

**Gaston College
Veterinary Medical Technology
IACUC Meeting Minutes
Spring 2017**

Date of Meeting: 5/5/17 @ 12:00pm
Members Present: Melanie Skinner, RVT (Chairperson)
Marty Hartsell, DVM
[REDACTED]
Cortney Barkley-Postell, DVM
Jane Goodson, RN, MSN

Members Absent:

The meeting opened at 12:00pm at the Veterinary Medical Technology Building.

The meeting began with the review of protocols. Protocols were discussed and following are changes made:

1. Blood Collection for Transfusion/Blood Transfusion
 - a. Remove VET 213 from the Course #. This is only done in VET 214
 - b. 1) Change "2-4 students" to 6-8 students per animal
 - c. 2) Change "torbugesic" to butorphanol
2. Canine Invasive Protocol
 - a. No change to "Subcutaneous", but Jane Goodson noted that in human medicine they have stopped aspirating before injecting because it causes too much tissue trauma and the odds of being in a viable vessel are slim to none. We need to keep an eye out for veterinary medicine following suit.
 - b. Intramuscular Injection needs to be modified to have more detail such as angle of needle and aspiration.
 - c. Cystocentesis: added, "There can be no more than 5 attempts at cysto per week.
3. Feline Dental and Radiology
 - a. Remove "at a slight angle (head below body)." from the protocol.
4. Canine Dental and Radiology
 - a. Remove "at a slight angle (head below body)." from the protocol.

The facility inspection proceeded at 12:40 pm. No animals were housed in the Vet Tech building or in the runs at GCAC at the time of inspection.

- Part 1: IACUC Program
 - o all passed without comment or concern
- Part 2: Physical Plant and Records
 - o 1. Physical Plant: all passed without comment or concern
 - o 2. Housing: all passed without comment or concern
 - o 3. Environment: all passed without comment or concern
 - o 4. Food: all passed without comment or concern
 - o 5. Bedding: all passed without comment or concern
 - o 6. Water: all passed without comment or concern
 - o 7. Sanitation: all passed without comment or concern
 - o 8. Animal Records: all passed without comment or concern
 - o 9. Veterinary Care: all passed without comment or concern
 - o 10. Storage: all passed without comment or concern

The meeting adjourned at 1:00 pm

**Gaston College
Veterinary Medical Technology Program
IACUC Agenda
May 5, 2017**

1. Welcome

2. Protocol Review

Notes:

3. Semiannual Inspection and Program Review

Notes:

IACUC SEMI-ANNUAL FACILITY INSPECTION
AND PROGRAM REVIEW SIGNATURE SHEET

To comply with USDA policy, a majority of the IACUC members must review and approve the facility inspection and program review before it can be submitted to the Institutional Official. In order to submit the report in a timely manner, please review the attached copy of the report, indicate any minority views and sign this sheet.

Please RETURN THIS SHEET TO THE IACUC CHAIRPERSON **WITHIN ONE WEEK OF RECEIPT**


mail to: Gaston College or Fax: Attn: Melanie Skinner
Vet Med Tech 704-922-2333
Attn: Melanie Skinner
201 Hwy 321 South
Dallas, NC 28034

Date Sent 6/8/17

I HAVE READ AND REVIEWED THE ATTACHED SEMI-ANNUAL FACILITY INSPECTION AND
PROGRAM REVIEW CONDUCTED ON 5/5/17
AND I:

☒ AGREE with the report as written.

() DISAGREE with the report as written. I disagree with the following:

 6/12/17
Member Signature Date

Return To: Melanie Skinner, IACUC Chair:

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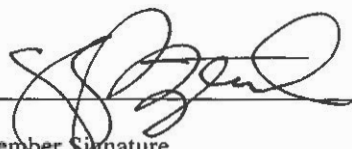
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or Fax: Attn: Melanie Skinner
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Attn: Melanie Skinner
201 Hwy 321 South
Dallas, NC 28034

Date Sent 4/19/18

I HAVE READ AND REVIEWED THE ATTACHED SEMI-ANNUAL FACILITY INSPECTION AND PROGRAM REVIEW
CONDUCTED ON 11/17/17
AND I:

☒ AGREE with the report as written.

() DISAGREE with the report as written. I disagree with the following:



Member Signature

4/23/18

Date

Return To: Melanie Skinner, IACUC Chair

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Date Sent 6/8/17

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PROGRAM REVIEW CONDUCTED ON 5/5/17
AND I:

☒ AGREE with the report as written.

() DISAGREE with the report as written. I disagree with the following:

Melanie D. S.

Member Signature

6/8/17

Date

Return To: Melanie Skinner, IACUC Chair:

Gaston College Veterinary Medical Technology Semiannual Program Review and Facility Inspection

Date: 5-5-17

Time: 12:40

Inspector: Melanie Skinner [REDACTED] Jane Gooden

Part I: IACUC Program

1. IACUC Membership	Y	N	N/A
• At least 3 members on committee	<input checked="" type="checkbox"/>		
• Members include: veterinarian, scientist, non-scientist and non-affiliated non-laboratory animal user.	<input checked="" type="checkbox"/>		
• IACUC oversees and evaluates the institution's program	<input checked="" type="checkbox"/>		
• IACUC conducts a semiannual inspection of institutional animal facilities	<input checked="" type="checkbox"/>		
• IACUC reviews protocols semiannually	<input checked="" type="checkbox"/>		
• IACUC develops policies for special procedures	<input checked="" type="checkbox"/>		
• IACUC evaluates pain managements for each protocol	<input checked="" type="checkbox"/>		
2. IACUC Records and Reporting	Y	N	N/A
• Reports of semiannual program review and facility inspection submitted to Institutional Official	<input checked="" type="checkbox"/>		
• Describe plan for correction of any deficiencies identified by the IACUC	<input checked="" type="checkbox"/>		
• Provide Annual Report to the United States Department of Agriculture	<input checked="" type="checkbox"/>		
• IACUC minutes and semiannual reports kept for minimum of 3 years	<input checked="" type="checkbox"/>		
• IACUC minutes and semiannual reports signed by all members of IACUC and Institutional Official	<input checked="" type="checkbox"/>		
3. Veterinary Care	Y	N	N/A
• Are veterinary services available	<input checked="" type="checkbox"/>		
• Are the veterinary services available on full time basis?	<input checked="" type="checkbox"/>		
• Is veterinary care available after hours, on weekends, and on holidays?	<input checked="" type="checkbox"/>		
• Are procedures available for reporting sick animals?	<input checked="" type="checkbox"/>		
• Are health monitoring procedures in place?	<input checked="" type="checkbox"/>		
• Comment:			
4. Personnel	Y	N	N/A
• Does the number of employees appear to be adequate?	<input checked="" type="checkbox"/>		
• Do employees participate in regular continuing education programs?	<input checked="" type="checkbox"/>		
• Is the staff qualified to handle hazardous materials?	<input checked="" type="checkbox"/>		
• Comment:			
5. Personnel Hygiene	Y	N	N/A
• Is the employee/student dress code suitable for work with laboratory animals?	<input checked="" type="checkbox"/>		
• Is a locker room/restroom available for employees and students?	<input checked="" type="checkbox"/>		

• Is smoking, eating or drinking allowed in the animal rooms or procedure rooms?		✓	
Comment:			
6. Occupational Health Program	Y	N	N/A
• Individual responsible for the occupational health program:	✓		
• Are employee/student health records available?	✓		
• Are employees/students supplied with suitable safety equipment?	✓		
• Are employee/students informed of zoonotic diseases?	✓		
• Is the MSDS available in the procedure rooms?	✓		
• Is the MSDS updated annually?	✓		
• Are students made aware of fire safety equipment i.e. extinguisher, fire blanket?	✓		
• Are students aware of eyewash stations, first aid kit, and emergency procedure manual?	✓		
Comment:			
7. Supplies	Y	N	N/A
• Are the animals purchased from USDA vendors?	✓		
• Is the feed formulated for laboratory animals?	✓		
• Is the bedding purchased from suitable manufacturers?	✓		
Comment:			
8. Sanitation:	Y	N	N/A
• Is waste stored and removed in an efficient manner?	✓		
• Are dead animals disposed of properly?	✓		
• Are the proper disinfectants and sanitation procedures used on equipment and the facility?	✓		
• Is there a suitable housekeeping procedure?	✓		
Comment:			
9. Animal Care Procedures	Y	N	N/A
• Is there access to the written animal care policy of Gaston College?	✓		
• Are the animal care procedures adequate for the animals used by the program?	✓		
• Are animals handled and restrained humanly during transport from the Gaston County Animal Shelter to the Gaston College Veterinary Medical Technology Building?	✓		
Comments:			

Part 2: Physical Plant and Records:

1. Physical Plant	Y	N	N/A
• Is there sufficient area available to perform the required function:	✓		
○ Separation of Species	✓		
○ Receiving, quarantine, and isolation of animals?	✓		
○ Storage of food, bedding, and other supplies	✓		
○ Storage of caging and caging parts	✓		
○ Personnel areas	✓		
○ Washing and sanitation of equipment	✓		
○ Waste Storage	✓		
○ Containment of biohazardous waste?	✓		
○ Performance of procedures?	✓		
○ Surgical preparation area?	✓		
• Are the animal rooms clean?	✓		
• Are the floors smooth, moisture proof, and skid-proof?	✓		
• Are the walls free of cracks and leaks?	✓		
• Are the light fixtures clean of vermin?	✓		
• Is the building free of vermin?	✓		
• Are the floors clear of standing water?	✓		
• Is there adequate lighting in the animal area and in the procedure areas?	✓		
• Is there adequate ventilation in the animal areas and in the procedure areas?	✓		
Comment:			
2. Housing	Y	N	N/A
• Do the cages in the Veterinary Medical Technology Building:	✓		
○ Provide adequate space as defined by <u>The Animal Welfare Act</u> ?	✓		
○ Do the cages provide natural postural movement and adjustments?	✓		
○ Provide an elevated area for cats?	✓		
○ Are they escape-proof?	✓		
○ Are they free of defects and sharp edges?	✓		
○ Are they easily accessible?	✓		
○ Do they keep the animals dry?	✓		
○ Provide access to food and water?	✓		
○ Provide proper social groupings?	✓		
○ Have adequate records for each cage?	✓		
○ Have suitable labeling system?	✓		
2. Housing cont.	Y	N	N/A
•Comment:			


• Do the cages in the Gaston County Animal Shelter:	✓		
○ Provide adequate space as defined by <u>The Animal Welfare Act</u> ?	✓		
○ Do the cages provide natural postural movement and adjustments?	✓		
○ Are they escape-proof?	✓		
○ Are they free of defects and sharp edges?	✓		
○ Are they easily accessible?	✓		
○ Do they keep the animals dry?	✓		
○ Provide access to food and water?	✓		
○ Provide proper social groupings?	✓		
○ Have adequate records for each cage?	✓		
○ Have suitable labeling system?	✓		
Comments:			
3. Environment:	Y	N	N/A
• Does the environment in the Veterinary Medical Technology Building:			
○ Provide proper temperatures as stated in the AWA?	✓		
○ Provide proper humidity as stated in the AWA?	✓		
○ Provide proper ventilation as stated in the AWA?	✓		
○ Provide proper lighting as stated in the AWA?	✓		
○ IS the noise level suitable for the animals/employees?	✓		
Comment:			
• Does the environment in the Gaston County Animal shelter:			
○ Provide proper temperatures as stated in the AWA?	✓		
○ Provide proper humidity as stated in the AWA?	✓		
○ Provide proper ventilation as stated the AWA?	✓		
○ Provide proper lighting as stated in the AWA?	✓		
○ IS the noise level suitable for the animals/employees?	✓		
Comment:			
4. Food	Y	N	N/A
• Do feed containers allow easy access without contamination with urine or feces?			
• Is unused feed kept off of the floor in a cool dry area free of vermin?	✓		
• Is the feed monitored for expiration date?	✓		
• Is feed stored with chemicals?		✓	
• IS feed rotated?	✓		

4. Food cont.	Y	N	N/A
• Is open feed stored in a dry, cool place in a container with a tight fitting lid?	✓		
• Is open feed kept free of vermin?	✓		
Comments:			
5. Bedding	Y	N	N/A
• Is the bedding used sufficient for animal and is it changed often enough?	✓		
• Is bedding changed often enough to prevent standing urine or feces?	✓		
• Is the bedding stored in a dry, cool place off of the floor and away from vermin?	✓		
• Is bedding stored with chemicals?	✓		
• Is open bedding stored in an airtight container?	✓		
Comments:			
6. Water:	Y	N	N/A
• Do the animals have continuous access to fresh, potable water?	✓		
• Is the water monitored for pH, hardness, and/or microbial and chemical contamination?	✓		
• Are watering devices cleaned regularly?	✓		
Comments:			
7. Sanitation:	Y	N	N/A
• Are the rooms clear of debris, dirt, and contamination?	✓		
• Are the walls and floors clean of debris, dirt, and contamination?	✓		
• Are animals kept dry and safe during cleaning procedures?	✓		
• Is litter and debris stored in covered containers and removed frequently?	✓		
• Are cleaning chemicals stored properly away from the animals?	✓		
• Is there evidence of vermin?	✓		
• Are the employee/ student areas clean?	✓		
• Is the trash removed from the building?	✓		
Comments:			
8. Animal Records	Y	N	N/A
• Is each animal identified?	✓		
• Do all animals have a written health record?	✓		
• Are records kept of all procedures performed on the animal?	✓		
• Are records kept of all medications and drugs administered to the animal?	✓		
Comment:			

9. Veterinary Care	Y	N	N/A
• Are all animals observed by Veterinary Medical Technology staff on a daily basis?	<input checked="" type="checkbox"/>		
• Are animals treated for illness?	<input checked="" type="checkbox"/>		
• Are anesthetic procedures performed properly and safely?	<input checked="" type="checkbox"/>		
• Are any of the animals exhibiting illness, pain, or behavioral abnormalities?	<input checked="" type="checkbox"/>		
Comment:			
10. Storage:	Y	N	N/A
• Are all items labeled and organized?	<input checked="" type="checkbox"/>		
• Are items stored properly?	<input checked="" type="checkbox"/>		
• Are inventory items recorded?	<input checked="" type="checkbox"/>		
• Are items within expiration date?	<input checked="" type="checkbox"/>		
• IS there adequate storage?	<input checked="" type="checkbox"/>		
• Comment:			

Certification Statement:

I, a member of the IACUC for the Gaston College Department of Veterinary Medical Technology Program, have inspected the facilities and agree to the results of the inspection above.

1. Melani D.S. Date: 5-5-17
2. Jane Godson Date: 5-5-17
3. 
4. _____ Date: _____
5. _____ Date: _____

Memorandum to: Dr. Patricia Skinner

From: Institutional Animal Care and Use Committee

Subject: Semiannual Evaluation of Animal Care and Use Program and
Inspection of Facilities

Date: 4/19/18

This represents the semiannual report of the Institutional Animal Care and Use Committee (IACUC), as required by the USDA Animal Welfare Regulations, 9 CFR Chapter I, subchapter A, as applicable.

Evaluation of the Animal Care and Use Program

Protocols were reviewed and changes were discussed. The changes to be reflected in the protocols after this meeting will be:

The number of animals used from October 2016 to October 2017 was discussed and protocols were reviewed.

The numbers are as follows:

- Avian 01, Techniques in the Avian: 10
- Bovine 01, Non-Invasive Techniques in Cattle: 12
- Bovine 02, Invasive Techniques in Cattle: 12
- Canine 01, Non-Invasive Techniques of Dogs: 180
- Canine 02, Invasive Techniques of the Canine: 174
- Canine 03, Anesthesia of the Dog: 109
- Canine 04, Dental Techniques and Radiographs in the Dog: 35
- Canine 05, Blood Collection for Transfusion/Blood Transfusion: 2
- Caprine 01, Basic Caprine Restraint, Physical Exam, Dose Syringe, Venipuncture: 6
- Equine 01, Non-Invasive Techniques of the Equine: 10
- Equine 02, Invasive Techniques in the Horse: 10
- Feline 01, Non-Invasive Diagnostic Techniques in Cats: 125
- Feline 02, Invasive Techniques of the Feline: 119
- Feline 03, Anesthetic Techniques of the Cat: 76
- Feline 04, Dental Techniques and Dental Radiographs of the Cat: 2
- Feline 05, Protocol Removed
- Rabbit 01, Non-Invasive Techniques of the Rabbit: 12
- Rabbit 02, Invasive Techniques of the Rabbit: 12
- Rat and Mouse 01, Techniques in the Rat and Mouse: 12 rats and 15 mice

Protocol changes were discussed and approved. They are as follows:

1. Have non-animal alternatives been considered? Please explain why non-animal alternatives are not being used.

- We modified this statement to add the following: "We get these animals from Gaston County Animal Care and Enforcement. Part of our program's mission is to help as many animals as possible by making them better candidates for adoption or rescue. We may get animals that require additional surgical or medical treatments than what we have scheduled for the class. Any additional procedure performed will be solely for the betterment of the animal." This statement was added to the canine and feline protocols only.

2. Removed Hartsell from protocols and added Doukas

- Dr. Hartsell has retired and no longer is responsible for the protocols for those classes. Dr. Doukas will take over her protocols.

3. Source of Dogs and Cats

- Changed to Gaston County Animal Care and Enforcement (GCACE). They changed their name, but is still the same facility and organization.

4. Removed from all protocols:

- "If animals experience pain or distress during above procedures, dogs will receive Torbugesic® (butorphanol) by subcutaneous injection at a dose of 0.2 mg/kg. If the animal appears to be suffering, euthanasia may be considered." This was

removed because we have many options for pain management. The veterinarian will choose the mode appropriate to manage the animal's pain.

5. Canine 01: Non-invasive Techniques of the Canine

- Grammatical errors and minor changes in verbage.
- Removed fecal loop completely from the protocol. Added, "Feces will be collected either digitally or by voluntary evacuation."
- Changed "minimal restraint to "minimal effective restraint"
- Lateral view was added to abdominal films
- Pelvic films were added to the protocol
- Left and right laterals views added to skull rads
- Changed topical ophthalmic solution to "topical ophthalmic ointment"

6. Canine 02: Invasive Techniques of the Canine

- Removed "heparin" from protocols that have saline flush in them. This is because studies have shown that heparin is not efficacious in preventing clotting.
- Removed from Orogastric Intubation – "unless the animal has a specific need for nutrition, in which case, a mixture of a/d and water will be administered through the tube.
- Removed, "Analgesic choices would include buprenorphine or torbugesic" from the orogastric and nasogastric protocols.

7. Canine 03: Anesthesia of the Canine

- There were no changes made to this protocol

8. Canine 04: Dental Techniques and Radiographs in the Canine

- Dr. Doukas is working on a revised protocol for dental rads
- "and Doppler" was modified to read, "an ECG, pulse oximeter and blood pressure monitoring device"
- Added, "If an extraction of a tooth is necessary, a local anesthetic block will be performed using bupivacaine and/or lidocaine. Dental extractions will be closed using surgical sutures, and post extraction radiographs will be taken."
- Nolvadent was removed from the protocol as this is a brand name and may not be used

9. Canine 05: Blood Collection for Transfusion/Blood Transfusion

- Added: "The same animal will be used for blood collection and blood transfusion (auto-transfusion) to prevent any transfusion reactions during this lab. The students will work in groups of 6 – 8 per animal. Students will be taught cross-matching techniques in another class. This procedure will be reviewed during this lab.
- Changed the word "torbugesic" to butorphanol as that is a generic name.

10. Feline 01: Non-Invasive Techniques of the Feline

- Changed "minimal manual restraint" to minimal effective restraint

11. Feline 02: Invasive Techniques of the Feline

- Removed "heparin" from protocols that have saline flush in them.
- Removed from Nasogastric Intubation – "unless the animal has a specific need for nutrition, in which case, a mixture of a/d and water will be administered through the tube."
- Removed, "Analgesic choices would include buprenorphine or torbugesic from the Nasogastric Intubation protocol
- Added "or red rubber catheter" to urinary catheter protocol after Tom cat catheter

12. Feline 03: Anesthetic Techniques of the Feline

- Remove mouth gag from the Endotracheal Tube Placement Protocol

13. Feline 04: Dental Techniques and Radiographs in the Feline

- Dr. Doukas is working on a revised protocol for dental rads
- "and Doppler" was modified to read, "an ECG, pulse oximeter and blood pressure monitoring device"
- Added, "If an extraction of a tooth is necessary, a local anesthetic block will be performed using bupivacaine and/or lidocaine. Dental extractions will be closed using surgical sutures, and post extraction radiographs will be taken."
- Nolvadent was removed from the protocol as this is a brand name and may not be used

14. Avian 01: Techniques in the Avian

- There were no changes made to this protocol other than the name change to Doukas

15. Rabbit 01 Non-Invasive Techniques in the Rabbit

- Source of rabbits was changed to Patrick Runkle

16. Rabbit 02: Invasive Techniques in the Rabbit

- Source of rabbits was changed to Patrick Runkle

17. Rat and Mouse 01: Techniques in Rats and Mice

- Removed IP injection on rats. The AVMA no longer requires it

18. Bovine 01: Non-Invasive Techniques in the Bovine

- There were no changes made to this protocol

19. Bovine 02: Invasive Techniques in the Bovine

- There were no changes made to this protocol

20. Caprine and Ovine 01: Basic Caprine and Ovine restraint, physical exam, dose syringe, and venipuncture

- There were no changes made to this protocol

21. Equine 01: Non-Invasive Techniques of the Equine

- There were no changes made to this protocol

22. Equine 02: Invasive Techniques in the Equine

- There were no changes made to this protocol

The facility inspection proceeded at 1:15 pm. No animals were housed in the Vet Tech building or in the runs at GCACE at the time of inspection.

- Part 1: IACUC Program
 - o Comment that the Facility Inspection Checklist needs to be updated to say MSDS/SDS
- Part 2: Physical Plant and Records
 - o 1. Physical Plant: all passed without comment or concern
 - o 2. Housing: Wire between two runs pulled back enough for dog's nose to go through
 - o 3. Environment: all passed without comment or concern
 - o 4. Food: all passed without comment or concern
 - o 5. Bedding: all passed without comment or concern
 - o 6. Water: all passed without comment or concern
 - o 7. Sanitation: all passed without comment or concern
 - o 8. Animal Records: all passed without comment or concern
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 - o 10. Storage: all passed without comment or concern

The IACUC inspected the animal facilities on November 17, 2017, using the *Animal Welfare Act and Animal Welfare Regulations*.

The fencing between the Vet Tech Program's runs is pulled back enough for a dog's nose to go through.

The meeting adjourned at 1:30.

**Gaston College
Veterinary Medical Technology
IACUC Meeting Minutes
Fall 2017**

Date of Meeting: November 17, 2017 12:00 pm
Members Present: Melanie Skinner, RVT (Chairperson)
Cortney Barkley-Postell, DVM
[REDACTED]
Jane Goodson, RN, MSN
Jason Doukas, DVM

Members Absent:

The meeting opened at 12:00pm at the Veterinary Medical Technology Building.

Dr. Hartsell has retired and Dr. Jason Doukas has been hired to take her place. The plan is to have Dr. Doukas take over as Chair of the IACUC.

The number of animals used from October 2016 to October 2017 was discussed and protocols were reviewed.

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7. Canine 03: Anesthesia of the Canine

- There were no changes made to this protocol

8. Canine 04: Dental Techniques and Radiographs in the Canine

- Dr. Doukas is working on a revised protocol for dental rads
- "and Doppler" was modified to read, "an EGC, pulse oximeter and blood pressure monitoring device"
- Added, "If an extraction of a tooth is necessary, a local anesthetic block will be performed using bupivacaine and/or lidocaine. Dental extractions will be closed using surgical sutures, and post extraction radiographs will be taken."
- Nolvadent was removed from the protocol as this is a brand name and may not be used

9. Canine 05: Blood Collection for Transfusion/Blood Transfusion

- Added: "The same animal will be used for blood collection and blood transfusion (auto-transfusion) to prevent any transfusion reactions during this lab. The students will work in groups of 6 – 8 per animal. Students will be taught cross-matching techniques in another class. This procedure will be reviewed during this lab.
- Changed the word "torbugesic" to butorphanol as that is a generic name.

10. Feline 01: Non-Invasive Techniques of the Feline

- Changed "minimal manual restraint" to minimal effective restraint

11. Feline 02: Invasive Techniques of the Feline

- Removed "heparin" from protocols that have saline flush in them.
- Removed from Nasogastric Intubation – "unless the animal has a specific need for nutrition, in which case, a mixture of a/d and water will be administered through the tube."
- Removed, "Analgesic choices would include buprenorphine or torbugesic from the Nasogastric Intubation protocol
- Added "or red rubber catheter" to urinary catheter protocol after Tom cat catheter

12. Feline 03: Anesthetic Techniques of the Feline

- Remove mouth gag from the Endotracheal Tube Placement Protocol

13. Feline 04: Dental Techniques and Radiographs in the Feline

- Dr. Doukas is working on a revised protocol for dental rads
- "and Doppler" was modified to read, "an EGC, pulse oximeter and blood pressure monitoring device"
- Added, "If an extraction of a tooth is necessary, a local anesthetic block will be performed using bupivacaine and/or lidocaine. Dental extractions will be closed using surgical sutures, and post extraction radiographs will be taken."
- Nolvadent was removed from the protocol as this is a brand name and may not be used

14. Avian 01: Techniques in the Avian

- There were no changes made to this protocol other than the name change to Doukas

15. Rabbit 01 Non-Invasive Techniques in the Rabbit

- Source of rabbits was changed to Patrick Runkle

16. Rabbit 02: Invasive Techniques in the Rabbit

- Source of rabbits was changed to Patrick Runkle

17. Rat and Mouse 01: Techniques in Rats and Mice

- Removed IP injection on rats. The AVMA no longer requires it

18. Bovine 01: Non-Invasive Techniques in the Bovine

- There were no changes made to this protocol

19. Bovine 02: Invasive Techniques in the Bovine

- There were no changes made to this protocol

20. Caprine and Ovine 01: Basic Caprine and Ovine restraint, physical exam, dose syringe, and venipuncture

- There were no changes made to this protocol

21. Equine 01: Non-Invasive Techniques of the Equine

- There were no changes made to this protocol

22. Equine 02: Invasive Techniques in the Equine

- There were no changes made to this protocol

The facility inspection proceeded at 1:15 pm. No animals were housed in the Vet Tech building or in the runs at GCACE at the time of inspection.

- Part 1: IACUC Program
 - o Comment that the Facility Inspection Checklist needs to be updated to say MSDS/SDS
- Part 2: Physical Plant and Records
 - o 1. Physical Plant: all passed without comment or concern
 - o 2. Housing: Wire between two runs pulled back enough for dog's nose to go through
 - o 3. Environment: all passed without comment or concern
 - o 4. Food: all passed without comment or concern
 - o 5. Bedding: all passed without comment or concern
 - o 6. Water: all passed without comment or concern
 - o 7. Sanitation: all passed without comment or concern
 - o 8. Animal Records: all passed without comment or concern
 - o 9. Veterinary Care: all passed without comment or concern
 - o 10. Storage: all passed without comment or concern

The meeting adjourned at 1:30

**IACUC SEMI-ANNUAL FACILITY INSPECTION
AND PROGRAM REVIEW SIGNATURE SHEET**

To comply with USDA policy, a majority of the IACUC members must review and approve the facility inspection and program review before it can be submitted to the Institutional Official. In order to submit the report in a timely manner, please review the attached copy of the report, indicate any minority views and sign this sheet.

Please **RETURN THIS SHEET TO THE IACUC CHAIRPERSON WITHIN ONE WEEK OF RECEIPT** mail to: Gaston College

or Fax: Attn: Melanie Skinner
Vet Med Tech 704-922-2333
Attn: Melanie Skinner
201 Hwy 321 South
Dallas, NC 28034

Date Sent 4/19/18

I HAVE READ AND REVIEWED THE ATTACHED SEMI-ANNUAL FACILITY INSPECTION AND PROGRAM REVIEW
CONDUCTED ON 11/17/17
AND I:

- ☐ AGREE with the report as written.
- ☐ DISAGREE with the report as written. I disagree with the following:

Member Signature

Date

Return To: Melanie Skinner, IACUC Chair



Gaston College
Opportunities For Life

October 27, 2017

Gaston College
Veterinary Medical Technology Program
201 Highway 321 South
Dallas, NC 28034

Dear Dr. Doukas:

This letter serves to officially appoint you as a member of the Gaston College Institutional Animal Care and Use Committee for the Veterinary Medical Technology Program.

Department Chairperson Melanie D. Skinner, RVT will contact you at a later date to supply you with information concerning the dates that the committee meets and other pertinent information so that you can become familiar with the program and your duties on the committee.

Thank you for agreeing to support the Veterinary Medical Technology Program in this important way.

Sincerely,

Patricia A. Skinner, Ph.D.
President, Gaston College

Melinda C. Cade
11:30

Gaston College Veterinary Medical Technology Semiannual Program Review and Facility Inspection

Date: 11-17-18

Time: 1:30

Inspector: James, Buson, Melonie, Patey

Part I: IACUC Program

1. IACUC Membership	Y	N	N/A
• At least 3 members on committee	✓		
• Members include: veterinarian, scientist, non-scientist and non-affiliated non-laboratory animal user.	✓		
• IACUC oversees and evaluates the institution's program	✓		
• IACUC conducts a semiannual inspection of institutional animal facilities	✓		
• IACUC reviews protocols semiannually	✓		
• IACUC develops policies for special procedures	✓		
• IACUC evaluates pain managements for each protocol	✓		
2. IACUC Records and Reporting	Y	N	N/A
• Reports of semiannual program review and facility inspection submitted to Institutional Official	✓		
• Describe plan for correction of any deficiencies identified by the IACUC	✓		
• Provide Annual Report to the United States Department of Agriculture	✓		
• IACUC minutes and semiannual reports kept for minimum of 3 years	✓		
• IACUC minutes and semiannual reports signed by all members of IACUC and Institutional Official	✓		
3. Veterinary Care	Y	N	N/A
• Are veterinary services available	✓		
• Are the veterinary services available on full time basis?	✓		
• Is veterinary care available after hours, on weekends, and on holidays?	✓		
• Are procedures available for reporting sick animals?	✓		
• Are health monitoring procedures in place?	✓		
• Comment:			
4. Personnel	Y	N	N/A
• Does the number of employees appear to be adequate?	✓		
• Do employees participate in regular continuing education programs?	✓		
• Is the staff qualified to handle hazardous materials?	✓		
Comment:			
5. Personnel Hygiene	Y	N	N/A
• Is the employee/student dress code suitable for work with laboratory animals?	✓		
• Is a locker room/restroom available for employees and students?	✓		

• Is smoking, eating or drinking allowed in the animal rooms or procedure rooms?		✓	
Comment:			
6. Occupational Health Program	Y	N	N/A
• Individual responsible for the occupational health program:	✓		
• Are employee/student health records available?	✓		
• Are employees/students supplied with suitable safety equipment?	✓		
• Are employee/students informed of zoonotic diseases?	✓		
• Is the MSDS available in the procedure rooms?	✓		
• Is the MSDS updated annually?	✓		
• Are students made aware of fire safety equipment i.e. extinguisher, fire blanket?	✓		
• Are students aware of eyewash stations, first aid kit, and emergency procedure manual?	✓		
Comment:			
7. Supplies	Y	N	N/A
• Are the animals purchased from USDA vendors?	✓		
• Is the feed formulated for laboratory animals?	✓		
• Is the bedding purchased from suitable manufacturers?	✓		
Comment:			
8. Sanitation:	Y	N	N/A
• Is waste stored and removed in an efficient manner?	✓		
• Are dead animals disposed of properly?	✓		
• Are the proper disinfectants and sanitation procedures used on equipment and the facility?	✓		
• Is there a suitable housekeeping procedure?	✓		
Comment:			
9. Animal Care Procedures:	Y	N	N/A
• Is there access to the written animal care policy of Gaston College?	✓		
• Are the animal care procedures adequate for the animals used by the program?	✓		
• Are animals handled and restrained humanly during transport from the Gaston County Animal Shelter to the Gaston College Veterinary Medical Technology Building?	✓		
Comments:			

Part 2: Physical Plant and Records:

1. Physical Plant	Y	N	N/A
• Is there sufficient area available to perform the required function:			
○ Separation of Species	✓		
○ Receiving, quarantine, and isolation of animals?	✓		
○ Storage of food, bedding, and other supplies	✓		
○ Storage of caging and caging parts	✓		
○ Personnel areas	✓		
○ Washing and sanitation of equipment	✓		
○ Waste Storage	✓		
○ Containment of biohazardous waste?	✓		
○ Performance of procedures?	✓		
○ Surgical preparation area?	✓		
• Are the animal rooms clean?	✓		
• Are the floors smooth, moisture proof, and skid-proof?	✓		
• Are the walls free of cracks and leaks?	✓		
• Are the light fixtures clean of vermin?	✓		
• Is the building free of vermin?	✓		
• Are the floors clear of standing water?	✓		
• Is there adequate lighting in the animal area and in the procedure areas?	✓		
• Is there adequate ventilation in the animal areas and in the procedure areas?	✓		
Comment:			
2. Housing	Y	N	N/A
• Do the cages in the Veterinary Medical Technology Building:			
○ Provide adequate space as defined by <u>The Animal Welfare Act</u> ?	✓		
○ Do the cages provide natural postural movement and adjustments?	✓		
○ Provide an elevated area for cats?	✓		
○ Are they escape-proof?	✓		
○ Are they free of defects and sharp edges?	✓		
○ Are they easily accessible?	✓		
○ Do they keep the animals dry?	✓		
○ Provide access to food and water?	✓		
○ Provide proper social groupings?	✓		
○ Have adequate records for each cage?	✓		
○ Have suitable labeling system?	✓		
2. Housing cont.	Y	N	N/A
•Comment:			

• Do the cages in the Gaston County Animal Shelter:			
○ Provide adequate space as defined by <u>The Animal Welfare Act?</u>	✓		
○ Do the cages provide natural postural movement and adjustments?	✓		
○ Are they escape-proof?	✓		
○ Are they free of defects and sharp edges?	✓	✓	
○ Are they easily accessible?	✓		
○ Do they keep the animals dry?	✓		
○ Provide access to food and water?	✓		
○ Provide proper social groupings?	✓		
○ Have adequate records for each cage?	✓		
○ Have suitable labeling system?	✓		
Comments: <i>Wire between two pens pulled back enough for dog's nose to go through.</i>			
3. Environment:	Y	N	N/A
• Does the environment in the Veterinary Medical Technology Building:	✓		
○ Provide proper temperatures as stated in the AWA?	✓		
○ Provide proper humidity as stated in the AWA?	✓		
○ Provide proper ventilation as stated in the AWA?	✓		
○ Provide proper lighting as stated in the AWA?	✓		
○ IS the noise level suitable for the animals/employees?	✓		
Comment:			
• Does the environment in the Gaston County Animal shelter:			
○ Provide proper temperatures as stated in the AWA?	✓		
○ Provide proper humidity as stated in the AWA?	✓		
○ Provide proper ventilation as stated the AWA?	✓		
○ Provide proper lighting as stated in the AWA?	✓		
○ IS the noise level suitable for the animals/employees?	✓		
Comment:			
4. Food	Y	N	N/A
• Do feed containers allow easy access without contamination with urine or feces?	✓		
• Is unused feed kept off of the floor in a cool dry area free of vermin?	✓		
• Is the feed monitored for expiration date?	✓		
• Is feed stored with chemicals?	✓		
• IS feed rotated?	✓		

4. Food/cont.	Y	N	N/A
• Is open feed stored in a dry, cool place in a container with a tight fitting lid?	✓		
• Is open feed kept free of vermin?	✓		
Comments:			
5. Bedding	Y	N	N/A
• Is the bedding used sufficient for animal and is it changed often enough?	✓		
• Is bedding changed often enough to prevent standing urine or feces?	✓		
• Is the bedding stored in a dry, cool place off of the floor and away from vermin?	✓		
• Is bedding stored with chemicals?	✓	✓	
• Is open bedding stored in an airtight container?	✓		
Comments:			
6. Water:	Y	N	N/A
• Do the animals have continuous access to fresh, potable water?	✓		
• Is the water monitored for pH, hardness, and/or microbial and chemical contamination?	✓		
• Are watering devices cleaned regularly?	✓		
Comments:			
7. Sanitation:	Y	N	N/A
• Are the rooms clear of debris, dirt, and contamination?	✓		
• Are the walls and floors clean of debris, dirt, and contamination?	✓		
• Are animals kept dry and safe during cleaning procedures?	✓		
• Is litter and debris stored in covered containers and removed frequently?	✓		
• Are cleaning chemicals stored properly away from the animals?	✓		
• Is there evidence of vermin?	✓		
• Are the employee/ student areas clean?	✓		
• Is the trash removed from the building?	✓		
Comments:			
8. Animal Records	Y	N	N/A
• Is each animal identified?	✓		
• Do all animals have a written health record?	✓		
• Are records kept of all procedures performed on the animal?	✓		
• Are records kept of all medications and drugs administered to the animal?	✓		
Comment:			

9. Veterinary Care	Y	N	N/A
• Are all animals observed by Veterinary Medical Technology staff on a daily basis?	✓		
• Are animals treated for illness?	✓		
• Are anesthetic procedures performed properly and safely?	✓		
• Are any of the animals exhibiting illness, pain, or behavioral abnormalities?	✓		
Comment:			
10. Storage:	Y	N	N/A
• Are all items labeled and organized?	✓		
• Are items stored properly?	✓		
• Are inventory items recorded?	✓		
• Are items within expiration date?	✓		
• IS there adequate storage?	✓		
• Comment:			

Certification Statement:

I, a member of the IACUC for the Gaston College Department of Veterinary Medical Technology Program, have inspected the facilities and agree to the results of the inspection above.

1. J. M. Gordon
 2. D. S.
 3. [Signature]

Date: 11-17-2017

Date: 11-17-2017

Date: 11-17-2017

Gaston College
Veterinary Medical Technology Program
Semiannual Program and Facility Review Checklist

Date of Inspection: 11/17/17

Members Present for Inspection: Melanie Skinner [REDACTED] Jane Goodson Jason Doukas Cortney Barkley
Postell

No deficiencies found.

Deficiency Category (S or M)	*	Location	Deficiency & Plan for Correction	Responsible Party	Correction Schedule	Date Completed
M		Vet Tech Runs at GCACE	Wire between two runs pulled back enough for dog's nose to go through, shelter has someone coming in to fix runs and will add this to list.	GCACE	Within the month	Was completed on an unknown date over Christmas break.

S = significant Deficiency

M = minor Deficiency

* = Check if repeated deficiency

IACUC SEMI-ANNUAL FACILITY INSPECTION
AND PROGRAM REVIEW SIGNATURE SHEET

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Please RETURN THIS SHEET TO THE IACUC CHAIRPERSON **WITHIN ONE WEEK OF RECEIPT** mail to: Gaston College

or Fax: Attn: Melanie Skinner
Vet Med Tech 704-922-2333
Attn: Melanie Skinner
201 Hwy 321 South
Dallas, NC 28034

Date Sent 4/19/18

I HAVE READ AND REVIEWED THE ATTACHED SEMI-ANNUAL FACILITY INSPECTION AND PROGRAM REVIEW
CONDUCTED ON 11/17/17

AND I:

☒ AGREE with the report as written.

() DISAGREE with the report as written. I disagree with the following:

 4/23/18

Member Signature

Date

Return To: Melanie Skinner, IACUC Chair

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CONDUCTED ON 11/17/17
AND I:

☒ AGREE with the report as written.

() DISAGREE with the report as written. I disagree with the following:


Member Signature

4/23/18
Date

Return To: Melanie Skinner, IACUC Chair

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CONDUCTED ON 11/17/17
AND I:

() AGREE with the report as written.

() DISAGREE with the report as written. I disagree with the following:



Member Signature



Date

Return To: Melanie Skinner, IACUC Chair

**Gaston College
Veterinary Medical Technology
IACUC Meeting Minutes
Spring 2018**

Date of Meeting: 4/16/18 @ 2:30pm

Members Present: Jason Doukas, DVM (Chairperson)
Melanie Skinner, RVT
Cortney Barkley-Postell, DVM

Members Absent: [REDACTED] Jane Goodson, RN, MSN

The meeting opened at 2:30pm at the Veterinary Medical Technology Building.

The meeting began with the review of protocols. Protocols were discussed and following are changes made:

No changes to the previous protocols voted on today

- Discussed revising some of the protocols and analgesia requirements as follows:
 - Currently each protocol has several options for analgesia and a specific dosage for that medication. Dr. Doukas will revise the existing protocols to allow for the DVM's discretion to pick the proper analgesia and dosage to be used. Previous drug choices and dosages were out of date and recent studies have shown better options. Dr. Doukas will bring these changes to the Fall 2018 meeting to be voted on and approved.
 - Dr. Doukas will like to add local anesthetic protocols to several of the procedures done to improve analgesia on the patients. This will include and not limited to incisional blocks and testicular blocks. He will have these protocols to be reviewed and voted on for the Fall 2018 meeting.
 - The previous dental radiography protocols pertain to using table top radiographs and not utilizing the intra-oral dental x-ray unit. Dr. Doukas will amend those protocols to update them and have them reviewed and voted on for the Fall 2018 meeting.

The facility inspection proceeded at 3:00 pm. Four cats were housed in the Vet Tech building and four dogs in the runs at GCAC at the time of inspection.

- Part 1: IACUC Program
 - all passed without comment or concern
- Part 2: Physical Plant and Records
 - 1. Physical Plant: all passed without comment or concern
 - 2. Housing: all passed without comment or concern
 - 3. Environment: all passed without comment or concern
 - 4. Food: all passed without comment or concern
 - 5. Bedding: all passed without comment or concern
 - 6. Water: all passed without comment or concern
 - 7. Sanitation: all passed without comment or concern
 - 8. Animal Records: all passed without comment or concern
 - 9. Veterinary Care: all passed without comment or concern
 - 10. Storage: all passed without comment or concern

The meeting adjourned at 3:30 pm

IACUC SEMI-ANNUAL FACILITY INSPECTION AND PROGRAM REVIEW SIGNATURE SHEET

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mail to: Gaston College or Fax: Attn: Jason Doukas
Vet Med Tech 704-922-2333
Attn: Melanie Skinner
201 Hwy 321 South
Dallas, NC 28034

Date Sent 4/26/18

I HAVE READ AND REVIEWED THE ATTACHED SEMI-ANNUAL FACILITY INSPECTION AND PROGRAM REVIEW CONDUCTED ON 4/16/18 AND I:

(✓) AGREE with the report as written.

() DISAGREE with the report as written. I disagree with the following:

Member Signature _____

Date _____

Return To: Jason Doukas, IACUC Chair:

IACUC SEMI-ANNUAL FACILITY INSPECTION
AND PROGRAM REVIEW SIGNATURE SHEET

To comply with USDA policy, a majority of the IACUC members must review and approve the facility inspection and program review before it can be submitted to the Institutional Official. In order to submit the report in a timely manner, please review the attached copy of the report, indicate any minority views and sign this sheet.

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Vet Med Tech 704-922-2333
Attn: Melanie Skinner
201 Hwy 321 South
Dallas, NC 28034

Date Sent _4/26/18

I HAVE READ AND REVIEWED THE ATTACHED SEMI-ANNUAL FACILITY INSPECTION AND PROGRAM REVIEW CONDUCTED ON 4/16/18 AND I:

☒ AGREE with the report as written.

☐ DISAGREE with the report as written. I disagree with the following:


Member Signature

5-1-18

Date

Return To: Jason Doukas, IACUC Chair:

IACUC SEMI-ANNUAL FACILITY INSPECTION
AND PROGRAM REVIEW SIGNATURE SHEET

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Attn: Melanie Skinner
201 Hwy 321 South
Dallas, NC 28034

Date Sent 4/26/18

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☒ AGREE with the report as written.

() DISAGREE with the report as written. I disagree with the following:

7/2/18 D.S. 5-1-18
Member Signature Date

Return To: Jason Doukas, IACUC Chair:

Gaston College Veterinary Medical Technology Semiannual Program Review and Facility Inspection

Date: April 16, 2018

Time: 3:00PM

Inspector: Melanie Skinner, Jason Doukas, and Cortney Barkley-Postell

Part I: IACUC Program

1. IACUC Membership	Y	N	N/A
• At least 3 members on committee	<u>X</u>		
• Members include: veterinarian, scientist, non-scientist and non-affiliated non-laboratory animal user.	<u>X</u>		
• IACUC oversees and evaluates the institution's program	<u>X</u>		
• IACUC conducts a semiannual inspection of institutional animal facilities	<u>X</u>		
• IACUC reviews protocols semiannually	<u>X</u>		
• IACUC develops policies for special procedures	<u>X</u>		
• IACUC evaluates pain managements for each protocol	<u>X</u>		
2. IACUC Records and Reporting	Y	N	N/A
• Reports of semiannual program review and facility inspection submitted to Institutional Official	<u>X</u>		
• Describe plan for correction of any deficiencies identified by the IACUC	<u>X</u>		
• Provide Annual Report to the United States Department of Agriculture	<u>X</u>		
• IACUC minutes and semiannual reports kept for minimum of 3 years	<u>X</u>		
• IACUC minutes and semiannual reports signed by all members of IACUC and Institutional Official	<u>X</u>		
3. Veterinary Care	Y	N	N/A
• Are veterinary services available	<u>X</u>		
• Are the veterinary services available on full time basis?	<u>X</u>		
• Is veterinary care available after hours, on weekends, and on holidays?	<u>X</u>		
• Are procedures available for reporting sick animals?	<u>X</u>		
• Are health monitoring procedures in place?	<u>X</u>		
• Comment:			
4. Personnel	Y	N	N/A
• Does the number of employees appear to be adequate?	<u>X</u>		
• Do employees participate in regular continuing education programs?	<u>X</u>		
• Is the staff qualified to handle hazardous materials?	<u>X</u>		
Comment:			
5. Personnel Hygiene	Y	N	N/A
• Is the employee/student dress code suitable for work with laboratory animals?	<u>X</u>		
• Is a locker room/restroom available for employees and students?	<u>X</u>		

• Is smoking, eating or drinking allowed in the animal rooms or procedure rooms?		<u>X</u>	
Comment:			
6. Occupational Health Program	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Individual responsible for the occupational health program:	<u>X</u>		
• Are employee/student health records available?	<u>X</u>		
• Are employees/students supplied with suitable safety equipment?	<u>X</u>		
• Are employee/students informed of zoonotic diseases?	<u>X</u>		
• Is the MSD/SDS available in the procedure rooms?	<u>X</u>		
• Is the MSDS/SDS updated annually?	<u>X</u>		
• Are students made aware of fire safety equipment i.e. extinguisher, fire blanket?	<u>X</u>		
• Are students aware of eyewash stations, first aid kit, and emergency procedure manual?	X		
Comment:			
7. Supplies	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Are the animals purchased from USDA vendors?	<u>X</u>		
• Is the feed formulated for laboratory animals?	<u>X</u>		
• Is the bedding purchased from suitable manufacturers?	<u>X</u>		
Comment:			
8. Sanitation:	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Is waste stored and removed in an efficient manner?	<u>X</u>		
• Are dead animals disposed of properly?	<u>X</u>		
• Are the proper disinfectants and sanitation procedures used on equipment and the facility?	<u>X</u>		
• Is there a suitable housekeeping procedure?	<u>X</u>		
Comment:			
9. Animal Care Procedures	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Is there access to the written animal care policy of Gaston College?	<u>X</u>		
• Are the animal care procedures adequate for the animals used by the program?	<u>X</u>		
• Are animals handled and restrained humanly during transport from the Gaston County Animal Shelter to the Gaston College Veterinary Medical Technology Building?	<u>X</u>		
Comments:			

Part 2: Physical Plant and Records:

1. Physical Plant	Y	N	N/A
• Is there sufficient area available to perform the required function:			
○ Separation of Species	X		
○ Receiving, quarantine, and isolation of animals?	X		
○ Storage of food, bedding, and other supplies	X		
○ Storage of caging and caging parts	X		
○ Personnel areas	X		
○ Washing and sanitation of equipment	X		
○ Waste Storage	X		
○ Containment of biohazardous waste?	X		
○ Performance of procedures?	X		
○ Surgical preparation area?	X		
• Are the animal rooms clean?	X		
• Are the floors smooth, moisture proof, and skid-proof?	X		
• Are the walls free of cracks and leaks?	X		
• Are the light fixtures clean of vermin?	X		
• Is the building free of vermin?	X		
• Are the floors clear of standing water?	X		
• Is there adequate lighting in the animal area and in the procedure areas?	X		
• Is there adequate ventilation in the animal areas and in the procedure areas?	X		
Comment:			
2. Housing	Y	N	N/A
• Do the cages in the Veterinary Medical Technology Building:			
○ Provide adequate space as defined by <u>The Animal Welfare Act</u> ?	X		
○ Do the cages provide natural postural movement and adjustments?	X		
○ Provide an elevated area for cats?	X		
○ Are they escape-proof?	X		
○ Are they free of defects and sharp edges?	X		
○ Are they easily accessible?	X		
○ Do they keep the animals dry?	X		
○ Provide access to food and water?	X		
○ Provide proper social groupings?	X		
○ Have adequate records for each cage?	X		
○ Have suitable labeling system?	X		
2. Housing cont.	Y	N	N/A
•Comment:			

• Do the cages in the Gaston County Animal Shelter:			
○ Provide adequate space as defined by <u>The Animal Welfare Act</u> ?	X		
○ Do the cages provide natural postural movement and adjustments?	X		
○ Are they escape-proof?	X		
○ Are they free of defects and sharp edges?	X		
○ Are they easily accessible?	X		
○ Do they keep the animals dry?	X		
○ Provide access to food and water?	X		
○ Provide proper social groupings?	X		
○ Have adequate records for each cage?	X		
○ Have suitable labeling system?	X		
Comments:			
3. Environment:	Y	N	N/A
• Does the environment in the Veterinary Medical Technology Building:			
○ Provide proper temperatures as stated in the AWA?	X		
○ Provide proper humidity as stated in the AWA?	X		
○ Provide proper ventilation as stated in the AWA?	X		
○ Provide proper lighting as stated in the AWA?	X		
○ IS the noise level suitable for the animals/employees?	X		
Comment:			
• Does the environment in the Gaston County Animal shelter:			
○ Provide proper temperatures as stated in the AWA?	X		
○ Provide proper humidity as stated in the AWA?	X		
○ Provide proper ventilation as stated the AWA?	X		
○ Provide proper lighting as stated in the AWA?	X		
○ IS the noise level suitable for the animals/employees?	X		
Comment:			
4. Food	Y	N	N/A
• Do feed containers allow easy access without contamination with urine or feces?	X		
• Is unused feed kept off of the floor in a cool dry area free of vermin?	X		
• Is the feed monitored for expiration date?	X		
• Is feed stored with chemicals?		X	
• IS feed rotated?	X		

4. Food cont.	Y	N	N/A
• Is open feed stored in a dry, cool place in a container with a tight fitting lid?	X		
• Is open feed kept free of vermin?	X		
Comments:			
5. Bedding	Y	N	N/A
• Is the bedding used sufficient for animal and is it changed often enough?	X		
• Is bedding changed often enough to prevent standing urine or feces?	X		
• Is the bedding stored in a dry, cool place off of the floor and away from vermin?	X		
• Is bedding stored with chemicals?		X	
• Is open bedding stored in an airtight container?	X		
Comments:			
6. Water:	Y	N	N/A
• Do the animals have continuous access to fresh, potable water?	X		
• Is the water monitored for pH, hardness, and/or microbial and chemical contamination?	X		
• Are watering devices cleaned regularly?	X		
Comments:			
7. Sanitation:	Y	N	N/A
• Are the rooms clear of debris, dirt, and contamination?	X		
• Are the walls and floors clean of debris, dirt, and contamination?	X		
• Are animals kept dry and safe during cleaning procedures?	X		
• Is litter and debris stored in covered containers and removed frequently?	X		
• Are cleaning chemicals stored properly away from the animals?	X		
• Is there evidence of vermin?		X	
• Are the employee/ student areas clean?	X		
• Is the trash removed from the building?	X		
Comments:			
8. Animal Records	Y	N	N/A
• Is each animal identified?	X		
• Do all animals have a written health record?	X		
• Are records kept of all procedures performed on the animal?	X		
• Are records kept of all medications and drugs administered to the animal?	X		
Comment:			

Memorandum to: Dr. Patricia Skinner

From: Institutional Animal Care and Use Committee

Subject: Semiannual Evaluation of Animal Care and Use Program and Inspection of Facilities

Date: 10/24/18

This represents the semiannual report of the Institutional Animal Care and Use Committee (IACUC), as required by the USDA Animal Welfare Regulations, 9 CFR Chapter I, subchapter A, as applicable.

Evaluation of the Animal Care and Use Program

Protocol changes were discussed and approved. They are as follows:

- 1. When determining the number of needle sticks a patient may receive in a day we added a protocol for local anesthetic blocks.** "If performing a local anesthetic block for pain control and relief purposes, it will not be counted towards the daily allowed needle sticks. Such procedures may include; but are not limited to an incisional block, testicular block, or dental block." Since this procedure will decrease the pain the animal experiences it was agreed that it should not count toward the daily needle stick allowance.
- 2. Included a chart of analgesia and local anesthetic block drugs and dosages.** The doctor may pick from any of the drugs and dosages depending on the degree of pain and/or sedation required for the patient. This chart will be reviewed by Dr. Doukas and Dr. Barkley to ensure the dosages are all agreed upon.
- 3. Use of injectable meloxicam was discussed for post-operative pain control in cats** to then be followed by oral doses for 3 consecutive days. Dr. Doukas and Dr. Barkley will review this option and if it also not cost prohibitive will be reviewed to make it into the protocol at the next meeting.
- 4. Canine 04: Dental Techniques and Radiographs in the Canine**
 - Revised the procedure for performing intraoral dental radiographs to read as following:
"Dental Radiographic Techniques:
a) The animal will then be taken to radiology room for selected radiographs.
b) The animal will be placed in right, left, ventrodorsal, or dorsoventral recumbency depending on the side to be radiographed.
c) For the maxillary incisors, canine teeth, premolar teeth, and molar teeth the bisecting angle technique will be used to acquire the radiographic images. For the mandibular incisors and canine teeth the bisecting angle technique will be used to acquire the images. For the mandibular premolar and molar teeth the parallel technique will be used. The endotracheal tube will be tied with gauze to prevent movement of the tube along the muzzle or behind the ears depending on the breed of animal and area that is being imaged. At any point that the animal needs to be moved, the anesthesia machine will be detached from the endotracheal tube prior to moving the animal. The anesthesia machine will be hooked back up to the endotracheal tube after the animal has been repositioned."

5. Feline 04: Dental Techniques and Radiographs in the Feline

- Revised the procedure for performing intraoral dental radiographs to read as following:
“Dental Radiographic Techniques:
a) The animal will then be taken to radiology room for selected radiographs.
b) The animal will be placed in right, left, ventrodorsal, or dorsoventral recumbency depending on the side to be radiographed.
c) For the maxillary incisors, canine teeth, premolar teeth, and molar teeth the bisecting angle technique will be used to acquire the radiographic images. For the mandibular incisors and canine teeth the bisecting angle technique will be used to acquire the images. For the mandibular premolar and molar teeth the parallel technique will be used. The endotracheal tube will be tied with gauze to prevent movement of the tube along the muzzle or behind the ears depending on the breed of animal and area that is being imaged. At any point that the animal needs to be moved, the anesthesia machine will be detached from the endotracheal tube prior to moving the animal. The anesthesia machine will be hooked back up to the endotracheal tube after the animal has been repositioned.”

The IACUC inspected the animal facilities on October 22, 2018, using the *Animal Welfare Act and Animal Welfare Regulations*.

No deficiencies were found upon inspection in the animal facilities of the Veterinary Technology Building or the GCVMT runs in GCACE.

CANINE October 2017 - October 2018

	Total	Invasive	Anesthesia	Analgesia	Surgery	Radiology	Dental	Anesth/A	No Pain
Totals	114	114	61	95	25	37	11	96	18

FELINE October 2017 - October 2018

	Total	Invasive	Anesthesia	Analgesia	Surgery	Radiology	Dental	Anesth/A	No Pain
Totals	96	95	59	75	21	28	6	77	19

Chickens	8
Horses	10
Cattle	8
Rabbits	8
Rats	16
Mice	15
Sheep	6
Goats	6

Gaston College Veterinary Medical Technology Semiannual Program Review and Facility Inspection

Date: 10/22/18

Time: 3:15 pm

Inspector: Taron Douglas, Melara Skinner, & Corby Berkeley

Part I: IACUC Program

<u>1. IACUC Membership</u>	<u>Y</u>	<u>N</u>	<u>N/A</u>
• At least 3 members on committee	✓		
• Members include: veterinarian, scientist, non-scientist and non-affiliated non-laboratory animal user.	✓		
• IACUC oversees and evaluates the institution's program	✓		
• IACUC conducts a semiannual inspection of institutional animal facilities	✓		
• IACUC reviews protocols semiannually	✓		
• IACUC develops policies for special procedures	✓		
• IACUC evaluates pain managements for each protocol	✓		
<u>2. IACUC Records and Reporting</u>	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Reports of semiannual program review and facility inspection submitted to Institutional Official	✓		
• Describe plan for correction of any deficiencies identified by the IACUC	✓		
• Provide Annual Report to the United States Department of Agriculture	✓		
• IACUC minutes and semiannual reports kept for minimum of 3 years	✓		
• IACUC minutes and semiannual reports signed by all members of IACUC and Institutional Official	✓		
<u>3. Veterinary Care</u>	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Are veterinary services available	✓		
• Are the veterinary services available on full time basis?	✓		
• Is veterinary care available after hours, on weekends, and on holidays?	✓		
• Are procedures available for reporting sick animals?	✓		
• Are health monitoring procedures in place?	✓		
• Comment:			
<u>4. Personnel</u>	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Does the number of employees appear to be adequate?	✓		
• Do employees participate in regular continuing education programs?	✓		
• Is the staff qualified to handle hazardous materials?	✓		
• Comment:			
<u>5. Personnel Hygiene</u>	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Is the employee/student dress code suitable for work with laboratory animals?	✓		
• Is a locker room/restroom available for employees and students?	✓		

• Is smoking, eating or drinking allowed in the animal rooms or procedure rooms?		✓	
Comment:			
6. Occupational Health Program	Y	N	N/A
• Individual responsible for the occupational health program:	✓		
• Are employee/student health records available?	✓		
• Are employees/students supplied with suitable safety equipment?	✓		
• Are employee/students informed of zoonotic diseases?	✓		
• Is the MSD/SDS available in the procedure rooms?	✓		
• Is the MSDS/SDS updated annually?	✓		
• Are students made aware of fire safety equipment i.e. extinguisher, fire blanket?	✓		
• Are students aware of eyewash stations, first aid kit, and emergency procedure manual?	✓		
Comment:			
7. Supplies	Y	N	N/A
• Are the animals purchased from USDA vendors?	✓		
• Is the feed formulated for laboratory animals?	✓		
• Is the bedding purchased from suitable manufacturers?	✓		
Comment:			
8. Sanitation:	Y	N	N/A
• Is waste stored and removed in an efficient manner?	✓		
• Are dead animals disposed of properly?	✓		
• Are the proper disinfectants and sanitation procedures used on equipment and the facility?	✓		
• Is there a suitable housekeeping procedure?	✓		
Comment:			
9. Animal Care Procedures	Y	N	N/A
• Is there access to the written animal care policy of Gaston College?	✓		
• Are the animal care procedures adequate for the animals used by the program?	✓		
• Are animals handled and restrained humanly during transport from the Gaston County Animal Shelter to the Gaston College Veterinary Medical Technology Building?	✓		
Comments:			

Part 2: Physical Plant and Records:

1. Physical Plant	Y	N	N/A
• Is there sufficient area available to perform the required function:			
o Separation of Species	✓		
o Receiving, quarantine, and isolation of animals?	✓		
o Storage of food, bedding, and other supplies	✓		
o Storage of caging and caging parts	✓		
o Personnel areas	✓		
o Washing and sanitation of equipment	✓		
o Waste Storage	✓		
o Containment of biohazardous waste?	✓		
o Performance of procedures?	✓		
o Surgical preparation area?	✓		
• Are the animal rooms clean?	✓		
• Are the floors smooth, moisture proof, and skid-proof?	✓		
• Are the walls free of cracks and leaks?	✓		
• Are the light fixtures clean of vermin?	✓		
• Is the building free of vermin?	✓		
• Are the floors clear of standing water?	✓		
• Is there adequate lighting in the animal area and in the procedure areas?	✓		
• Is there adequate ventilation in the animal areas and in the procedure areas?	✓		
Comment:			
2. Housing	Y	N	N/A
• Do the cages in the Veterinary Medical Technology Building:			
o Provide adequate space as defined by <u>The Animal Welfare Act</u> ?	✓		
o Do the cages provide natural postural movement and adjustments?	✓		
o Provide an elevated area for cats?	✓		
o Are they escape-proof?	✓		
o Are they free of defects and sharp edges?	✓		
o Are they easily accessible?	✓		
o Do they keep the animals dry?	✓		
o Provide access to food and water?	✓		
o Provide proper social groupings?	✓		
o Have adequate records for each cage?	✓		
o Have suitable labeling system?	✓		
2. Housing cont.	Y	N	N/A
•Comment:			


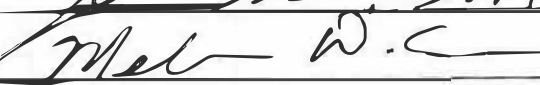

• Do the cages in the Gaston County Animal Shelter:			
○ Provide adequate space as defined by <u>The Animal Welfare Act</u> ?	✓		
○ Do the cages provide natural postural movement and adjustments?	✓		
○ Are they escape-proof?	✓		
○ Are they free of defects and sharp edges?	✓		
○ Are they easily accessible?	✓		
○ Do they keep the animals dry?	✓		
○ Provide access to food and water?	✓		
○ Provide proper social groupings?	✓		
○ Have adequate records for each cage?	✓		
○ Have suitable labeling system?	✓		
Comments:			
3. Environment:	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Does the environment in the Veterinary Medical Technology Building:			
○ Provide proper temperatures as stated in the AWA?	✓		
○ Provide proper humidity as stated in the AWA?	✓		
○ Provide proper ventilation as stated in the AWA?	✓		
○ Provide proper lighting as stated in the AWA?	✓		
○ IS the noise level suitable for the animals/employees?	✓		
Comment:			
• Does the environment in the Gaston County Animal shelter:			
○ Provide proper temperatures as stated in the AWA?	✓		
○ Provide proper humidity as stated in the AWA?	✓		
○ Provide proper ventilation as stated the AWA?	✓		
○ Provide proper lighting as stated in the AWA?	✓		
○ IS the noise level suitable for the animals/employees?	✓		
Comment:			
4. Food	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Do feed containers allow easy access without contamination with urine or feces?	✓		
• Is unused feed kept off of the floor in a cool dry area free of vermin?	✓		
• Is the feed monitored for expiration date?	✓		
• Is feed stored with chemicals?		✓	
• IS feed rotated?	✓		

4. Food cont.	Y	N	N/A
• Is open feed stored in a dry, cool place in a container with a tight fitting lid?	✓		
• Is open feed kept free of vermin?	✓		
Comments:			
5. Bedding	Y	N	N/A
• Is the bedding used sufficient for animal and is it changed often enough?	✓		
• Is bedding changed often enough to prevent standing urine or feces?	✓		
• Is the bedding stored in a dry, cool place off of the floor and away from vermin?	✓		
• Is bedding stored with chemicals?		✓	
• Is open bedding stored in an airtight container?	✓		
Comments:			
6. Water:	Y	N	N/A
• Do the animals have continuous access to fresh, potable water?	✓		
• Is the water monitored for pH, hardness, and/or microbial and chemical contamination?	✓		
• Are watering devices cleaned regularly?	✓		
Comments:			
7. Sanitation:	Y	N	N/A
• Are the rooms clear of debris, dirt, and contamination?	✓		
• Are the walls and floors clean of debris, dirt, and contamination?	✓		
• Are animals kept dry and safe during cleaning procedures?	✓		
• Is litter and debris stored in covered containers and removed frequently?	✓		
• Are cleaning chemicals stored properly away from the animals?	✓		
• Is there evidence of vermin?		✓	
• Are the employee/ student areas clean?	✓		
• Is the trash removed from the building?	✓		
Comments:			
8. Animal Records	Y	N	N/A
• Is each animal identified?	✓		
• Do all animals have a written health record?	✓		
• Are records kept of all procedures performed on the animal?	✓		
• Are records kept of all medications and drugs administered to the animal?	✓		
Comment:			

9. Veterinary Care	Y	N	N/A
• Are all animals observed by Veterinary Medical Technology staff on a daily basis?	✓		
• Are animals treated for illness?	✓		
• Are anesthetic procedures performed properly and safely?	✓		
• Are any of the animals exhibiting illness, pain, or behavioral abnormalities?		✓	
Comment:			
10. Storage:	Y	N	N/A
• Are all items labeled and organized?	✓		
• Are items stored properly?	✓		
• Are inventory items recorded?	✓		
• Are items within expiration date?	✓		
• IS there adequate storage?	✓		
• Comment:			

Certification Statement:

I, a member of the IACUC for the Gaston College Department of Veterinary Medical Technology Program, have inspected the facilities and agree to the results of the inspection above.

1. <u></u>	Date: <u>10/22/18</u>
2. <u></u>	Date: <u>10/22/18</u>
3. <u></u>	Date: <u>10/22/18</u>
4. _____	Date: _____
5. _____	Date: _____

**Gaston College
Veterinary Medical Technology
IACUC Meeting Minutes
Fall 2018**

Date of Meeting: October 22, 2018 2:30 pm
Members Present: Jason Doukas, DVM (Chairperson)
Cortney Barkley-Postell, DVM
Melanie Skinner, RVT

Members Absent: [REDACTED] Jane Goodson, RN, MSN

The meeting opened at 2:30pm at the Veterinary Medical Technology Building.

The number of animals used from October 2017 to October 2018 was discussed and protocols were reviewed.

The numbers are as follows:

- Avian 01, Techniques in the Avian: 8
- Bovine 01, Non-Invasive Techniques in Cattle: 8
- Bovine 02, Invasive Techniques in Cattle: 8
- Canine 01, Non-Invasive Techniques of Dogs: 114
- Canine 02, Invasive Techniques of the Canine: 114
- Canine 03, Anesthesia of the Dog: 61
- Canine 04, Dental Techniques and Radiographs in the Dog: 48
- Canine 05, Blood Collection for Transfusion/Blood Transfusion: 2
- Caprine 01, Basic Caprine Restraint, Physical Exam, Dose Syringe, Venipuncture: 6
- Equine 01, Non-Invasive Techniques of the Equine: 10
- Equine 02, Invasive Techniques in the Horse: 10
- Feline 01, Non-Invasive Diagnostic Techniques in Cats: 96
- Feline 02, Invasive Techniques of the Feline: 95
- Feline 03, Anesthetic Techniques of the Cat: 59
- Feline 04, Dental Techniques and Dental Radiographs of the Cat: 6
- Rabbit 01, Non-Invasive Techniques of the Rabbit: 8
- Rabbit 02, Invasive Techniques of the Rabbit: 8
- Rat and Mouse 01, Techniques in the Rat and Mouse: 16 rats and 15 mice

Protocol changes were discussed and approved. They are as follows:

- 1. When determining the number of needle sticks a patient may receive in a day we added a protocol for local anesthetic blocks.** "If performing a local anesthetic block for pain control and relief purposes, it will not be counted towards the daily allowed needle sticks. Such procedures may include; but are not limited to an incisional block, testicular block, or dental block." Since this procedure will decrease the pain the animal experiences it was agreed that it should not count toward the daily needle stick allowance.
- 2. Included a chart of analgesia and local anesthetic block drugs and dosages.** The doctor may pick from any of the drugs and dosages depending on the degree of pain and/or sedation required for the patient. This chart will be reviewed by Dr. Doukas and Dr. Barkley to ensure the dosages are all agreed upon.
- 3. Use of injectable meloxicam was discussed for post-operative pain control in cats** to then be followed by oral doses for 3 consecutive days. Dr. Doukas and Dr. Barkley will review this option and if it also not cost prohibitive will be reviewed to make it into the protocol at the next meeting.
- 4. Canine 01: Non-invasive Techniques of the Canine**
 - There were no changes made to this protocol.
- 5. Canine 02: Invasive Techniques of the Canine**
 - There were no changes made to this protocol.
- 6. Canine 03: Anesthesia of the Canine**
 - There were no changes made to this protocol
- 7. Canine 04: Dental Techniques and Radiographs in the Canine**
 - Revised the procedure for performing intraoral dental radiographs to read as following:
"Dental Radiographic Techniques:
a) The animal will then be taken to radiology room for selected radiographs.
b) The animal will be placed in right, left, ventrodorsal, or dorsoventral recumbency depending on the side to be radiographed.
c) For the maxillary incisors, canine teeth, premolar teeth, and molar teeth the bisecting angle technique will be used to acquire the radiographic images. For the mandibular incisors and canine teeth the bisecting angle technique will be used to acquire the images. For the mandibular premolar and molar teeth the parallel technique will be used. The endotracheal

tube will be tied with gauze to prevent movement of the tube along the muzzle or behind the ears depending on the breed of animal and area that is being imaged. At any point that the animal needs to be moved, the anesthesia machine will be detached from the endotracheal tube prior to moving the animal. The anesthesia machine will be hooked back up to the endotracheal tube after the animal has been repositioned."

8. Canine 05: Blood Collection for Transfusion/Blood Transfusion

- There were no changes made to this protocol.

9. Feline 01: Non-Invasive Techniques of the Feline

- There were no changes made to this protocol.

10. Feline 02: Invasive Techniques of the Feline

- There were no changes made to this protocol.

11. Feline 03: Anesthetic Techniques of the Feline

- There were no changes made to this protocol

12. Feline 04: Dental Techniques and Radiographs in the Feline

- Revised the procedure for performing intraoral dental radiographs to read as following:
"Dental Radiographic Techniques:
a) The animal will then be taken to radiology room for selected radiographs.
b) The animal will be placed in right, left, ventrodorsal, or dorsoventral recumbency depending on the side to be radiographed.
c) For the maxillary incisors, canine teeth, premolar teeth, and molar teeth the bisecting angle technique will be used to acquire the radiographic images. For the mandibular incisors and canine teeth the bisecting angle technique will be used to acquire the images. For the mandibular premolar and molar teeth the parallel technique will be used. The endotracheal tube will be tied with gauze to prevent movement of the tube along the muzzle or behind the ears depending on the breed of animal and area that is being imaged. At any point that the animal needs to be moved, the anesthesia machine will be detached from the endotracheal tube prior to moving the animal. The anesthesia machine will be hooked back up to the endotracheal tube after the animal has been repositioned."

13. Avian 01: Techniques in the Avian

- There were no changes made to this protocol.

14. Rabbit 01 Non-Invasive Techniques in the Rabbit

- There were no changes made to this protocol

15. Rabbit 02: Invasive Techniques in the Rabbit

- There were no changes made to this protocol

16. Rat and Mouse 01: Techniques in Rats and Mice

- There were no changes made to this protocol

17. Bovine 01: Non-Invasive Techniques in the Bovine

- There were no changes made to this protocol

18. Bovine 02: Invasive Techniques in the Bovine

- There were no changes made to this protocol

19. Caprine and Ovine 01: Basic Caprine and Ovine restraint, physical exam, dose syringe, and venipuncture

- There were no changes made to this protocol

20. Equine 01: Non-Invasive Techniques of the Equine

- There were no changes made to this protocol

21. Equine 02: Invasive Techniques in the Equine

- There were no changes made to this protocol

The facility inspection proceeded at 3:05 pm. Four cats and four dogs were housed in the Vet Tech building and runs at GCACE at the time of inspection.

- Part 1: IACUC Program
 - o All passed without comment or concern
- Part 2: Physical Plant and Records
 - o 1. Physical Plant: all passed without comment or concern
 - o 2. Housing: all passed without comment or concern
 - o 3. Environment: all passed without comment or concern
 - o 4. Food: all passed without comment or concern
 - o 5. Bedding: all passed without comment or concern
 - o 6. Water: all passed without comment or concern
 - o 7. Sanitation: all passed without comment or concern
 - o 8. Animal Records: all passed without comment or concern
 - o 9. Veterinary Care: all passed without comment or concern
 - o 10. Storage: all passed without comment or concern

The meeting adjourned at 3:30

Canine Analgesia and/or Anxiolytic Dosages

Drug Name	Dosage	Route
Butorphanol	0.1-0.5mg/kg	IV,SQ,IM
Buprenorphine	0.005-0.03mg/kg	IV,SQ,IM,sublingual
Meloxicam	0.2mg/kg	SQ or PO initial dose
	0.1mg/kg	PO additional doses Q24 hours
Carprofen	4.4mg/kg	PO or SQ Q24 hours
	2.2mg/kg	PO or SQ Q12 hours
Morphine	0.1-2mg/kg	IM or IV
Tramadol	4-10mg/kg	PO
Gabapentin	5-20mg/kg	PO
Robenacoxib	2mg/kg	PO Q24 hours x 3 days
Trazodone	2-10mg/kg	PO PRN up to Q12 hours
Dexmedetomidine	0.002-0.04mg/kg	IV or IM
Midazolam	0.1-0.4mg/kg	IV or IM
Diazepam	0.1-0.5mg/kg	IV
Acepromazine	0.01-0.2mg/kg	IV/SQ, or IM

Feline Analgesia and/or Anxiolytic Dosages

Drug Name	Dosage	Route
Butorphanol	0.1-0.5mg/kg	IV,SQ,IM
Buprenorphine	0.005-0.03mg/kg	IV,SQ,IM,sublingual
Meloxicam	0.2mg/kg	SQ or PO initial dose
	0.05-0.1mg/kg	PO additional doses Q24 hours
Morphine	0.1-2mg/kg	IM or IV
Gabapentin	5-20mg/kg	PO for analgesia
	100mg capsule	PO up to Q12 as anxiolytic
Robenacoxib	2mg/kg	PO Q24 hours x 3 days
Dexmedetomidine	0.002-0.04mg/kg	IV or IM
Midazolam	0.1-0.4mg/kg	IV or IM
Diazepam	0.1-0.5mg/kg	IV
Acepromazine	0.01-0.2mg/kg	IV/SQ, or IM

Canine and Feline Local Anesthetic Blocks

Local Block	Drug	Dosage
Testicular Block	lidocaine +	1mg/kg
	bupivacaine	1mg/kg
	+/- morphine	0.075mg/kg
	or +/- buprenorphine	0.003mg/kg
		+ opioid will double the duration of analgesia
Canine line block	bupivacaine +	1mg/kg
	lidocaine	2.5mg/kg
Feline line block	bupivacaine +	0.5mg/kg
	lidocaine	1.25mg/kg
Dental blocks	bupivacaine	2mg/kg total then divide by 4 sites

References:

1. Plumb, Veterinary Drug Handbook, 8th Edition. PharmaVet Inc, 2015
2. Stein, Bob. (2004, December) *Local Anesthetic Block*. Retrieved from www.vasg.org/local_anesthetics.htm
3. Ramsey, Ian, BSAVA Small Animal Formulary, 7th Edition. BSAVA 2012

Animal Care Protocol for Gaston College Veterinary Medical Technology Program

1. Animal Acquisition:

Animals acquired by the veterinary medical technology program will be obtained from the following sources:

- a) USDA licensed dealers
- b) USDA registered research facilities
- c) Private donation: specifically Gaston County Animal Care and Enforcement

2. Daily Observation and Care:

- a) All animals in the care of the Veterinary Medical Technology Program will be SOAP'ed (Subjective objective assessment plant) by veterinary medical technology students daily.
- b) SOAP sheets will be kept for every animal acquired by the Veterinary Medical Technology program.
- c) All physical exam forms and SOAP sheets will be kept in a file
- d) All dogs in the Veterinary Technology Program will be exercised at least twice daily (7am and 3pm) for 30 minutes.
- e) All animals in the care of the Veterinary Medical Technology Program will be socialized daily – temperament allowing.
- f) Every animal in the care of the Veterinary Medical Technology Program will be evaluated by the program veterinarian or by a staff member delegated by the veterinarian upon first entry in the program.
- g) Any animals kept in the Veterinary Medical Technology building during the weekends will be taken care of by the Veterinary Medical Technology staff on a daily basis.
- h) Any signs of illness, pain, or distress will be brought to the attention of the veterinarian for diagnosis and treatment.
- i) The care and husbandry of the animals of the Veterinary Technology Medical Program is in accordance with the "Animal Welfare Act of 2005" by the USDA.

3. Facilities:

- a) The temperature in the facilities used by the Veterinary Medical Technology Program will remain within the limits set by the USDA.
- b) The humidity in the Veterinary Medical Technology building will remain within 40-70% with no abrupt changes

4. Needle sticks:

- a) A maximum number of 6 sticks with a needle per day is allowed for teaching purposes. The veterinarian may determine fewer than 6 sticks will be allowed, but never more than 6 for teaching purposes
- b) If an animal requires injectable medications, then the number of total needle sticks that may be given within the day is 8.
- c) If performing a local anesthetic block for pain control and relief purposes, it will not be counted towards the daily allowed needle sticks. Such procedures may include, but are not limited to, an incisional block, testicular block, or dental blocks.

**Gaston College
Veterinary Medical Technology Program
IACUC Agenda
October 22, 2018 2:30 pm**

- 1. Welcome**
 - 2. Discussion of protocols**
 - a. Annual Review of Protocols**
 - 3. Open discussion**
 - a. Review new pain control chart**
 - b. Review local blocks; count as a stick (Yes/No)**
 - c. Feline post-operative or post 5 sticks or more analgesia protocol
Meloxicam vs Onsior**
 - 4. Semiannual Program Review and Facilities Inspection**
-

Notes:

IACUC SEMI-ANNUAL FACILITY INSPECTION
AND PROGRAM REVIEW SIGNATURE SHEET

To comply with USDA policy, a majority of the IACUC members must review and approve the facility inspection and program review before it can be submitted to the Institutional Official. In order to submit the report in a timely manner, please review the attached copy of the report, indicate any minority views and sign this sheet.

Please RETURN THIS SHEET TO THE IACUC CHAIRPERSON **WITHIN ONE WEEK OF RECEIPT** mail to: Gaston College

or Fax: Attn: Jason Doukas, DVM
Vet Med Tech 704-922-6260
Attn: Jason Doukas, DVM
201 Hwy 321 South
Dallas, NC 28034

Date Sent 10/24/2018

I HAVE READ AND REVIEWED THE ATTACHED SEMI-ANNUAL FACILITY INSPECTION AND PROGRAM REVIEW
CONDUCTED ON 10/22/2018

AND I:

☒ AGREE with the report as written.

☐ DISAGREE with the report as written. I disagree with the following:

James Gordon
Member Signature

10/24/18
Date

Return To: Jason Doukas, IACUC Chair

IACUC SEMI-ANNUAL FACILITY INSPECTION
AND PROGRAM REVIEW SIGNATURE SHEET

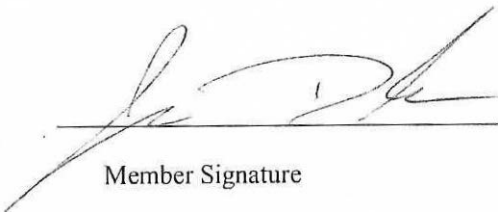
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AND I:

☒ AGREE with the report as written.

☐ DISAGREE with the report as written. I disagree with the following:


Member Signature

10/29/18
Date

Return To: Jason Doukas, IACUC Chair

Memorandum to: Dr. Patricia Skinner

From: Institutional Animal Care and Use Committee

Subject: Semiannual Evaluation of Animal Care and Use Program and
Inspection of Facilities

Date: 5/6/2019

This represents the semiannual report of the Institutional Animal Care and Use Committee (IACUC), as required by the USDA Animal Welfare Regulations, 9 CFR Chapter I, subchapter A, as applicable.

Evaluation of the Animal Care and Use Program

Protocols were reviewed and changes were discussed. The changes to be reflected in the protocols after this meeting will be:

No changes to the previous protocols proposed

- Discussion on future changes as we move into a new building and are looking to add in a Veterinary assistant accredited program:
 - We will be accepting more students when we move into the larger building. To make sure we do not cause any undue stress to the animals with this increase we will acquire additional animals, besides the ones that will be having procedure performed on them that week. This will allow for more students to have hand-on time and to ease any additional stress or discomfort placed on the animals with our increase in student acceptance. The new building will be able to house 10 cats and 10 dogs. Ideally we would have 10 lab groups (each with their own animal for the week) and 4-5 additional animals weekly to ease the amount of sticks each animal would receive over the week duration.
 - Dr. Doukas will write up a section in our IACUC protocols to specify exactly what procedures the new veterinary assistant program students will be doing with the animals
 - Per AVMA accrediting body our IACUC protocols were discussed with our committee to make sure all of our protocols would also pertain to the veterinary assistant program. Everyone agreed that our existing IACUC protocols would pertain to the new program and no changes would have to be made.

██████████ was introduced to the IACUC committee for potential admittance into the committee as a layperson in the community. ██████████ agreed to become a member of the committee and Dr. Doukas will be sending her an official letter of acceptance into the committee pending approval from Dean Skinner.

The IACUC inspected the animal facilities on April 15, 2019, using the *Animal Welfare Act and Animal Welfare Regulations*.

No deficiencies were found upon inspection in the animal facilities of the Veterinary Technology Building or the GCVMT runs in GCACE.

**Gaston College
Veterinary Medical Technology
IACUC Meeting Minutes
Spring 2019**

Date of Meeting: 4/15/19 @ 2:30pm

Members Present: Jason Doukas, DVM (Chairperson)
Melanie Skinner, RVT
Cortney Barkley-Postell, DVM
Jane Goodson, RN, MSN

Members Absent: [REDACTED]

Visitor Present: [REDACTED]

The meeting opened at 2:30pm at the Veterinary Medical Technology Building.

The meeting began with the review of protocols. Protocols were discussed and following are changes made:

No changes to the previous protocols proposed

- Discussion on future changes as we move into a new building and are looking to add in a Veterinary assistant accredited program:
 - We will be accepting more students when we move into the larger building. To make sure we do not cause any undue stress to the animals with this increase we will acquire additional animals, besides the ones that will be having procedure performed on them that week. This will allow for more students to have hand-on time and to ease any additional stress or discomfort placed on the animals with our increase in student acceptance. The new building will be able to house 10 cats and 10 dogs. Ideally we would have 10 lab groups (each with their own animal for the week) and 4-5 additional animals weekly to ease the amount of sticks each animal would receive over the week duration.
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[REDACTED] was introduced to the IACUC committee for potential admittance into the committee as a layperson in the community. [REDACTED] agreed to become a member of the committee and Dr. Doukas will be sending her an official letter of acceptance into the committee pending approval from Dean Skinner.

The facility inspection proceeded at 3:00 pm. No animals were housed in the Vet Tech building or in the runs at GCAC at the time of inspection.

- Part 1: IACUC Program
 - all passed without comment or concern
- Part 2: Physical Plant and Records
 - 1. Physical Plant: all passed without comment or concern
 - 2. Housing: 3 sharp edges to the wire runs were found in the GCACE building where the dogs are kept when they are with our program. These are fasteners from an area of the runs that were recently repaired. This was brought to the attention of the GCACE employees and are in the process of fixing them.
 - 3. Environment: all passed without comment or concern
 - 4. Food: all passed without comment or concern
 - 5. Bedding: all passed without comment or concern
 - 6. Water: all passed without comment or concern
 - 7. Sanitation: all passed without comment or concern

- 8. Animal Records: all passed without comment or concern
- 9. Veterinary Care: all passed without comment or concern
- 10. Storage: all passed without comment or concern

The meeting adjourned at 3:30 pm

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 Vet Med Tech 704-922-2333
 Attn: Melanie Skinner
 201 Hwy 321 South
 Dallas, NC 28034

Date Sent 4/29/19

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☒ AGREE with the report as written.

☐ DISAGREE with the report as written. I disagree with the following:

 4/29/19
 Member Signature Date

Return To: Jason Doukas, IACUC Chair:

- 6. Water: all passed without comment or concern
- 7. Sanitation: all passed without comment or concern
- 8. Animal Records: all passed without comment or concern
- 9. Veterinary Care: all passed without comment or concern
- 10. Storage: all passed without comment or concern

The meeting adjourned at 3:30 pm

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☐ DISAGREE with the report as written. I disagree with the following:

Melanie D. Skinner RVT
 Member Signature

5/1/19
 Date

Return To: Jason Doukas, IACUC Chair:

- 6. Water: all passed without comment or concern
- 7. Sanitation: all passed without comment or concern
- 8. Animal Records: all passed without comment or concern
- 9. Veterinary Care: all passed without comment or concern
- 10. Storage: all passed without comment or concern

The meeting adjourned at 3:30 pm

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(✓) AGREE with the report as written.

() DISAGREE with the report as written. I disagree with the following:

Jan Woodson TRN MSN 4-30-2019
Member Signature Date

Return To: Jason Doukas, IACUC Chair:

Gaston College Veterinary Medical Technology Semiannual Program Review and Facility Inspection

Date: 4/15/2019

Time: 3:15pm

Inspector: Jason Doukas, Melene Skinner, Jane Goodson, & Lindsey Bookley

Part I: IACUC Program

1. IACUC Membership	Y	N	N/A
• At least 3 members on committee	✓		
• Members include: veterinarian, scientist, non-scientist and non-affiliated non-laboratory animal user.	✓		
• IACUC oversees and evaluates the institution's program	✓		
• IACUC conducts a semiannual inspection of institutional animal facilities	✓		
• IACUC reviews protocols semiannually	✓		
• IACUC develops policies for special procedures	✓		
• IACUC evaluates pain managements for each protocol	✓		
2. IACUC Records and Reporting	Y	N	N/A
• Reports of semiannual program review and facility inspection submitted to Institutional Official	✓		
• Describe plan for correction of any deficiencies identified by the IACUC	✓		
• Provide Annual Report to the United States Department of Agriculture	✓		
• IACUC minutes and semiannual reports kept for minimum of 3 years	✓		
• IACUC minutes and semiannual reports signed by all members of IACUC and Institutional Official	✓		
3. Veterinary Care	Y	N	N/A
• Are veterinary services available	✓	✓	
• Are the veterinary services available on full time basis?		✓	
• Is veterinary care available after hours, on weekends, and on holidays?	✓		
• Are procedures available for reporting sick animals?	✓		
• Are health monitoring procedures in place?	✓		
• Comment:			
4. Personnel	Y	N	N/A
• Does the number of employees appear to be adequate?	✓		
• Do employees participate in regular continuing education programs?	✓		
• Is the staff qualified to handle hazardous materials?	✓		
• Comment:			
5. Personnel Hygiene	Y	N	N/A
• Is the employee/student dress code suitable for work with laboratory animals?	✓		
• Is a locker room/restroom available for employees and students?	✓		

• Is smoking, eating or drinking allowed in the animal rooms or procedure rooms?			✓
Comment:			
6. Occupational Health Program			
• Individual responsible for the occupational health program:	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Are employee/student health records available?	✓		
• Are employees/students supplied with suitable safety equipment?	✓		
• Are employee/students informed of zoonotic diseases?	✓		
• Is the MSDS available in the procedure rooms?	✓		
• Is the MSDS updated annually?	✓		
• Are students made aware of fire safety equipment i.e. extinguisher, fire blanket?	✓		
• Are students aware of eyewash stations, first aid kit, and emergency procedure manual?	✓		
Comment:			
7. Supplies			
• Are the animals purchased from USDA vendors?	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Is the feed formulated for laboratory animals?	✓		
• Is the bedding purchased from suitable manufacturers?	✓		
Comment:			
8. Sanitation:			
• Is waste stored and removed in an efficient manner?	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Are dead animals disposed of properly?	✓		
• Are the proper disinfectants and sanitation procedures used on equipment and the facility?	✓		
• Is there a suitable housekeeping procedure?	✓		
Comment:			
9. Animal Care Procedures			
• Is there access to the written animal care policy of Gaston College?	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Are the animal care procedures adequate for the animals used by the program?	✓		
• Are animals handled and restrained humanly during transport from the Gaston County Animal Shelter to the Gaston College Veterinary Medical Technology Building?	✓		
Comments:			

Part 2: Physical Plant and Records:

1. Physical Plant

	Y	N	N/A
• Is there sufficient area available to perform the required function:			
o Separation of Species	✓		
o Receiving, quarantine, and isolation of animals?	✓		
o Storage of food, bedding, and other supplies	✓		
o Storage of caging and caging parts	✓		
o Personnel areas	✓		
o Washing and sanitation of equipment	✓		
o Waste Storage	✓		
o Containment of biohazardous waste?	✓		
o Performance of procedures?	✓		
o Surgical preparation area?	✓		
• Are the animal rooms clean?	✓		
• Are the floors smooth, moisture proof, and skid-proof?			
• Are the walls free of cracks and leaks?		✓	
• Are the light fixtures clean of vermin?	✓		
• Is the building free of vermin?	✓		
• Are the floors clear of standing water?	✓		
• Is there adequate lighting in the animal area and in the procedure areas?	✓		
• Is there adequate ventilation in the animal areas and in the procedure areas?	✓		

Comment: Some cracks in the flooring in the lab area adjacent to the front drain.

2. Housing

	Y	N	N/A
• Do the cages in the Veterinary Medical Technology Building:			
o Provide adequate space as defined by <u>The Animal Welfare Act</u> ?	✓		
o Do the cages provide natural postural movement and adjustments?	✓		
o Provide an elevated area for cats?	✓		
o Are they escape-proof?	✓		
o Are they free of defects and sharp edges?		✓	
o Are they easily accessible?	✓		
o Do they keep the animals dry?	✓		
o Provide access to food and water?	✓		
o Provide proper social groupings?	✓		
o Have adequate records for each cage?	✓		
o Have suitable labeling system?	✓		

2. Housing cont.

•Comment: Found 3 sharp edges to where the wiring of the runs were recently repaired.

• Do the cages in the Gaston County Animal Shelter:			
○ Provide adequate space as defined by <u>The Animal Welfare Act</u> ?	✓		
○ Do the cages provide natural postural movement and adjustments?	✓		
○ Are they escape-proof?	✓		
○ Are they free of defects and sharp edges?			
○ Are they easily accessible?	✓		
○ Do they keep the animals dry?	✓		
○ Provide access to food and water?	✓		
○ Provide proper social groupings?	✓		
○ Have adequate records for each cage?	✓		
○ Have suitable labeling system?	✓		

Comments:

3. Environment:

	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Does the environment in the Veterinary Medical Technology Building:			
○ Provide proper temperatures as stated in the AWA?	✓		
○ Provide proper humidity as stated in the AWA?	✓		
○ Provide proper ventilation as stated in the AWA?	✓		
○ Provide proper lighting as stated in the AWA?	✓		
○ IS the noise level suitable for the animals/employees?	✓		

Comment:

• Does the environment in the Gaston County Animal shelter:			
○ Provide proper temperatures as stated in the AWA?	✓		
○ Provide proper humidity as stated in the AWA?	✓		
○ Provide proper ventilation as stated the AWA?	✓		
○ Provide proper lighting as stated in the AWA?	✓		
○ IS the noise level suitable for the animals/employees?	✓		

Comment:

4. <u>Food</u>	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Do feed containers allow easy access without contamination with urine or feces?	✓		
• Is unused feed kept off of the floor in a cool dry area free of vermin?	✓		
• Is the feed monitored for expiration date?	✓		
• Is feed stored with chemicals?		✓	
• IS feed rotated?	✓		

4. Food cont.

	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Is open feed stored in a dry, cool place in a container with a tight fitting lid?	✓		
• Is open feed kept free of vermin?	✓		
Comments:			

5. Bedding

	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Is the bedding used sufficient for animal and is it changed often enough?	✓		
• Is bedding changed often enough to prevent standing urine or feces?	✓		
• Is the bedding stored in a dry, cool place off of the floor and away from vermin?	✓		
• Is bedding stored with chemicals?			
• Is open bedding stored in an airtight container?	✓	✓	
Comments:			

6. Water:

	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Do the animals have continuous access to fresh, potable water?	✓		
• Is the water monitored for pH, hardness, and/or microbial and chemical contamination?	✓		
• Are watering devices cleaned regularly?	✓		
Comments:			

7. Sanitation:

	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Are the rooms clear of debris, dirt, and contamination?	✓		
• Are the walls and floors clean of debris, dirt, and contamination?	✓		
• Are animals kept dry and safe during cleaning procedures?	✓		
• Is litter and debris stored in covered containers and removed frequently?	✓		
• Are cleaning chemicals stored properly away from the animals?	✓		
• Is there evidence of vermin?		✓	
• Are the employee/ student areas clean?	✓		
• Is the trash removed from the building?	✓		
Comments:			

8. Animal Records

	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Is each animal identified?	✓		
• Do all animals have a written health record?	✓		
• Are records kept of all procedures performed on the animal?	✓		
• Are records kept of all medications and drugs administered to the animal?	✓		
Comment:			

9. Veterinary Care		Y	N	N/A
• Are all animals observed by Veterinary Medical Technology staff on a daily basis?		✓		
• Are animals treated for illness?		✓		
• Are anesthetic procedures performed properly and safely?		✓		
• Are any of the animals exhibiting illness, pain, or behavioral abnormalities?		✓		
Comment: occasional pyoderma, URI, other external, anxiety, stress: all are managed & treated				
10. Storage:		Y	N	N/A
• Are all items labeled and organized?		✓		
• Are items stored properly?		✓		
• Are inventory items recorded?		✓		
• Are items within expiration date?		✓		
• IS there adequate storage?		✓		
• Comment:				

Certification Statement:

I, a member of the IACUC for the Gaston College Department of Veterinary Medical Technology Program, have inspected the facilities and agree to the results of the inspection above.

1. <u>Melvin D C</u>	Date: <u>4-15-19</u>
2. <u>Jam Hoodson</u>	Date: <u>4-15-19</u>
3. <u>[Signature]</u>	Date: <u>4/15/19</u>
4. <u>[Signature]</u>	Date: <u>4/15/19</u>
5. _____	Date: _____

Gaston College
Veterinary Medical Technology Program
Semiannual Program and Facility Review Checklist

Date of Inspection: 4/15/2019

Members Present for Inspection: Jason Doukas, Melanie Skinner, Cortney Barkley, Jane Goodson

☐ No Deficiencies Found

☒ Deficiencies Found

Deficiency Category (S or M)	Repeated Deficiency?	Location	Deficiency & Plan for Correction	Responsible Party	Correction Schedule	Date Completed
S	No	GCACE Isolation	Sharp edges to metal fasteners of canine kennels	GCACE	5/7/2019	5/7/2019

S = Significant Deficiency

M = Major Deficiency

Memorandum to: Dr. Patricia Skinner

From: Institutional Animal Care and Use Committee

Subject: Semiannual Evaluation of Animal Care and Use Program and Inspection of Facilities

Date: 11/6/19

This represents the semiannual report of the Institutional Animal Care and Use Committee (IACUC), as required by the USDA Animal Welfare Regulations, 9 CFR Chapter I, subchapter A, as applicable.

Evaluation of the Animal Care and Use Program

Protocol changes were discussed and approved. They are as follows:

- Carprofen dosage previously was 2.2mg/kg every 12 hours OR 4.4mg/kg every 24 hours and was changed to 4.0mg/kg every 24 hours only. This was done to minimize confusion with the students.

Future additions to the Gaston College IACUC were discussed and Dr. Doukas will be contacting the USDA APHIS for guidance in these additions to include:

- Joshua Mays, Biology instructor, would like to start aquatic research on fish looking at stable isotope analysis on fish otoliths, life history traits, and migration patterns, as well as parasitology of fish in local waters.
- Another protocol would include use of a backpack electrofisher to collect local fish for the use of identification and possible euthanization/dissection/analysis of specimens.
- The third protocol would include non-invasive/ non-painful collection of local reptiles, amphibians, and small mammals. This sole purpose would be to show/teach students how to capture and handle wild local species.

The IACUC inspected the animal facilities on October 28, 2019, using the *Animal Welfare Act and Animal Welfare Regulations*.

- Part 1: IACUC Program
 - o all passed without comment or concern
- Part 2: Physical Plant and Records
 - o 1. Physical Plant: all passed without comment or concern
 - o 2. Housing: 3 sharp edges to the wire runs were found in the GCACE building where the dogs are kept when they are with our program. These are fasteners from an area of the runs that were recently repaired. This was brought to the attention of the GCACE employees to be cautious when future similar repairs may be performed. The sharp edges were filed down and are no longer an issue.
 - o 3. Environment: all passed without comment or concern
 - o 4. Food: all passed without comment or concern
 - o 5. Bedding: all passed without comment or concern
 - o 6. Water: all passed without comment or concern
 - o 7. Sanitation: all passed without comment or concern
 - o 8. Animal Records: all passed without comment or concern
 - o 9. Veterinary Care: all passed without comment or concern
 - o 10. Storage: all passed without comment or concern

**Gaston College
Veterinary Medical Technology
IACUC Meeting Minutes
Fall 2019**

Date of Meeting: 10/28/19 @ 2:00pm

Members Present: Jason Doukas, DVM (Chairperson)
Melanie Skinner, RVT
Cortney Barkley-Postell, DVM (Attending Veterinarian)
Jane Goodson, RN, MSN
[REDACTED]

Members Absent: [REDACTED]

The meeting opened at 2:00pm at the Veterinary Medical Technology Building.

The meeting began with the review of protocols. Protocols were discussed and following are changes made:

- Carprofen dosage previously was 2.2mg/kg every 12 hours OR 4.4mg/kg every 24 hours and was changed to 4.0mg/kg every 24 hours only. This was done to minimize confusion with the students.
- Discussion on future addition of protocols from the Biology department that is interested in starting wildlife research.
 - Joshua Mays, Biology instructor, would like to start aquatic research on fish looking at stable isotope analysis on fish otoliths, life history traits, and migration patterns, as well as parasitology of fish in local waters.
 - Another protocol would include use of a backpack electrofisher to collect local fish for the use of identification and possible euthanization/dissection/analysis of specimens.
 - The third protocol would include non-invasive/ non-painful collection of local reptiles, amphibians, and small mammals. This sole purpose would be to show/teach students how to capture and handle wild local species.
 - Dr. Doukas will contact the USDA APHIS to gain more information and what exactly needs to be done to add wildlife protocols to our college's IACUC program as this is not something we have done in the past.

The facility inspection proceeded at 3:00 pm. No animals were housed in the Vet Tech building or in the runs at GCAC at the time of inspection.

- Part 1: IACUC Program
 - all passed without comment or concern
- Part 2: Physical Plant and Records
 - 1. Physical Plant: all passed without comment or concern
 - 2. Housing: 3 sharp edges to the wire runs were found in the GCACE building where the dogs are kept when they are with our program. These are fasteners from an area of the runs that were recently repaired. This was brought to the attention of the GCACE employees and are in the process of fixing them.
 - 3. Environment: all passed without comment or concern
 - 4. Food: all passed without comment or concern
 - 5. Bedding: all passed without comment or concern
 - 6. Water: all passed without comment or concern
 - 7. Sanitation: all passed without comment or concern
 - 8. Animal Records: all passed without comment or concern
 - 9. Veterinary Care: all passed without comment or concern
 - 10. Storage: all passed without comment or concern

The meeting adjourned at 3:30 pm

IACUC SEMI-ANNUAL FACILITY INSPECTION
AND PROGRAM REVIEW SIGNATURE SHEET

To comply with USDA policy, a majority of the IACUC members must review and approve the facility inspection and program review before it can be submitted to the Institutional Official. In order to submit the report in a timely manner, please review the attached copy of the report, indicate any minority views and sign this sheet.

Please RETURN THIS SHEET TO THE IACUC CHAIRPERSON **WITHIN ONE WEEK OF RECEIPT**

mail to: Gaston College or Fax: Attn: Jason Doukas
Vet Med Tech 704-922-2333
Attn: Melanie Skinner
201 Hwy 321 South
Dallas, NC 28034

Date Sent: 11/4/19

I HAVE READ AND REVIEWED THE ATTACHED SEMI-ANNUAL FACILITY INSPECTION AND
PROGRAM REVIEW CONDUCTED ON 10/25/19 AND I:

☒ AGREE with the report as written.

☐ DISAGREE with the report as written. I disagree with the following:

Melanie D. Skinner

11-5-19

Member Signature

Date

Return To: Jason Doukas, IACUC Chair:

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☒ AGREE with the report as written.

☐ DISAGREE with the report as written. I disagree with the following:


11/3/19
Date

Return To: Jason Doukas, IACUC Chair:

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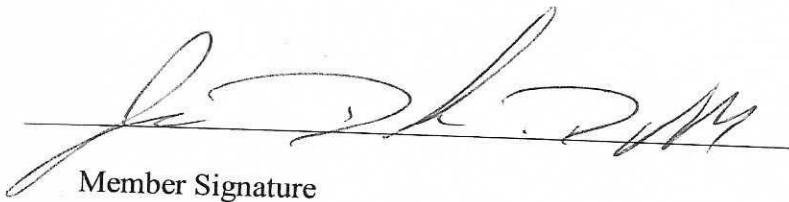
mail to: Gaston College or Fax: Attn: Jason Doukas
Vet Med Tech 704-922-2333
Attn: Jason Doukas
201 Hwy 321 South
Dallas, NC 28034

Date Sent: 10/30/19

I HAVE READ AND REVIEWED THE ATTACHED SEMI-ANNUAL FACILITY INSPECTION AND
PROGRAM REVIEW CONDUCTED ON 10/28/19 AND I:

☒ AGREE with the report as written.

☐ DISAGREE with the report as written. I disagree with the following:


Member Signature

11/5/19
Date

Return To: Jason Doukas, IACUC Chair:

IACUC SEMI-ANNUAL FACILITY INSPECTION
AND PROGRAM REVIEW SIGNATURE SHEET

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Vet Med Tech 704-922-2333
Attn: Melanie Skinner
201 Hwy 321 South
Dallas, NC 28034

Date Sent: 11/4/19

I HAVE READ AND REVIEWED THE ATTACHED SEMI-ANNUAL FACILITY INSPECTION AND
PROGRAM REVIEW CONDUCTED ON 10/25/19 AND I:

☒ AGREE with the report as written.

☐ DISAGREE with the report as written. I disagree with the following:


Member Signature

11/4/19
Date

Return To: Jason Doukas, IACUC Chair:

IACUC SEMI-ANNUAL FACILITY INSPECTION
AND PROGRAM REVIEW SIGNATURE SHEET

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Vet Med Tech 704-922-2333
Attn: Melanie Skinner
201 Hwy 321 South
Dallas, NC 28034

Date Sent: 11/4/19

I HAVE READ AND REVIEWED THE ATTACHED SEMI-ANNUAL FACILITY INSPECTION AND PROGRAM REVIEW CONDUCTED ON 10/25/19 AND I:

☒ AGREE with the report as written.

☐ DISAGREE with the report as written. I disagree with the following:

Jane Mockon RN MSN 10-31-2019
Member Signature Date

Return To: Jason Doukas, IACUC Chair:

Canine Analgesia and/or Anxiolytic Dosages

Drug Name	Dosage	Route
Butorphanol	0.1-0.5mg/kg	IV,SQ,IM
Buprenorphine	0.005-0.03mg/kg	IV,SQ,IM,sublingual
Meloxicam	0.2mg/kg	SQ or PO initial dose
	0.1mg/kg	PO additional doses Q24 hours
Carprofen	4.0mg/kg	PO or SQ Q24 hours
Morphine	0.1-2mg/kg	IM or IV
Tramadol	4-10mg/kg	PO
Gabapentin	5-20mg/kg	PO
Robenacoxib	2mg/kg	PO Q24 hours x 3 days
Trazodone	2-10mg/kg	PO PRN up to Q12 hours
Dexmedetomidine	0.002-0.04mg/kg	IV or IM
Midazolam	0.1-0.4mg/kg	IV or IM
Diazepam	0.1-0.5mg/kg	IV
Acepromazine	0.01-0.2mg/kg	IV/SQ, or IM

Feline Analgesia and/or Anxiolytic Dosages

Drug Name	Dosage	Route
Butorphanol	0.1-0.5mg/kg	IV,SQ,IM
Buprenorphine	0.005-0.03mg/kg	IV,SQ,IM,sublingual
Meloxicam	0.2mg/kg	SQ or PO initial dose
	0.05-0.1mg/kg	PO additional doses Q24 hours
Morphine	0.1-2mg/kg	IM or IV
Gabapentin	5-20mg/kg	PO for analgesia
	100mg capsule	PO up to Q12 as anxiolytic
Robenacoxib	2mg/kg	PO Q24 hours x 3 days
Dexmedetomidine	0.002-0.04mg/kg	IV or IM
Midazolam	0.1-0.4mg/kg	IV or IM
Diazepam	0.1-0.5mg/kg	IV
Acepromazine	0.01-0.2mg/kg	IV/SQ, or IM

Canine and Feline Local Anesthetic Blocks

Local Block	Drug	Dosage
Testicular Block	lidocaine +	1mg/kg
	bupivacaine	0.5-1mg/kg
	+/- morphine	0.075mg/kg
	or +/- buprenorphine	0.003mg/kg
		+ opioid will double the duration of analgesia
Canine line block	bupivacaine +	1mg/kg
	lidocaine	2.5mg/kg
Feline line block	bupivacaine +	0.5mg/kg
	lidocaine	1.25mg/kg
Dental blocks	bupivacaine	2mg/kg total then divide by 4 sites

References:

1. Plumb, Veterinary Drug Handbook, 8th Edition. PharmaVet Inc, 2015
2. Stein, Bob. (2004, December) *Local Anesthetic Block*. Retrieved from www.vasg.org/local_anesthetics.htm
3. Ramsey, Ian, BSAVA Small Animal Formulary, 7th Edition. BSAVA 2012

Gaston College
Veterinary Medical Technology Program
Semiannual Program and Facility Review Checklist

Date of Inspection:

10/28/2019

Members Present for Inspection: Jason Doukas, Melanie Skinner, Cortney Barkley, Jane Goodson

☐ **No Deficiencies Found**

☒ **Deficiencies Found**

Deficiency Category (S or M)	Repeated Deficiency?	Location	Deficiency & Plan for Correction	Responsible Party	Correction Schedule	Date Completed
S	Yes	GCACE Isolation	Sharp edges to metal fasteners of canine kennels	GCACE	10/29/2019	10/29/2019

S = Significant Deficiency

M = Major Deficiency

Notes: The kennel wiring along the floor crossbar keeps coming loose in different areas and wire fasteners are used by the GCACE staff to secure the wire to the crossbar. When cutting the wire it has left sharp corners. This has been brought up to the GCACE staff and they have been notified again of this on 10/29/19. We filed the sharp edges down. This will no longer be an issue when we move into the new building this coming year. Jason Doukas, DVM


10/29/19

Gaston College Veterinary Medical Technology Semiannual Program Review and Facility Inspection

Date: 10/28/19

Time: 3:00 pm

Inspector: Jason Doukas, Courtney Bookley-Pastell, Melonic Skinner

Part I: IACUC Program

1. IACUC Membership			
	Y	N	N/A
• At least 3 members on committee	<input checked="" type="checkbox"/>		
• Members include: veterinarian, scientist, non-scientist and non-affiliated non-laboratory animal user.	<input checked="" type="checkbox"/>		
• IACUC oversees and evaluates the institution's program	<input checked="" type="checkbox"/>		
• IACUC conducts a semiannual inspection of institutional animal facilities	<input checked="" type="checkbox"/>		
• IACUC reviews protocols semiannually	<input checked="" type="checkbox"/>		
• IACUC develops policies for special procedures	<input checked="" type="checkbox"/>		
• IACUC evaluates pain managements for each protocol	<input checked="" type="checkbox"/>		
2. IACUC Records and Reporting			
	Y	N	N/A
• Reports of semiannual program review and facility inspection submitted to Institutional Official	<input checked="" type="checkbox"/>		
• Describe plan for correction of any deficiencies identified by the IACUC	<input checked="" type="checkbox"/>		
• Provide Annual Report to the United States Department of Agriculture	<input checked="" type="checkbox"/>		
• IACUC minutes and semiannual reports kept for minimum of 3 years	<input checked="" type="checkbox"/>		
• IACUC minutes and semiannual reports signed by all members of IACUC and Institutional Official	<input checked="" type="checkbox"/>		
3. Veterinary Care			
	Y	N	N/A
• Are veterinary services available	<input checked="" type="checkbox"/>		
• Are the veterinary services available on full time basis?		<input checked="" type="checkbox"/>	
• Is veterinary care available after hours, on weekends, and on holidays?		<input checked="" type="checkbox"/>	
• Are procedures available for reporting sick animals?	<input checked="" type="checkbox"/>		
• Are health monitoring procedures in place?	<input checked="" type="checkbox"/>		
• Comment: <u>Veterinary services only available for animals in our program weekly & not for the general public</u>			
4. Personnel			
	Y	N	N/A
• Does the number of employees appear to be adequate?	<input checked="" type="checkbox"/>		
• Do employees participate in regular continuing education programs?	<input checked="" type="checkbox"/>		
• Is the staff qualified to handle hazardous materials?	<input checked="" type="checkbox"/>		
Comment:			
5. Personnel Hygiene			
	Y	N	N/A
• Is the employee/student dress code suitable for work with laboratory animals?	<input checked="" type="checkbox"/>		
• Is a locker room/restroom available for employees and students?	<input checked="" type="checkbox"/>		

• Is smoking, eating or drinking allowed in the animal rooms or procedure rooms?		✓	
Comment:			
6. Occupational Health Program			
• Individual responsible for the occupational health program:	Y	N	N/A
• Are employee/student health records available?	✓		
• Are employees/students supplied with suitable safety equipment?	✓		
• Are employee/students informed of zoonotic diseases?	✓		
• Is the MSD/SDS available in the procedure rooms?	✓		
• Is the MSDS/SDS updated annually?	✓		
• Are students made aware of fire safety equipment i.e. extinguisher, fire blanket?	✓		
• Are students aware of eyewash stations, first aid kit, and emergency procedure manual?	✓		
Comment:			
7. Supplies			
• Are the animals purchased from USDA vendors?	Y	N	N/A
• Is the feed formulated for laboratory animals?			✓
• Is the bedding purchased from suitable manufacturers?	✓		✓
Comment: Donated by the Gaston County Animal Care and Enforcement			
8. Sanitation:			
• Is waste stored and removed in an efficient manner?	Y	N	N/A
• Are dead animals disposed of properly?	✓		
• Are the proper disinfectants and sanitation procedures used on equipment and the facility?	✓		
• Is there a suitable housekeeping procedure?	✓		
Comment:			
9. Animal Care Procedures			
• Is there access to the written animal care policy of Gaston College?	Y	N	N/A
• Are the animal care procedures adequate for the animals used by the program?	✓		
• Are animals handled and restrained humanly during transport from the Gaston County Animal Shelter to the Gaston College Veterinary Medical Technology Building?	✓		
Comments:			

Part 2: Physical Plant and Records:

1. Physical Plant

	Y	N	N/A
• Is there sufficient area available to perform the required function:			
○ Separation of Species			
○ Receiving, quarantine, and isolation of animals?	✓		
○ Storage of food, bedding, and other supplies	✓		
○ Storage of caging and caging parts	✓		
○ Personnel areas	✓		
○ Washing and sanitation of equipment	✓		
○ Waste Storage	✓		
○ Containment of biohazardous waste?	✓		
○ Performance of procedures?	✓		
○ Surgical preparation area?	✓		
• Are the animal rooms clean?	✓		
• Are the floors smooth, moisture proof, and skid-proof?	✓		
• Are the walls free of cracks and leaks?	✓		
• Are the light fixtures clean of vermin?	✓		
• Is the building free of vermin?	✓		
• Are the floors clear of standing water?	✓		
• Is there adequate lighting in the animal area and in the procedure areas?	✓		
• Is there adequate ventilation in the animal areas and in the procedure areas?	✓		
Comment:			

2. Housing

	Y	N	N/A
• Do the cages in the Veterinary Medical Technology Building:			
○ Provide adequate space as defined by <u>The Animal Welfare Act</u> ?	✓		
○ Do the cages provide natural postural movement and adjustments?	✓		
○ Provide an elevated area for cats?	✓		
○ Are they escape-proof?	✓		
○ Are they free of defects and sharp edges?	✓		
○ Are they easily accessible?	✓		
○ Do they keep the animals dry?	✓		
○ Provide access to food and water?	✓		
○ Provide proper social groupings?	✓		
○ Have adequate records for each cage?	✓		
○ Have suitable labeling system?	✓		

2. Housing cont.

	Y	N	N/A
--	---	---	-----

•Comment:

• Do the cages in the Gaston County Animal Shelter:

○ Provide adequate space as defined by <u>The Animal Welfare Act</u> ?	✓		
○ Do the cages provide natural postural movement and adjustments?	✓		
○ Are they escape-proof?	✓		
○ Are they free of defects and sharp edges?		✓	
○ Are they easily accessible?	✓		
○ Do they keep the animals dry?	✓		
○ Provide access to food and water?	✓		
○ Provide proper social groupings?	✓		
○ Have adequate records for each cage?	✓		
○ Have suitable labeling system?	✓		

Comments: Kennel in shelter closest to the garage door has 2 sharp edges to recently placed securing wires

3. Environment:

	Y	N	N/A
• Does the environment in the Veterinary Medical Technology Building:			
○ Provide proper temperatures as stated in the AWA?	✓		
○ Provide proper humidity as stated in the AWA?	✓		
○ Provide proper ventilation as stated in the AWA?	✓		
○ Provide proper lighting as stated in the AWA?	✓		
○ IS the noise level suitable for the animals/employees?	✓		

Comment:

• Does the environment in the Gaston County Animal shelter:

○ Provide proper temperatures as stated in the AWA?	✓		
○ Provide proper humidity as stated in the AWA?	✓		
○ Provide proper ventilation as stated the AWA?	✓		
○ Provide proper lighting as stated in the AWA?	✓		
○ IS the noise level suitable for the animals/employees?	✓		

Comment:

4. Food

	Y	N	N/A
• Do feed containers allow easy access without contamination with urine or feces?	✓		
• Is unused feed kept off of the floor in a cool dry area free of vermin?	✓		
• Is the feed monitored for expiration date?	✓		
• Is feed stored with chemicals?		✓	
• IS feed rotated?	✓		

4. Food cont.

	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Is open feed stored in a dry, cool place in a container with a tight fitting lid?	✓		
• Is open feed kept free of vermin?	✓		
Comments:			

5. Bedding

	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Is the bedding used sufficient for animal and is it changed often enough?	✓		
• Is bedding changed often enough to prevent standing urine or feces?	✓		
• Is the bedding stored in a dry, cool place off of the floor and away from vermin?	✓		
• Is bedding stored with chemicals?			
• Is open bedding stored in an airtight container?		✓	
Comments:	✓		

6. Water:

	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Do the animals have continuous access to fresh, potable water?	✓		
• Is the water monitored for pH, hardness, and/or microbial and chemical contamination?	✓		
• Are watering devices cleaned regularly?	✓		
Comments:			

7. Sanitation:

	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Are the rooms clear of debris, dirt, and contamination?	✓		
• Are the walls and floors clean of debris, dirt, and contamination?	✓		
• Are animals kept dry and safe during cleaning procedures?	✓		
• Is litter and debris stored in covered containers and removed frequently?	✓		
• Are cleaning chemicals stored properly away from the animals?	✓		
• Is there evidence of vermin?		✓	
• Are the employee/ student areas clean?	✓		
• Is the trash removed from the building?	✓		
Comments:			

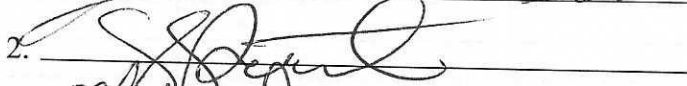
8. Animal Records

	<u>Y</u>	<u>N</u>	<u>N/A</u>
• Is each animal identified?	✓		
• Do all animals have a written health record?	✓		
• Are records kept of all procedures performed on the animal?	✓		
• Are records kept of all medications and drugs administered to the animal?	✓		
Comment:			

9. Veterinary Care			
	Y	N	N/A
• Are all animals observed by Veterinary Medical Technology staff on a daily basis?	✓		
• Are animals treated for illness?	✓		
• Are anesthetic procedures performed properly and safely?	✓		
• Are any of the animals exhibiting illness, pain, or behavioral abnormalities?		✓	
Comment:			
10. Storage:			
	Y	N	N/A
• Are all items labeled and organized?	✓		
• Are items stored properly?	✓		
• Are inventory items recorded?	✓		
• Are items within expiration date?	✓		
• IS there adequate storage?	✓		
• Comment:			

Certification Statement:

I, a member of the IACUC for the Gaston College Department of Veterinary Medical Technology Program, have inspected the facilities and agree to the results of the inspection above.

1. 	Date: 10/29/19
2. 	Date: 10/29/19
3. 	Date: 10/29/19
4. _____	Date: _____
5. _____	Date: _____