

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)