

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 112-1010**

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: **Administer parenteral medications; subcutaneous and intramuscular-VET 112**
Protocol #- VET 112-1010

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 accurately perform the following parenteral medication injections in dogs and cats:**

- Subcutaneous injection
- Intramuscular injections

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)

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| 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 | |

OR

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| -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 | |

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| 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. |

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| 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 – Parenteral medications –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. Students will prepare and check necessary materials prior to either beginning procedure. 3. Students will place the patient in sternal recumbency or in standing or sitting position. 4. For subcutaneous injections the student will pick up a fold of skin on the back of the neck between the shoulders using the thumb and forefinger. The student will insert the needle perpendicular to the skin fold into the subcutaneous tissue space. Prior to injecting the student will pull back on the syringe plunger to observe for any blood entering the syringe, should any blood be noted the needle will be withdrawn and another injection site selected. Should no blood enter the syringe, the injection will be |

given and the needle withdrawn. The student will gently massage the site and note the medication and time in the patient's chart.

5. For intramuscular injections the students will utilize the appropriate muscle group as directed by the attending veterinarian. The recommended muscle groups are the quadriceps, lumbodorsal or triceps muscles. The student will grasp the muscle group to be used with the non-injecting hand, the needle will be inserted into the muscle group quickly, the student will draw back on the syringe to check for presence of blood and to check for negative pressure. If no blood is noted and negative pressure is verified, the injection is given and the needle withdrawn and muscle belly massaged. Should blood aspirate into the hub the student will withdraw the needle and select another injection site.
6. After the injection the student will note all injection data into the patient's medical record.

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."

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| Databases searched | <p>NORINA</p> <p>http://awic.nal.usda.gov/ http://www.aphis.usda.gov/animalwelfare http://www.animalearn http://neavs.org</p> |
| Specific key words used in your search including animal species, pain, stress, distress, alternatives and specific type of research | |
| alternatives, vet tech teaching programs, dogs, cats, injections | |
| 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 in parenteral medications. 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.

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| 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 | |

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| 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 |
| <p>Attending Veterinarian Comments</p> <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 |

9) SUPPLEMENTAL INFORMATION

Please read carefully & place a "Y" or "N" to each question & provide information as required.

- Y__ Is the proposed species covered under the Animal Welfare Act? (i.e. dogs cats, non-human primates, guinea pigs, hamsters, rabbits, wild mammals, and any species used in bio-medical research)
- Y__ Are any animals described in this application privately owned? 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.
- N_ Is surgery 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.
- 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.

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