

Course Description

SON 1112C | Abdominal Sonography II | 2 credits

An in-depth course designed to cover all aspects of clinical abdominal ultrasound studies. Subject matter includes: review of normal anatomy (ultrasonic appearance), indications for ultrasound studies, clinical presentation and data, pathophysiological basis of disease, ultrasonic manifestations of diseases, recognition of adequate images and scanning pitfalls.

Course Competencies

Competency 1:

The student will demonstrate knowledge, comprehension, of anatomy, pathology, and scanning techniques of the urinary system by:

- a. identifying the gross urinary system as demonstrated by ultrasound kidney, ureters, and urinary bladder.
- b. labelling diagrams pertaining to the urinary system.
- c. describing the physiology of the kidneys.

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, comprehension, of anatomy and physiology, pathology, and scanning techniques of the adrenal glands by:

- a. Recognizing and describing the internal and surface anatomy, size and position and the normal sonographic pattern of the adrenal glands and adjacent anatomy.
- b. labelling diagrams of the cross-sectional anatomy of the adrenal glands and adjacent structures.
- c. labelling sonographic images in multiple planes of the adrenal glands and adjacent structures

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, comprehension, of anatomy and physiology, pathology, and scanning techniques of the spleen by:

- a. describing the location, size, and position of the spleen.
- b. explaining the internal surface anatomy of the spleen.
- c. labelling diagrams cross-sectional anatomy of the spleen and adjacent structures
- d. labelling ultrasound images of the spleen and adjacent structures.

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, comprehension, of anatomy and physiology, pathology, pathophysiologic processes and scanning techniques of the lymph nodes and retroperitoneal structures by:

- a. labelling the lymphatic drainage system
- b. explaining the functions of the lymphatic system
- c. distinguishing between normal and abnormal sonographic appearances of the Retroperitoneum.
- d. explaining examination techniques associated with the Retroperitoneum

Learning Outcomes

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