



Course Description

SON1804 | Clinic 1 | 1.00 credit

This is the first 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.

Course Competencies

Competency 1: The student will demonstrate knowledge and comprehension of ultrasound requisition/prescriptions by:

1. Identify the examination requested
2. Identify pertinent patient information, such as, name, medical record number, age, requesting physician, admitting diagnosis, floor, or clinic
3. Record correct technical information on each requisition
4. Identify all necessary paperwork prior to exam

Competency 2: The student will demonstrate knowledge and comprehension of facility readiness by:

1. Maintain proper care and storage of supplies
2. Keep equipment clean
3. Clean transducers with proper cleaning solutions
4. Maintain supplies for ultrasound exams
5. Prepare supplies for portable ultrasound
6. Maintain gel bottles
7. Properly dispose of soiled supplies
8. Identify and select appropriate supplies to be used by the Staff sonographer

Competency 3: The student will demonstrate knowledge and comprehension of ultrasound imaging by:

1. Demonstrate operation of image storage on machine and computer system
2. Identifying appropriate transducers selection
3. Identifying knobs (freeze, cine loop, overall gain, power, TGC, Doppler, dynamic range, sector width, zoom, storage)
4. Discussing protocols for procedures within each imaging modality

Competency 4: The student will demonstrate knowledge and comprehension of sonographer interactions with patients and health care providers by:

1. Demonstrating how to formally address the patient by prefacing name with Mr., Ms., or Dr.
2. Assist patients to and from room
3. Assist patients from wheelchair or stretcher to scanning table
4. Offering appropriate patient assistance
5. Maintain patient's modesty by giving proper dressing or changing instruction supplying dressing gowns with adequate closures, guiding patient to private dressing area
6. Converse in professional, courteous manner
7. Explain to the patient what exam will be performed, any exam instructions and approximate time they will be there
8. Fulfill any acceptable patient request, with respect
9. Prepare patient for exam (i.e. adjusting patient garment, placing electrodes where applicable)
10. Maintaining any special sterility/isolation requirements
11. Cleaning patient's skin of gel or electrodes
12. Arranging for transportation of in-patients to and from department

13. Escorting out-patients to and from waiting areas
14. Demonstrating proper uses of orientation and standard labelling of image
15. Demonstrating proper body mechanics to avoid work related musculoskeletal disorders when performing examinations
16. Demonstrating professional communication skills required on a daily basis in the health care setting
17. Explaining and demonstrating the methods of patient preparation and care before and during a sonography
18. Demonstrating proper body mechanics when transporting and assisting patients
19. Demonstrating proper universal precautions and sterile techniques when preparing for a sonographic procedure

Competency 5: The student will demonstrate knowledge and comprehension of basic sonography skills by :

1. Observing studies being performed from start to finish (i.e., follows one patient through stages of studies from scanning to interpretation)
2. Identifying anatomy being demonstrated
3. Identifying anatomy listed within clinical evaluation 1
4. Listing terms, pathological names etc. to review
5. By discussing normal and abnormal ultrasound findings with sonographers, doctors, and clinical instructors

Learning Outcomes

- Communicate effectively using listening, speaking, reading, and writing skills
- Use quantitative analytical skills to evaluate and process numerical data