

Course Competency

ATE 2652L INTRODUCTION TO CLINICAL PRACTICE 2

Course Description

The clinical application of basic veterinary radiology and surgical nursing skills will be the primary focus of this practicum. The student will demonstrate skills under supervised instruction. Prerequisite: ATE 1110, 1650L. (1 hr. lab)

Course Competency	Learning Outcomes
<p>Competency 1:The student will understand and implement the necessary safety requirements for taking radiographs by:</p>	<ol style="list-style-type: none"> 1. Communication 2. Numbers / Data 3. Critical thinking 4. Information Literacy 5. Computer / Technology Usage
<ol style="list-style-type: none"> 1. Implementing and observing recommended radiation safety measures. 2. Implementing quality control measures. 3. Identifying the maximum permissible dose of x-rays allowed per year and measurements associated with the maximum permissible dose. 4. Demonstrating they understand the ALARA principle and techniques used to achieve it. 	
<p>Competency 2:The student will acquire necessary skills to function in the radiology laboratory by:</p>	
<ol style="list-style-type: none"> 1. Demonstrating that they can develop and properly utilize radiographic technique charts. 2. Demonstrating that they can accurately use positioning terminology for radiographic studies. 3. Demonstrating the various positions and techniques for taking radiographs of the dog and the cat so that diagnostic images are created. 	

<ol style="list-style-type: none"> 4. Demonstrating that they can explain how x-rays are created using the correct terminology. 5. Demonstrating that they have a working knowledge of the kVp and mAs and the role these factors play in creating quality images. 6. Demonstrating knowledge of the set-up and operation of x-ray machine, labeling right and left, use of blockers, and the grid. 7. Demonstrating that they can appropriately label, file, and store images. 8. Demonstrating that they can adequately complete radiographic logs, reports, files, and medical records. 9. Demonstrating that they can measure and position animals using topographic landmarks. 10. Demonstrating that they can choose an appropriate radiographic technique to minimize the need for repeat exposures. 11. Demonstrating that they can produce a quality diagnostic radiograph for the abdomen and thorax. 12. Demonstrating that they can analyze the final radiograph for quality to provide maximum diagnostic benefit. 13. Demonstrating knowledge of the different types of digital x-ray machines. 	
<p>Competency 3: The student will understand preoperative surgical protocols by:</p>	
<ol style="list-style-type: none"> 1. Demonstrating knowledge of the autoclave and the criteria necessary to meet sterilization standards. 2. Demonstrating that they can perform an accordion fold. 3. Demonstrating that they can properly prepare surgical gowns, towels, surgical instruments, and packs for autoclaving. 4. Demonstrating that they can identify and classify surgical instruments using their proper names and applications. 5. Demonstrating that they can clean, disinfect, and sterilize surgical instruments 	

<p>by methods incorporating steam, gas, or liquid solutions.</p> <ol style="list-style-type: none"> 6. Demonstrating that they have working knowledge of the various antiseptics and disinfectants used in a surgical suite. 7. Demonstrating they have knowledge of how to perform patient preparation including parameters for shaving, the nonsterile prep, and the aseptic prep. 8. Demonstrate knowledge of various shaving and scrubbing techniques required to prepare a patient for surgery (e.g., clean hand dirty hand technique). 	
<p>Competency 4:The student will demonstrate understanding of perioperative procedures by:</p>	
<ol style="list-style-type: none"> 1. Demonstrating knowledge of surgical suite arrangements and proper conduct of the surgical nurse, the surgeon, and all other surgical team members. 2. Identifying the sterile and nonsterile areas of the surgical suite and the proper movement within the surgical suite. 3. Demonstrating that they can recognize the sterile and nonsterile areas of surgery gowns and drapes. 4. Identifying surgical instruments by their proper names and their function during a surgical procedure. 5. Demonstrating working knowledge of the various suture material and surgical needles used when performing surgery. 6. Demonstrating techniques for hand scrubbing and putting on sterile gloves. 7. Demonstrating that they can put on a surgical gown using sterile technique. 8. Recognizing patient positioning requirements for various surgical techniques. 9. Demonstrating the shaving requirements for the various surgical procedures. 	

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