

Course Competency

SON 2844 Clinic 5

Course Description

This is the fifth in a series of six (6) clinics in which the student is assigned to a medical facility. The student is afforded hands-on experience in sonography under the supervision of a clinical instructor, sonographer or physician. Prerequisite: SON 2834.

Course Competency	Learning Outcomes
<p>Competency 1:Demonstrate knowledge of physiology, pathology, and pathophysiology by:</p>	<ol style="list-style-type: none"> 1. Communication 2. Critical thinking 3. Information Literacy
<ol style="list-style-type: none"> a. Evaluating images of ultrasound exam. b. Analyzing diagnostic data and other pertinent observation for presentations to the interpreting physician. c. Recognize and identify the sonographic appearance of normal anatomic structures associated with each learning concentration. d. Recognize and identify the sonographic appearance of abnormal anatomic structures associated with each learning concentration. e. Analyze diagnostic data and other pertinent observations for presentations to interpreting physicians. 	
<p>Competency 2:The student will demonstrate knowledge and understanding of acoustic physics, Doppler ultrasound principles, and ultrasound instrumentation by:</p>	<ol style="list-style-type: none"> 1. Computer / Technology Usage 2. Information Literacy
<ol style="list-style-type: none"> a. Using controls properly. b. Identifying artifacts. c. Applying techniques to optimize image. d. Discussing Doppler formulas. e. Evaluating final Doppler findings. 	

<p>Competency 3:The student will demonstrate knowledge and application of ergonomics by: .</p>	<p>1. Critical thinking</p>
<ul style="list-style-type: none"> a. Demonstrating proper body mechanics when scanning a patient. b. Demonstrating proper body mechanics when moving a patient. c. Demonstrating proper body mechanics when moving machines. 	
<p>Competency 4:The student will demonstrate ability to assist in ultrasound studies and demonstrate basic skills of a sonographer by:</p>	<ul style="list-style-type: none"> 1. Communication 2. Information Literacy 3. Computer / Technology Usage
<ul style="list-style-type: none"> a. Assisting with the ultrasound exam by providing basic images. b. Listing and discussing protocols for each exam. c. Preparing patients for the ultrasound exam. d. Preparing rooms for the ultrasound exam. e. Identifying image storage technique. f. Demonstrating basic patient care skills. g. Demonstrating attention to patient safety. h. Demonstrate preparation to start an exam and prepare ultrasound machine and room. i. Demonstrating basic skills for prevention of infection. j. Locating emergency equipment and supplies. 	
<p>Competency 5:The student will demonstrate knowledge and application of image optimization in 2D and Doppler studies by:</p>	<p>1. Information Literacy</p>
<ul style="list-style-type: none"> a. Evaluating images and applying proper technique. b. Identifying and comparing gain and power. c. Identifying preset. d. Identifying zoom. e. Identifying focus. f. Identifying aliasing. 	
<p>Competency 6:The student will identify pathology on ultrasound exams by:</p> <ul style="list-style-type: none"> a. Describing pathology using sonographic terms. b. Identifying basic view within the scanning protocol. c. Identifying all structures within each protocol view. d. Discussing normal measurements within the protocol. e. Describing abnormal findings. f. Discussing differential diagnosis. 	<ul style="list-style-type: none"> 1. Communication 2. Information Literacy

Competency 7: The student will demonstrate clinic preparedness by:	<ol style="list-style-type: none"> 1. Communication 2. Numbers / Data
<ol style="list-style-type: none"> a. Participating in the daily activities of the sonography department. b. Demonstrating professional and ethical conduct and adherence to rules and regulation of the school and clinical site. c. Communicating with patients, medical staff, and physicians in a professional manner. d. Demonstrating awareness about patient safety. 	

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