

# APPLICATION FOR LIVE ANIMAL USE IN TEACHING AT COASTAL ALABAMA COMMUNITY COLLEGE

MARK WITH AN "X" IN THE BOX FOR ONE OF THE FOLLOWING AND TYPE YOUR CURRENT PROTOCOL NUMBER IF NEEDED:

New application                       Amendment of current protocol # \_\_\_\_.  
 Renewal of current protocol # **VET 112- 1011**

Amendments are required when any significant change occurs in a protocol such as change of study objectives, procedures and pain category, increasing animal number, change of species, use of anesthetic or analgesic agents or methods of euthanasia.

Renewal is required after one year for all protocols that involve species covered by the Animal Welfare Act (AWA) and after three years on all other protocols. All aspects of the protocol need to be carefully reviewed for significant changes and updating. Particular attention needs to be given to numbers of animals needed over the next approval period. New signatures are required by the attending veterinarian, the applicant, and the supervisor.

## 1) NAME OF ACTIVITY, CLASS, OR TRAINING EVENT

Name of activity and associated course number: **Perform Ocular Diagnostic Tests- VET112**  
**Protocol #- VET 112-1011**

## 2) APPLICANT NAME

Cathleen B Forester DVM

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(251) 580-2273

Dept.

Allied Health-Vet Tech

E-mail address

Cathleen.forester

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## 3) GOALS AND SPECIFIC OBJECTIVES OF PROPOSED USE OF LIVE ANIMALS Use language understandable to a non-scientist. One or two paragraphs are usually adequate.

As per AVMA-CVTEA required tasks, each student **must demonstrate the ability to accurately perform the following ocular diagnostics in dogs and cats:**

- Schirmer Tear Test
- Fluorescein Eye Stain
- Tonometry

## 4) PROJECTED START DATE, ANIMAL SPECIES, AND NUMBER NEEDED.

Projected Start Date (If this is a renewal of an existing protocol this date should be the date your current protocol expires).

11/01/17

-Approval for ONE year is granted for species covered under the Federal Animal Welfare Act (dogs, cats, non-human primates, guinea pigs, hamsters, rabbits, wild mammals, and any other animal used in bio-medical research)

Species (common name)	Domestic Dog and cat
Number needed in one year	Approximately 50 representing 1 or 2 dogs or cats per student.
If renewal - Total number utilized since prior protocol review	

OR

-Approval for THREE years is granted for those species exempted by the Animal Welfare Act (agricultural species used in agricultural research, birds, commercially bred rats, commercially bred mice, and non-mammal wildlife.)	
Species	
Number needed in first year	
Number needed in second year	
Number needed in third year	

RATIONALE FOR NUMBER OF ANIMALS REQUESTED FOR TEACHING PROTOCOLS: For example, if numbers are determined by a specific student-to-animal ratio, the choice of the ratio must be justified in writing.
All procedures will be performed by each student. Each animal will be subjected to a maximum of three attempts per procedure per day.

5) PROCEDURES, PAIN CATEGORY, SPECIES, PERSONS PERFORMING PROCEDURES AND THEIR TRAINING. Provide a detailed description of all proposed procedures to be conducted on each species, (Example: IV injection in the jugular vein, up to 3 ml, twice a day for six days), the pain category for the procedure, and the personnel who will perform the procedure. For pain categories see USDA/AWA Pain/Distress Categories on the last page of this application.
Species - Procedure – Pain Category – Personnel
<p><b>Canine and feline – Ocular Diagnostics –C – Vet Tech Instructors and Students:</b></p> <ol style="list-style-type: none"> <li>1. Students will observe an animal prior to any manipulation for respiratory rate and character. Animals will not be restrained or otherwise stressed during this observation.</li> <li>2. Students will prepare all material and supplies required to perform a Schirmer tear test (STT) prior restraining the patient. Minimal restraint needed to accomplish task will be applied. Students will understand the importance of performing the STT prior to any other eye tests for accurate results. While keeping the test strip in the sterile package the student will fold the strip at the notch, remove the sterile strip and place the folded end in the lower lid near the lateral canthus. Care will be taken not to allow the strip to rub against the cornea. The student will hold the strip in place for 60 seconds then remove strip and record results. The student will then repeat the process on the other eye.</li> </ol>

3. The students will perform a fluorescein eye stain holding the head secure. The student will moisten the end of a sterile fluorescein stain strip with ophthalmic irrigating solution or artificial tear solution. The upper eyelid will be elevated by gentle digital retraction on the skin of the upper eyelid in a dorsal direction. The moistened tip of the strip will be placed against the bulbar conjunctiva for 1 to 2 seconds, strip removed and patient allowed to blink. Next the eye will be liberally flushed with irrigating solution. The cornea will then be examined in a dim room using white light; ultraviolet and cobalt filter to detect any stain uptake by a break in the corneal epithelium. Lastly the student will examine the nares for the appearance of the green dye, indicating patency of the nasolacrimal duct.
4. For tonometry the student will check the equipment and gather supplies prior to restraint of the patient. The student will lift the upper eyelid using the index finger and instill 1-2 drops of ophthalmic anesthetic solution to the globe. After 30 to 60 seconds the student will hold the tonometer with the thumb and index finger while resting the remaining fingers on the patient's dorsal muzzle. Following the directions of tonometer manufacturer the student will take readings and record findings in the patient's chart.
5. Should any patient exhibit signs of pain or stress during procedure, the student will discontinue the procedure and will notify the supervising site veterinarian.

Specific training of each person for each procedure listed above.

Students will receive lectures on proper procedures and use of necessary equipment prior to performance. All students will demonstrate proper technique using models prior to live animal use.

#### 6) LITERATURE SEARCH FOR PAIN AND DISTRESS REDUCTION

-Replacement of a live animal model with non-living systems; refinement of methods which are less painful or distressful; and reduction in number of animals used should be considered. Include an appropriate conclusion such as "Literature search verified that procedures and methods described in this protocol are currently accepted methods and minimize pain and distress to the animals and that there are no alternatives available for these procedures."

Databases searched

**NORINA**

<http://awic.nal.usda.gov/>

<http://www.aphis.usda.gov/animalwelfare>

<http://www.animalearn>

<http://neavs.org>

Specific key words used in your search including animal species, pain, stress, distress, alternatives and specific type of research

Ocular examination, alternatives, dogs, cats, vet tech teaching

Dates search covered

2000 through November 2013

Date search completed

11/27/2013

Conclusion

Several adjunctive audiovisual aids were identified to minimize the amount of handling necessary to achieve proficiency. Accurate, less invasive methods for the required proficiencies are otherwise not available through models.

7) JUSTIFICATION OF LIVE ANIMAL USE AND SPECIES SELECTION Alternatives to live animal use must be considered and the lowest appropriate phylogenetic species must be used

All tasks listed for completion by students are required by the CVTEA as described in the Accreditation

Policies and Procedures Manual, Appendix I. All tasks performed by students will be under the direct supervision of a licensed veterinary professional.

8) ATTENDING VETERINARIAN

An attending veterinarian must review proposed procedures, especially drug use. He/she must also sign all protocols. The Veterinarian must have experience with the species for which he/she is responsible. All drugs are to be obtained through or with the approval of the Attending Veterinarian.

ANESTHESIA & PAIN CONTROL

Name and purpose of drug to be given		NA
Dose	NA	
Route of administration		NA
Maximum volume	NA	
Frequency of dosing	NA	
If pain alleviation interferes with end point measurements, a complete justification must be included. (i.e. pain Category E Protocols)		
NA		
Who will perform this procedure		NA
Specific training of each person for each type of anesthesia/pain control procedure they will perform		
NA		

EUTHANASIA/CARCASS DISPOSAL

AVMA Euthanasia Guidelines must be followed <http://www.avma.org/resources/euthanasia.pdf>. If you don't plan to euthanize animals, you must still be prepared to euthanize an animal because in all protocols, which include manipulations, an animal may be seriously injured and need to be euthanized.

Method of euthanasia to be used (all AVMA methods classified as "conditionally acceptable" must be justified in writing)		NA
If drugs are used specify the agent		NA
Dose	NA	
Route of administration		NA
Maximum Volume	NA	
Justification for "conditionally acceptable" methods		
NA		
Who will perform euthanasia procedure		NA
Specific training of each person for each type of euthanasia they will perform		
NA		

Describe how carcasses will be disposed of (especially applicable to carcasses which have been exposed to recombinant DNA, infectious, toxic or radioactive agents or euthanized with drug)
NA
If animals are not euthanized, what will be their final disposition (especially federal threatened, endangered, or state sensitive species)
All animals utilized for training purposes are owned by the animal care facility and all tasks are performed on site. An MOU is in place regarding all animal use.

Species	Attending Veterinarian Name	Attending Veterinarian's Email Address
canine and feline	Cathleen B Forester DVM	Cathleen.forester@coastalalabama.edu
Attending Veterinarian Comments		
<p>Animal use is justified and minimally stressful. Pain should not be present in healthy animals as requested by MOU.</p> <p>Animal numbers are reasonable based upon preliminary enrollment and planning, but may need to be adjusted by addendum based upon first year "pilot" program use.</p>		
Signature	Cathleen B Forester DVM	Date 10/05/17

<p>9) SUPPLEMENTAL INFORMATION</p> <p>Please read carefully &amp; place a "Y" or "N" to each question &amp; provide information as required.</p> <p>a. Y__ Is the proposed species covered under the <u>Animal Welfare Act</u>? (i.e. dogs cats, non-human primates, guinea pigs, hamsters, rabbits, wild mammals, and any species used in bio-medical research)</p> <p>b. Y__ Are <u>any animals described in this application privately owned</u>? If yes, contact your department head for discussion of liability issues and the potential need for a signed "Owner's Release Form", and provide written notice to the IACUC.</p> <p>c. N_ Is <u>surgery</u> in which the animal recovers part of this application? If yes, the person performing the procedure must prepare a description of the procedure, and the level of asepsis to be maintained. A record must be made for each procedure performed including anesthesia, analgesia, and pre- and post- operative care.</p> <p>d. N_ Is <u>tail clipping</u>, to obtain blood or tissue sample, of rodents over two weeks of age a part of this application? If yes, a specific written justification must be included with this application.</p>
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10) CERTIFICATION

*I certify that the above is a complete and accurate description of all proposed use of LIVE animals in this activity. I agree that if there are SIGNIFICANT CHANGES from those procedures described in the application I will, prior to the change, prepare a written amendment to this application and receive written IACUC approval prior to implementing the changes.*

*I assure that students, staff, faculty, or other personnel who perform the procedures described above are QUALIFIED to perform the procedures in a humane and scientifically acceptable manner. I certify that the procedures conducted do not unnecessarily duplicate previous experiments.*

Faculty Applicant Name	Cathleen B Forester DVM		
Signature		Date	10/05/17