

ADVANCED SURGICAL SKILLS

Compulsory elective subject for third to fifth year students of Albert Szent-Györgyi Medical School.

Teacher in charge of the course: Prof. Mihály Boros, M.D., Ph.D., D.Sc., Head of Department

Course advisor: Dániel Érces, M.D., Ph.D., (erces.daniel(at)med.u-szeged.hu)

Course code: AOK-OAKV351 (lecture), AOK- OAKV352 (practice)

Course credit: 2

Course hours per semester: 2 hour lectures (6 x 2 hours) + 2 hour practices (6 x 2 hours)

Prerequisite of registration: Completion of the of Basic Surgical Skills (or Surgical Techniques).

The aim of the subject: teaching basic surgical techniques, invasive interventions and advanced surgical knowledge to medical students interested in different surgical specialties.

Acquired competence: By applying principles of asepsis, the student is autonomously able to perform minor surgical interventions, bowel and vessel anastomoses, tracheostomy and laparotomy, and routinely uses traditional and minimal invasive surgical instruments under simulated sterile operating conditions.

Method: lecture (6 x 2 hours) + practice (6 x 2 hours)

Topics of lectures:

1. Surgical asepsis and basic surgical techniques
2. Minor surgical procedures
3. Basics of abdominal surgery, incisions, laparotomy.
4. Advanced surgical techniques: enterotomy, bowel- and vessel anastomoses
5. Advanced laparoscopic procedures. Conicotomy, tracheostomy.
6. Basics of thoracic and cardiac surgery. Basics of microsurgery.

Topics of practices:

1. Scrubbing, basic knotting and suturing techniques
2. Minor skin procedures
3. Advanced suturing techniques
4. Minimally invasive surgery
5. Laparoscopy, basics of microsurgery
6. Advanced forms of surgical hemostasis

Criteria for completing the course:

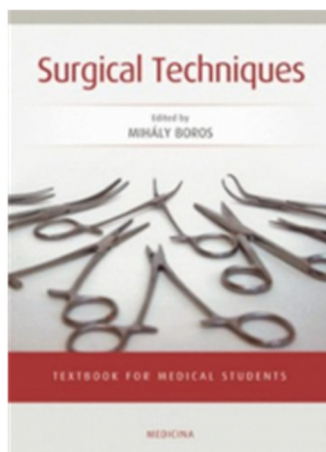
- Attendance requirements and making-up possibility of absences from practices: attendance at the lectures is recommended, attendance of practices: a minimum of 75% is compulsory. Making-up of missed practices is possible only if schedule makes it possible and only after obtaining written permission from the course organizers.
- Acknowledgement of absences from practices and exams: based on medical certificate
- Requirements for acknowledgement of practices: visiting minimum of 75% of practices
- Written Exam Requirements: The prerequisite for the theoretical examination is the required attendance of practices.

Evaluation:

- Interim evaluation: We evaluate the performance of the students on all practices and give a continuous feedback of their progress.
- End semester grading: written theoretical test (term mark, 5-grade).

Compulsory literature:

handouts of online lectures.



Surgical Techniques

Textbook for medical students

Mihály Boros (ed.)

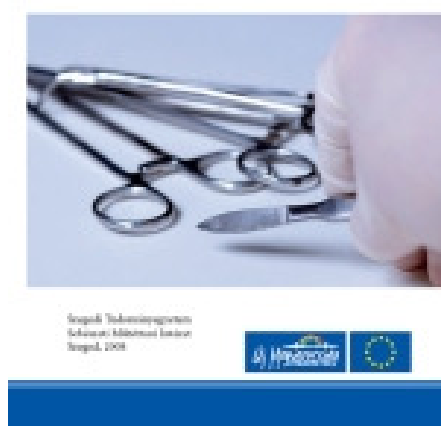
Medicina, Budapest, 2009.



Practical Skills Syllabus

Mihály Boros (ed.)

Innovariant Kft., Szeged, 2008.



Recommended literature:

Tutorial videos uploaded to Coospace.