



# *The Hebrew University of Jerusalem*

## *Syllabus*

### ***SURGERY - FOURTH YEAR - 96430***

*Last update 15-10-2023*

*HU Credits:* 6

*Degree/Cycle:* 2nd degree (Master)

*Responsible Department:* Medicine

*Academic year:* 0

*Semester:* Yearly

*Teaching Languages:* Hebrew

*Campus:* Ein Karem

*Course/Module Coordinator:* Prof SAFRAN ORI

*Coordinator Email:* [Oris@hadassah.org.il](mailto:Oris@hadassah.org.il)

*Coordinator Office Hours:* By appointment

*Teaching Staff:*

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Mr. Alon Kass,  
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Orli Eldar,  
Barak Bar Zakai,  
Dr. Maya natanson,  
Dr. alon Wachtel

Course/Module description:

*The 4th year clinical rotation is a clinical course, which combines teaching (frontal and bedside), self-learning and clinical exposure. During the rotation students accompany the staff on rounds, in the operating room, in the clinics and in the emergency dept. Throughout the clerkship there will be an emphasis on clinical work: admissions and presentation of cases, discussing patients, evaluation of lab results and imaging studies, differential diagnosis and treatment plan.*

Course/Module aims:

*The aim of the general surgery 4th year rotation is to prepare students to identify clinical situations requiring surgical interventions, to be proficient in the steps required to prepare the patient for intervention, and be aware of dangers, potential complications and benefits of surgical treatments.*

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

- 1. Describe in professional terms anatomy and pathophysiology of common surgical conditions*
- 2. Manage common cases requiring surgical intervention, detail indications for surgical treatment and compare advantages and disadvantages to no surgical treatment (including risks and potential benefits)*
- 3. Collect information (medical interview) which will facilitate decision making regarding the diagnosis.*
- 4. Perform a focused physical exam to arrive at the diagnosis*

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5. Choose auxiliary tests which will help reach diagnosis and interpret common and pathological findings of the tests
  6. Explain the clinical thought process including differential diagnosis according to reasonable probability of common surgical problems
  7. Detect acute surgical conditions and describe the thought process leading to the decision regarding the best initial treatment (detail the most likely etiology of the problem)
  8. Detail the steps to be taken at the time of admission of a patient for elective surgery, from the time of admission, through the operating room and up to discharge
  9. Present a patient orally in a professional, acceptable and correct language, giving a concise, coherent clinical description of the history, findings on clinical exam and auxiliary tests, while discussing the most relevant differential diagnosis at each step.
  10. Demonstrate the required professionalism and skills required in the operating room including sterile technique, assistance in various operations and basic suturing skills
  11. Identify and discuss ethical and cultural dilemmas in surgical public health including: elements of informed consent for surgical intervention, equality in treatment, accessibility, informed consent, ethics and law in surgery
  12. Correctly and critically utilize sources of information, including electronic, and apply the information available in the surgical literature to decision making
  13. Communicate respectfully with colleagues, staff, patients and their families, while demonstrating a patient oriented approach

Attendance requirements(%):

100

Teaching arrangement and method of instruction: Teaching will be in the form of lectures, seminars, teaching rounds, bedside teaching, operating room, clinics and emergency dept.

Course/Module Content:

- Shock
- Intensive care and respiratory support of the surgical patient
- Fluids, electrolytes and blood products
- The catabolic patient
- Wound healing
- Safety in the operating room and quality control
- evaluation, preparation and post-operative care of the surgical patient
- Post-operative complications
- Surgical infections and antibiotics

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- Principles of anesthesia, sedation and pain management
  - Laparoscopy and robotics
  - Trauma
  - Transplant
  - Surgical oncology
  - Neck mass
  - Swallowing disorders
  - Heartburn
  - Breast pain / lump
  - Abdominal pain
  - Acute abdomen
  - Abdominal mass
  - Groin / scrotal/ abdominal wall mass
  - Obstructive jaundice
  - Gastrointestinal bleeding
  - Anal pain/ discomfort
  - Changes in bowel movements
  - Gastrointestinal obstruction
  - Endocrine and metabolic surgical conditions
  - Ascites
  - gallstones
  - Obesity
  - Surgery during pregnancy
  - Surgery in children, elderly and immune compromised patients

Required Reading:

*Sabiston Textbook of Surgery, 20th Ed.*

Additional Reading Material:

Grading Scheme:

*Written / Oral / Practical Exam 100 %*

Additional information: