RAMSES
MULTISPECIALTY ROBOTIC MICROSURGERY

Robotic Microsurgery MasterClass

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STAN Institute
surgical telemanipulation advanced notechs

Overview

Educational objectives

Development of knowledge and skills that are necessary to practice microsurgical robotic-assisted techniques

Peripheral nerve surgery:

- Robot-assisted thoracoscopic harvesting of intercostal nerves for neurotization in brachial plexus injuries
- Neurolysis of the outlet syndrome, long thoracic nerve and of the lateral thigh cutaneous nerve (meralgia paraesthetica).

Flap harvesting:

- Robotic assisted laparoscopic harvesting of the rectus abdomini muscle flap and of the latissimus dorsi muscle flap via subcutaneous endoscopy

Gradual training process

1. Conferences

You interact with experts to discover the range of applications in robotic microsurgery

2. Simulation

You perform specific exercises on Mimic simulators, in order to develop dedicated skills used in robotic microsurgery.

3. Dry lab

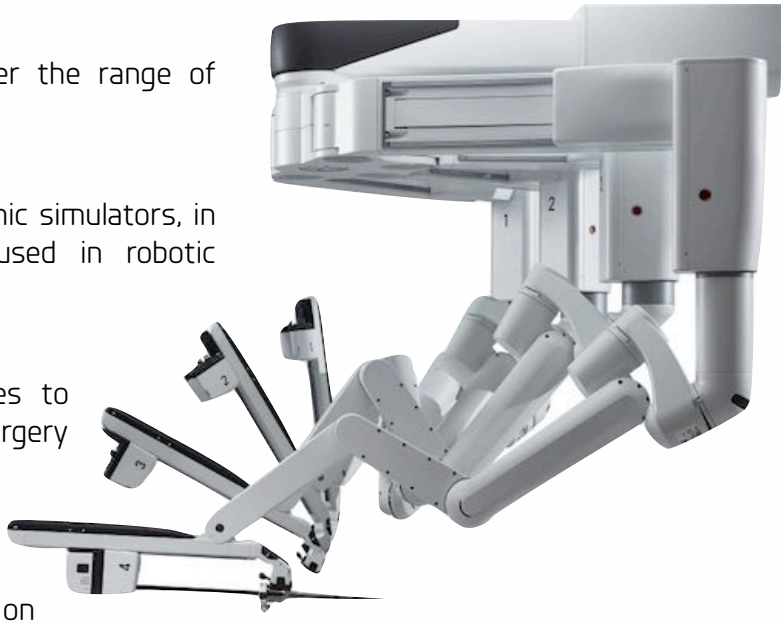
We have developed dry lab exercises to help you get used to practice microsurgery with a *da Vinci* robot

4. Wet lab

The last 2 steps before the patient:
one full day working with the robot on a living pig, one other day on a human cadaver.

5. Live case observation

A great opportunity to observe a live case with an expert on a patient



Publications, references

J Neurosurg. 2016 Jan;124(1):264-8. doi: 10.3171/2015.1.JNS14603. Epub 2015 Jul 24. Robotic intercostal nerve harvest: a feasibility study in a pig model. Miyamoto H1,2, Serradori T3, Mikami Y4, Selber J5, Santelmo N6, Facca S1, Liverneaux P1.

Use of the Konnyaku Shirataki noodle as a low fidelity simulation training model for microvascular surgery in the operating theatre. Prunières GJ1, Taleb C1, Hendriks S1, Miyamoto H2, Kuroshima N3, Liverneaux PA4, Facca S1.
Chir Main. 2014 Apr;33(2):106-11.

Robotic, intraperitoneal harvest of the rectus abdominis muscle. Pedersen J1, Song DH, Selber JC.
Plast Reconstr Surg. 2014 Nov;134(5):1057-63

Nerve transfer to the deltoid muscle using the nerve to the long head of the triceps with the da Vinci robot: six cases.
Miyamoto H, Leechavengvongs S, Atik T, Facca S, Liverneaux P.
J Reconstr Microsurg. 2014 Jul;30(6):375-80. doi: 10.1055/s-0033-1361927. Epub 2014 Jun 23.

Robotic phrenic nerve harvest: a feasibility study in a pig model.
Porto de Melo P, Miyamoto H, Serradori T, Ruggiero Mantovani G, Selber J, Facca S, Xu WD, Santelmo N, Liverneaux P.
Chir Main. 2014 Oct;33(5):356-60. doi: 10.1016/j.main.2014.07.006. Epub 2014 Sep 16.

Robot-assisted surgery of the shoulder girdle and brachial plexus.
Facca S, Hendriks S, Mantovani G, Selber JC, Liverneaux P.
Semin Plast Surg. 2014 Feb;28(1):39-44. doi: 10.1055/s-0034-1368167.

Robotic latissimus dorsi muscle harvest: a case series.
Selber JC, Baumann DP, Holsinger FC.
Plast Reconstr Surg. 2012 Jun;129(6):1305-12. doi: 10.1097/PRS.0b013e31824ecc0b.

Curriculum

Monday

Conferences.
Simulation. Specific training for microsurgery on dV-Trainer simulator
Drylab

- « konnyaku shirataki » anastomosis
- chicken thighs artery

Tuesday

Cadaver-lab

- neurolytic techniques
  - ✓ long thoracic nerve
  - ✓ outlet syndrome
  - ✓ lateral thigh cutaneous nerve
- latissimus dorsi free flap
- rectus abdomini harvesting

Wednesday

Pig-lab

- vascular micro-anastomosis
- intercostal nerve harvesting
- rectus abdomini harvesting

Thursday

Team training on various simulators (robotic surgery, flight simulator, HTC Vive)

Friday

Learning assessment
Live case observation
Delivery of certificates

This curriculum may be subject to light changes if necessary

Methods

Session in 2018

From Monday 3rd December to Friday 7th December 2018

Accreditation

This MasterClass is proposed to EACCME accreditation (pending validation)

Prerequisites

- The MasterClass is open to any surgeon with access to the robot for rapid application of the acquired skills
- A practice of robotics in another area or prior participation to the Inter-University Diploma in Robotic Surgery are mandatory; the level of the participants will be evaluated at the beginning of the course. Not fulfilling the prerequisite skills may limit the participants' access to the actual robot (drylab and wetlab)
- Skills in conventional microsurgery techniques are mandatory

Social events

Cheese & wine tastings
Diners at typical French brasseries & restaurants

Course fees

- 5900€

Training site

ÉCOLE DE CHIRURGIE Nancy - Lorraine
Bâtiment D - 2e étage
Faculté de Médecine
9, avenue de la forêt de Haye
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