

## MICROSURGERY (Faculty of Dentistry)

**Compulsory elective subject** for fourth year students of the Faculty of Dentistry.

**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@med.u-szeged.hu](mailto:szabo.andrea.exp@med.u-szeged.hu)) and Dr. Marietta Zita Poles ([poles.marietta.zita@med.u-szeged.hu](mailto:poles.marietta.zita@med.u-szeged.hu))

**Course code:** FOG-MA531 (lecture), FOG-MA532 (practice)

**Course credit:** 2

**Course hours per semester:** lectures (5 sessions, 8 hours in total) + practices (20 hours in total)

**Prerequisite of registration:** Completion of Introduction of Surgical Techniques.

**The aim of the subject:** Teaching basic microsurgical knowledge, instruments and techniques to dentistry 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:** Lectures (5 occasions, 8 hours in total) + practices (20 hours)

### Topics of lectures:

1. General information, introduction to microsurgery (1 hour)
2. Indications of microsurgery I. Methods of reconstructive microsurgery in oral and maxillofacial surgery (Prof. Dr. József Piffkó) (2 hours)
3. Indications of microsurgery II. Parodontological applications of microsurgery (Dr. Péter Vályi) (2 hours)
4. Indications of microsurgery III. Basics of endomicrosurgery (Dr. Márk Antal) (2 hours)
5. The operating microscope. The lupe. Basic methods of mucosal suturing (1 hours)
6. Basic suturing techniques in classical microsurgery, sutures of vessels and nerves (2 hours)

### Topics of practices:

1. Macroscopic knotting techniques (2 hours)
2. Adjustment of the operating microscope. Basic coordination exercises under the operating microscope (1 hour)
- 3-4. Stitching and knotting with microsurgical instruments on a rubber pad. Simple interrupted stitches (2 x 2 hours)
- 5-6. Suturing of the oral mucosa (in macroscopic and microscopic models) (2 x 2 hours)
- 7-8. Suturing of anastomosis models (2 x 2 hours)
9. Demonstration of root canal treatment and clinical endomicrosurgery in dentistry (Dr. Márk Antal) (2 hours)
10. Practical exam (1 hours)

### Criteria for completing the course:

- Attendance of 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 are based on medical certificate.
- Requirements for acknowledgement of practices is visiting minimum of 75% of practices.

- Practical exam is on week 14, improvement possibility of practical exam marks is on week 15.
- The prerequisite for the theoretical examination is the completion of a successful practical exam by the end of the semester.

**Evaluation:**

- We evaluate the performance of the students on all practices and give a continuous feedback of their progress.
- The final grade is given by the average of the theoretical test exam + practical exam (5-grade).

**Compulsory textbooks:**

Andrea Szabó, Gábor Vass, Zsolt Zádor, Mihály Boros: Basics of microsurgery. Szeged, 2004.

**Recommended literature:** Tutorial video