

## MICROSURGERY (Faculty of Medicine)

**Compulsory elective subject** for third year students of the Faculty of Medicine.

**Teacher in charge of the course:** Dr. Andrea Szabó, M.D., Ph.D.

**Course advisor:** Dr. Andrea Szabó, M.D., Ph.D. (szabo.andrea.exp(at)med.u-szeged.hu) and Dr. Marietta Zita Poles (poles.marietta.zita(at)med.u-szeged.hu)

**Course code:** AOK-KA1451 (lecture), AOK-KA1452 (practice)

**Course credit:** 2

**Course hours per semester:** lectures (4 sessions) + online and contact practices

**Prerequisite of registration:** Previous fulfillment of Basic Surgical Skills.

**The aim of the subject:** Teaching basic microsurgical knowledge, instruments and techniques to medical students who are interested in different operative specialties.

**Acquired competence:** By applying microsurgical methods, the student is autonomously able to perform stitching and suturing and microsurgical knotting under an operating microscope and to perform end-to-end and end-to-side vessel anastomosis under simulated conditions.

**Method:** Online lectures (4 occasions) + online and contact practices

### Topics of lectures:

1. Discussion of the schedule
2. Maxillofacial applications of microsurgery
3. Traumatological applications of microsurgery
4. Methodological basics of microsurgery

### Topics of practices:

Online practices:

1. Microscopic eye-hand coordination exercise
2. Microvascular anastomosis on a silicone model of vessels
3. Microvascular anastomosis on a biological model
4. Microvascular anastomosis in vivo

Contact practices:

1. Adjustment of the OP microscope, Preliminary exercises, macroscopic knotting
2. Sutures on a rubber pad I.
3. Sutures on a rubber pad II.
4. Sutures of tubing (end-to-end)
5. End-to-end anastomosis of vessels (*ex vivo*)

### Criteria for completing the course:

#### Requested attendance:

**Online practices:** attendance can be verified by fulfilling tasks uploaded to Coospace (answering at least 75% of the tasks) in time.

**Practices with personal attendance:** a minimum of 75% of the practices should be attended

#### Evaluation:

Lecture: online Coospace test (5-grade), practice: signature (prerequisite of signature: fulfilling the tasks uploaded to Coospace in time (answering at least 75% of self-evaluating questions)).

#### Compulsory literature:

Lectures: Lecture ppt files uploaded to Coospace

Practices: Tutorial videos uploaded to Coospace