

# WASHINGTON STATE UNIVERSITY

## INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

### Meeting minutes March 30th, 2022

*Voting Members:* MCt, NW, MM, LF (Left 3:55pm. Rejoined 5:02pm), MJH, MS, GC (OCV Veterinary Alternate), MB, CC, SJ, AA (Left 5:35pm), KW, SN, MC, GG, LO (Left 5:00pm)

*Alternate Members and Staff:* AE, CH, KK, MK (alternate)

*Quorum:* 16 of 20 voting members present

#### **I. Call to Order**

- Meeting called to order at 3:00 pm.

#### **II. Full Committee Review and Approval**

- *Minutes of February 2022 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 passed a motion to approve the minutes as written.

15 Approved, 0 Opposed, 1 Abstained

- *ASAF 6509 (Light Cycle and Cage Change Exceptions to the Guide)*

The AV gave an overview of the protocol. This is a three-year renewal for a study that uses mice to study sleep behaviors. Exceptions to *the Guide* were requested to house mice on continuous light or continuous dark cycles for 10-15 days to alter circadian rhythms and to only perform cage changes every 15 days during the dark cycles. Ammonia testing was performed for a prior study to ensure there is not excessive build up between cage changes. The research group was requested during a recent IACUC Site Visit to perform the ammonia testing for this study. The results will be reported at a future IACUC meeting.

The committee discussed the protocol and asked questions. There were no major concerns with the requested exceptions, and it was determined that additional revisions could be addressed via DMR.

Committee action: By a majority vote of a quorum, the committee passed a motion to send ASAF 6509 to DMR.

16 Approved, 0 Opposed, 0 Abstained

- *ASAF 6468 (Husbandry and Feeding on Floor Exceptions to the Guide)*

The AV gave an overview of the protocol. This is a three-year renewal for a stock protocol that houses bears utilized for various research studies at WSU. To allow natural behaviors for the bears, exceptions to *the Guide* were requested. These exceptions included monitoring the bears remotely during hibernation with reduced husbandry (i.e. no routine feeding or cleaning) and feed the bears on the floor during the active season. The bears are examined prior to hibernation to ensure they are at an appropriate weight and in good health.

The committee discussed the protocol. There were no concerns regarding the requested exceptions to *the Guide*, but it was mentioned that the bears are sometimes fed outdated commercial feed. While the bears predominantly eat within expiration date bear chow, it was decided that there should be additional discussion regarding the usage of outdated feed. There was also a question regarding the use of bears in foraging studies and the fasting occurring around hibernation. It was determined that these clarifications would be gathered via DMR.

Committee action: By a majority vote of a quorum, the committee passed a motion to send ASAF 6468 to DMR.

15 Approved, 0 Opposed, 0 Abstained, 1 Absent

- *ASAF 6495 (Pen Cleaning Exception to the Guide)*

The AV gave an overview of the protocol. This is a three-year renewal for an elk breeding and holding protocol. The protocol requests an exception to *the Guide* to reduce the frequency of pen cleaning to once every 2-4 weeks to minimize stress for newly acquired wild elk. Pens are cleaned more frequently as the elk become acclimated and most elk are housed out in pasture.

The committee discussed the protocol. OCV has monitored pen cleanliness over the past couple of years and it was found that it has remained within acceptable limits along with successfully reducing animal stress. There were no concerns regarding the protocol or requested exceptions.

Committee action: By a majority vote of a quorum, the committee passed a motion to approve ASAF 6495.

16 Approved, 0 Opposed, 0 Abstained

### **III. Report by the Attending Veterinarian**

- There was one new Adverse Event reported in March 2022, which will be discussed under *IACUC Activities*.
- The AV and OCV Vets presented the list of VVCs approved in March 2022. There was one question from the committee.

- The AV and OCV Vets updated the committee on the following items:
  - *Spokane Position:* The veterinarian position in Spokane is open and the search for a qualified applicant is continuing.
  - *Castration Project:* This is a project occurring on the beef cattle stock protocol, ASAF 6742. An amendment was previously approved to add banding as a castration method for older animals with a request that the PI perform a comparison of surgical and banding castration methods. Based on monitoring of weight, feed consumption, and overall behavior, the two methods were found to be equivalent. The surgical castration group experienced some minor complications post-procedure, which were treated without further issues. The committee asked some questions that the AV and AWP Assistant Director answered. There were no concerns with the group continuing to use either method, but it was requested that additional post-procedure monitoring details be provided within the protocol.

#### IV. IACUC Activities

- Holding protocol: None
- Non-Compliance
  - *ASAF 6782:* This is a research protocol utilizing mice. Sixteen mice underwent surgery for an intracranial microinjection of LPS-RS. Four mice died the day of surgery. The remaining twelve mice recovered but several were noted to have open incisions the following day and all were subsequently euthanized. Upon further investigation, it was found that the research group was not performing adequate anesthesia due to incorrect use of the isoflurane machine. It was also discovered that surgical instruments were not being properly sterilized, the bupivacaine was expired and animals were not being shaved prior to surgery. The above points were found to be deviations from the approved protocol. The research group has since undergone additional training for the use of the anesthesia machine and surgical technique, and the protocol language has been amended. The anesthesia machine was also serviced by a professional company.

The committee discussed the non-compliance/adverse event, and it was determined that additional training and oversight must occur. It was recommended that surgeries be suspended until an adequate plan was submitted by the PI. The AWP and OCV will follow up with the group and a letter will be sent regarding the non-compliance.

Committee action: By a majority vote of a quorum, the committee passed a motion to suspend survival surgeries occurring under ASAFs 6782 and 6682 until an adequate corrective action plan is provided

15 Approved, 0 Opposed, 0 Abstained

- *Publications:* There has been a recent IACUC sub-committee review of a PI's publications after it was found that multiple research studies were performed without IACUC review/approval. The PI indicated that they believed that the studies were exempt since they were conducted in privately owned animals at privately owned facilities with owner-consent, referencing IACUC Policies #7 & #21. The AWP Assistant Director gave an overview of the sub-committee's findings which determined these studies did not meet the requirements for exemption as defined in IACUC Policies #7 and #21 that were applicable at the time the studies were conducted.

The committee discussed the non-compliance, and it was determined that additional retraining and oversight must occur. The committee indicated that if the PI chose to appeal the noncompliance finding, the PI be invited to a future IACUC meeting to better explain their reasonings for believing the studies were exempt. In the meantime, a letter will be issued to require retraining and that the PI send all abstracts for future projects to the AWP to determine if IACUC approval is required or if the work is exempt in advance of initiating new projects.

Committee action: By a majority vote of a quorum, the committee passed a motion to send a letter of non-compliance outlining the corrective action plan for the PI of the discussed publications/studies.

15 Approved, 0 Opposed, 0 Abstained

- Spring Site Visits  
Scheduling of the Spring site visits is currently underway. The Spokane and Vancouver/Tri-Cities/Puyallup site visits have already occurred, and the Pullman site visits will begin in April.
- Harassment Training HRS Requirement  
The AWP Assistant Director gave an overview of the new requirement. Per HRS and the Office of Research, all PIs and Co-I's must complete this training prior to protocol approval.
- AAALAC Celebration  
There will be a gathering to celebrate WSU's continued AAALAC full accreditation.

**V. Post-Approval Review Report**

Reporting Period: February 24<sup>th</sup>, 2022 – March 30<sup>th</sup>, 2022

The PAR Reviewer did not have any updates for this reporting period.

PAR Totals			
E Class	D Class	C Class	B Class
0	3	13	1

Summary of Findings	
<i>Sx/ Aseptic Technique</i>	0
<i>Surgery/ Anesthesia/ Analgesia/ Medical Records</i>	0
<i>NonSx Proc</i>	0
<i>Drug &amp; Chemicals</i>	0
<i>Personnel/ Training Records</i>	0
<i>Procedure Location</i>	0
<i>Husbandry/ Facility</i>	0
<i>Euthanasia</i>	0
<i>Protocol Amendments/VVC</i>	0
<i>Other</i>	0
<i># of Total Table Tops &amp; Observations &amp; Observations or Administrative Reviews</i>	3

**VI. Minority Report****VII. Adjournment**

- Meeting adjourned at 5:37 PM.  
14 Approved, 0 Opposed, 0 Abstained
- Future IACUC meeting dates –

- **2022 (Neil 416/ Zoom):** April 27<sup>th</sup>, May 25<sup>th</sup>, June 29<sup>th</sup>, July 27<sup>th</sup>, August 31<sup>st</sup>, September 28<sup>th</sup>

#### Appendix 1: Protocols Resolved since the last meeting

# New Protocols	#Amend	#Expired	#Annual Renewals	#VVC	#Adm. Amend
21	19	4	28	5	31

#### Appendix 2: IACUC Training since the last meeting

Training course	# Participants
<i>Principles of Animal Care (Formerly AAS)</i>	14
<i>Refresher: Principles of Animal Care</i>	3
<i>Occupational Health and Training-Animals</i>	50
<i>Satellite Animal Housing Location Training</i>	5
<i>Aseptic Surgical Technique Online</i>	3
<i>Aseptic Surgical Technique Hands-On</i>	3 + 2 Refreshers
<i>Basic Rodent Handling Hands-On (including euthanasia)</i>	0
<i>IACUC SOP 9, 11, 12</i>	0
<i>Research Specific</i>	1
<i>Euthanasia</i>	0
<i>Verification of Proficiency – Physical Euthanasia Methods</i>	0
<i>Other:</i>	0

#### Appendix 3: Protocols currently under review

Currently Under Review	Pending 6+ months
23	1

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Committee action: By a majority vote of a quorum, the committee passed a motion to approve the minutes as written.

15 Approved, 0 Opposed, 1 Abstained

- *ASAF 6509 (Light Cycle and Cage Change Exceptions to the Guide)*

The AV gave an overview of the protocol. This is a three-year renewal for a study that uses mice to study sleep behaviors. Exceptions to *the Guide* were requested to house mice on continuous light or continuous dark cycles for 10-15 days to alter circadian rhythms and to only perform cage changes every 15 days during the dark cycles.

Ammonia testing was performed for a prior study to ensure there is not excessive build up between cage changes. ~~It was requested for this study however, had not yet occurred~~

The research group was requested ~~to perform the ammonia testing~~ during a recent IACUC Site Visit to perform the ammonia testing for this study. ~~and~~ The results will be reported at a future IACUC meeting.

The committee discussed the protocol and asked questions. There were no major concerns with the requested exceptions, and it was determined that additional revisions could be addressed via DMR.

Committee action: By a majority vote of a quorum, the committee passed a motion to send ASAF 6509 to DMR.

16 Approved, 0 Opposed, 0 Abstained

- *ASAF 6468 (Husbandry and Feeding on Floor Exceptions to the Guide)*

The AV gave an overview of the protocol. This is a three-year renewal for a stock protocol that houses bears utilized for various research studies at WSU. To allow natural behaviors for the bears, exceptions to *the Guide* were requested. These exceptions included to only be required to monitoring the bears remotely during hibernation with reduced husbandry (i.e. no routine feeding or cleaning) and ~~to feed~~ the bears on the floor during the active season. The bears are examined prior to hibernation to ensure they are at an appropriate weight and in good health.

The committee discussed the protocol. There were no concerns regarding the requested exceptions to *the Guide*, but it was mentioned that the bears are sometimes fed outdated commercial feed. While the bears predominantly eat within expiration date bear chow, it was decided that there should be additional discussion regarding the usage of outdated feed. There was also a question regarding the use of bears in foraging studies and the fasting occurring around hibernation. It was determined that these clarifications would be gathered via DMR.

Committee action: By a majority vote of a quorum, the committee passed a motion to send ASAF 6468 to DMR.

15 Approved, 0 Opposed, 0 Abstained, 1 Absent

- *ASAF 6495 (Pen Cleaning Exception to the Guide)*

The AV gave an overview of the protocol. This is a three-year renewal for an elk breeding and holding protocol. The protocol requests an exception to *the Guide* to ~~only be required to~~ reduce the frequency of pen cleaning ~~pen to~~ once every 2-4 weeks to reduce-minimize disturbances-stress for newly acquired wild elk. Pens are cleaned more frequently as the elk become acclimated and most elk are housed out in pasture.

The committee discussed the protocol. OCV has monitored pen cleanliness over the past couple of years and it was found that it has remained within acceptable limits along with successfully reducing animal stress. There were no concerns regarding the protocol or requested exceptions.

Committee action: By a majority vote of a quorum, the committee passed a motion to approve ASAF 6495.

16 Approved, 0 Opposed, 0 Abstained

### III. Report by the Attending Veterinarian

- There was one new Adverse Event reported in March 2022, which will be discussed under *IACUC Activities*.



- The AV and OCV Vets presented the list of VVCs approved in March 2022. There was one question from the committee.
- The AV and OCV Vets updated the committee on the following items:
  - *Spokane Position:* The veterinarian position in Spokane is open and the search for aa qualified applicant is ~~being searched for~~continuing.
  - *Castration Project:* This is a project occurring on the beef cattle stock protocol, ASAF 6742. An amendment was previously approved to add banding as a castration method for older animals with a request that the PI perform a study comparing comparison of surgical and banding castration methods. Based on monitoring of weight, feed consumption, and overall behavior, the two methods were found to be equivalent. The surgical castration group experienced some minor complications post-procedure, which were treated without further issues. The committee asked ~~a couple of~~some questions that the AV and AWP Assistant Director answered. There were no concerns with the group continuing to use ~~both either~~ methods, but it was requested that additional post-procedure monitoring details be provided within the protocol.

#### IV. IACUC Activities

- Holding protocol: None
- Non-Compliance
  - ASAF 6782: This is a research protocol utilizing mice. Sixteen mice underwent surgery for an ~~i.e. intracranial~~ microinjection of LPS-RS. Four mice ~~passed away~~dies the day of surgery. The remained twelve mice recovered but several were noted to have open incisions the following day and all were subsequently euthanized. Upon further investigation, it was found that research group was not performing adequate anesthesia due ~~to not knowing how to~~ incorrect use ~~use of~~ the isoflurane machine. It was also discovered that surgical instruments were not being properly sterilized, the bupivacaine was expired and ~~that~~ animals were not being shaved prior to surgery. The above points were found to be deviations from the approved protocol. The research group has since undergone additional training for the use of the anesthesia machine and surgical technique, and the protocol language has been amended. The anesthesia machine was also serviced by a professional company.

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by the PI. The AWP and OCV will follow up with the group and a letter will be sent regarding the non-compliance.

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○ AAALAC Celebration

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**VI. Minority Report**

## VII. Adjournment

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<i>Basic Rodent Handling Hands-On (including euthanasia)</i>	0
<i>IACUC SOP 9, 11, 12</i>	0
<i>Research Specific</i>	1
<i>Euthanasia</i>	0
<i>Verification of Proficiency – Physical Euthanasia Methods</i>	0
<i>Other:</i>	0

#### Appendix 3: Protocols currently under review

Currently Under Review	Pending 6+ months
23	1

# WASHINGTON STATE UNIVERSITY

## INSTITUTIONAL ANIMAL CARE AND USE COMMITTEE

### Meeting minutes March 30th, 2022

*Voting Members:* MCt, NW, MM, LF (Left 3:55pm. Rejoined 5:02pm), MJH, MS, GC (OCV Veterinary Alternate), MB, CC, SJ, AA (Left 5:35pm), KW, SN, MC, GG, LO (Left 5:00pm)

*Alternate Members and Staff:* AE, CH, KK, MK (alternate)

*Quorum:* 16 of 20 voting members present

#### **I. Call to Order**

- Meeting called to order at 3:00 pm.

#### **II. Full Committee Review and Approval**

- *Minutes of February 2022 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 passed a motion to approve the minutes as written.

15 Approved, 0 Opposed, 1 Abstained

- *ASAF 6509 (Light Cycle and Cage Change Exceptions to the Guide)*

The AV gave an overview of the protocol. This is a three-year renewal for a study that uses mice to study sleep behaviors. Exceptions to *the Guide* were requested to house mice on continuous light or continuous dark cycles for 10-15 days to alter circadian rhythms and to only perform cage changes every 15 days during the dark cycles.

Ammonia testing was performed for a prior study to ensure there is not excessive build up between cage changes. It was requested for this study however, had not yet occurred

The research group was requested to perform the ammonia testing during a recent IACUC Site Visit and the results will be reported at a future IACUC meeting.

The committee discussed the protocol and asked questions. There were no major concerns with the requested exceptions, and it was determined that additional revisions could be addressed via DMR.

Committee action: By a majority vote of a quorum, the committee passed a motion to send ASAF 6509 to DMR.

16 Approved, 0 Opposed, 0 Abstained

- *ASAF 6468 (Husbandry and Feeding on Floor Exceptions to the Guide)*

The AV gave an overview of the protocol. This is a three-year renewal for a stock protocol that houses bears utilized for various research studies at WSU. To allow natural behaviors for the bears, exceptions to *the Guide* were requested to only be required to monitor bears remotely during hibernation with reduced husbandry (no routine feeding or cleaning) and to feed on the floor during active season. The bears are examined prior to hibernation to ensure they are at an appropriate weight and in good health.

The committee discussed the protocol. There were no concerns regarding the requested exceptions to *the Guide*, but it was mentioned that the bears are sometimes fed outdated feed. While the bears predominantly eat in date bear chow, it was decided that there should be additional discussion regarding the usage of outdated feed. There was also a question regarding the use of bears in foraging studies and the fasting occurring around hibernation. It was determined that these clarifications be gathered via DMR.

Committee action: By a majority vote of a quorum, the committee passed a motion to send ASAF 6468 to DMR.

15 Approved, 0 Opposed, 0 Abstained, 1 Absent

- *ASAF 6495 (Pen Cleaning Exception to the Guide)*

The AV gave an overview of the protocol. This is a three-year renewal for an elk breeding and holding protocol. The protocol requests an exception to *the Guide* to only be required to clean pens once every 2-4 weeks to reduce disturbances for newly acquired wild elk. Pens are cleaned more frequently as the elk become acclimated and most elk are housed out in pasture.

The committee discussed the protocol. OCV has monitored pen cleanliness over the past couple of years and it was found that it has remained within acceptable limits along with successfully reducing animal stress. There were no concerns regarding the protocol or requested exceptions.

Committee action: By a majority vote of a quorum, the committee passed a motion to approve ASAF 6495.

16 Approved, 0 Opposed, 0 Abstained

### **III. Report by the Attending Veterinarian**

- There was one new Adverse Event reported in March 2022, which will be discussed under *IACUC Activities*.
- The AV and OCV Vets presented the list of VVCs approved in March 2022. There was one question from the committee.
- The AV and OCV Vets updated the committee on the following items:

- *Spokane Position:* The veterinarian position in Spokane is open and a qualified applicant is being searched for.
- *Castration Project:* This is a project occurring on the beef cattle stock protocol, ASAF 6742. An amendment was previously approved to add banding as a castration method for older animals with a request that the PI perform a study comparing surgical and banding castration methods. Based on monitoring of weight, feed consumption, and overall behavior, the two methods were found to be equivalent. The surgical castration group experienced some minor complications post-procedure, which were treated without issues. The committee asked a couple of questions that the AV and AWP Assistant Director answered. There were no concerns with the group continuing to use both methods, but it was requested that additional post-procedure monitoring details be provided within the protocol.

#### IV. IACUC Activities

- Holding protocol: None
- Non-Compliance
  - *ASAF 6782:* This is a research protocol utilizing mice. Sixteen mice underwent surgery for an i.c.v. microinjection of LPS-RS. Four mice passed away the day of surgery. The remained twelve mice recovered but several were noted to have open incisions the following day and all subsequently euthanized. Upon further investigation, it was found that research group was not performing adequate anesthesia due to not knowing how to use the isoflurane machine. It was also discovered that surgical instruments were not being properly sterilized, the bupivacaine was expired and that animals were not being shaved prior to surgery. The above points were found to be deviations from the approved protocol. The research group has since undergone additional training for the use of the anesthesia machine and surgical technique, and the protocol language has been amended. The anesthesia machine was also serviced by a professional company.

The committee discussed the non-compliance/adverse event, and it was determined that additional training and oversight must occur. It was recommended that surgeries be suspended until an adequate plan was submitted by the PI. The AWP and OCV will follow up with the group and a letter will be sent regarding the non-compliance.

Committee action: By a majority vote of a quorum, the committee passed a motion to suspend survival surgeries occurring under ASAFs 6782 and 6682 until an adequate corrective action plan is provided

15 Approved, 0 Opposed, 0 Abstained

- *Publications:* There has been a recent IACUC sub-committee review of a PI's publications after it was found that multiple research studies were performed without IACUC review/approval. The PI indicated they believed that the studies were exempt since they were conducted in privately owned animals, referencing IACUC Policy 7&21. The AWP Assistant Director gave an overview of the sub-committee's findings which determined these studies did not meet the requirements for IACUC exemption defined in IACUC Policies #7 and #21 as written at the time the studies were conducted.

The committee discussed the non-compliance, and it was determined that additional retraining and oversight must occur. The committee indicated that the PI chose to appeal the noncompliance finding that the PI be invited to a future IACUC meeting to better explain their reasonings for believing the studies were exempt. In the meantime, a letter will be issued to require retraining and that the PI send all abstracts for future projects to the AWP to determine if IACUC approval is required or if the work is exempt in advance of initiating new projects.

Committee action: By a majority vote of a quorum, the committee passed a motion to send a letter of non-compliance outlining the corrective action plan for the PI of the discussed publications/studies.

15 Approved, 0 Opposed, 0 Abstained

- Spring Site Visits  
Scheduling of the Spring site visits is currently underway. The Spokane and Vancouver/Tri-Cities/Puyallup site visits have already occurred, and the Pullman site visits will begin in April.
- Harassment Training HRS Requirement  
The AWP Assistant Director gave an overview of the new requirement. Per HRS and the Office of Research, all PIs and Co-I's must complete this training prior to protocol approval.
- AAALAC Celebration  
There will be a gathering to celebrate WSU's continued AAALAC full accreditation.

## V. **Post-Approval Review Report**

Reporting Period: February 24<sup>th</sup>, 2022 – March 30<sup>th</sup>, 2022

The PAR Reviewer did not have any updates for this reporting period.

PAR Totals			
E Class	D Class	C Class	B Class
0	3	13	1

Summary of Findings	
<i>Sx/ Aseptic Technique</i>	0
<i>Surgery/ Anesthesia/ Analgesia/ Medical Records</i>	0
<i>NonSx Proc</i>	0
<i>Drug &amp; Chemicals</i>	0
<i>Personnel/ Training Records</i>	0
<i>Procedure Location</i>	0
<i>Husbandry/ Facility</i>	0
<i>Euthanasia</i>	0
<i>Protocol Amendments/VVC</i>	0
<i>Other</i>	0
<i># of Total Table Tops &amp; Observations &amp; Observations or Administrative Reviews</i>	3

## VI. Minority Report

## VII. Adjournment

- Meeting adjourned at 5:37 PM.  
14 Approved, 0 Opposed, 0 Abstained
- Future IACUC meeting dates –
  - **2022 (Neil 416/ Zoom):** April 27<sup>th</sup>, May 25<sup>th</sup>, June 29<sup>th</sup>, July 27<sup>th</sup>, August 31<sup>st</sup>, September 28<sup>th</sup>

## Appendix 1: Protocols Resolved since the last meeting



# New Protocols	#Amend	#Expired	#Annual Renewals	#VVC	#Adm. Amend
21	19	4	28	5	31

## Appendix 2: IACUC Training since the last meeting

Training course	# Participants
<i>Principles of Animal Care (Formerly AAS)</i>	14
<i>Refresher: Principles of Animal Care</i>	3
<i>Occupational Health and Training-Animals</i>	50
<i>Satellite Animal Housing Location Training</i>	5
<i>Aseptic Surgical Technique Online</i>	3
<i>Aseptic Surgical Technique Hands-On</i>	3 + 2 Refreshers
<i>Basic Rodent Handling Hands-On (including euthanasia)</i>	0
<i>IACUC SOP 9, 11, 12</i>	0
<i>Research Specific</i>	1
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