

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE Office of the Vice President for Research New Mexico State University P. O. Box 30001

Las Cruces, NM 88003-8001 Phone: 575-646-7177

E-mail: ovpr@nmsu.edu

To:

Dr. Luis Cifuentes, Institutional Official, IACUC

From:

Institutional Animal Care and Use Committee, Dr. Shanna Ivey, IACUC Chair

Shanne Luy

Subject:

Semiannual Evaluation of Institutional Animal Care and Use program and inspection of

facilities

Date:

December 10, 2021

This represents the semiannual report of the Institutional Animal Care and Use Committee (IACUC), as required by the PHS Policy on Humane Care and Use of Laboratory Animals and as a condition of this institution's Animal Welfare Assurance on file with the Office of Laboratory Animal Welfare (OLAW), and USDA Animal Welfare Regulations, 9 CFR Chapter I, subchapter A, as applicable.

Evaluation of the Animal Care and Use Program

The IACUC conducted its semiannual evaluation of the institution's animal care and use program on **December 10, 2021**, using the *Guide for the Care and Use of Laboratory Animals*, the *Guide for the Care and Use of Agricultural Animals in Research and Teaching*, and, as applicable, 9 CFR Chapter I, 2.31. The program review involved discussion of the NMSU protocol review process, the facility inspection process, and other issues related to the animal care program. The OLAW Semiannual Program Review Checklist was used for the program review. The NMSU Animal Care and Use Program conforms to PHS Policy, the Guide for the Care and Use of Laboratory Animals, applicable Animal Welfare Regulations, and the *Guide for the Care* and *Use of Agricultural Animals in Research and Teaching*.

Inspection of Animal Facilities

The IACUC inspected the NMSU animal facilities on November 9, 12, and 15, 2021, using the Guide for the Care and Use of Laboratory Animals, the Guide for the Care and Use of Agricultural Animals in Research and Teaching and, as applicable, 9 CFR Chapter I, 2.31.

No major deficiencies were observed.

Minor deficiency: None

Minority Views: None

| IACUC Members | Signatures |
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| Shanna Ivey, Chair | Branne don |
| Tim Wright | 377 |
| Trey Miller | |
| Clint Löest | Blat |
| Colleen Caldwell | CA Cold |
| Scott Eschenbrenner | for denhan |
| Erin Weich | |

Signature Page – OLAW Checklist

| IACUC Members Shanna Ivey, Chair | Signatures |
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| Tim Wright | - A |
| Trey Miller | IPM. |
| Clint Löest | They |
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Inspection of Animal Facilities

The IACUC inspected the Jornada animal facilities on November 16, 2021, using the Guide for the Care and Use of Laboratory Animals, the Guide for the Care and Use of Agricultural Animals in Research and Teaching and, as applicable, 9 CFR Chapter I, 2.31.

No major or minor deficiencies were observed. The dedication displayed by this group to animal welfare is appreciated.

Minority Views: None

| IACUC Members | Signatures (|
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| Shanna Ivey, Chair | Kharina doy |
| Tim Wright | Sy Suy |
| Trey Miller | |
| Clint Löest | - Blat |
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| Erin Weich | |

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I. Semiannual Program Review Checklist i

Institutional Policies and Responsibilities

Date: 12/1/2021

| . A | nimal Care and Use Program NEW | A* | M | S | C | N |
|-------|---|-----|-----|---|---------|----------|
| • | Responsibility for animal well-being is assumed by all members of the program (<i>Guide</i> , p 1) [10] [10] [11] [12] [13] [14] [15] [16] [17] [18] [18] [18] [18] [18] [18] [18] [18 | ~ | | | | |
| ٠ | Resources necessary to manage program of veterinary care are provided (Guide, p 14) | | | | | T |
| • | Sufficient resources are available to manage the program, including training of personnel in accord with regulations and the <i>Guide</i> (<i>Guide</i> , pp 11, 15) Program needs are regularly communicated to IO by AV and/or IACUC (<i>Guide</i> , p 13) | ~ | | | | |
| • | Responsibilities for daily animal care and facility management are assigned to specific individual(s) when a full-time veterinarian is not available on site (Guide, p 14) Inter-institutional collaborations are described in formal written agreements (Guide, p 15) | V | | | | |
| • | Written agreements address responsibilities, animal ownership, and IACUC oversight (Guide, p 15) | ~ | | | | |
| , D | isaster Planning and Emergency Preparedness HEY Disaster plans for each facility to include satellite locations are in place (Guide, p 35, p 75) | A* | М | S | C | N |
| • | Plans include provisions for euthanasia (<i>Guide</i> , <u>p 35</u>) mesti Plans include triage plans to meet institutional and investigators' needs (<i>Guide</i> , <u>p 35</u>) | ~ | | | | |
| • | Plans define actions to prevent animal injury or death due to HVAC or other failures (Guide, p 35) | _ | | | | |
| • | Plans describe preservation of critical or irreplaceable animals (Guide, p 35) Plans include essential personnel and their training (Guide, p 35) | / | | | | |
| • | Animal facility plans are approved by the institution and incorporated into overall response plan (<i>Guide</i> , p 35) Law enforcement and emergency personnel are provided a copy and integration with overall plan is in place (<i>Guide</i> , p 35) | ノ.ノ | | | | |
| T/ | ACUC REM | | 100 | | | 19/2 |
| - | Meets as necessary to fulfill responsibilities (Guide, p 25) | A | M | S | C | N |
| • | IACUC Members named in protocols or with conflicts recuse themselves from protocol decisions (Guide, p 26) | ~ | | | | |
| ANDOO | Continuing IACUC oversight after initial protocol approval is in place (Guide, p 33) IACUC evaluates the effectiveness of training programs (Guide, p 15) | ~ | | | | |
| I/ | CUC Protocol Review - Special Considerations | A* | м | S | c | N |
| • | Humane endpoints are established for studies that involve tumor models, infectious diseases, vaccine challenge, pain modeling, trauma, production of monoclonal antibodies, assessment of toxicologic effects, organ or system failure, and models of cardiovascular shock (<i>Guide</i> , p 27) | | | | . • | |
| • | For pilot studies, a system to communicate with the IACUC is in place ($Guide$, p 28) For genetically modified animals, enhanced monitoring and reporting is in place ($Guide$, p 28) | レレ | | | | |
| • | Restraint devices are justified in the animal use protocols (Guide, p 29) Alternatives to physical restraint are considered (Guide, p 29) | V | | | | |
| : | Period of restraint is the minimum to meet scientific objectives (Guide, p 29) Training of animals to adapt to restraint is provided (Guide, p 29) | ~ | | 4 | 2,22(2) | |
| • | Animals that fail to adapt are removed from study (Guide, p 29) | V | 7 | | | |
| • | Appropriate observation intervals of restrained animals are provided (<i>Guide</i> , <u>p 29</u>) Veterinary care is provided if lesions or illness result from restraint (<i>Guide</i> , <u>p 30</u>) | | | | | TRANS TO |

Semiannual Checklist

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12/10/2021 85

| | • | Explanations of purpose and duration of restraint are provided to study personnel | ~ | | | | %. |
|--------|-----------|---|----|-------|-----|------------------|-------------|
| | <u> </u> | (Guide, p 30) Multiple surgical procedures on a single animal are justified and outcomes evaluated | | | | | |
| | | (Guide, p_30) Major versus minor surgical procedures are evaluated on a case-by-case basis (Guide, | | | | | i. |
| | | p 30) | 0 | | | | 8 |
| | • | Multiple survival procedure justifications in non-regulated species conform to regulated species standards (<i>Guide</i> , p 30) | | | | | 10 |
| | ٠ | Animals on food/fluid restriction are monitored to ensure nutritional needs are met (Guide, p 31) | V | | | | 10 |
| | • | Body weights for food/fluid restricted animals are recorded at least weekly (Guide, p 31) | / | | | | |
| | • | Daily written records are maintained for food/fluid restricted animals (<i>Guide</i> , <u>p 31</u>) Pharmaceutical grade chemicals are used , when available, for animal-related procedures (<i>Guide</i> , p 31) | / | | | | |
| | • | Non-pharmaceutical grade chemicals are described, justified, and approved by IACUC (Guide, p 31) Investigators conducting field studies know zoonotic diseases, safety issues, laws and | V | | | | |
| | | regulations applicable in study area (Guide, p 32) | | | | | |
| - | ٠ | Disposition plans are considered for species removed from the wild (Guide, p 32) | V | | | | |
| :53 | | Toe-clipping only used when no alternative, performed aseptically and with pain relief (Guide, \underline{p} 75) | V | | | 21.00C | 55550 |
| 5. | IA | CUC Membership and Functions | A* | M | S | C | NA |
| | • | IACUC is comprised of at least 5 members, appointed by CEO (PHS Policy, IV.A.3.) | | | | | |
| | • | Members include a veterinarian, a scientist, a nonscientist, and a nonaffiliated non-lab animal user (Guide, p. 24) ^{II} | 1 | | | | |
| | • | IACUC authority and resources for oversight and evaluation of institution's program are provided (Guide, p 14) | V | | | | |
| | • | IACUC conducts semiannual evaluations of institutional animal care and use program (PHS Policy, <u>IV.B.</u>) | V | ., | | | |
| | • | Conducts semiannual inspections of institutional animal facilities (PHS Policy, IV.B.) | ~ | | I | | |
| 3. | (š | IACUC organizationally reports to the Institutional Official (PHS Policy, IV.A.1.b.) | 1 | Sc. | | | |
| | • | Methods for reporting and investigating animal welfare concerns are in place (Guide, p 23) | ~ | · · | 1 | | |
| | - | Reviews and investigates concerns about animal care and use at institution (PHS Policy, IV.B.) | ~ | | | | |
| | • | Procedures are in place for review, approval, and suspension of animal activities (PHS Policy, <u>IV.B.</u>) | ~ | -1019 | | | |
| | • | Procedures are in place for review and approval of significant changes to approved activities (PHS Policy, IV.B.) | 1 | 3 | | | |
| | • | Policies are in place for special procedures (e.g., genetically modified animals, | | | | | |
| | | restraint, multiple survival surgery, food and fluid regulation, field investigations, agricultural animals) (Guide, p 27-32) | 1 | 7.7 | | | |
| il and | • | Requests for exemptions from major survival surgical procedure restrictions are made to USDA/APHIS (Guide, p 30) | | | | | レ |
| 5. | IA | CUC Training NEW | A* | М | s | C | NA |
| | • | All IACUC members should receive: | | 171 | | 100 | 1474 |
| | | o Formal orientation to institution's program (Guide, p 17) | ~ | 1 | 1 | I | $\neg \neg$ |
| | | Training on legislation, regulations, guidelines, and policies (Guide, p 17) | 1 | - 1 | ÷ | | j |
| | | Training on how to inspect facilities and labs where animal use or housing occurs (Guide, p 17) | ~ | i | 1 | | i |
| | e e e e e | o Training on how to review protocols as well as evaluate the program (Guide, p 17) | 1 | +< | | | 3 |
| | ¥8. | o Ongoing training/education (Guide, p 17) | 1 | | L | 1.00-2 1.00-2 | |
| | IA | CUC Records and Reporting Requirements ^{vi} Semiannual report to the IO (PHS Policy, IV.B.) | A* | M | s | C | NA |
| | | Submitted to IO every 6 months | / | | - 8 | - | |
| | | Compiles program review and facility inspection(s) results (includes all program | 1 | | 3 | 1 | |

| - | | | | - | | - | _ |
|----------|-------------|--|------------|----------|-----------|---------|------|
| | 55550X - 50 | and facility deficiencies) o Includes minority IACUC views | _ | | | | |
| | | Describes IACUC-approved departures from the Guide or PHS Policy and the reasons for each departure^{vii} | <u>ر</u> ا | | | | |
| | | o Distinguishes significant from minor deficiencies | 1/ | - | | | 6 |
| | | Includes a plan and schedule for correction for each deficiency identified viii | 1 | | | 1 | Ų. |
| | | Reports to OLAW (PHS Policy, IV.F.) | | | | | |
| | | Annual report to OLAW documents program changes, dates of the semiannual program reviews and facility inspections and includes any minority views | سا | | | | |
| | - | Promptly advises OLAW of serious/ongoing Guide deviations or PHS Policy | | | | | |
| | | noncompliance (NOT-OD-05-034) | - | | | | |
| | | Institute must promptly advise OLAW of any suspension of an animal activity by |) | | | | |
| | | the IACUC (NOT-OD-05-034) | 1 | | | | |
| | | Reports to U.S. Department of Agriculture (USDA) or Federal funding agencyix | | 50 | F | * | (E) |
| \vdash | | Annual report to USDA contains required information including all | | | 1 | Ī | 1 |
| | | exceptions/exemptions | ~ | | i | | |
| 8 | | Reporting mechanism to USDA is in place for IACUC-approved exceptions to the | | | | | |
| | | regulations and standards | 1 | | | <u></u> | |
| | | Reports are filed within 15 days for failures to adhere to timetable for correction of significant deficiencies | - | | | | - |
| | | o Promptly reports suspensions of activities by the IACUC to USDA and any Federal | | | | | i. |
| | | funding agency | ~ | | | | |
| 3217 | • | Records (PHS Policy, IV.E.) | (X (7) | 5000 | tioner, c | 6.000 1 | W 12 |
| | | o IACUC meeting minutes and semiannual reports to the IO are maintained for 3 | 1121 | | | | |
| | | years | ~ | | | İ | |
| | | Records of IACUC reviews of animal activities include all required information^x | _ | | | | |
| | | o Records of IACUC reviews are maintained for 3 years after the completion of the | | | | | į. |
| | | study | ~ | | | - | |
| | • | An arrangement for veterinarian(s) with training or experience in lab animal medicine is in place including backup veterinary care ^{xi} Veterinary access to all animals is provided (<i>Guide</i> , p 14) | レレ | | | | |
| | 12 | Direct or delegated authority is given to the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 14</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 14</u>) in the veterinarian provides consultation when pain and distress exceeds anticipated level in protocol (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee all aspects of animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee and use (<i>Guide</i> , <u>p 5</u>) in the veterinarian to oversee animal care and use (<i>Guide</i> , <u>p 5</u>) in the veterinaria | レレ | er s | | | |
| | • | Veterinarian provides consultation when interventional control is not possible (Guide, p. 5) must | ~ | | | | |
| | • | If part time /consulting veterinarian, visits meet programmatic needs (Guide, p 14) | | | | | |
| | • | Regular communication occurs between veterinarian and IACUC (Guide, p 14) | 1 | | | | |
| | • | Veterinarian(s) have experience and training in species used (Guide, p 15) | 1 | | | | 1 |
| . 0 | • | Veterinarian(s) have experience in facility administration/management (Guide, p 15) | | E-2-77-1 | | | 1 |
| | n. | | . * | | | | |
| | re | rsonnel Qualifications and Training | A | M | 5 | C | NA |
| | • | All personnel are adequately educated, trained, and/or qualified in basic principles of | | | | | |
| | Dia. | laboratory animal science. Personnel included: | | | 61 W 6 | 0.5 | |
| | _ | Veterinary/other professional staff (Guide, p 15-16) | | - | 5 | | |
| | | o IACUC members (<i>Guide</i> , p 17) | ~ | | | | |
| - | | o Animal care personnel (Guide, p 16) | / | | | | |
| | | Research investigators, instructors, technicians, trainees, and students (Guide, pp. 16-17) | | | | | |
| | • | Continuing education for program and research staff provided to ensure high quality | , ! | 13 | | | |
| | | care and reinforce training (Guide, pp 16-17) | | 3 | | | |
| | • | Training is available prior to starting animal activity (Guide, p. 17) | | į. | | | |
| V) | | Training is documented (<i>Guide</i> , p 15) | / | | | | |
| | • | Training program content includes: (Guide, p 17) | 1 | - 6 | | 20.0 | |
| | | Methods for reporting concerns (Guide, p 17) | V | | | | |
| | | Humane practices of animal care (e.g., housing, husbandry, handling) *** | ~ | - 1 | | | |
| | | | | | | | |

| , • | Preventive measures in place include pre-employment screening, and physical and IT security (Guide, p 23) | / | - | | | |
|----------------|--|---------|------------|------|---|---------|
| 1. | Personnel Security HE4 | A" | M | s | C | NA |
| | implemented (<i>Guide</i> , <u>p 23</u>) Occupational safety and health of field studies is reviewed by OSH committee or office (<i>Guide</i> , <u>p 32</u>) | | ; | | | 0.26 |
| | PPE is provided including gloves, arm protection, face masks, face shields, or goggles (Guide, p 21) Injuries associated with macaques are carefully evaluated and treatment | | 1 | - | | |
| | Training and implementation of procedures for bites, scratches, or injuries associated with macaques (Guide, p 23) | ~ | 25)275.00 | - | | te Z |
| | body fluids include: Tuberculosis screening provided for all exposed personnel (Guide, p 23) | | - | | | |
| • | p 22) Special precautions for personnel who work with nonhuman primates, their tissues or | | | 1 | | |
| • | Respiratory protection is available when performing airborne particulate work (Guide, | | 13 | | | |
| | Hearing protection is provided in high noise areas (Guide, p 22) | | | | | |
| • | Waste anesthetic gases are scavenged (Guide, p 21) | سرا | | | | |
| | If serum samples are collected, the purpose is consistent with federal and state laws (Guide, p 22) | | | | 8 | |
| | local regulations (Guide, p 22) intest | - | | | | 1 |
| 555 55 | Promotes early diagnosis of allergies including preexisting conditions (<i>Guide</i>, p 22) Considers confidentiality and other legal factors as required by federal, state and | سرة | | | | |
| | Procedures for reporting and treating injuries, including accidents, bites, allergies, etc. (Guide, p 23) | | | | | |
| | (Guide, p 22) Zoonosis surveillance as appropriate (e.g., Q-fever, tularemia, Hantavirus, plague) (Guide, p 23) | <u></u> | | | | i i |
| | Pre-employment evaluation including health history (Guide, p 22) Immunizations as appropriate (e.g., rables, tetanus) and tests as appropriate | | | | | _ |
| | Program for medical evaluation and preventive medicine for personnel includes: | | 4 | | | 6 0 |
| ٠ | [801일 10 101일 121 전 12 12 12 12 12 12 12 12 12 12 12 12 12 | | | | | ž E |
| • | Procedures for use, storage, and disposal of hazardous biologic, chemical, and physical agents are in place (<i>Guide</i> , p 21) | | | | 0 | ** |
| • | | | | | | |
| • | (Guide, p 19) Personnel training is provided based on risk (e.g., zoonoses, hazards, personal hygiene, special precautions, animal allergies) (Guide, p 20) | _ | | | | |
| • | | | | 1 | | |
| 5∓ + 24• | p 17) Program covers all personnel who work in laboratory animal facilities (Guide, p 18) | ~ | TT. | ļ.,, | 200 | |
| 10. | Program is in place and is consistent with federal, state, and local regulations (Guide, | A* | M | S | С | NA |
| | o Ethics of animal use and Three R's (Guide, p 17) | | | L | | 1 |
| | IACUC function (Guide, p 17) | 1 | i. | | 1 | 1 |
| | applicable (Guide, p 20) o Animal care and use legislation (Guide, p 17) | | | | | : |
| | IV.A.1.g.) Use of hazardous agents, including access to OSHA chemical hazard notices where | | | 1 | - | 1 |
| | Research/testing methods that minimize animal pain or distress (PHS Policy, | سا | | | | 1 |
| | Research/testing methods that minimize numbers necessary to obtain valid results (PHS Policy, IV.A.1.g.) | سا | | |) as | : |
| | pre- and post-operative care, aseptic surgical techniques and euthanasia (Guide, p 17)xiii | | | \$ 1 | | 9 |

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| 12. | Investigating & Reporting Animal Welfare Concerns Methods for investigating and reporting animal welfare concerns are established | A*_M | S | C | NA |
|-----|--|-------|-----------|-----|------------------------|
| | (Guide, p 23) must. Reported concerns and corrective actions are documented (Guide, p 24) | | | | |
| • | Mechanisms for reporting concerns are posted in facility and at applicable website | with: | 1 | - | |
| | instructions (Guide, p 24) o Includes multiple contacts (Guide, p 24) | | 25 | į . | |
| | Includes anonymity, whistle blower policy, nondiscrimination and reprisal protection (Guide, p 24) | | ? - I - I | | i rean I |

A = acceptable

M = minor deficiency

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

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

NA = not applicable

NOTES:

Veterinary Care

| Dal | e: 12/10/2021 SI | | | | 2100 | |
|--------|--|----------|------------------|-----|--------|----|
| | Clinical Care and Management PEW Veterinary program offers high quality of care and ethical standards (Guide, p 105) | A* | М | s | C | NA |
| | musti | ~ | | 1 | £. | 1 |
| | Veterinarian provides guidance to all personnel to ensure appropriate husbandry, handling, treatment, anesthesia, analgesia, and euthanasia (Guide, p 106) | س. | | ! | 6 E | |
| | • Veterinarian provides oversight to surgery and perioperative care (Guide, p 106) | | 1 | | - | |
| | Veterinary care program is appropriate for program requirements (Guide, pp 113-114) | ~ | | | į. | |
| | Veterinarian(s) is familiar with species and use of animals and has access to medical and experimental treatment records (Guide, p 114) | | Í | | | |
| - 8 | Procedures to triage and prioritize incident reports are in place (Guide, p 114) | | Ī | İ | | 1 |
| • | Procedures are in place to address: | | | | | |
| | Problems with experiments to determine course of treatment in consultation with | - | | | | į |
| 0000 | investigator(Guide, p 114) | 0 | | | | |
| | Recurrent or significant health problems with the IACUC and documentation of treatments and outcomes (Guide, p 114) | V | | i | | |
| | Veterinary review and oversight of medical and animal use records (Guide, p 115) | 1 | | Í | | T |
| | Procedures established for timely reporting of animal injury, illness, or disease (Guide, p 114) animal | 6 | | 1 | | |
| • | Procedures established for veterinary assessment, treatment, or euthanasia (Guide, p 114) | V | | | | |
| | Veterinarian is authorized to treat, relieve pain, and/or euthanize (Guide, p 114) | | | | | |
| | Animal Procurement and Transportation/Preventive Medicine | | | | | |
| 770.00 | | A* | M | 5 | C | NA |
| | | - | | | | |
| | | 1 |) | 3 | | |
| | | - | | | | |
| | | ~ | | | | |
| • | | 1 | - | | | |
| • | | 1 | | 1 | 10.2 | |
| • | Breeding colonies are based on need and managed to minimize numbers (Guide, o | 1,1,72 | | | | 5 |
| | 107) | V | - | | | E0 |
| • | The same of the sa | ~ | | | | |
| | international requirements, are in place (Guide, p 107) | | | 1 | | |
| • | Transportation is planned to ensure safety, security and minimize risk (Guide, p 107) | ~ | | | | |
| • | the second of second or produced to transmitted the second of the bid title of the bid title of th | ~ | | | | |
| | ensure receiving personnel are available (Guide, pp 107- 108) | | | i | j | |
| • | Tepropriate leading and unloading lacilities are available (Guide, D 109) | | | | | |
| • | and the desiring sice is appropriate (Galde, p 103) | ~ | | | | |
| • | the state of separation by species, source, and neath status (Guide, DD 109, | 1 | - 3 | | | |
| • | <u> </u> | | 1.5 | | | |
| | Procedures in place for quarantine to include zoonoses prevention (Guide, p 110) | | - | | | |
| _ | separated (Guide, p 110) | レ | 1 | į | 9 | |
| • | Procedures in place for stabilization/acclimation (Guide, pp 110-111) | <u> </u> | | - 1 | | |
| • | Policies in place for isolation of sick animals (Guide, p 112) | 1/ | | | | |
| • | | 1 | 19 | 1 | | 97 |
| | Diagnostic resources are available for preventive health program (Guide, p 112) | 1 | * | 1 | | |
| 555 | | | o cod | i i | _ | |
| . S | urgery | A* | M | \$ | C | NA |
| • | Surgical outcomes are assessed and corrective changes instituted (Guide, p. 115) | ~ | | 7 | - TANG | |
| • | Researchers have appropriate training to ensure good technique (Guide, p 115) | V | | | - | |

| | • | Pre-surgical plans are developed and include veterinary input (e.g., location, supplies, anesthetic and analgesic use, peri-operative care, recordkeeping) (<i>Guide</i> , p 116) Aseptic surgery is conducted in dedicated facilities or spaces, unless exception justified | - | : | | 1 | |
|----|--------------------------|---|----------|---|--------|------------|----------------|
| | _ | and IACUC approved (Guide, p 116) | / | | | 1 | a a |
| | | Surgical procedures including laparoscopic procedures are categorized as major or minor (Guide, pp 117-118) | ~ | | | 1 | |
| | ٠ | For nonsurvival surgery, the site is clipped, gloves are worn and instruments and area are clean (Guide, p 118) | | | | 1 | |
| _ | • | Aseptic technique is followed for survival surgical procedures (Guide, pp 118-119) | / | | | į | |
| ĺ | • | Effective procedures for sterilizing instruments and monitoring expiration dates on sterile packs are in place (Guide, p 119) | レ | | | : | 1 |
| | ٠ | Procedures for monitoring surgical anesthesia and analgesia are in place (Guide, \underline{p} 119) | V | | - | Ĭ | and the second |
| | • | For aquatic species, skin surfaces are kept moist during surgical procedures (Guide, \underline{p} 119) | V | | | | |
| | • | Post-operative monitoring and care are provided by trained personnel and documented (e.g., thermoregulation, physiologic function, analgesia, infection, removal of skin closures) (<i>Guide</i> , pp 119-120) | V | | | | 1 |
| 4. | Pa | ain, Distress, Anesthesia and Analgesia | A* | 84 | s | _ | NA |
| | • | Guidelines for assessment and categorization of pain, distress and animal wellbeing are provided during training (Guide, p 121) | 1 | M | 3 |) (| NA. |
| | • | Selection of analgesics and anesthetics is based on professional veterinary judgment (Guide, p. 121) | 1 | | | | |
| | ٠ | Painful procedures are monitored to ensure appropriate analgesic management (Guide, p 122) | | | | | |
| | • | Nonpharmacologic control of pain is considered as an element of postprocedural care (Guide, p 122) | / | | | | |
| | • | Procedures are in place to assure antinoception before surgery begins (<i>Guide</i> , <u>p 122</u>) | | | | | |
| | • | Guidelines for selection and use of analgesics and anesthetics are in place and regularly reviewed and updated (Guide, p 122) | _ | | | | |
| | | Special precautions for the use of paralytics are in place to ensure anesthesia (Guide, p 123) | ~ | | | | |
| 5. | Eu | thanasia | | | | | |
| | • | Methods are consistent with AVMA Guidelines on Euthanasia unless approved by the IACUC (Guide, p 123) | <u></u> | M | S | C | NA |
| | • | Standardized methods are developed and approved by the veterinarian and IACUC that avoid distress and consider animal age and species (<i>Guide</i> , pp 123-124) Training is provided on appropriate methods for each species and considers | <u>ا</u> | | | | |
| | • | psychological stress to personnel (<i>Guide</i> , p 124) Procedures and training are in place to ensure death is confirmed (<i>Guide</i> , p 124) | ا ا | | | | 1 |
| 5. | Dr | ug Storage and Control NEW | | 24.3 | | (332) | |
| | • | Program complies with federal regulations for human and veterinary drugs(Guide, p | A | M | S | C | NA |
| | • | Drug records and storage procedures are reviewed during facility inspections (<i>Guide</i> , p. 115) | | | | | |
| | | Procedures are in place to ensure analgesics and anesthetics are used within expiration date (Guide, p 122) | 1 | *************************************** | | | |
| | • | Anesthetics and analgesics are acquired, stored, and their use and disposal are recorded legally and safely (Guide, p 122) | <u></u> | 3 | | | |
| ; | A = M = S = C = | acceptable minor deficiency significant deficiency (is or may be a threat to animal health or safety) change in program (PHS Policy IV.A.1.ai.) (include in semiannual report to IO and in annual repo not applicable | rt to | OLAV | V) | 1 | |

NOTES:

| IACUC Members Shanna Ivey, Chair | Signatures |
|----------------------------------|--|
| Tim Wright | — A——————————————————————————————————— |
| Trey Miller | _ ffish |
| Clint Löest | 11.7 |
| Colleen Caldwell | |
| Scott Eschenbrenner | |
| Erin Weich | |

Signature Page – OLAW Checklist

| IACUC Members | 2 Signatures |
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| Shanna Ivey, Chair | Shanna Clay |
| Tim Wright | 34 m |
| Trey Miller | |
| Clint Löest | -CH-+ |
| Colleen Caldwell | CA Cold |
| Scott Eschenbrenner | Sease Carlo |
| Erin Weich | 77 |

Signature Page – OLAW Checklist

| IACUC Members Shanna Ivey, Chair | Signatures | |
|-------------------------------------|--|-----------|
| Tim Wright | 1 | |
| Trey Miller | | |
| Clint Löest | 1 Table 2 Tabl | |
| Colleen Caldwell | 0 | |
| Scott Eschenbrenner | (1 | |
| Erin Weich | Tin Avey Weich | 20 Dec 21 |