

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

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

<input type="checkbox"/> New application	<input type="checkbox"/> Amendment of current protocol # _ .
<input checked="" type="checkbox"/> Renewal of current protocol # VET 112-1001	

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: **Apply a Dog and Cat Muzzle Safely**
Protocol # - VET 112-1001

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 proficiently perform the following in dogs.

- **Apply a Dog and Cat Muzzle Safely**

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).

Nov 01,
2017

-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 75 representing 1 or 2 dogs and/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 USD A/AWA Pain/Distress Categories on the last page of this application.

Species - Procedure - Pain Category - Personnel

Canine - Application of a Muzzle -C - Vet Tech Instructors 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 procure the appropriate size commercially available muzzle. Then with the animal in sternal recumbency, or sitting, with the head facing away from the student they will stabilize the animal with their right arm, pressing the dog's cheek to their shoulder.
3. Holding the straps of the muzzle with the shorter piece of material on top the student will swiftly bring the muzzle up to encircle the patient's muzzle. With both straps grasped firmly the muzzle is buckled behind the dog's ears and tightened appropriately.
4. To remove the muzzle the student will secure the patient's head, unbuckle the muzzle then grasp the

- outside strap and quickly pull the muzzle off.
5. For canine patients, the student may also try an alternative to the commercial muzzle using gauze. A strip of gauze approximately 120cm in length will be used. Students will make a loop with one half a square knot and slip that over the dog's nose and tighten, the ends cross under the dog's lower jaw and are brought up behind the dog's ears and tied in a bow. This muzzle will be removed by untying the bow and slipping the loose gauze muzzle off of the dog's nose.
 6. Students will monitor all patients for signs of stress, anxiety, escalating aggression, over heating or vomiting and will quickly react if any of the signs are observed and notify the attending supervising Site Veterinarian.

Specific training of each person for each procedure listed above.

Students will receive lectures and videos 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

Alternatives to live animal use in teaching

Dates search covered | 2000 through Nov 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 muzzle application. 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 euthanise animals, you must still be prepared to euthanise an animal because in all protocols, which include manipulations, an animal may be seriously injured and need to be euthanised.

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 euthanised 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.			
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. _____

- 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

/ 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