האוניברסיטה העברית בירושלים THE HEBREW UNIVERSITY OF JERUSALEM



The Hebrew University of Jerusalem

Syllabus

CARDIO-THORATIC SURGERY- Elective - 96856

Last update 01-10-2020

HU Credits: 2

Degree/Cycle: 1st degree (Bachelor)

Responsible Department: Medicine

Academic year: 0

Semester: Yearly

<u>Teaching Languages:</u> Hebrew

Campus: Ein Karem

Course/Module Coordinator: Uzi Izhar

Coordinator Email: izharu@hadassah.org.il

Coordinator Office Hours: Wednesday 1000-1200

Teaching Staff:

Prof Uzi Izhar, Dr. Guy Pines

Course/Module description:

Two weeks clinical rotation in cardiothoracic surgery, including guided rounds, seminars, OR and outpatients clinic.

Course/Module aims:

To upgrade clinical skills in diagnosis and treatment of common medical problems un cardiothoracic surgery

Learning outcomes - On successful completion of this module, students should be able to:

The student should: describe: anatomy, physiology of the chest take medical history and physical examination correctly organize preoperative and post-operative assessment

<u>Attendance requirements(%):</u> 100%

Teaching arrangement and method of instruction: Clinical rounds and bed side teaching Seminars OR teaching Outpatients and ER teaching

Course/Module Content:

1. Surgery of the heart and major blood vessels.

- 2. Pathophysiology of ischemic coronary artery disease, valvular heart disease.
- 3. History and physical examination
- 4. Preoperative evaluation
- 5. Indications for CABG, AVR, MVR
- 6. Principles of cardio-pulmonary bypass machine
- 7. Principles of postoperative care
- 8. Aortic dissection / aneurysm

General surgery of the chest:

1. Anatomy of lungs, mediastinum and chest wall

- 2. Imaging of the chest
- 3. Physiologic evaluation of the patient before lung resection
- 4. Diagnostic approach to pulmonary nodule
- 5. Diagnostic and surgical approach to early stage lung cancer
- 6. Differential diagnosis of mediastinal tumors

7. Diagnostic and therapeutic approach to pleural effusion, pneumothorax, empyema.

Congenital heart defects.

 Anatomy and pathophysiology of major congenital defect with increase pulmonary blood flow – ASD, VSD, PDA, A-V canal, Truncus
Anatomy and pathophysiology of cyanotic congenital heart defect – TOF, PA
Single ventricle physiology

Course/Module Content

<u>Required Reading:</u> Sabiston DC. Textbook of Surgery

<u>Additional Reading Material:</u> Journals: Annals of Thoracic Surgery Journal of Thoracic and Cardiovascular Surgery

Internet: www.ctsnet.org www.ahajournals.org : Circulation, scientific reviews: ACC/AHA guidelines for coronary artery bypass graft surgery. ACC/AHA guidelines for the management of patients with valvular heart disease.

<u>Course/Module evaluation:</u> End of year written/oral examination 0 % Presentation 0 % Participation in Tutorials 80 % Project work 10 % Assignments 0 % Reports 10 % Research project 0 % Quizzes 0 % Other 0 %

<u>Additional information:</u> All students will be evaluated at the end of the rotaion.