

WASHINGTON STATE UNIVERSITY

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

Meeting minutes January 27th, 2021

Voting Members: MCt, NW, CC, SJ, MB, RK, JK, JW, LO, GR, ZW, SM, SN, AA, MHk

Alternate Members and Staff: AE, CH, KK, VC, MK (left at 3:58 pm)

Quorum: 15 of 22 voting members present

I. Call to Order

- Meeting called to order at 3:04 pm.

II. Full Committee Review and Approval

- *Minutes of December 2020 meeting*

The minutes of the last meeting were reviewed. There were no questions from the committee.

Committee action: By a majority vote of a quorum, the committee approved the minutes as written.

11 Approved, 0 Opposed, 4 Abstained

- *ASAF 6688 (Cage Size Exception to The Guide and Non-Compliance. Discussion Leaders: ~~S. Martinez~~SM, ~~N. Woodford~~NW)*

The IACUC Chair and the AWP Assistant Director gave an overview of the protocol. This is a mouse breeding protocol that had been previously approved for trio-breeding with pregnant females being separated prior to giving birth. A site visit in October found cages with multiple litters being housed in the same cage. The PI was notified and minor deficiency was noted on the IACUC inspection report. The research group separated the animals and personnel were retrained.

The current amendment was submitted to request a cage size exception to the *Guide* to allow multiple litters to be born in the same cage. The justification for the exception was that the strains of mice being bred have small litters and housing multiple dams together can be beneficial to the pups. There was also a discussion of breeding trials and that pups are often needed for research so removed before overcrowding would become an issue.

The ~~committee~~Committee discussed several items in the amendment that remained to be clarified by the PI, including: the purpose of the breeding trials, when pups will be removed from the cage, procedures for preventing overcrowding, justification for extended weaning time, and clarification on a separate protocol mentioned in the form narrative. The ~~committee~~Committee also reinforced that scientific justification for housing multiple litters needs to be clearly stated in the ~~protocol~~Protocol and that a maximum number of animals allowed per cage needs to be ~~established, but~~established but determined that this could be clarified via DMR.

Committee action: By a majority vote of a quorum, the committee motioned to send ASAF 6688 back to the DMR.

15 Approved, 0 Opposed, 0 Abstained

- *ASAF 6809 (PI's Request for IACUC to Reconsider Decision)*

The IACUC Chair and the AV gave an overview of the protocol and IACUC review history. This is a project that proposed conducting a standing flank laparotomy for abdominopelvic exploration in horses ~~in order to~~ treat colic and other abdominal conditions. The proposal was previously discussed and approval withheld by the IACUC due to outstanding, unresolved study concerns not addressed by the PI. The PI and Co-PI have recently submitted a request for the IACUC to reconsider the decision to withhold approval.

While the ~~committee~~ Committee agreed that stronger justification was provided by the PI, ~~they several still had~~ outstanding questions and concerns remained. A couple of solutions were discussed, including modifying the ~~protocol~~ Protocol to make the procedure shorter or performing a pilot study to collect more focused data regarding the subjects' physiological response to the procedure. It was also suggested that more data be acquired first, either through cadaver use or observing similar clinical procedures performed on horses with colic. Overall, it was determined that ~~not enough the evidenceevidence-based and non-evidence based justifications was provided by the PI did not fully answer the study concerns raised by the Committee to justify support for protocol approval. provided at this time to reconsider approval.~~

Committee action: By a majority vote of a quorum, the committee motioned to uphold the previous decision to withhold approval of ASAF 6809.

15 Approved, 0 Opposed, 0 Abstained

- *Policy #37: Reporting Adverse Events*

The AWP Assistant Director gave an overview of the ~~policy~~ Policy. This is a new policy that was formerly a guideline. It was transitioned to a policy in order to reinforce the need to report unanticipated adverse events. The ~~policy~~ Policy includes new definitions, an updated policy statement, and an outlined process of reporting adverse events, abnormal animals and incidents. There were a couple of suggestions and questions ~~discussed from~~ discussed from ~~by the committee~~ Committee that were incorporated into the Policy's text and answered by the AWP Assistant Director.

Committee action: By a majority vote of a quorum, the committee motioned to approve Policy #37 with changes.

15 Approved, 0 Opposed, 0 Abstained

- *Policy #36: Counting and Reporting Animal Use Numbers*

The AWP Assistant Director and the PAR Reviewer gave an overview of the ~~policy~~ Policy. This is a new policy that was formerly a guideline. It was transitioned to a policy in order to better clarify the expectations and responsibilities for reporting animal

numbers. There were a couple of suggestions and questions ~~discussed by from the~~ ~~committee~~Committee. It was determined that the policy needed further edits before approval, but these could be accomplished via DMR.

Committee action: By a majority vote of a quorum, the committee motioned to send Policy #36 to DMR

14 Approved, 0 Opposed, 0 Abstained, 1 Absent

III. Report by the Attending Veterinarian

- There were two adverse events received in January.
 - ASAF 6546: This protocol involves collection of biopsies to analyze annual patterns and changes in body function in captive bears. Recently, a female bear experienced some ~~bleeding-hemorrhage~~ from a biopsy site after routine collection of adipose tissue under sedation. The procedure was done according to the ~~protecol~~Protocol and procedure that have been followed for many years with no previous adverse events. The morning after the procedure, the bear was found with mild ~~bleeding-hemorrhage~~ at the biopsy site. The bear was treated and recovered without complications. The PI plans to update the ~~protecol~~Protocol to include ~~this-hemorrhage~~ as a potential adverse event and provide treatment options should this adverse event occur in the future.
 - ASAF 6686: This protocol uses laboratory mice to investigate the anti-tumoral properties of a photodynamic compound that is expected to destroy tumorous cells upon focal exposure to a laser beam. Five mice with tumorous cells received the photodynamic compound and were subsequently exposed to local laser treatment. Shortly after the procedure, the five mice were found lethargic and were euthanized. Tissue samples were collected and are currently being analyzed for abnormalities. The photodynamic compound dose and the duration of laser exposure have since been reduced and the next group of mice that ~~was-were~~ treated developed a transient mild lameness that was treated with analgesics and the affected mice recovered within a few days. An SOP was also developed to outline proper preparation, storage, and disposal of the ~~photodynamic~~ compound. The PI plans to submit an amendment in the future to address potential adverse effects related to the laser treatment.
- The AV presented the list of VVCs approved in January. There were no questions from the committee.
- The AV updated the committee on the following items:
 - ASAF 6816: This protocol was previously discussed by the IACUC, and involves bone implant surgeries on rats. A few adverse events occurred in the past where bone fractures occurred post-implant surgery. The group recently performed a pilot study with a modified protocol using ten rats. A smaller (~~4 mm~~) titanium

Commented [MSA1]: I think the size was 3.5 mm now?

implant and refined analgesia were used. No fractures or adverse events ~~were~~ have been observed with this new implant size.

- *Bustad Renovations:* The renovations are almost finished. Cougar Health Services is opening a wing of the Bustad vivarium for student Covid-19 testing and respiratory treatment on January 28th. The section will remain isolated from the rest of the vivarium so students and Cougar Health employees will not have access to active animal use areas.
- *Power Outage:* On December 31st, an AVISTA switch station experienced a power failure that affected six buildings on the Pullman campus. All emergency life support systems for aquatic species worked properly during the power outage and there were no adverse impacts on any animals.

IV. IACUC Activities

- *AAALAC Accreditation Site Visit*

The AWP Assistant Director gave an overview of the upcoming accreditation site visit by the Association for Assessment and Accreditation of Animal Care, International (AAALAC).

- *PHS Assurance*

The AWP Staff is currently working on updating the WSU PHS Assurance for its four-year renewal.

- *IACUC Public Member*

The WSU IACUC will soon be in need of a new public member. An announcement was made to the committee to help search for an appropriate candidate.

- There were two new records requests.

- Holding protocol: none.

V. Post-Approval Review Report

Reporting Period: December 17th, 2020 – January 27th, 2021

The PAR reviewer observed 2 deficiencies and recommended 5 VVCs this month during PARS. The two deficiencies were related to checks not being recorded and an outdated surgery record template being used.

PAR Totals			
E Class	D Class	C Class	B Class
4	10	5	0

Summary of Findings	
<i>Sx/ Aseptic Technique</i>	0
<i>Surgery/ Anesthesia/ Analgesia/ Medical Records</i>	1
<i>NonSx Proc</i>	0
<i>Drug & Chemicals</i>	4
<i>Personnel/ Training Records</i>	0
<i>Procedure Location</i>	1
<i>Husbandry/ Facility</i>	0
<i>Euthanasia</i>	0
<i>Protocol Amendments/VVC</i>	5
<i>Other</i>	1
<i># of Total Table Tops & Observations</i>	19

VI. Minority Report

VII. Adjournment

- Meeting adjourned at 4:58 pm.
15 Approved, 0 Opposed, 0 Abstained
- Future IACUC meeting dates –
 - 2021 (**Cue 512 or Zoom**): February 24th, March 31st, April 28th, May 26th, June 30th, July 28th

Appendix 1: Protocols Resolved since the last meeting

# New Protocols	#Amend	#Expired	#Annual Renewals	#VVC	#Adm. Amend
13	10	13	36	12	32

Appendix 2: IACUC Training since the last meeting

Training course	# Participants
<i>Principles of Animal Care (Formerly AAS)</i>	29

<i>Refresher: Principles of Animal Care</i>	6
<i>Occupational Health and Training-Animals</i>	16
<i>Satellite Animal Housing Location Training</i>	8
<i>Aseptic Surgical Technique Online</i>	8
<i>Aseptic Surgical Technique Hands-On</i>	3 + 3 DVM exemptions
<i>Basic Rodent Handling Hands-On (including euthanasia)</i>	3
<i>Rodent Euthanasia</i>	0
<i>Verification of Euthanasia Proficiency</i>	0
<i>IACUC SOP 9, 11, 12</i>	0
<i>Research Specific</i>	4
<i>Anesthesia (USDA-covered species)</i>	5
<i>Tubing Cattle and Sheep</i>	4
<i>Herd Health (species specific)</i>	0

Currently Under Review	Pending 6+ months
26	0

Appendix 3:
Protocols currently
under review

WASHINGTON STATE UNIVERSITY

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

Meeting minutes January 27th, 2021

Voting Members: MCt, NW, CC, SJ, MB, RK, JK, JW, LO, GR, ZW, SM, SN, AA, MHk

Alternate Members and Staff: AE, CH, KK, VC, MK (left at 3:58 pm)

Quorum: 15 of 22 voting members present

I. Call to Order

- Meeting called to order at 3:04 pm.

II. Full Committee Review and Approval

- *Minutes of December 2020 meeting*
The minutes of the last meeting were reviewed. There were no questions from the committee.

Committee action: By a majority vote of a quorum, the committee approved the minutes as written.

11 Approved, 0 Opposed, 4 Abstained

- *ASAF 6688 (Cage Size Exception to The Guide and Non-Compliance. Discussion Leaders: SM, NW)*
The IACUC Chair and the AWP Assistant Director gave an overview of the protocol. This is a mouse breeding protocol that had been previously approved for trio-breeding with pregnant females being separated prior to giving birth. A site visit in October found cages with multiple litters being housed in the same cage. The PI was notified and minor deficiency was noted on the IACUC inspection report. The research group separated the animals and personnel were retrained.

The current amendment was submitted to request a cage size exception to the *Guide* to allow multiple litters to be born in the same cage. The justification for the exception was that the strains of mice being bred have small litters and housing multiple dams together can be beneficial to the pups. There was also a discussion of breeding trials and that pups are often needed for research so removed before overcrowding would become an issue.

The Committee discussed several items in the amendment that remained to be clarified by the PI, including: the purpose of the breeding trials, when pups will be removed from the cage, procedures for preventing overcrowding, justification for extended weaning time, and clarification on a separate protocol mentioned in the form narrative. The Committee also reinforced that scientific justification for housing multiple litters needs to be clearly stated in the Protocol and that a maximum number of animals allowed per cage needs to be established but determined that this could be clarified via DMR.

Committee action: By a majority vote of a quorum, the committee motioned to send ASAF 6688 back to the DMR.

15 Approved, 0 Opposed, 0 Abstained

- *ASAF 6809 (PI's Request for IACUC to Reconsider Decision)*

The IACUC Chair and the AV gave an overview of the protocol and IACUC review history. This is a project that proposed conducting a standing flank laparotomy for abdominopelvic exploration in horses to treat colic and other abdominal conditions. The proposal was previously discussed and approval withheld by the IACUC due to outstanding, unresolved study concerns not addressed by the PI. The PI and Co-PI have recently submitted a request for the IACUC to reconsider the decision to withhold approval.

While the Committee agreed that stronger justification was provided by the PI, several outstanding questions and concerns remained. A couple of solutions were discussed, including modifying the Protocol to make the procedure shorter or performing a pilot study to collect more focused data regarding the subjects' physiological response to the procedure. It was also suggested that more data be acquired first, either through cadaver use or observing similar clinical procedures performed on horses with colic. Overall, it was determined that the evidence-based and non-evidence based justifications provided by the PI did not fully answer the study concerns raised by the Committee to justify support for protocol approval.

Committee action: By a majority vote of a quorum, the committee motioned to uphold the previous decision to withhold approval of ASAF 6809.

15 Approved, 0 Opposed, 0 Abstained

- *Policy #37: Reporting Adverse Events*

The AWP Assistant Director gave an overview of the Policy. This is a new policy that was formerly a guideline. It was transitioned to a policy in order to reinforce the need to report unanticipated adverse events. The Policy includes new definitions, an updated policy statement, and an outlined process of reporting adverse events, abnormal animals and incidents. There were a couple of suggestions and questions discussed by the Committee that were incorporated into the Policy's text and answered by the AWP Assistant Director.

Committee action: By a majority vote of a quorum, the committee motioned to approve Policy #37 with changes.

15 Approved, 0 Opposed, 0 Abstained

- *Policy #36: Counting and Reporting Animal Use Numbers*

The AWP Assistant Director and the PAR Reviewer gave an overview of the Policy. This is a new policy that was formerly a guideline. It was transitioned to a policy in order to better clarify the expectations and responsibilities for reporting animal numbers. There were a couple of suggestions and questions discussed by the Committee. It was

determined that the policy needed further edits before approval, but these could be accomplished via DMR.

Committee action: By a majority vote of a quorum, the committee motioned to send Policy #36 to DMR

14 Approved, 0 Opposed, 0 Abstained, 1 Absent

III. Report by the Attending Veterinarian

- There were two adverse events received in January.
 - *ASAF 6546*: This protocol involves collection of biopsies to analyze annual patterns and changes in body function in captive bears. Recently, a female bear experienced some hemorrhage from a biopsy site after routine collection of adipose tissue under sedation. The procedure was done according to the Protocol and procedure that have been followed for many years with no previous adverse events. The morning after the procedure, the bear was found with mild hemorrhage at the biopsy site. The bear was treated and recovered without complications. The PI plans to update the Protocol to include hemorrhage as a potential adverse event and provide treatment options should this occur in the future.
 - *ASAF 6686*: This protocol uses laboratory mice to investigate the anti-tumoral properties of a photodynamic compound that is expected to destroy tumorous cells upon focal exposure to a laser beam. Five mice with tumor cells received the photodynamic compound and were subsequently exposed to local laser treatment while under anesthesia. Shortly after the procedure, the five mice were found lethargic and were euthanized. Tissue samples were collected and are currently being analyzed for abnormalities. The photodynamic compound dose and the duration of laser exposure have since been reduced and the next group of mice that were treated developed a transient mild lameness that was treated with analgesics and the affected mice recovered within a few days. An SOP was also developed to outline proper preparation, storage, and disposal of the photodynamic compound. The PI plans to submit an amendment in the future to address potential adverse effects related to the laser treatment.
- The AV presented the list of VVCs approved in January. There were no questions from the committee.
- The AV updated the committee on the following items:
 - *ASAF 6816*: This protocol was previously discussed by the IACUC, and involves bone implant surgeries on rats. A few adverse events occurred in the past where bone fractures occurred post-implant surgery. The group recently performed a pilot study with a modified protocol using ten rats. A smaller titanium implant and refined analgesia were used. No fractures or adverse events have been observed with this new implant size.

- *Bustad Renovations:* The renovations are almost finished. Cougar Health Services is opening a wing of the Bustad vivarium for student Covid-19 testing and respiratory treatment on January 28th. The section will remain isolated from the rest of the vivarium so students and Cougar Health employees will not have access to active animal use areas.
- *Power Outage:* On December 31st, an AVISTA switch station experienced a power failure that affected six buildings on the Pullman campus. All emergency life support systems for aquatic species worked properly during the power outage and there were no adverse impacts on any animals.

IV. IACUC Activities

- *AAALAC Accreditation Site Visit*

The AWP Assistant Director gave an overview of the upcoming accreditation site visit by the Association for Assessment and Accreditation of Animal Care, International (AAALAC).

- *PHS Assurance*

The AWP Staff is currently working on updating the WSU PHS Assurance for its four-year renewal.

- *IACUC Public Member*

The WSU IACUC will soon be in need of a new public member. An announcement was made to the committee to help search for an appropriate candidate.

- There were two new records requests.

- Holding protocol: none.

V. Post-Approval Review Report

Reporting Period: December 17th, 2020 – January 27th, 2021

The PAR reviewer observed 2 deficiencies and recommended 5 VVCs this month during PARS. The two deficiencies were related to checks not being recorded and an outdated surgery record template being used.

PAR Totals			
E Class	D Class	C Class	B Class
4	10	5	0

Summary of Findings

<i>Sx/ Aseptic Technique</i>	0
<i>Surgery/ Anesthesia/ Analgesia/ Medical Records</i>	1
<i>NonSx Proc</i>	0
<i>Drug & Chemicals</i>	4
<i>Personnel/ Training Records</i>	0
<i>Procedure Location</i>	1
<i>Husbandry/ Facility</i>	0
<i>Euthanasia</i>	0
<i>Protocol Amendments/VVC</i>	5
<i>Other</i>	1
<i># of Total Table Tops & Observations</i>	19

VI. Minority Report

VII. Adjournment

- Meeting adjourned at 4:58 pm.
15 Approved, 0 Opposed, 0 Abstained
- Future IACUC meeting dates –
 - 2021 (**Cue 512 or Zoom**): February 24th, March 31st, April 28th, May 26th, June 30th, July 28th

Appendix 1: Protocols Resolved since the last meeting

# New Protocols	#Amend	#Expired	#Annual Renewals	#VVC	#Adm. Amend
13	10	13	36	12	32

Appendix 2: IACUC Training since the last meeting

Training course	# Participants
<i>Principles of Animal Care (Formerly AAS)</i>	29
<i>Refresher: Principles of Animal Care</i>	6

<i>Occupational Health and Training-Animals</i>	16
<i>Satellite Animal Housing Location Training</i>	8
<i>Aseptic Surgical Technique Online</i>	8
<i>Aseptic Surgical Technique Hands-On</i>	3 + 3 DVM exemptions
<i>Basic Rodent Handling Hands-On (including euthanasia)</i>	3
<i>Rodent Euthanasia</i>	0
<i>Verification of Euthanasia Proficiency</i>	0
<i>IACUC SOP 9, 11, 12</i>	0
<i>Research Specific</i>	4
<i>Anesthesia (USDA-covered species)</i>	5
<i>Tubing Cattle and Sheep</i>	4
<i>Herd Health (species specific)</i>	0

Appendix 3:
Protocols currently
under review

Currently Under Review	Pending 6+ months
26	0

WASHINGTON STATE UNIVERSITY

INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

Meeting minutes January 27th, 2021

Voting Members: MCt, NW, CC, SJ, MB, RK, JK, JW, LO, GR, ZW, SM, SN, AA, MHk

Alternate Members and Staff: AE, CH, KK, VC, MK (left at 3:58 pm)

Quorum: 15 of 22 voting members present

I. Call to Order

- Meeting called to order at 3:04 pm.

II. Full Committee Review and Approval

- *Minutes of December 2020 meeting*
The minutes of the last meeting were reviewed. There were no questions from the committee.

Committee action: By a majority vote of a quorum, the committee approved the minutes as written.

11 Approved, 0 Opposed, 4 Abstained

- *ASAF 6688 (Cage Size Exception to The Guide and Non-Compliance. Discussion Leaders: S. Martinez, N. Woodford)*
The IACUC Chair and the AWP Assistant Director gave an overview of the protocol. This is a mouse breeding protocol that had been previously approved for trio-breeding with pregnant females being separated prior to giving birth. A site visit in October found cages with multiple litters being housed in the same cage. The PI was notified and minor deficiency was noted on the IACUC inspection report. The research group separated the animals and personnel were retrained.

The current amendment was submitted to request a cage size exception to the *Guide* to allow multiple litters to be born in the same cage. The justification for the exception was that the strains of mice being bred have small litters and housing multiple dams together can be beneficial to the pups. There was also a discussion of breeding trials and that pups are often needed for research so removed before overcrowding would become an issue.

The committee discussed several items in the amendment that remained to be clarified, including: the purpose of the breeding trials, when pups will be removed from the cage, procedures for preventing overcrowding, justification for extended weaning time, and clarification on a separate protocol mentioned in the form narrative. The committee also reinforced that scientific justification for housing multiple litters needs to be clearly stated in the protocol and that a maximum number of animals allowed per cage needs to be established, but determined that this could be clarified via DMR.

Committee action: By a majority vote of a quorum, the committee motioned to send ASAF 6688 to DMR.

15 Approved, 0 Opposed, 0 Abstained

- *ASAF 6809 (PI's Request for IACUC to Reconsider Decision)*

The IACUC Chair and the AV gave an overview of the protocol and IACUC review history. This is a project that proposed conducting a standing flank laparotomy for abdominopelvic exploration in horses in order to treat colic and other conditions. The proposal was previously discussed and approval withheld by the IACUC due to outstanding, unresolved concerns. The PI and Co-PI have recently submitted a request for the IACUC to reconsider the decision to withhold approval.

While the committee agreed that stronger justification was provided, they still had outstanding questions and concerns. A couple of solutions were discussed, including modifying the protocol to make the procedure shorter or performing a pilot study. It was also suggested that more data be acquired first, either through cadaver use or observing similar clinical procedures performed on horses with colic. Overall, it was determined that not enough evidence was provided at this time to reconsider approval.

Committee action: By a majority vote of a quorum, the committee motioned to uphold the previous decision to withhold approval of ASAF 6809.

15 Approved, 0 Opposed, 0 Abstained

- *Policy #37: Reporting Adverse Events*

The AWP Assistant Director gave an overview of the policy. This is a new policy that was formerly a guideline. It was transitioned to a policy in order to reinforce the need to report unanticipated adverse events. The policy includes new definitions, an updated policy statement, and an outlined process of reporting adverse events, abnormal animals and incidents. There were a couple of suggestions and questions from the committee that were incorporated into the text and answered by the AWP Assistant Director.

Committee action: By a majority vote of a quorum, the committee motioned to approve Policy #37 with changes.

15 Approved, 0 Opposed, 0 Abstained

- *Policy #36: Counting and Reporting Animal Use Numbers*

The AWP Assistant Director and the PAR Reviewer gave an overview of the policy. This is a new policy that was formerly a guideline. It was transitioned to a policy in order to better clarify the expectations and responsibilities for reporting animal numbers. There were a couple of suggestions and questions from the committee. It was determined that the policy needed further edits before approval, but these could be accomplished via DMR.

Committee action: By a majority vote of a quorum, the committee motioned to send Policy #36 to DMR

III. Report by the Attending Veterinarian

- There were two adverse events received in January.
 - *ASAF 6546*: This protocol involves collection of biopsies to analyze annual patterns and changes in body function in captive bears. Recently, a female bear experienced some bleeding from a biopsy site after routine collection of adipose tissue under sedation. The procedure was done according to the protocol and procedure that have been followed for many years with no previous adverse events. The morning after the procedure, the bear was found with mild bleeding at the biopsy site. The bear was treated and recovered without complications. The PI plans to update the protocol to include this as a potential adverse event and provide treatment options.
 - *ASAF 6686*: This protocol uses laboratory mice to investigate the anti-tumoral properties of a photodynamic compound that is expected to destroy tumorous cells upon focal exposure to a laser beam. Five mice with tumorous cells received the photodynamic compound and were subsequently exposed to local laser treatment. Shortly after the procedure, the five mice were found lethargic and were euthanized. Tissue samples were collected and are currently being analyzed for abnormalities. The photodynamic compound dose and the duration of laser exposure have since been reduced and the next group of mice that was treated developed a transient mild lameness that was treated with analgesics and recovered within a few days. An SOP was also developed to outline proper preparation, storage, and disposal of the compound. The PI plans to submit an amendment in the future to address potential adverse effects related to the laser treatment.
- The AV presented the list of VVCs approved in January. There were no questions from the committee.
- The AV updated the committee on the following items:
 - *ASAF 6816*: This protocol was previously discussed by the IACUC, and involves bone implant surgeries on rats. A few adverse events occurred in the past where bone fractures occurred post-implant surgery. The group recently performed a pilot study with a modified protocol using ten rats. A smaller (4 mm) titanium implant and refined analgesia were used. No fractures or adverse events were observed.
 - *Bustad Renovations*: The renovations are almost finished. Cougar Health Services is opening a wing of the Bustad vivarium for student Covid-19 testing and respiratory treatment on January 28th. The section will remain isolated from the rest of the vivarium so students and Cougar Health employees will not have access to active animal use areas.

- *Power Outage:* On December 31st, an AVISTA switch station experienced a power failure that affected six buildings on the Pullman campus. All emergency life support systems for aquatic species worked properly during the power outage and there were no adverse impacts on any animals.

IV. IACUC Activities

- *AAALAC Accreditation Site Visit*

The AWP Assistant Director gave an overview of the upcoming accreditation site visit by the Association for Assessment and Accreditation of Animal Care, International (AAALAC).

- *PHS Assurance*

The AWP Staff is currently working on updating the WSU PHS Assurance for its four-year renewal.

- *IACUC Public Member*

The WSU IACUC will soon be in need of a new public member. An announcement was made to the committee to help search for an appropriate candidate.

- There were two new records requests.

- Holding protocol: none.

V. Post-Approval Review Report

Reporting Period: December 17th, 2020 – January 27th, 2021

The PAR reviewer observed 2 deficiencies and recommended 5 VVCs this month during PARS. The two deficiencies were related to checks not being recorded and an outdated surgery record template being used.

PAR Totals			
E Class	D Class	C Class	B Class
4	10	5	0

Summary of Findings	
<i>Sx/ Aseptic Technique</i>	0
<i>Surgery/ Anesthesia/ Analgesia/ Medical Records</i>	1
<i>NonSx Proc</i>	0

<i>Drug & Chemicals</i>	4
<i>Personnel/ Training Records</i>	0
<i>Procedure Location</i>	1
<i>Husbandry/ Facility</i>	0
<i>Euthanasia</i>	0
<i>Protocol Amendments/VVC</i>	5
<i>Other</i>	1
<i># of Total Table Tops & Observations</i>	19

VI. Minority Report

VII. Adjournment

- Meeting adjourned at 4:58 pm.
15 Approved, 0 Opposed, 0 Abstained
- Future IACUC meeting dates –
 - 2021 (**Cue 512 or Zoom**): February 24th, March 31st, April 28th, May 26th, June 30th, July 28th

Appendix 1: Protocols Resolved since the last meeting

# New Protocols	#Amend	#Expired	#Annual Renewals	#VVC	#Adm. Amend
13	10	13	36	12	32

Appendix 2: IACUC Training since the last meeting

Training course	# Participants
<i>Principles of Animal Care (Formerly AAS)</i>	29
<i>Refresher: Principles of Animal Care</i>	6
<i>Occupational Health and Training-Animals</i>	16
<i>Satellite Animal Housing Location Training</i>	8
<i>Aseptic Surgical Technique Online</i>	8
<i>Aseptic Surgical Technique Hands-On</i>	3

	+ 3 DVM exemptions
<i>Basic Rodent Handling Hands-On (including euthanasia)</i>	3
<i>Rodent Euthanasia</i>	0
<i>Verification of Euthanasia Proficiency</i>	0
<i>IACUC SOP 9, 11, 12</i>	0
<i>Research Specific</i>	4
<i>Anesthesia (USDA-covered species)</i>	5
<i>Tubing Cattle and Sheep</i>	4
<i>Herd Health (species specific)</i>	0

Appendix 3: Protocols currently under review

Currently Under Review	Pending 6+ months
26	0