

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 112-1004**

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. **Venipuncture VET112**
Protocol # VET 112-1004

2) APPLICANT NAME

Cathleen B Forester DVM

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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 perform the following in dogs and cats:

- Cephalic venipuncture –dog and cat
- Lateral saphenous venipuncture- dog
- Jugular venipuncture- dog and cat
- Medial Femoral venipuncture- cat

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 100 representing 2 or 3 dogs or cats per day.
If renewal - Total number utilized since prior protocol review	unknown

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>Canine and feline – Venipuncture –C – Vet Tech Instructors and Students:</p> <ol style="list-style-type: none"> 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. 2. For all venipuncture procedures of both dog and cat the student will gather all necessary and appropriate supplies prior to the restrainer obtaining the animal. 3. For cephalic venipuncture, the restrainer will hold the patient in a sitting position or sternal recumbency as described in the restraint IACUC protocol. The student will swab the area of the desired vein with a skin disinfectant to moisten the hair making the vein easier to see and cleaning the area of most dirt and debris. The hair may require shaving to facilitate visualization of the vein. The restrainer will distend the vein and the student will hold the leg at the metacarpal region. Holding the syringe in the barrel

region so that the needle bevel is up they will insert the needle at approximately 30 degree angle with the skin so that the distal end of the needle threads into the vein about ½ inch. The student’s thumb may be placed medially to the vein to stabilize the vein and help prevent rolling. Once the needle is in place the student will draw back on the syringe applying suction to obtain the sample. The restrainer then will release distending pressure on the vein. When the procedure is completed the needle is withdrawn and direct pressure applied to the venipuncture site using a dry cotton ball or gauze for about 60 seconds to prevent hematoma formation and bleeding.

4. Students will perform lateral saphenous venipuncture in dogs following the above described procedure with the dog in lateral recumbency.
5. Students will perform jugular venipuncture with the patient in sternal recumbency or sitting. The student will occlude the external jugular vein, located in the jugular furrow, near the thoracic inlet. The area will be cleaned with a disinfectant to remove surface dirt and to facilitate visualization of the vein. If the vein cannot be easily seen or felt, the hair may be shaved. The student will palpate the distended vein to identify the vein’s location. Once identified the needle will be inserted upward, bevel up, at a 20 to 30 degree angle to the vein. When the tip of the needle enters the vein, suction will be applied to obtain sample and once obtained the needle will be withdrawn and direct pressure will be place over site of entry for approximately 60 seconds to prevent hematoma formation and bleeding.
6. The students will perform medial femoral vein venipuncture with the restrainer holding cat in lateral recumbency as described in restraint protocol. The restrainer will occlude the vein to cause distention; the student will shave a small area of fur and clean area with skin disinfectant. The student will hold the cat’s leg at the level of the hock and may stabilize the vein by placing their thumb alongside of the vein. With the vein stabilized the needle is inserted, bevel up, into the vein. Slight suction will be used for blood draw to prevent vein collapse. When sample draw is complete, the needle is withdrawn and direct pressure is applied to the vein for 60 seconds to prevent hematoma formation and bleeding.
7. Any procedure will be discontinued if a patient shows any signs of pain or distress and the supervising site Veterinarian will be notified.

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

Venipuncture, blood draw, alternatives, dogs, cats

Dates search covered

2000 through November 2013

Date search completed	11/27/2013
Conclusion	Several adjunctive audiovisual aids and models were identified to minimize the amount of handling necessary to achieve proficiency in venipuncture. Accurate, less invasive methods for the required proficiencies are otherwise not available through models or lower species.

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 & place a "Y" or "N" to each question & 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>
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d. N_ Is tail clipping, 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.

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