

**NCSU IACUC Meeting**  
**Thursday, July 18, 2019**  
**Room 101, Administrative Services III**

**Meeting Minutes**

Members present: Delong, DePerno, Elder, Flowers, George, Morales, Schledorn, Sloop, Suter, Tonkonogy

Members absent: Anderson, Gadsby, Siciliano,

Others present: Mr. Troxler, Mr. Rainer, Dr. Olagbaju

The meeting was called to order at 1:00 pm.

The minutes of the June 20, 2019 IACUC meeting were reviewed. A motion was made and seconded to approve the minutes as submitted. The motion to approve the minutes was approved unanimously.

**Protocols Discussed**

No category E or member requests for further review or discussion of protocols.

**General Report from Dr. McKeon:** Dr. McKeon updated the committee on the issue identified by the recent AAALAC site visit of client owned mares at EHC being loaned out to private farms that are not inspected by the IACUC. AAALAC was satisfied with the plan of assigning an ad hoc committee to inspect the farms, and the NCSU College of Veterinary Medicine will retain full accreditation status.

Dr. McKeon introduced the new LAR Veterinary Resident, Dr. Tolulope Olagbaju.

**Semiannual Program Signing**

The Semiannual Program Review report was signed.

**The meeting official meeting was adjourned at approximately 1:20 pm.**

**RED Updates:** The IACUC office discussed upcoming updates to the online IACUC protocol form in the RED system. The IACUC office will no longer automatically “populate” protocols that are not in the RED system unless deemed “necessary” by the office.

**IACUC Office Updates:** Judy Schledorn will retire effective July 31. The search for a director is currently ongoing.

Recorded and submitted by Candace Morales, IACUC Coordinator

List of Attendees for Monthly IACUC Convened Quorum

Date and Time: July 18, 2019 @ 1:00 p.m.

**Members- Please sign if you are present for this meeting**

Kenneth Anderson

Paula DeLong

Chris DePerno

Robert (Bob) Elder

William (Billy) Flowers

John Gadsby

Nneka George

Gabriel McKeon

Candace Morales

Judith Schledorn

Paul Siciliano

David Sloop

Steven Suter

Sue Tonkonogy

Others Present

Tolu Olagbaju

**NCSU IACUC Meeting**  
**Thursday, August 15, 2019**  
**Room 101, Administrative Services III**

**Meeting Minutes**

Members present: K. Anderson, P. Delong, C. DePerno, R. Elder, J. Gadsby, N. George, G. McKeon, C. Morales, D. Sloop, S. Suter, and S. Tonkonogy

Members absent: Flowers, Sloop

Others present: T. Olagbaju, J. Ramanathan, R. Liston, and R. Best

The meeting was called to order at 1:00 pm.

The minutes of the July 18, 2019 IACUC meeting were reviewed. A motion was made and seconded to approve the minutes as submitted. The motion to approve the minutes was approved unanimously.

**Protocols Discussed**

19-070-B [REDACTED]

Dr. Tonkonogy presented two new procedures the PI requests to add to this protocol involving tumor metastasis in mice. The mice are in pain category E as any pain relieving drugs would affect the study outcome. Reviewers felt the monitoring plan was well described, as were humane endpoints. Dr. McKeon also noted that the survival surgery described in the amendment followed expected guidelines. A member moved to approve the amendment as is with the inclusion of edits made during member pre-review. The motion was seconded and the amendment was approved unanimously.

**General Report from Dr. McKeon:**

Dr. McKeon presented two Adverse Events that occurred within the past month.

The first report was received via EthicsPoint (software service). The report claimed that an individual has been performing un-approved procedures in fish over the past two years. After further investigation, the protocol and location were determined. It appears the reported incident occurred in the [REDACTED]. The lab manager and the PI listed on the protocol were interviewed by Dr. McKeon, however so far no evidence to support the claim has been found. Dr. McKeon's final step in the investigation is to request a meeting with the person who allegedly performed the un-approved procedures with an EthicsPoint representative present. Dr. McKeon is still in the process of setting up the interview and will make a recommendation to the committee regarding the next steps in the investigation after the interview.

**NCSU IACUC Meeting**  
**Thursday, August 15, 2019**  
**Room 101, Administrative Services III**

**Meeting Minutes**

The second case Dr. McKeon presented was a self-report received from a PI at [REDACTED]. Approximately 400 striped bass were found dead with no evidence of water quality or husbandry issues. No other fish in the facility were affected. The lab manager placed cameras and signs at entrances and changed locks as a preventative measure. A report was filed with the police, and the lab manager and PI will continue to monitor the situation and report any additional issues if they arise. The committee agreed that no further action is needed at this time.

The official meeting was adjourned at approximately 1:30 pm.

**RED Updates:** The IACUC office discussed several new features in the RED system and reviewers provided feedback and asked questions to clarify the new features.

**New EHS form:** Ms. DeLong announced that EHS is working on revising the current "RHMC" form for hazardous materials. The IACUC office has met with EHS and facility managers in an effort to improve the form.






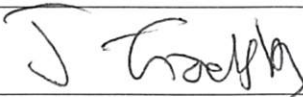
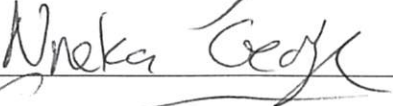
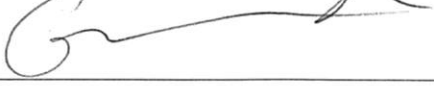
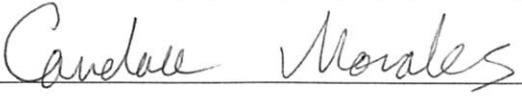
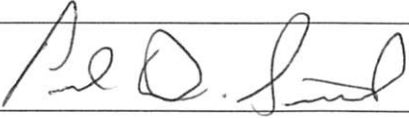

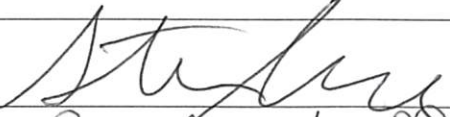
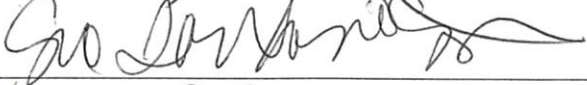



**Inspection of [REDACTED]:** A member requested to discuss the unannounced inspection of [REDACTED] performed on August 30. Inspectors found excessive odor in the room and cages that the batteries in use were designed to house either one or two birds and in every case there were at least two or three birds. This limited the mobility of the birds and reduced access to food and water. Dr. McKeon clarified that the size of the cages were within regulatory parameters; however, the shape of the cages was the issue that was limiting the birds' mobility. Ms. DeLong spoke with facility management and confirmed that the birds were separated the day after the inspection on July 31. A response for the report sent on August 8 was received in the IACUC office on August 18. Another member stated that an additional corrective action for [REDACTED] will involve setting population limits on all rooms where animals are housed.

Recorded and submitted by Candace Morales, IACUC Coordinator



List of Attendees for Monthly IACUC Convened Quorum

Date and Time: August 15, 2019 @ 1:00 p.m.

Members- Please sign if you are present for this meeting	
Kenneth Anderson	
Paula DeLong	
Chris DePerno	
Robert (Bob) Elder	
William (Billy) Flowers	
John Gadsby	
Nneka George	
Gabriel McKeon	
Candace Morales	
Paul Siciliano	
David Sloop	
Steven Suter	
Sue Tonkonogy	
Others Present	  

**NCSU IACUC Meeting**  
**Thursday, September 19, 2019**  
**Room 101, Administrative Services III**  
**1:00 p.m.**

**Meeting Minutes**

Present: K. Anderson, P. DeLong, R. Elder, W. Flowers, G. McKeon, C. Morales, D. Sloop, S. Tonkonogy

Others: R. Best, J. Dew, R. Liston, L. Ramanathan, S. Troxler

Members absent: C. DePerno, J. Gadsby, N. George, P. Siciliano, S. Suter

Call to Order: 1:00 pm

The minutes of the August 15, 2019 IACUC meeting were reviewed. A motion was made and seconded to approve the minutes as submitted. The motion to approve the minutes was approved unanimously.

**Protocols for Discussion**

- 19-631-A, AVAU renewal for [REDACTED]  
[REDACTED] presented this category E protocol renewal for studying blackhead disease in poultry. The goal of the protocol is to enhance understanding of the life cycle of the disease, identify alternative treatments, understand the immune response of the bird, and select for disease resistance in turkeys. The primary reviewer stated that the PI has been able to reduce his animal numbers over time and felt the numbers justification was well rationalized. The veterinary reviewer stated that monitoring parameters were appropriate and the rationale for the study was well justified. A member moved to approve the protocol as is with the inclusion of edits made during member pre-review. The motion was seconded and the protocol was approved unanimously.
- 19-718-A, AVAU renewal for [REDACTED]  
[REDACTED] presented this category E protocol renewal for studying the immune response of poultry in response to specific pathogens. Poultry will be infected with different pathogens and vaccine therapies will be evaluated for efficacy. The veterinary reviewer highlighted that the protocol states that death is not an endpoint, however some fatality may be expected in young chicks which is not related to disease pathology. The PI outlines various strategies to minimize pain and distress, and the effects of disease is not expected on this protocol. The IACUC office confirmed that EHS has inspected the facilities the PI is planning on using for this project.

A member moved to approve the protocol as is with the inclusion of edits made during member pre-review. The motion was seconded and the protocol was approved unanimously.

### **General Report from Dr. McKeon**

Update on [REDACTED]

Dr. McKeon presented an update on the report from last month regarding approximately 400 striped bass that were found dead in a single tank at [REDACTED]. The police have had no further updates on the case and the PI and lab manager have reported no further incidences at site. No further action is needed at this time.

Update on Ethicspoint case

Dr. McKeon provided an update on the EthicsPoint case presented at last month's meeting in which an anonymous complaint was made claiming that an individual performed un-approved procedures in fish over the past two years. On 8/22, the AV spoke with the PI and asked about potential non-compliance within the lab. All procedures described by the PI were in accordance with the IACUC protocol and the PI had no specific concerns with the complaine, citing that [REDACTED] always performed procedures appropriately and, [REDACTED] appeared to always consider animal welfare issues appropriately. On 9/12, the AV met with the complaine and asked about the alleged issue related to fish surgery and anesthesia. The complaine expressed concern about the allegations and maintained that all procedures performed were consistent with the approved protocol and no fish underwent procedures or euthanasia without prior anesthesia. The AV asked about video or social media posts related to fish use and the complaine stated that no videos existed. There was discussion of a lab-specific website that included the picture of the complaine holding a fish, but this was a laboratory-sanctioned photo. It is the attending veterinarian's opinion that without specific evidence of wrongdoing, no further action should be taken with regard to animal welfare concerns.

A member of the research compliance team brought up a recent records request received from the New England Anti-Vivisection Society requesting all internal IACUC communications platforms including list-servs, Slack, Trello, and Microsoft Teams. The NCSU IACUC does not have this type of communications, so it does not appear this records request is applicable. The request has gone to the General Counsel's office, where the request will be handled according to university policy.

The official meeting was adjourned at approximately 1:45 pm.

### **Other business**

## RED Updates

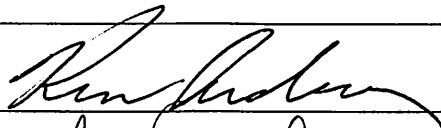
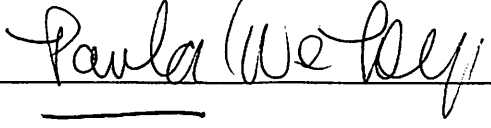

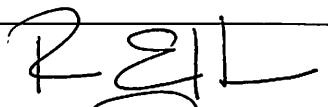
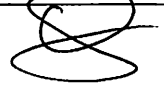
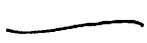

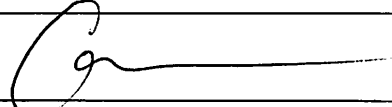
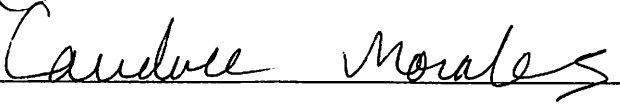

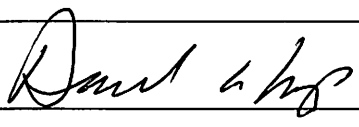
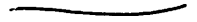
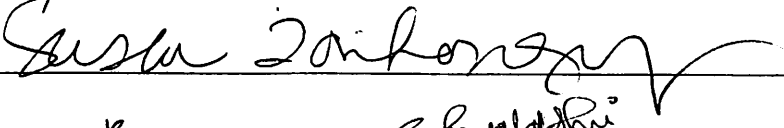
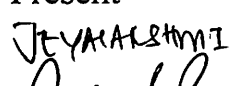


L. Ramanathan presented the new, updated comments panel features in RED. This update will be made in the system on Monday, September 23.

Recorded and submitted by Candace Morales, IACUC Coordinator



List of Attendees for Monthly IACUC Convened Quorum

Date and Time: September 19, 2019 @ 1:00 p.m.

<b>Members- Please sign if you are present for this meeting</b>	
Kenneth Anderson	
Paula DeLong	
Chris DePerno	
Robert (Bob) Elder	
William (Billy) Flowers	
John Gadsby	
Nneka George	
Gabriel McKeon	
Candace Morales	
Paul Siciliano	
David Sloop	
Steven Suter	
Sue Tonkonogy	
<b>Others Present</b>  Jeyamalini KAMANATHAN  Richard Bess  Infeyaladhi	

**NCSU IACUC Meeting**  
**Thursday, October 24, 2019**  
**Room 101, Administrative Services III**  
**11:30 a.m.**

**Meeting Minutes**

Present: K. Anderson, P. DeLong, C. DePerno, J. Dew, J. Gadsby, N. George, W. Flowers, G. McKeon, C. Morales, S. Tonkonogy

Others: R. Howell, D. Rainer, D. Treml, T. Olagbaju,

Members absent: R. Elder, P. Siciliano, D. Sloop, S. Suter

Call to Order: 11:37 am

**Discussion of [REDACTED] and Non-Compliance Report**

The meeting was called to order at 11:37 am.

This meeting was called to discuss a non-compliance report and the condition of the [REDACTED]. The non-compliance report was received on October 14<sup>th</sup> reporting that 21 baby quail were found dead in [REDACTED] due to no food or water being provided over the weekend. The daily observation logs for this room indicated that no one checked the room on October 12 and 13. Additionally, the daily observation logs for [REDACTED] indicated that the birds in this room also had not been cared for on October 12 and 13. Birds in [REDACTED] did have access to water. However, some of them did not have access to feed. Several IACUC members met with the PI responsible for these rooms on October 15<sup>th</sup> and toured the facility. The members noted that in [REDACTED], the chickens were in battery cages that appeared too small for the size of the animals. The IACUC requested that the animals be weighed and separated. A similar request was made during the last semi-annual inspection of this facility that occurred earlier this year. It was also noted that the air flow for the facility rooms was positive to the hallway and there were odors, dust and dander blowing outside animal rooms into the hallway. Overall, the facility did not appear adequate for conducting effective animal research and there was a general concern for both the welfare of the birds housed in the facility and the employees who work there.

The IACUC office confirmed that there are currently 26 protocols with 14 PI's in the [REDACTED]. Apart from the PI with the non-compliance report, only 2 PI's are actively performing animal work in the facility. Teaching labs are held for short durations; however animals used for these labs are not housed in the facility.

One IACUC member presented his experiences with the facility and the PI with the non-compliance issue.

With regards to the facility, it was mentioned that air flow issues were an on-going problem and NCSU Facilities regularly adjusts the airflow in the animal wing of [REDACTED]. It was noted this had not been done according to the agreed upon schedule and this contributed to the odor noted during the October 15<sup>th</sup> IACUC visit. Additionally, routine sanitation and cleaning of the animal areas should be more frequent in light of the poor performance of the HVAC system. It was stated that these two approaches are short-term fixes, the long term solution involves facilities renovating the HVAC system..

With regards to the PI, previously approved inspection report findings from [REDACTED] were discussed. The reports demonstrated that health issues, room odors, and housing density have been a chronic problem with the PI, with the most recent issue noted in July of 2019 as a significant deficiency for exceeding housing density. The cages the PI uses are designed for small, layer chickens while the PI houses large broiler chickens in them. The size of this caging in relation to the size of the bird does not meet the Ag Guide Standards.

Per information provided, the Poultry Science Department proposes forming a committee of 3 members in an effort to address [REDACTED] issues. This committee would presumably work to give guidelines to PI's for animal work.

Due to conflict of interest, a member left the meeting prior to IACUC discussion and therefore abstained from voting.

## **IACUC Discussion**

The IACUC chair stated that the non-compliance case involved human negligence that resulted in un-necessary animal death, [REDACTED]

[REDACTED] He noted that there were 3 issues associated with this event: 1. [REDACTED] 2. The lack of a comprehensive animal care system by the Poultry Science Department to ensure that routine daily management and care is provided to animals housed in [REDACTED] and 3. a facility that needs to be renovated in order to provide adequate conditions for the well-being of both the animals and the people in this portion of [REDACTED] With regards to point 2, the IACUC has asked Poultry Science to put a person in place to oversee animal care, similar to what is in place at all other NCSU facilities. However, no action has occurred with regards to this request to date.

After further discussion, the IACUC chair made the following motions, which were seconded and approved unanimously.

1. The IACUC suspends [REDACTED] research activities in [REDACTED] immediately. Any animals associated with his protocols must be moved to a departmental holding protocol for husbandry and care and these animals must be placed in appropriate housing conditions in accordance with the Ag. Guide. The IACUC will inspect other facilities where [REDACTED] has approved protocols and

if there is for cause to suspend work at these locations then the IACUC will notify the Poultry Science Department.

2. The IACUC will allow the completion of ongoing research studies by [REDACTED] and others. After this, no new research activities may occur in [REDACTED] until the Poultry Science department provides a centralized animal care plan to the IACUC for review and approval. This plan must identify an individual or individuals whose primary role is to provide daily oversight for all animal activities in [REDACTED]. It is the expectation of the IACUC that this person will have the responsibility of either performing or making sure that basic animal husbandry practices are performed daily and that all management practices and experimental treatments are in compliance with what has been approved by the IACUC. This plan must also include provisions that this individual or individuals document that all activities under the direction of individual P.I.s are performed daily. For example, if P.I.s and their research group need to be responsible for feeding and watering birds due to their experimental designs then this is fine, but the daily occurrence of these activities has to be verified by the designated individual(s) who(m) has (have) oversight of the facility. This includes weekends and holidays. This is what is done in all other animal facilities on and off campus.

Animals may be housed in [REDACTED] for short periods of time for teaching purposes only.




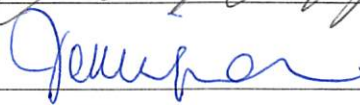
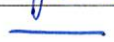

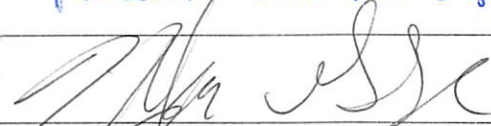

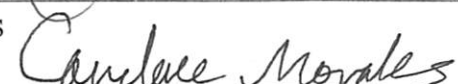
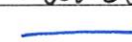


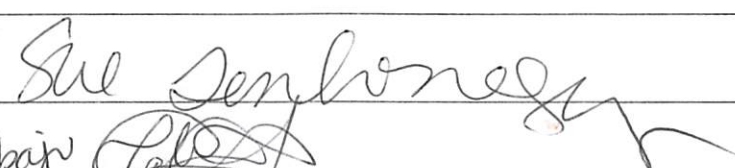
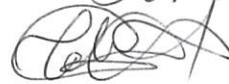

3. Before any new research activities may begin, the IACUC requires a formal plan including a timeline and commitment of fiscal resources to address the facility related issues associated with the ventilation system in the animal wing of [REDACTED]. In other words, a plan must be submitted and approved and then there must be physical evidence that money has been spent to correct the problem.

The meeting was adjourned at 12:29 pm.

Recorded and submitted by Candace Morales, IACUC Coordinator



List of Attendees for Adhoc Special Meeting IACUC Convened Quorum  
Date and Time: October 24, 2019 @ 1:00 p.m.

Members- Please sign if you are present for this meeting	
Kenneth Anderson	
Paula DeLong	
Chris DePerno	
Jennifer Dew	
Robert (Bob) Elder	
William (Billy) Flowers	
John Gadsby	present - did not sign JGD
Nneka George	
Gabriel McKeon	
Candace Morales	
Paul Siciliano	
David Sloop	
Steven Suter	
Sue Tonkonogy	
Others Present	Tolo Olagbaju  

***NCSU IACUC Meeting***  
**Thursday, November 21, 2019**  
**Room 101, Administrative Services III**  
**1:00 p.m.**

**Meeting Minutes**

Present: K. Anderson, P. DeLong, J. Gadsby, N. George, R. Elder, W. Flowers, G. McKeon, C. Morales, D. Sloop, S. Tonkonogy

Others: R. Best, K. Kretchmen, R. Liston, D. Rainer, S. Troxler, T. Olagbaju

Members absent: C. DePerno, P. Siciliano, S. Suter

Call to Order: 1:01 pm

The minutes of the October 24, 2019 IACUC meeting were reviewed. A motion was made and seconded to approve the minutes as submitted. The motion to approve the minutes was approved unanimously.

**Protocols for Discussion**

There were no category E protocols for discussion.

**General Report from Dr. McKeon**

Dr. McKeon had no updates to present at this meeting.

## Items for Discussion

### Semi-annual Program Review

Ms. Dew sent out the checklists for the IACUC to review this month. The below items on the checklists were discussed. The program review will be finalized and signed at the December meeting.

#### 1. Institutional Policies and Responsibilities

##### Recipient Mare checklist/ farm inspection plan

Dr. McKeon is working on the implementation plan for addressing AAALAC's concern that client owned mares at the [REDACTED] are loaned out to private farms that are not inspected by the IACUC. He has refined an existing self-inspection checklist so that questions pertain directly to recipient mare farms. The checklists will be sent out by the IACUC office to be completed by the farms, and Dr. McKeon and the ad-hoc committee will perform inspections onsite of the farms early next year.

#### 2. Institutional Policies and Responsibilities (Veterinary Care)

No items on this checklist were identified for committee discussion.

#### 3. Institutional Policies and Responsibilities (Training, Occupational Health & Safety)

This item relates to an AAALAC suggestion for improvement (SFI) that that all personnel in contact with animals should have a periodic (annual) occupational health check to see if any changes have occurred in exposure or health status. Currently, there is no mechanism in which animal handlers are contacted to prompt them to update their occupational health forms. The CVM and EHS have worked together to implement a program in which the Human Resources for each college will be responsible for sending out batched e-mails to personnel to prompt any personnel working with animals to update the form. Implementation of the plan would begin at the CVM, and eventually move to CALS. Dr. McKeon will update the committee on the progress of this plan at the next IACUC meeting.

##### [REDACTED] update– new management

An updated plan for the [REDACTED] was presented. The [REDACTED] are unable to manage this location due to biosecurity concerns, so a new manager was hired to specifically oversee the [REDACTED]. [REDACTED] will be faculty liaison for [REDACTED] and [REDACTED] will be the new manager [REDACTED]. She has started working on facility SOP's and will act as a point of contact for PI's utilizing this space.

##### [REDACTED] update

One of the [REDACTED] is in poor structural condition and was noted as a Minor Deficiency during the last IACUC inspection of the facility. The unit is currently moving forward with plans to renovate [REDACTED].

## Updated OLAW Assurance

NCSU received approval for the three year renewal of the OLAW Animal Welfare Assurance. This will be valid through October 2022. The renewal required several modifications to the current IACUC process, including having all committee members review and sign that they agree with designated member review subsequent to full committee review if all members are not present at a meeting; and also an updated list of examples which may be approved via Veterinary Verification and Consultation (VVC). The IACUC Director along with the AV made the requested modifications which OLAW has approved. The updates to the NCSU VVC policy will be sent to the committee for review following the meeting.

### updates

The three decisions agreed upon by the committee at the last IACUC meeting regarding the [REDACTED] facility and the suspended faculty member's research were summarized by the chair. It was noted that since the last meeting, the suspended faculty member did not designate an individual to handle [REDACTED] on his protocol, and so the animals were moved to a departmental holding protocol.

In response to the issues identified in the [REDACTED] animal facility, a committee was formed of three [REDACTED] faculty members. These individuals were charged by the department to create a comprehensive Animal Care plan for re-instating animal research in [REDACTED]. This plan was sent to the IACUC office and presented at the meeting. The plan contained details on how issues identified by the IACUC will be addressed, including set guidelines for controlling housing density and a system for facility management to verify that animals are checked daily. Members discussed the plan and agreed to consider the plan with some modifications. The requested modifications were discussed during the meeting. A motion was made and seconded proposing that the IACUC Director compile the finalized edits discussed by the committee and return to the [REDACTED] Animal Care Committee for consideration. Once the [REDACTED] Department has an approved comprehensive approved animal care plan and has shown that renovations are underway, then the IACUC will address the current suspension of activities of individual faculty members. The motion was approved unanimously.

The requested modifications are detailed below:

- Overall, the committee agrees that there should be one person who is placed in authority for the program, it could be the Chair of the ACC or someone else, but it should be a person that the unit manager can go to when they need support in cases of PI non-compliance.
- The IACUC understands that a notice would be present and approved for all study animals. They would like to see included in this document a list of emergency and weekend contacts with appropriate contact information (cell number and email) for each person listed. List the individuals in order (1st person, 2nd person, 3rd person to be contacted) to avoid contacting everyone on the list simultaneously.



- For the verification of weekend duties, it should be added that a response is provided back (from the weekend supervisor/ manager) to the person responsible for performing weekend care to ensure the notification was received. Also, the person performing weekend care and the weekend supervisor/manager should decide on the preferred method of communication (telephone call, text, or email).
- Please discuss as a department and agree on communication plan prior to weekend coverage, prepare and post a list of who is coming in for each lab, with contact information listed and who will be the responsible weekend supervisor/manager. IACUC members expressed concern that one manager would be expected to cover every weekend. Therefore, we recommend that the weekend supervisor/manager position rotate.
- Please clarify that animals are checked twice daily on weekdays and only once daily (by 3pm) on holidays or weekends.
- Please clarify that the veterinarian is the unit attending vet and not the University attending veterinarian.
- Please provide documentation on the immediate next actions related to the renovations to include the HVAC issues in [REDACTED]

### **Proposal for changes in protocol review process**

The IACUC Director proposed a new process for reviewing non-category E protocols. This proposed method will be distributed to the committee for review and will be discussed in more detail at the December meeting, and a vote will occur at that time if the committee agrees to implement the changes.

### **Annual USDA Report**

The IACUC Office has compiled the Annual USDA Report and the Attending Veterinarian has approved the report. It will be signed by the IO and submitted this month.

### **Records Request**


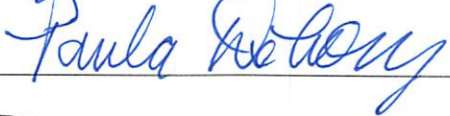









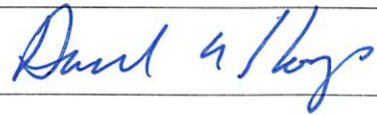





The IACUC office has received a records request. The records are being compiled and will then be sent to the university legal office for redacting and finalizing prior to submitting it to the requesting group.

**The meeting official meeting was adjourned at 2:50 pm.**

Recorded and submitted by Candace Morales, IACUC Coordinator

List of Attendees for Monthly IACUC Convened Quorum

Date and Time: November 21, 2019 @ 1:00 p.m.

Members- Please sign if you are present for this meeting	
Kenneth Anderson	
Paula DeLong	
Chris DePerno	
Jennifer Dew	
Robert (Bob) Elder	
William (Billy) Flowers	
John Gadsby	
Nneka George	
Gabriel McKeon	
Candace Morales	
Paul Siciliano	
David Sloop	
Steven Suter	
Sue Tonkonogy	
Others Present	  

***NCSU IACUC Meeting***  
**Thursday, December 12, 2019**  
**Room 101, Administrative Services III**  
**1:00 p.m.**

**Meeting Minutes**

Present: R. Elder, P. DeLong, C. DePerno, J. Dew, J. Gadsby, N. George, W. Flowers, G. McKeon, C. Morales, P. Siciliano, D. Sloop, S. Suter, S. Tonkonogy

Others: M. Jung, L. Ruterbories (open session only), T. Olagbaju, P. Sullivan (open session only).

Members absent: K. Anderson, C. DePerno,

Call to Order: 1:02 pm

The minutes of the November 21, 2019 IACUC meeting were reviewed. A motion was made and seconded to approve the minutes as submitted. The motion to approve the minutes was approved unanimously.

**Open Session**

**Update on Occupational Health changes**

Dr. McKeon presented this update which will occur monthly until the plan for implementing an annual Occupational Health review is in place. Dr. McKeon is currently in communication with CVM HR and working to finalize the letter that will be sent out to all personnel that come into contact with animals. This letter will serve as a prompt to personnel to update their form if their health status or hazard or animal exposures have changed. Once the letter is finalized, Dr. McKeon will notify the committee during the next monthly update.

**Recipient Mare checklist/ farm inspection plan**

Ms. Dew has sent the self-evaluation checklist to all farms that currently house mares that are a part of the NCSU recipient program. She will keep the committee updated on any progress made in this area.

**Veterinary Verification and Consult Update**

Ms. Dew removed all items on the NCSU policy that OLAW states should not be approved via VVC. Only items that OLAW clearly outlines as approvable by VVC are now listed on the NCSU VVC Policy. A motion was made and seconded to approve this change to the NCSU VVC policy. The motion to approve the updated VVC policy was approved unanimously.

## **Adoption of new non-category E protocol review process**

A new process for reviewing non-category E protocols was presented at the last IACUC meeting, with a scheduled discussion for the December meeting. One IACUC member voiced a concern that according to the new method, the veterinary review would be transmitted to the investigator before the Designated Member reviews the protocol, thus preventing the Designated Member from asking the veterinary reviewer for clarification. It was suggested that the new model could be followed with the following modification: the veterinary review will be completed and transmitted to the Designated Member reviewer. The Designated Member would then request clarification if necessary before both reviewers' comments and questions are sent to the investigator. Another committee member proposed that the new method be tested with a protocol that is currently in process and the committee could come back next month to discuss following the "dry run." After further discussion, it was decided that the IACUC Director will make some modifications to the proposed plan and it will be discussed again at the January IACUC meeting.

## **New non pharmaceutical grade compound guideline for review**

The IACUC Director composed a Non-Pharmaceutical Grade Compound Guideline. The guideline was reviewed by the IACUC and there were no suggestions for changes to the guideline as written. A motion was made and seconded to approve the guideline. The motion to approve the guideline was approved unanimously.

## **Signing and approval of the Program Review Report**

The Program Review Report was signed during the meeting and will be submitted to the IO for approval following the meeting.

## **IACUC pain category for agriculture protocols**

This topic was presented for discussion as the question of what pain category castration of agricultural animals should fall within was recently posed to the University Attending Veterinarian. For biomedical research, castration generally falls within category D. However, for agricultural animals, it is acceptable per the *Ag Guide* and industry practice to castrate animals without analgesia. For this reason, the AV would like animals that fit into this category considered "category C." Because of the skip logic in the RED system, this would mean that the "pain and distress" section would not be required. The AV would like this section completed for these castration protocols, even though category C. The IACUC chair believes that the pain and distress section should remain in the protocol for all pain categories. This modification is scheduled in the RED system and should be implemented soon.



## **Closed Session**

### **General Report from Dr. McKeon**

Dr. McKeon presented a new animal welfare concern reported through the EthicsPoint hotline.

On Nov 20th, the AV received an anonymous complaint through Ethics Point regarding an unapproved sling restraint method used in chickens housed at [REDACTED] with subsequent photos posted on social media. There was no welfare issue noted in the submitted report or photo, but there was potential protocol noncompliance.

The PI identified in the report submitted an email to the IACUC director to self-report that he did place a chicken into this prototype sling restraint for another PI. He admitted the restraint was not covered under his protocol. The IACUC director informed both PI's to not to use the prototype sling until an amendment was submitted and approved to cover the device on his protocol. An amendment to protocol 18-150-A was submitted, reviewed administratively with Veterinary Verification and Consultation (VVC) and approved on November 22, 2019.

The committee agreed that 1) the IACUC Director would send an official letter on behalf of the IACUC acknowledging receipt of the self-report and a reminder that all animal activities must be approved by the IACUC prior to implementation. The e-mail would also state that photographs taken of animals should follow departmental policy and may require review by the Attending Vet. 2) The committee also agreed that the two PI's participating in the incident should perform an online non-compliance training module through the AALAS Learning Library. A motion was made and seconded to approve the above course of action. The motion was approved unanimously.

### **[REDACTED] response to IACUC comments**

The Animal Care Committee's response to the IACUC's requested modifications to the plan presented at the November IACUC meeting was presented for discussion. The IACUC Chair felt that the response was satisfactory, with the exception that the plan still did not clearly articulate a single person to act as a Faculty Liaison of the [REDACTED] Facility.

The IACUC Director noted that two members of the IACUC office walked through the facility one week prior to the meeting. Some cleaning is still needed and in process however improvements have been made since the last inspection.

There was some discussion about how much the plan proposes to decrease the housing density in [REDACTED]. It was noted that the plan proposes a 20 percent reduction in [REDACTED]. A member stated that as long as animals are not kept past 56 days, the proposed housing density should be acceptable.

The IACUC Chair made a motion to approve the proposed plan, contingent upon the [REDACTED] Department naming a single person as Faculty Liaison for the facility. All protocols, amendments, and annual renewals for which [REDACTED] is the sole animal facility will be held and not processed until an official letter is received from the department naming the Faculty liaison. Once the letter is received, approvals for the facility may resume. All faculty in the [REDACTED] Department must undergo training on the Plan that the Animal Care Committee submitted to the IACUC. Documentation must be kept of each faculty member's training and be made available to the IACUC upon request. A motion was made and seconded to approve the above course of action. The motion was approved unanimously.

A member brought to the committee's attention that the [REDACTED] is due for inspection in January 2020. The current plan is to perform this inspection announced, and following this periodic, un-announced inspections will be performed by the IACUC.

**18-083-A, amendment (work conducted at [REDACTED]). Discussion requested.**

This amendment request is to increase the total number of [REDACTED] on the protocol by 2100 animals in order to account for additional replicates of study groups already approved on the protocol. Additionally, the PI requests to add Zinc supplementation to the diet. All work on this protocol is done at the [REDACTED]. The reason discussion was requested for this amendment is because the PI of this protocol has [REDACTED] [REDACTED], which is inspected by the NCSU IACUC. The IACUC agreed that because the PI has [REDACTED] [REDACTED], there is no basis for withholding approval of this amendment. The committee agreed that since the protocol has completed the pre-review process, it may now be sent out for Designated Member Review and continue through the normal NCSU review process for a non-category E amendment. A motion was made and seconded to approve the above course of action. The motion was approved unanimously.

**17-017-B, amendment. Discussion requested.**

The veterinary reviewer requested discussion of this amendment and presented their concerns. The amendment proposes a complex survival surgical procedure involving accessing the intrapericardial cavity through a port, with treatments given through intrapericardial injection. The veterinary reviewer consulted with veterinary specialists at the NCSU, and all were of the opinion that this model will be very difficult. The IACUC asked if a staff veterinarian could perform the surgery on behalf of the group, however [REDACTED]. Concerns were also voiced regarding the proposed location, [REDACTED] not having the equipment necessary

for the procedure. The committee agreed that this was not within the purview of the IACUC, as the procedure may be approved but carrying it out is contingent upon the PI and research group obtaining the necessary instruments to perform the procedure.

[REDACTED] The veterinary reviewer stated that the IACUC needs to verify [REDACTED] and that the model will work prior to the IACUC approving the survival surgery on multiple animals.

After further discussion, the Committee made a motion to approve the laboratory group for one terminal pig as a pilot surgery/proof of concept under veterinary supervision. The procedure will be done as a non-survival surgery. The laboratory member that is to do the surgery will inject a biocompatible dye to ascertain the correct placement of the injection and the suitability of the volume requested. Gross necropsy will be performed after euthanasia and reviewed by the overseeing veterinarian to assure correct placement of the injection. This will confirm that the individual is able to perform the procedure proficiently. The veterinarian present will also document if the individual is able to competently complete the surgery. Then if successful, an amendment may be submitted to perform the same procedure as a survival surgery with additional numbers of animals. A motion was made and seconded to approve the above course of action. The motion was approved unanimously




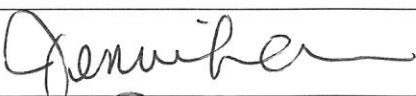





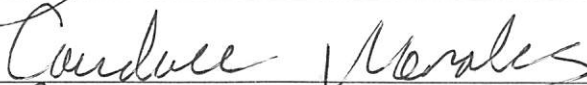
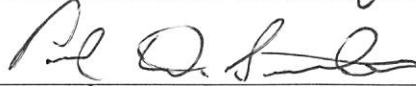


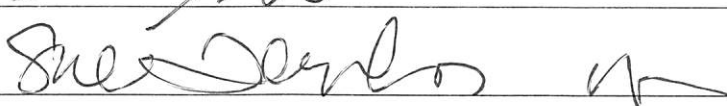
The meeting was adjourned at approximately 3:00 pm.

Recorded and submitted by Candace Morales, IACUC Coordinator



List of Attendees for Monthly IACUC Convened Quorum

Date and Time: December 12, 2019 @ 1:00 p.m.

Members- Please sign if you are present for this meeting	
Kenneth Anderson	
Paula DeLong	
Chris DePerno	
Jennifer Dew	
Robert (Bob) Elder	
William (Billy) Flowers	
John Gadsby	
Nneka George	
Gabriel McKeon	
Candace Morales	
Paul Siciliano	
David Sloop	
Steven Suter	
Sue Tonkonogy	
Others Present	