Name of the module: Respirology 3rd year Medicine

Number of module 471-8-3022

BGU Credits: 4.5
ECTS credits: 4.5
Academic year: 3rd year medicine
Semester: first semester, 20/1/2013-15/02/2013
Hours of instruction: 8:15am – 4:00pm
Lectures 115 hours
Laboratory 6 hours
Clinical discussions 13 hours

Location of instruction: Daily lectures will take place in the Deichmann Building for Health Professions. Specific classroom numbers are indicated in the schedule.

Language of instruction: Lectures will be given in Hebrew.
Cycle: B.Med.Sc
Position: Obligatory module intended for 3rd year medical students, as part of their preclinical teaching.
Field of Education: Respirology.
Responsible department: Institution of Pulmonology, Soroka University Medical Center.
General prerequisites: Students should complete successfully the following modules (given in prior 2 years medicine): Basic pathology, Molecular Biology, Medical Biochemistry, Medical Physiology.
Grading scale: Successful passing of multiple-choice questions examination with a score of 65 or higher.

Course Description:

Aims of the module: The goal of the Respirology module is to introduce and teach basic principles and practice in respirology.

Objectives of the module: Objectives are to enable students to classify and to have basic understanding of the process of breathing – oxygenation and ventilation, pulmonary clinical and pathological disorders, and to incorporate laboratory findings into clinical problem solving.

Learning outcomes of the module: On successful completion of the course, the student should be able to:

1. Describe normal physiology of the respiratory system – breathing, ventilation, diffusion and blood flow and correlate these to relevant laboratory tests used to evaluate respiratory disorders.
2. Classify lung disorders (infectious, oncologic and inflammatory) and compare clinical presentation features of each category.
3. Use clinical laboratory and radiological diagnostic testing to develop a differential diagnosis of pulmonary disorders.
4. Classify types of respiratory failure and be able to interpret blood gases values in the clinical decision making of mechanical ventilation.
5. Interpret pulmonary function tests.
6. Apply knowledge in pulmonary physiology in the interpretation of combined cardiac and respiratory exercise tests.
7. Distinguish between restrictive and obstructive pulmonary diseases and apply appropriate therapy to each.

Attendance regulation: Attendance to the oral lectures is not obligatory. Participation in the PBLs, Clinical discussions and Labs is obligatory.

Teaching arrangement and method of instruction: Instruction in the module is based on frontal oral lectures, clinical discussions and histo-pathological labs. Computer based lab will also be used.
Assessment:  
Students will be assessed in the module only by passing MCQ exam with a score of 65 or higher.

Work and assignments: Students are required to take active part in the meetings, clinical discussions computer and histo-pathological labs.

Time required for individual work:  
Due to the method of modules in 3rd year – students are required to study and review the lectures at home.  
Roughly 30 minutes per an hour lecture.

Module Content/schedule and outlines: The content and structure of the module, including detailed subjects, and their order.

Required reading: Students are expected to read the lectures as presented as ppt presentations.

Additional literature: Bibliography of the module is based on Essential of Pulmonary Physiology, 8th Edition, and Harrison's Principles of Internal Medicine 18th Edition (p 448-482, 844-988)

*All learning material will be available to the students on the module's website (high-learn)/ library/ electronic documents available to BGU students