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

ABC’s of Interpretive Laboratory Data, Bakeman, 5th Ed.
Understanding Lab and Diagnostic Tests Moisio & Moisio, 2000

RECOMMENDED TEXTS

Additional reference material to be provided in class.

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.

Midterm Exam 50%
Final Examination 50%

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.)
INTRODUCTION
CBC
Anemia panel

CLASS TWO
CBC, Anemia, continued
Comprehensive Chemistry Panel
Coagulation panel; Assessment of a patient on anticoagulants

CLASS THREE
Metabolic panel
Thyroid profile
Liver, Hepatitis and Viral testing

CLASS FOUR
Liver review; Hepatitis and Viral testing review
Introduction to Stool/Fecal testing
PT/INR anti-coagulation
Assessment of a patient on anticoagulants

CLASS FIVE
Mid-Term Exam

CLASS SIX
Lipid Panel
Cardiac Tests
Urine Testing

CLASS SEVEN
Endocrine Testing:
Glycohemoglobin, glucose & insulin levels in evaluation of DM, Insulin resistance, syndrome X
Rheumatological work up: RF, ANA, anti-cardiolipin antibodies, etc.
Basic Rheumatology

CLASS EIGHT
Body Fluids
Cerebrospinal Fluid Testing
Hormonal assessment: estrogen, progesterone, testosterone, DHEA, FSH, LH (blood, urine, saliva testing)

CLASS NINE
Cultures and misc tests
Review for final exam

CLASS TEN
FINAL EXAM

CLASS ELEVEN

REFERENCE MATERIAL

FACULTY INFO

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

jdadler@emperors.edu