

EMPEROR'S COLLEGE
MTOM COURSE SYLLABUS
CLINICAL DIAGNOSIS BY LAB DATA

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 Moasio & Moasio, 2000

RECOMMENDED TEXTS

A Manual of Laboratory & Diagnostic Tests delmer, Fischbach, 6th Ed. Lippencotti 2000

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

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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, anticardiolipin 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

Course
Code **WS499**
2 Units
20 Hours

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Redmond, Michael
Winter 2019

REFERENCE MATERIAL

FACULTY INFO

Redmond, Michael

Please check with instructor during class to get updated contact info.

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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.