be implemented immediately after vet consultation. Twenty-one 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.



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*

Report from RARC Animal Program Assessment Specialists
SMPH IACUC
Spring 2020
Section IV, Part Q

Routine PAM Reviews

We reviewed one SMPH protocol during this cycle.

Directed PAM Reviews

We reviewed one SMPH protocol during this cycle working with swine.

Congruence Reviews

Forty seven grant-protocol congruence reviews were conducted with SMPH protocols.[73 total]

Miscellaneous

We answered 14 controlled substance questions for SMPH PIs [32 total]. There are also five open directed PAMS. Three deal with swine and two deal with zebrafish.