

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 120- 1018**

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.

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| 1) NAME OF ACTIVITY, CLASS, OR TRAINING EVENT | | | | | |
| Name of activity and associated course number: Intravenous injection VET 120 Protocol #- VET 120-1018 | | | | | |
| 2) APPLICANT NAME | | | | Cathleen B Forester DVM | |
| Office Phone | (251) 580-2273 | | | | |
| Dept. | Allied Health-Vet Tech | E-mail address | Cathleen.forester | @ | coastalalabama.edu |
| 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 give medication intravenously. | | | | | |
| <input type="radio"/> Intravenous injection | | | | | |
| 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 | unknown | | | | |

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| review | |
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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 | |

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

Canine and feline – Intravenous injections –C– Vet Tech Lab Instructors or supervisor and students:

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 for injection.
3. The student will place animal in appropriate position for IV injection into jugular, cephalic, lateral saphenous or femoral vein.
4. Hold syringe barrel so that needle bevel is up. Insert needle at approximately 30 degree angle.
5. Advance needle until at least half of needle is within vein.
6. Release or ask assistant to release distending pressure on vein.
7. Aspirate small amount of blood into needle hub.
8. Inject medication into vein at a moderate rate.
9. Apply previously prepared bandage with some compression to cephalic, saphenous, or femoral venipuncture site. Hold firm pressure on jugular venipuncture site for at least 60 seconds.
10. Remove needle from vein and immediately apply pressure with dry cotton ball to venipuncture site.
11. Patients will be closely monitored during all procedures for any signs of pain or distress, if any are noted the procedure will immediately be suspended and the supervising veterinarian will be notified and the patient will be examined. The procedure will be continued only after any issues have been resolved.

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

IV injections, IV medication administration, Intravenous injections

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| Dates search covered | 2000 through November 2013 |
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| Date search completed | 11/27/2013 |
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| Conclusion | Several adjunctive audiovisual aids were identified to minimize the amount of handling necessary to achieve proficiency in venipuncture. Canine and feline models are available to help with proficiency but live animal practice is a more accurate method for the required proficiencies. |
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| 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:

Animal use is justified and minimally stressful. Pain should not be present in healthy animals as requested by MOU.

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.

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| Signature | Cathleen B Forester DVM | Date | 10/05/17 |
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9) SUPPLEMENTAL INFORMATION

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

- a. 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)
- b. 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.
- c. 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.
- 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.

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