

Lincoln University

Syllabus

Semester: Fall 2011

Course Title: OB/GYN SCANNING (LAB)

Course: DI 140 / UT 140

Credit: 4 units = 120 lab hours

Class Hours: Mondays 12:30 – 4:15 PM; Thursdays 5:30 – 9:15 PM

Instructor: Ludmila Zakasovskaya, MD, RDMS, RVT, SDMS

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Instructional Materials:

1. Hagen-Ansert: Textbook of Diagnostic Ultrasonography, 6th Edition, vol#2
2. Rumack, Carol. Diagnostic Ultrasound. St Louis, MO: Elsevier Mosby. Third Edition, 2005
(two-volume set)
3. Various videotapes, handouts, and other resources will be utilized time to time in this class.
4. Outside research using the internet, online e-global library.
5. Callen, Peter. Ultrasonography in Obstetrics and Gynecology Philadelphia, PA: W.B.Saunders Company. Fourth Edition, 2000

Course Description:

Scanning protocols and practice for the ultrasound examination in obstetrics and gynecology.
(4 units) *Prerequisite: DI 130 / UT 130*

This course begins with anatomic relations of the female pelvic organs as related to ultrasound imaging, comparing ultrasound images of normal and abnormal structures. Various tumors, cysts, congenital anomalies, and other pathologic conditions are covered, along with ultrasound diagnosis of these conditions.

The course presents an in-depth study of Ultrasound evaluation of the pregnant uterus in the first, second, and third trimesters. Begins with Ultrasound diagnosis of pregnancy, ectopic pregnancy, and abnormalities in early gestation, miscarriage and blighted ovum and moving onto Ultrasound dating of pregnancy, fetal abnormalities, placenta abruption, and multiple pregnancies. Also, includes discussion on infertility, genetic testing and determination of fetal sex.

Entry into this class is granted after successful completion of all classes in the previous term with a minimum grade of “D” in each class.

Course Objectives: Upon completion of the course, the student will:

1. Be familiar with the cross sectional and sonographic anatomy of the female organs.
2. Understand and recognize the normal variations in the size, position, and location of the uterus and ovaries.
3. Recognize the full spectrum of pathological conditions involving the female pelvic organs and their sonographic appearances.
4. Employ proper scanning technique for evaluation and documentation of normal and abnormal female pelvic organs.
5. Principles and indications for endovaginal evaluation.
6. Be familiar with the sonographic appearance of the normal and abnormal early gestational sac
7. Recognize and understand the normal structures seen in the first trimester fetus.
8. Employ proper technique for evaluation and documentation of normal vs. abnormal pregnant uterus.
9. Employ proper technique for evaluation and documentation of normal fetal anatomy.
10. Employ proper technique for evaluation and documentation of normal amniotic fluid volumes and normal placental appearances.

Instructional Methods:

Instructional methods will include in-class hands-on learning activities. Classroom activities are collaborative – students may and should help each other. The instructor will be available to help students with all tutorials and other assignments.

Requirements:

1. Student will complete the reading assignment and homework as assigned
2. Class attendances are mandatory.
3. Maintain a demeanor and show consideration for the views of others.

Evaluation:

1. Lab. Competencies; announced and unannounced
2. Case Studies
3. Homework
4. Knowledge of the U.S. Exams Protocols

Grading

ATTENDANCE	10%
PRESENTATION	20%
SCANNING PROTOCOLS	30%
FINAL PERFORMANCE SCANNING PROTOCOLS	40%
TOTAL	100%

93-100	A
89-92	A-
85-88	B
81-84	B+
77-80	B-
73-76	C
69-72	C+
65-68	C-
61-64	D+
50-60	D
< 49	F

Class Policies:

Attendance: Mandatory

Attendance will be taken at the beginning of the class. Student arriving after attendance has been taken or leaving prior to the end of class will be marked absent for that day. If a student is absent, it is the student's responsibility to retrieve missed notes and presentations etc.

Course Outline: SCHEDULE

Order of topics subject to change:

1. Sonographic terms and appearance, cross –sectional planes in pelvic scanning.	Week 1
2. Normal Anatomy and Physiology of the Uterus and Ovaries	1
3. Transabdominal Scan Technique	1
4. Endovaginal Scan Technique	2
5. Congenital Anomalies	3

6.	Intrauterine Contraceptive Devices	4
7.	Benign uterine Tumors	4
8.	Malignant Uterine Tumors	5
9.	Endometrial Abnormalities	6
10.	Benign Ovarian Tumors	7
11.	Malignant Ovarian Tumors	8
12.	Pelvic Inflammatory Disease	9
13.	Bioeffects of Ultrasound	9
14.	Normal First trimester pregnancy	10
15.	Abnormal First trimester	11
16.	Sonographic Evaluation of the 1 st Trimester Placenta, Gestational Trophoblastic Disease	12
17.	Normal Sonographic appearance of 2 th and 3 rd Trimester pregnancy	13
18.	Fetal Anatomy, Second and 3 RD Trimester measurements	14
19.	Ultrasound features of 2 th & 3 rd trimester Placenta and umbilical Cord	15
20.	Amniotic Fluid	15
21.	Case Presentation Final exam	16

Syllabus revised: 8/30/2011