COURSE DESCRIPTION

This course provides the TCM student with a basic understanding of clinical laboratory and diagnostic tests, including blood, urine and stool tests; chemistry and microbiological studies; and an overview of specialized tests. Interpretation of test results and their clinical significance will be discussed, as well as indications for ordering tests and working with a lab to place orders.

Suggested referrals for lab data and test results include review of the fields of internal medicine, pharmacology, neurology, surgery, obstetrics/gynecology, urology, radiology, nutrition and public health.

LEARNING OBJECTIVES

This course will present the different lab tests being used for diagnostic purposes. They include blood, urine, stool tests. The ways these tests are done will also be presented in class. Normal and abnormal test results will be discussed as well as their significance.

Upon completion of this course, a successful student will have the knowledge in and able to interpret the laboratory clinical data and to correlate them with the diagnosis of the patient's condition. The student will understand the rationale behind these clinical laboratory approaches associated with these conditions.

COURSE PREREQUISITIES

Pathophysiology I-IV, Physics for Acupuncturists, Chemistry

REQUIRED TEXTS

Understanding Lab and Diagnostic Tests Moisio & Moisio, 2000

RECOMMENDED TEXTS


COURSE REQUIREMENTS

Out-of-Class Work
To successfully complete the program, students need to plan studying a minimum of 2 hours out-of-class for each academic in-class hour; and half an hour out-of-class for each hour of clinical training.

a. Attendance 10%
b. Midterm Exam 40%
c. Final Examination 40%
d. Quizzes 10%

GRADING SCALE: 100-90% A, 89-80% B, 79-70% C, 69% and below F

SPECIAL NOTES

Professionalism and Full and Prompt Attendance: To pass any course (separate from academic performance) all
students must meet requirements for professionalism in coursework. Professionalism includes full and prompt attendance: Students who miss more than 2 class meetings in a 10-week course will earn an F in that course. Additionally, students who arrive more than 15 minutes to class or leave class before it ends will be marked tardy. Two tardies equal one absence. NOTE: Students who leave and return to class late from a break or leave during the class (especially if this is repeated) or who disrupt the class in other ways may be referred to the Academic Dean for professionalism.

CLASS ONE (The syllabus is subject to change at the discretion of the instructor.)
CBC
Anemia panel

CLASS TWO
Coagulation panel; Assessment of a patient on anticoagulants

CLASS THREE
Metabolic panel/ Chem panel

CLASS FOUR
Lipid panel, comprehensive cardiovascular profile

CLASS FIVE
Liver function tests
Hepatitis panel
Thyroid profile, thyroid antibodies

CLASS SIX
Midterm

CLASS SEVEN
Glycohemoglobin, glucose & insulin levels in evaluation of DM, Insulin resistance, syndrome X
Rheumatological work up: RF, ANA, antiocardioliipin antibodies, etc.
Cancer antigens

CLASS EIGHT
Hormonal assessment: estrogen, progesterone, testosterone, DHEA, FSH, LH (blood, urine, saliva testing)

CLASS NINE
Urinalysis and related tests

CLASS TEN
Fecal tests

CLASS ELEVEN
Final Examination
REFERENCE MATERIAL

FACULTY INFO

Redmond, Michael
Please check with instructor during class to get updated contact info.
310.676.2209
Kampfwagen@sbcglobal.net

Michael Redmond has taught Western medicine courses to TCM students for many years. His previous clinical experiences include trauma, intensive care, anesthesia, and home health. Currently Redmond teaches several courses in the MTOM Program including Biology, Chemistry, Biochemistry, Western Physical Assessment, Anatomy and Physiology and Western Medical Terminology among others.