

DMS 53C: DIAGNOSTIC MEDICAL SONOGRAPHY III

Foothill College Course Outline of Record

Heading	Value
Units:	2
Hours:	2 lecture, 1 laboratory per week (36 total per quarter)
Prerequisite:	DMS 53B.
Degree & Credit Status:	Degree-Applicable Credit Course
Foothill GE:	Non-GE
Transferable:	CSU
Grade Type:	Letter Grade Only
Repeatability:	Not Repeatable

Student Learning Outcomes

- Recognize normal and abnormal anatomical structures.
- Describe related pathology, lab tests, and clinical symptoms

Description

Anatomy, physiology and pathology of abdominal organs not yet covered, neurosonography, superficial structures, transplant, and the pediatric patient. Use of sonography in the operating room with a review of aseptic technique. Discussion of related medical ethics and legal issues. One hour per week will be spent in completing online exams and working on patient case studies. Intended for students in the Diagnostic Medical Sonography Program; enrollment is limited to students accepted in the program.

Course Objectives

The student will be able to:

- illustrate the anatomy and physiology of the brain and superficial structures.
- identify symptoms, diagnosis, and the disease processes relevant to the areas of study.
- describe sonographic characteristics for each topic.
- discuss ethical dilemmas for health care personnel when in conflict with law and cultural interests, gender, and age populations.

Course Content

- Identify and illustrate anatomy and explain physiology for:
 - Neurosonography
 - Pediatric patient
 - Targeted superficial structures
 - Transplants
 - Intraoperative sonography
- Laboratory tests, symptoms and disease processes relevant for:
 - Neurosonography
 - Pediatric patient
 - Targeted superficial structures
 - Transplants
 - Intraoperative sonography
- Sonographic characteristics of pathology for:
 - Neurosonography
 - Pediatric patient

- Targeted superficial structures
- Transplants
- Intraoperative sonography
- Dilemmas and conflict intervention for health care professionals
 - Legal issues
 - Torts
 - Negligence
 - Malpractice
 - HIPAA
 - Confidentiality

Lab Content

- The students will participate in online assessments, testing and case analysis.

Special Facilities and/or Equipment

- DVD, TV, computer, monitor, viewboxes.
- When taught via Foothill Global Access, on-going access to computer with email software and hardware; email address.

Method(s) of Evaluation

- Demonstration of mastery of lecture material
- Written quizzes
- Patient case studies
- Midterm
- Comprehensive final exam

Method(s) of Instruction

- Lecture presentations
- Classroom discussions
- Canvas assignments

Representative Text(s) and Other Materials

Kawamura, D., and T. Nolan. *Abdomen and Superficial Structure*. 4th ed. Philadelphia, PA: Wolters Kluwer, MD, 2018.

Kawamura, D., and B. Lunsford. *A Guide to Clinical Practice, Abdomen and Superficial Structure: Workbook*. 4th ed. Philadelphia, PA: Wolters Kluwer, MD, 2018.

Types and/or Examples of Required Reading, Writing, and Outside of Class Assignments

- Weekly readings from the text.
- Canvas research.

Discipline(s)

Diagnostic Medical Technology