

## **Course Description**

### **SON 1122C | OG/GYN Sonography II | 2 credits**

An in-depth course designed to cover all aspects of clinical OB/GYN ultrasound studies. Topics include fetal hydrops, genetic disorders, congenital anomalies and gynecological disorders. Subject matter includes: review of normal anatomy (ultrasound appearance), indications for ultrasound studies, clinical presentation and data, pathophysiological basis of disease, ultrasonographic manifestations of disease, recognition of adequate images and scanning pitfalls.

## **Course Competencies**

### **Competency 1:**

The student will demonstrate knowledge, comprehension, and application of ultrasound in high risk pregnancy by:

- a. Listing the types of multiple gestation and their effect of pregnancy.
- b. Identifying sonographic findings of premature rupture of the membranes.
- c. Defining and differentiating preterm labor and cervical incompetence.
- d. Identifying abnormal findings of cervical length.
- e. Listing and labelling protocols when there is a finding of oligohydramnios.
- f. Listing protocols when there is finding of polyhydramnios
- g. Differentiating between immune and non-immune hydrops.
- h. Listing and defining causes of immune and non-immune hydrops.
- i. Discussing identification and obstetrical management of RH sensitization.
- j. Discussing fetal therapy.
- k. Listing ultrasound protocols for each complication presented.

### **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 ultrasound of multiple gestations by:

- a. Listing the types of multiple gestations.
- b. Listing associated findings with multiple gestation.
- c. Differentiating between monozygotic and dizygotic twins
- d. Defining and identifying chorionicity in ultrasound imaging.
- e. Listing the risks of multiple gestation.
- f. Identifying and describing vanishing twin.
- g. identifying Twin-to-Twin Transfusion and listing what the sonographer should include in the ultrasound exam.

- a. Describing protocols for selective reductions.
- b. Describing invasive procedure performed in multiple gestations.
- c. Describing the ultrasound management and protocol for multiple gestation.
- d. Describing and identifying abnormal twin types: conjoined twins and a cardiac twin.

#### 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 knowledge, comprehension, and application of fetal face and neck anomalies by:

- a. Describing the basic embryology of the face.
- b. Evaluating the fetal face for normal and abnormal face.
- c. Describing abnormalities of the orbits.
- d. Evaluating for cleft lip and palate.
- e. Recognizing abnormalities of the face and neck.

#### Learning Outcomes

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