**Name of the module: Endocrinology 3rd year Medicine**

**Number of module 471-8-3024**

BGU Credits: 6.5

ECTS credits

Academic year: 3rd year medicine

Semester: First semester

Hours of instruction: 8:15am – 4:00pm

Lectures: 72 hours

Laboratory: 4 hours

Clinical discussions: 5 hours

Location of instruction: Daily lectures take place in the Deichmann Building for Health Professions.

Specific classroom numbers are indicated in the schedule.

Language of instruction: Hebrew.

Cycle: B.Med.Sc

Position: Obligatory module intended for 3rd year medical students, as part of their preclinical teaching.

Field of Education: Endocrinology.

Responsible department: Goldman School of Medicine, Faculty of Health Sciences, Ben Gurion University of the Negev.

General prerequisites: Students should complete successfully all preceding modules.

Grading scale: The successful completion of a multiple-choice question examination, with a score equal or above 65%.

Course Description:

Aims of the module: The endocrinology module will cover all relevant areas of clinical endocrinology and metabolism including anatomy, physiology, pathophysiology, clinical syndromes and treatment of endocrine disorders in humans. The course will not cover reproductive endocrinology.

Objectives of the module: The intention of the module is to prepare the medical student to identify and treat endocrine disorders through an integrative approach.

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

1) Describe the normal anatomy, histology and physiology of the major endocrine organs and systems including the pituitary, adrenal, thyroid glands, calcium and energy metabolism and normal growth process.
2) Identify abnormal physical symptoms and signs and laboratory findings and relate them to their respective pathologic syndromes and diseases.
3) Discuss the differential diagnosis of common endocrine disorders, specifically in the fields of pituitary, adrenal, thyroid, parathyroid, bone, growth, energy metabolism including diabetes mellitus and obesity.
4) Discern between primary, secondary and tertiary endocrine disorders based on the clinical symptoms and signs and laboratory findings.
5) Recognize and diagnose multiple endocrine neoplasia and autoimmune syndromes, discuss their components and relationships.
6) Offer treatment plans for major endocrine disorders and diseases.
7) Reproductive endocrinology *will not* be discussed in this module.

Attendance regulation: Laboratory attendance is mandatory. Active participation in all lectures is highly recommended.

Teaching arrangement and method of instruction: Basic information is available in common textbooks. The major method of instruction in this module is by frontal lectures by specialists in the field who will review major points of interest. Lectures will be supported by PowerPoint® presentations, most of which will be available to the students through the "moodle" program.
A Teaching unit with relevant reading material, keywords and key questions is provided for all lectures. After completing basic lectures in the various fields, patients with endocrine disorders will be presented and discussed in class. Labratory session will use computers for visualizing macro and micro specimens.

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Module evaluation: Upon completion of the module the students will evaluate the module, in order to draw conclusions, and for the university's internal needs

Confirmation: 2013 (academic year)
Last update: 11/2012

Assessment:
Students will be assessed in the module only by passing multiple-choice question exam with a score of 65 or higher.

Work and assignments: Students are expected to review material guided by each lecture module.

Time required for individual work: in addition to attendance in class, the students are expected to review relevant reading material:
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 module begins with classes discussing relevant basic sciences, including signal transduction and principles of radioimmunology and laboratory diagnosis. Normal anatomy, histology, physiology, pathophysiology of Pituitary, thyroid, adrenal gland and growth are then presented. The module ends with lectures on Calcium and Energy metabolism.

Required reading: Relevant reading is presented in each module. Harrison's Principles of Internal Medicine 18th Edition is the basic text.

Additional literature: Provided in each teaching unit. In addition valuable information can be obtained on the Endotext website (a free, continuously updated and comprehensive endocrine textbook): www. Endotext.org

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