### "D" module: Microsurgery Aims

- To teach basic microsurgical techniques, instruments and materials.
- · To improve dexterity and eye-hand coordination
- Final aim: the students are going to be able to prepare a vessel or nerve with an external diameter of 0.7-1.2 mm and perform and anastomosis on them.

#### Microsurgery – schedule (postgradual)

Day 1.	L1 (60 min)	Introduction (theoretical, technical and clinical background)		
Day 1.	P1 (60 min)	<ol> <li>Adjustment of the operation microscope</li> <li>Handling of instruments</li> <li>lacing of a thread of a gauze pad)</li> </ol>		
Day 1.	P2 (60 min)	<ul><li>4. Suturing of a rubber pad</li><li>5. Microsurgical knotting (two-handed knotting technique)</li></ul>		
Day 1.	L3 (60 min)	Anastomosis techniques - lecture		
Day 1.	P3. (60 min)	6. Suturing of silicone tubes (2 mm), end-to-end and end to side anastomoses, microsurgical knotting		
Day 1.	P4. (60 min)	7. Suturing of silicone tubes (1 mm), end-to-end and end to side anastomoses, microsurgical knotting		
Day 2.	P5. (360 min)	8. (Vessel anastomosis <i>ex vivo</i> ) 9. End-to-end vessel anastomosis <i>in vivo</i> (a. carotis)		
Day 3-5.	P6 (300 min)	10. End-to-end vessel anastomosis <i>in vivo</i> (a. femoral) 11. Nerve anastomosis <i>in vivo</i>		
Day 5.	T (60 min)	Evaluation, test		

## Microsurgery – schedule (gradual)

Day 1-3.	L1 (3x120 min)	Introduction (theoretical, technical and clinical background)				
Day 4.	P1 (120 min)	<ol> <li>Adjustment of the operation microscope</li> <li>Handling of instruments</li> <li>lacing of a thread of a gauze pad)</li> </ol>				
Day 5.	P1 (120 min)	Macroscopic knotting				
Day 6-7.	P2-3 (2x120 min)	<ul> <li>4. Suturing of a rubber pad</li> <li>5. Microsurgical knotting (two-handed knotting technique)</li> </ul>				
Day 8.	L3 (120 min)	Anastomosis techniques - lecture				
Day 8-10.	P4-5. (2x120 min)	6. Suturing of silicone tubes (2 mm), end-to-end and end to side anastomoses, microsurgical knotting				
Day 11-12.	P6-7. (2x120 min)	8. Vessel anastomosis <i>ex vivo</i>				
Day 13.	T (60 min)	Evaluation, test				

# Microsurgery –(gradual)

2010/2011							
	I. semester		II. semester		Total		
	Hungarian	English	Hungarian	English			
Enter for the course	40	30	24	16	110		
Fulfill the course	40	30	23	15	108		
In percentage	100	100	96	94	98		
Mean of the marks	5	4,9	4,9	4,7			





### Introduction-III. (clinical applications)

Free pedicled flaps (e.g. latissimus dorsi flap)





#### Introduction-V. (clinical applications)

Free pedicled flaps (e.g. fibular flap – OMC)







![](_page_5_Figure_1.jpeg)

![](_page_6_Figure_0.jpeg)

![](_page_6_Picture_1.jpeg)

![](_page_7_Picture_0.jpeg)

![](_page_7_Figure_1.jpeg)

![](_page_8_Picture_0.jpeg)

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![](_page_9_Figure_0.jpeg)

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