

MICROSURGERY TRAINING LABORATORY

Certificate Course in Microsurgery (5 days)

This course is the core course of our laboratory and caters to surgical trainees that have minimal prior exposure to microsurgery. The course is conducted from Monday to Friday and includes theoretical (4 hours) and practical components (30 hours). Participants can do up-to 30 end-to-end anastomosis that includes 12 anastomoses in a live rat model.

Day 1 (Monday)

0830 - 1000hrs:	Introduction to the microscope, micro-instruments, and microsurgical technique (video)
1000 – 1100hrs:	Latex strip model (Beginner) - 3orientations
1100 - 1115hrs:	Coffee Break
1115 - 1245hrs:	Latex Strip model (Advanced) - 3 orientations with software evaluation
1245 - 1345hrs:	Lunch Break
1345 - 1400hrs:	Vessel repair video
1400 – 1700hrs	End to end repair of lifelike bio-tissue artery (2mm dia.) (Up to 3 repairs in a 6 cm segment)

Day 2 (Tuesday)

0830 - 1000hrs:	End to end repair of lifelike bio-tissue artery (1mm dia.) (Up to 3 repairs in a 6 cm segment)
1000 – 1015hrs:	Coffee Break
1015 – 1030hrs:	Chicken thigh video
1030 – 1230hrs:	Dissect and repair chicken thigh artery, vein, and nerve
1230 – 1315hrs:	Lunch
1315 – 1445hrs:	Chicken vessel anastomosis (Up to 3 repairs)

- 1445 – 1500hrs: Coffee Break
- 1500 – 1700hrs: Chicken vessel anastomosis (Up to 3 repairs)

Day 3 (Wednesday)

- 0830 - 1000hrs: Latex Strip model (Advanced) - 3 orientations with software evaluation
- 1000-1015hrs: Coffee Break
- 1015 – 1115hrs: Video (Rat femoral artery)
- 1115 – 1215hrs: Rat dissection and repair (Right femoral artery)
- 1215 – 1230hrs: Video (Rat femoral vein)
- 1230 - 1330hrs: Lunch
- 1330 – 1430hrs: Rat dissection and repair (Right femoral vein)
- 1430 – 1445hrs: Coffee Break
- 1445 – 1700hrs: Rat dissection and repair (Continuation of left artery and vein repair)

Day 4 (Thursday)

- 0830 - 1000hrs: Latex Strip model (Advanced) - 3 orientations with software evaluation
- 1000-1015hrs: Coffee Break
- 1015 – 1230hrs: Rat dissection and repair (Right femoral artery and vein)
- 1230 - 1330hrs: Lunch
- 1445 – 1700hrs: Rat dissection and repair (Continuation of left artery and vein repair)

Day 5 (Friday) – Assessment day

- 0830 - 1000hrs: Latex Strip model (Advanced) - 3 orientations with software evaluation
- 1000-1015hrs: Coffee Break
- 1015 – 1230hrs: Rat dissection and repair (Right femoral artery and vein)

1230 - 1330hrs: Lunch

1445 – 1700hrs: Rat dissection and repair (Continuation of left artery and vein repair)



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