

## **Course Description**

### **SON 1804 | Sonography Clinic 1 | 1 credits**

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:

- a. Identify the examination requested.
- b. Identify pertinent patient information, such as, name, medical record number, age, requesting physician, admitting diagnosis, floor, or clinic.
- c. Record correct technical information on each requisition.
- d. Identify all necessary paperwork prior to exam.

#### Learning Outcomes

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

### **Competency 2:**

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

- a. Maintain proper care and storage of supplies.
- b. Keep equipment clean.
- c. Clean transducers with proper cleaning solutions.
- d. Maintain supplies for ultrasound exams.
- e. Prepare supplies for portable ultrasound.
- f. Maintain gel bottles.
- g. Properly dispose of soiled supplies.
- h. Identify and select appropriate supplies to be used by the Staff sonographer.

#### Learning Outcomes

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

### **Competency 3:**

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

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

#### Learning Outcomes

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

#### **Competency 4:**

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

- a. Demonstrating how to formally address the patient by prefacing name with Mr., Ms., or Dr.
- b. Assist patients to and from room.
- c. Assist patients from wheelchair or stretcher to scanning table.
- d. Offering appropriate patient assistance.
- e. Maintain patient's modesty by giving proper dressing or changing instruction supplying dressing gowns with adequate closures, guiding patient to private dressing area
- f. Converse in professional, courteous manner.
- g. Explain to the patient what exam will be performed, any exam instructions and approximate time they will be there.
- h. Fulfill any acceptable patient request, with respect
- i. Prepare patient for exam (i.e. adjusting patient garment, placing electrodes where applicable)
- j. Maintaining any special sterility/isolation requirements.
- k. Cleaning patient's skin of gel or electrodes.
- l. Arranging for transportation of in-patients to and from department.
- m. Escorting out-patients to and from waiting areas.
- n. Demonstrating proper uses of orientation and standard labelling of image.
- o. Demonstrating proper body mechanics to avoid work related musculoskeletal disorders when performing examinations.
- p. Demonstrating professional communication skills required on a daily basis in the health care setting.
- q. Explaining and demonstrating the methods of patient preparation and care before and during a sonography.
- r. Demonstrating proper body mechanics when transporting and assisting patients.
- s. Demonstrating proper universal precautions and sterile techniques when preparing for a sonographic procedure

#### Learning Outcomes

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

#### **Competency 5:**

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

- a. Observing studies being performed from start to finish (i.e., follows one patient through stages of studies from scanning to interpretation).
- b. Identifying anatomy being demonstrated.
- c. Identifying anatomy listed within clinical evaluation 1.
- d. Listing terms, pathological names etc. to review.
- e. 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