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

	MARK WITH AN "X" IN THE BOX FOR ONE OF THE FOLLOWING AND TYPE YOUR CURRENT PROTOCOL NUMBER IF NEEDED:								
_X	New application Amendment of current protocol #X Renewal of current protocol # VET 240 -1062								
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.									
Name of 240	1) NAME OF ACTIVITY, CLASS, OR TRAINING EVENT  Name of activity & associated course number. Subcutaneous Injection (SQ) in Food Animal Patient VET  240  Protocol # VET 240 - 1062								
2) APPLICANT NAME Cathleen B Forester DVM									
Office Ph	none	(251) 580-2273							
Dept.	Allied	Health-Vet Tech	E-mail addr	ess	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 assess the following in food animal patient:  O Subcutaneous (SQ) Injection in Food Animal Patient									
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).									
-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)  Cattle; goats; pigs									

Number needed in one year	Approximately 10-15 representing 1 or 2 food animal patients per semester.
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

Bovine/Porcine/ Caprine - Subcutaneous (SQ) Injection -C - Vet Tech Lab Instructors, clinical supervisors and Students:

- 1. The student will select the proper site for administration.
- 2. The student will remove any debris from the injection site with alcohol or other appropriate antiseptic.
- 3. The student will properly introduce the needle into the site of administration.
- 4. The student will aspirate the syringe to check for blood or air prior to injection.
- 5. The student successfully administered the prescribed amount of medication. The student successfully administered the prescribed amount of medication. 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  Replegement of a live primal model with non-living systems; refinement of methods which are less pointful or											
-Replacement of a live animal model with non-living systems; <u>refinement</u> of methods which are less painful or distressful; and <u>reduction</u> 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											
		NO	ORIN	A							
		htt	p://av	vic.nal.u	usda.gov/						
		htt	p://w	ww.aphi	is.usda.gov/animalwelfare						
				ww.anin	<u>nalearn</u>						
		http	p:nea	vs.org							
Specific key words used in your search including animal species, pain, stress, distress, alternatives and specific type of research											
SQ injection cat	tle, SQ ir	ijecti	ion pi	igs, SQ	injection goats, Large animal SQ injections						
Dates search co	vered	2	000 t	hrough	November 2015						
Date search con	npleted		12/27/2015								
Conclusion Several adjunctive audiovisual aids were identified to minimize the amount of handling											
	necessary to achieve proficiency in suturing. 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											
					x 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	ed throug	h or	with	the appr	roval of the Attending Veterinarian.						
ANESTHESIA & PAIN CONTROL											
Name and purpo	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 perfor	m this			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  Bovine, Caprine, Cathleen B Forester DVM Cathleen.forester@coastalalabama.edu  Porcine 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.	procedure									
EUTHANASIA/CARCASS DISPOSAL AVMA Euthanasia Guidelines must be followed <a href="http://www.avma.org/resources/euthanasia.pdf">http://www.avma.org/resources/euthanasia.pdf</a> . 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)  If drugs are used specify the agent	Specific training of each person fo				r each type of anesthesia/pain control procedure they will perform					
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Signature Cathleen B Forester DVM Date 10/05/17	Signature									

## 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 <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)
- 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.
- 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.
- 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.

## 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			