VII DISSECTION TECHNIQUES IN LYMPHATIC MICROSURGERY- HANDS ON LIVE ANIMAL MODEL

Diagnostics, indications, treatment options, postoperative care and practical training

Cáceres- Spain, 27-29 January 2025

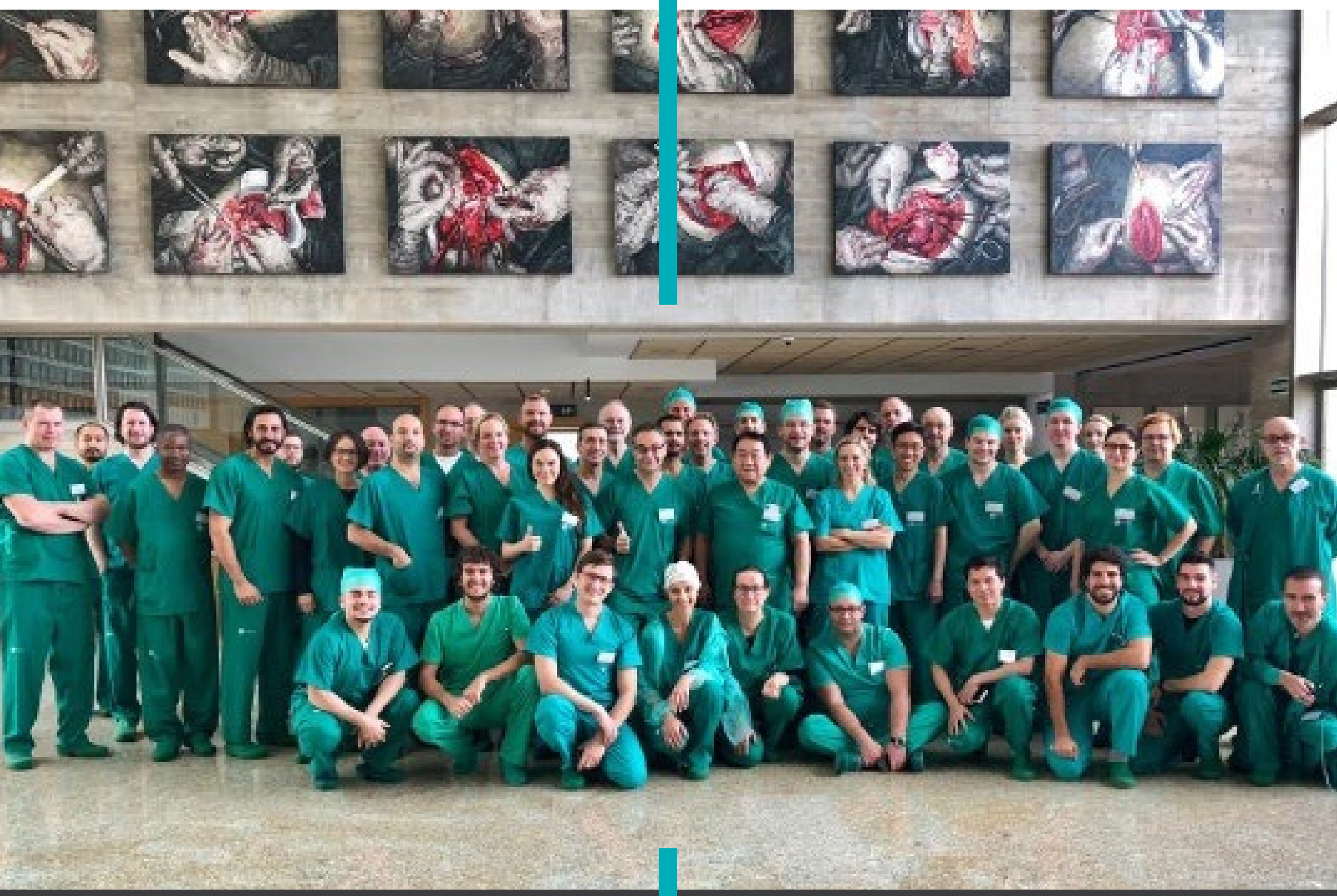
Centro de Cirugía de Mínima Invasión
Jesús Usón (CCMIJU) • Cáceres (Spain)

www.rmes.es
www.lymphaticmicrosurgerycourse.com

Reconstructive Microsurgery
European School

REGISTRATION FEE

2.480€



LIMITED CAPACITY TO

20 SURGEONS

VENUE

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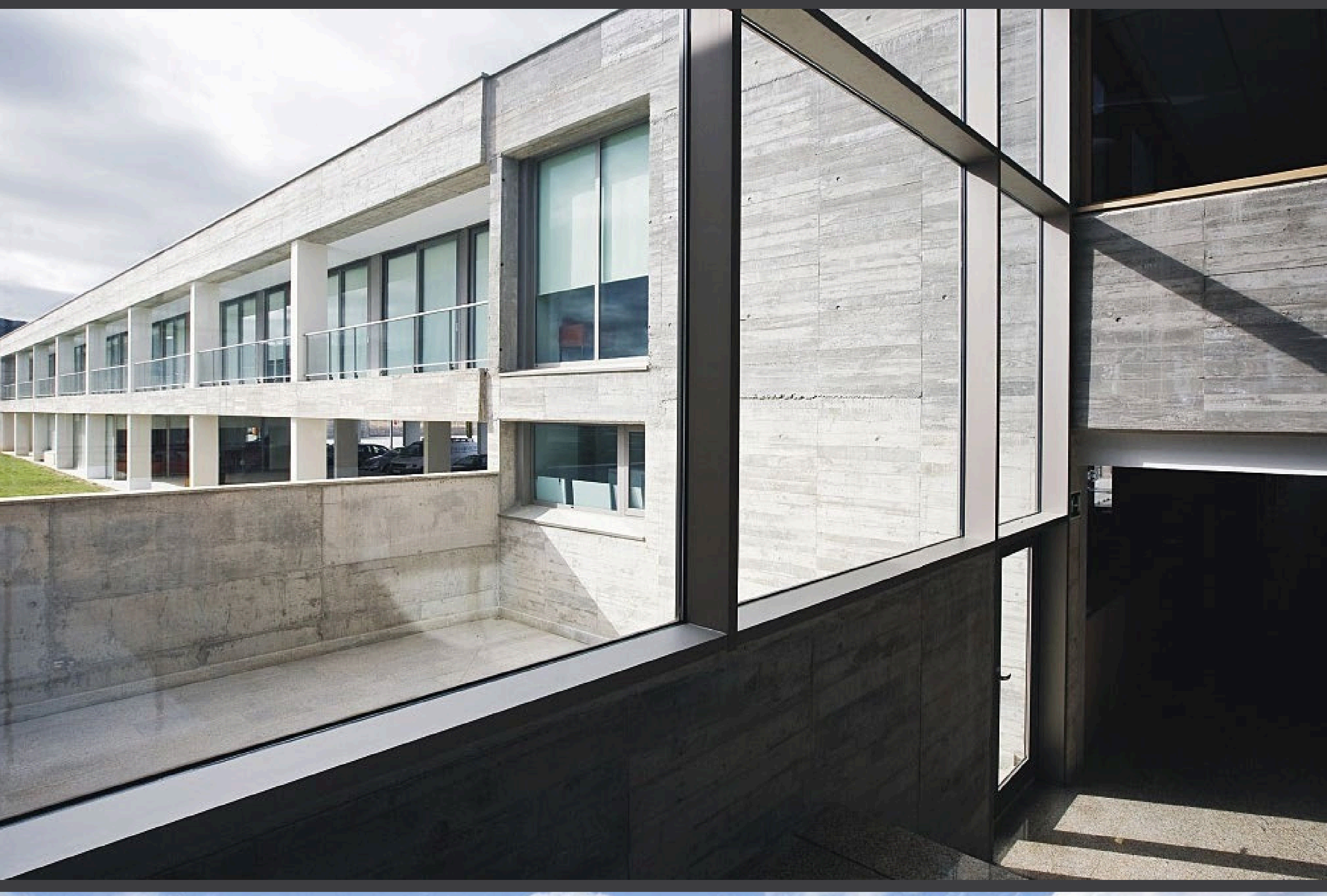

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Takumi Yamamoto

Gemma Pons

Joon Pio Hong

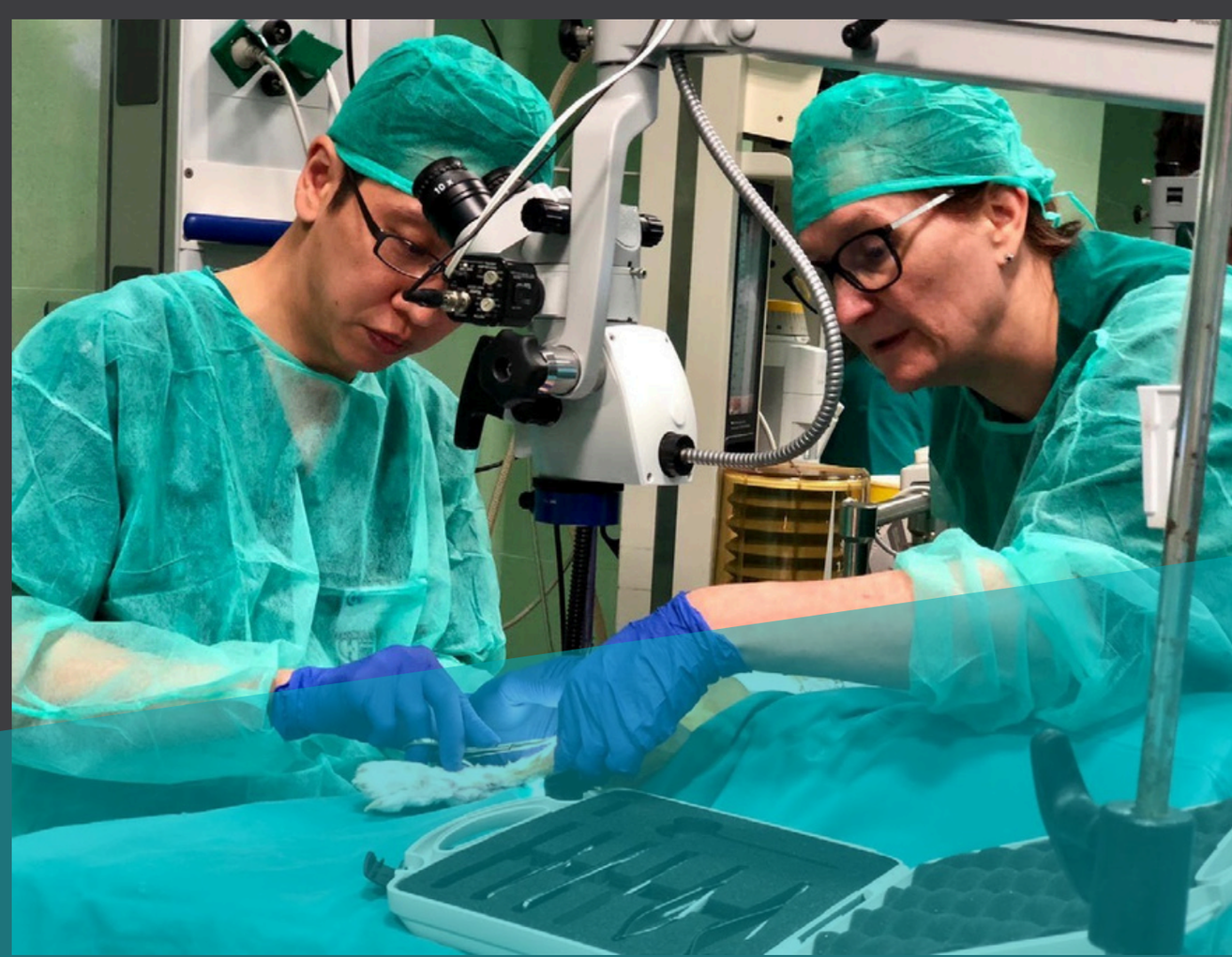
BUILDING AND DEVELOPING
RELATIONSHIP WITH LEADERS

AIM OF **THE PROJECT**

To develop a practical training course in lymphatic reconstructive microsurgery in live animal models (e.g. rabbits). Furthermore the participants should be trained **in diagnostics, indications and treatment options as well as** postoperative care.

COURSE STRUCTURE
AND PROGRAMME

Two-days intensive course focused on lymphatic microsurgery including over 10 hours of practical training in “wet lab” conditions on standardised live animal models (rabbit).



PROGRAMME AT A GLANCE

PART 1

08:00 - 8:15 h **Welcome**

08:15 - 9:45 h **LECTURES - SESSION 1**

- What is the institute? Animal treatment. How to work in the animal lab . *E. Abellán*
- How to work in the animal lab. *J. L. Campos*
- Non-live animal model. *S. Suominen*
- In search of the ideal animal model for lymphatic surgery training. *J. L. Campos*
- Rabbit animal model. *G. Pons*

9:45 - 10:15 h **LECTURES - SESSION 2**

- Basic principles in high-definition microscopy. *T. Dymek*
- LVA: technical tricks and tips. *T. Yamamoto*

10:15 - 10:45 h **Coffee Break**

10:45 - 11:15 h **WORKSHOP 1**

Workshop in ICG Lymphography– Fluorescence with FLUOBEAM® LM . advanced applications in reconstructive microsurgery. *J. Masià / D. Robin*

11:15 - 13:00 h **PRACTICAL SESSION 1**

- Mapping of the Lymph vessels of the lower limb by ICG scanner
- Lymph vessels dissection of the lower limbs

13:00 - 14:00 h **Lunch Break**

14:00 - 14:15 h **KEYNOTE LECTURE**

- **Symani: The supermicrosurgical robot. Principles and future.** *J.P. Hong*

14:15- 18:00 h **PRACTICAL SESSION 2**

- LVA: end-to-end /end-to-side / side-to-side
- Supermicrosurgical anastomisis training in silicone tube model

PART 2

08:00 - 09:20 h **LECTURE - SESSION 3**

- Functional vascularised lymph node transfer: anatomy, technique, donor site. *J. Masià*
- LVA Technical tricks and tips. *J.P Hong*
- Reverse mapping in lymph node transfer. *G. Pons*

09:00 - 10:00 h **WORKSHOP 2**

Ultrasound visualization of the Lymphatic vessels: a new tool for pre-operative planning. *T. Yamamoto*

10:00 - 10:30 h **Coffee Break**

10:30 - 13:00 h **PRACTICAL SESSION 3**

- Mapping of the lymph nodes of the lower limb by ICG scanner
- Lymph nodes dissection of the popliteal area

13:00 - 14:00 h **Lunch Break**

14:00 - 18:00 h **PRACTICAL SESSION 4**

- Free Lymph-nodes transfer of the popliteal areas: right to left/ left to right
- Supermicrosurgical anastomosis training in silicone tube model

PART 3

08:30 - 10:00 h **LECTURES - SESSION 4**

- The Lymphatic System: Anatomy and Physiopathology. *JP Hong*
- Imaging of the lymphatic system. *G. Pons*
- Combined Lymphedema surgical treatment approach. *J. Masià*
- Lymphedema risk reduction surgery. *G. Pons*
- Pre/ Post operative conservative treatment and follow-up. *All faculty*

10:30 - 11:00 h **Coffee Break**

11:00 - 11:45 h **LECTURES - SESSION 5**

- How to set up a lymphedema network unit. *J.P. Hong/ J. Masià*
- Research and training in supermicrosurgery. *J.P. Hong*
- Insights in lymphedema surgery. *Isao Koshima*

11:45 - 12:30 h **Practical case discussion**

(All faculty)

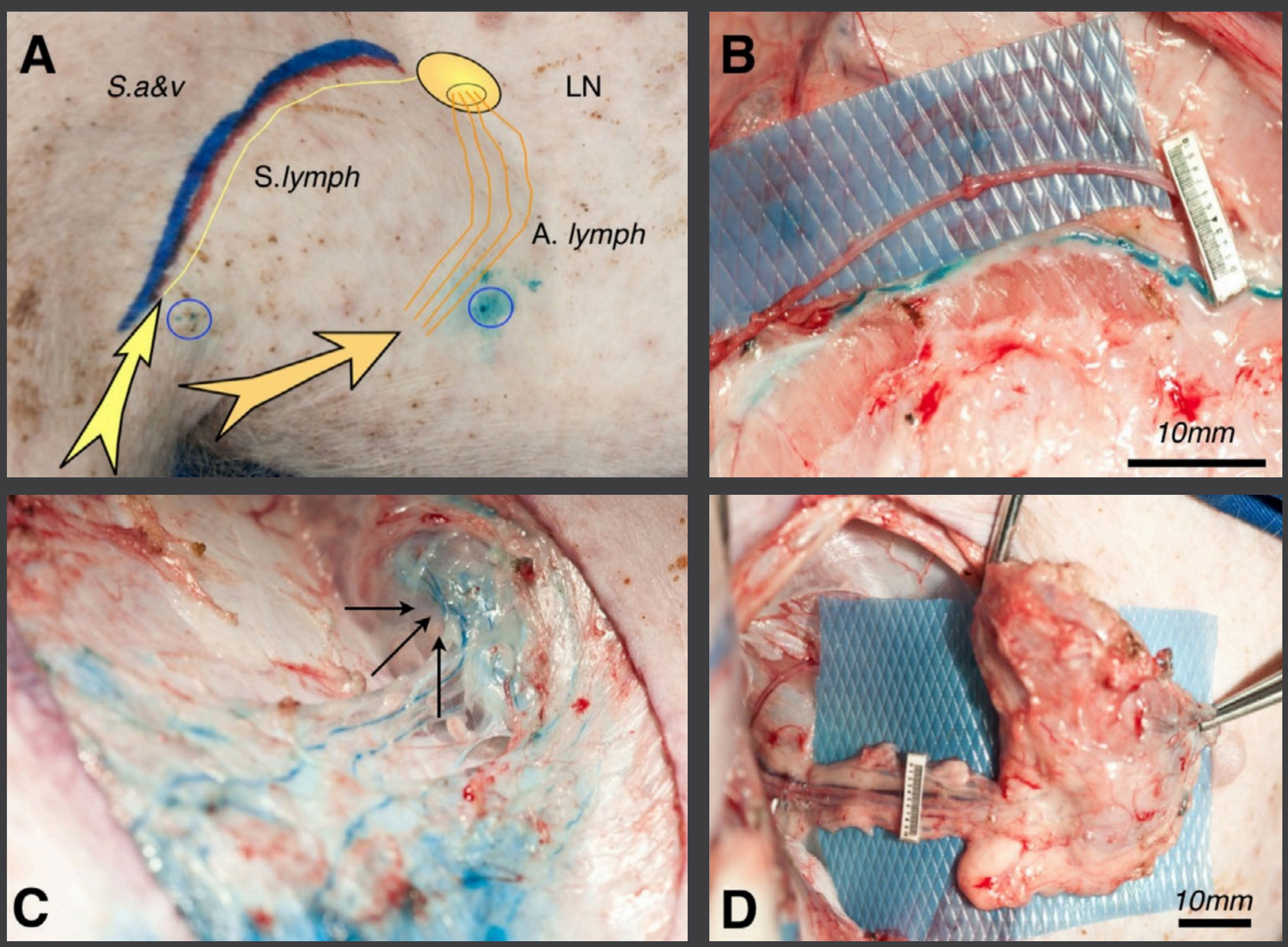
THE **TRAINING MODELS**

The first practical session starts with a detailed introduction of the PDE device, the operative microscopes and microsurgical instruments which will be used throughout the course.

The first part of the course is dedicated to identification (ICG/PDE Technique) and free preparation of lymphatic vessels followed by performing of either lymphovenous (LVA) or multiple lymphovenous (MLVA) anastomosis at the groin and the neck level in live anaesthetised pigs.

The second part of the course is dedicated to the lymph node transfer models and consists in identification and dissection of the inguinal and cervical lymph-nodes followed by free microsurgical transfer either in the neck or groin area.

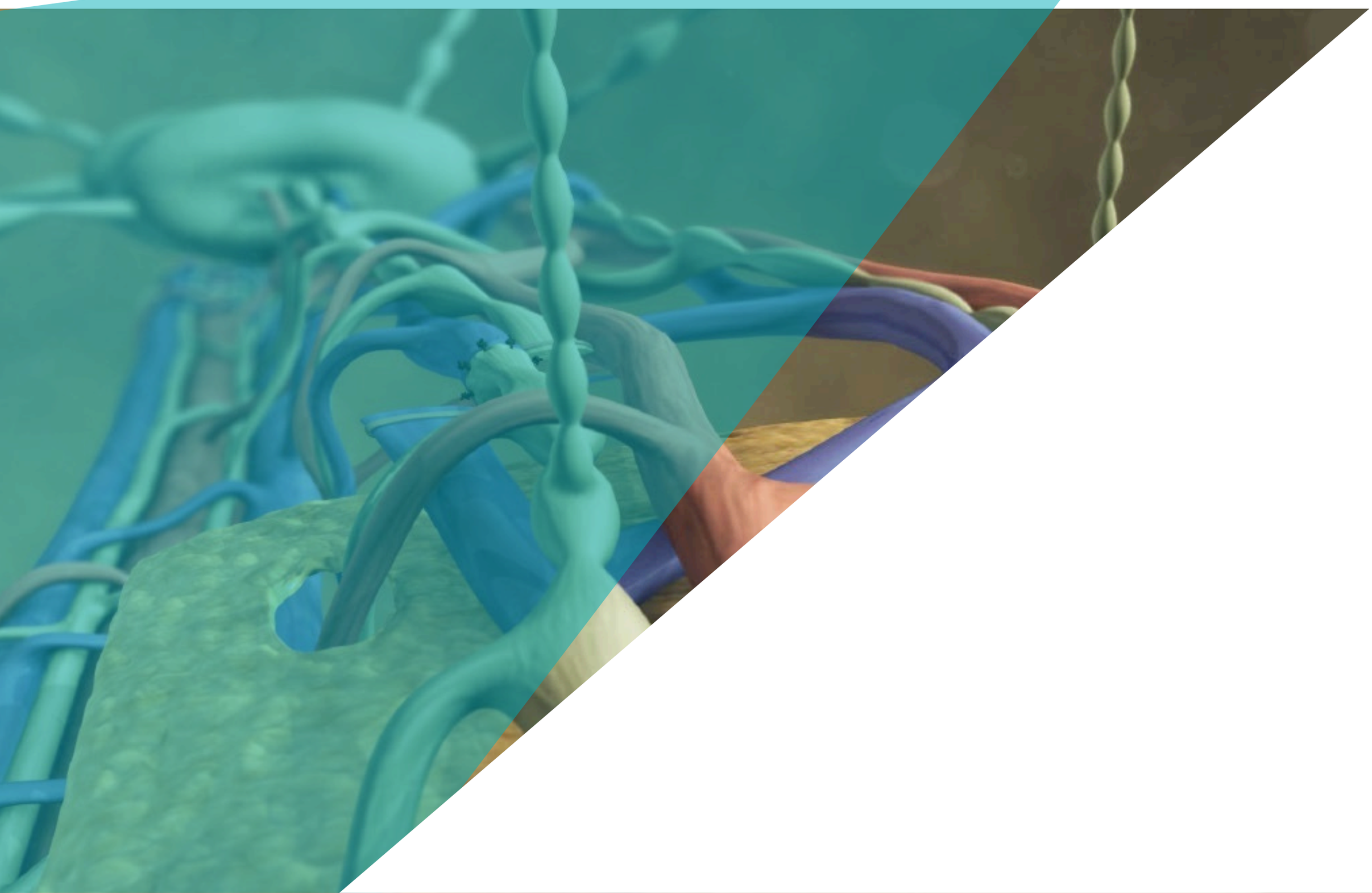
The figure shows part of the experimental models that will be used during the course.



The Groin Model for Lymphatic Microsurgery in Pig. A - S.a&v - Saphenous artery and vein; S.lymph - solitary saphenous lymphatic channel; LN - inguinal lymphnode, A. lymph - Afferent lymphatics; B - Saphenous lymphatic channel alongside the saphenous vein; C - Dissected groin lymphnode with afferent lymphatics entering it (arrows); D - Dissected groin lymph node ready for free transplantation. The scale lies on the vascular pedicle of the lymph
node (Pictures are courtesy of Dr. Jiga - not to be published or reproduced in any form without preliminary permission from its owner)

THEORETICAL PART

1. The multidisciplinary approach concept for the modern treatment of lymphedema and lymphatic related complications after major tumor or vascular surgery
2. The concept of preventive lymphatic surgery in patients undergoing primary axillary or groin lymph node dissection for breast cancer or melanoma
3. The examination of the lymphedema patient from the first visit to after the surgery.
4. The use of preclinical investigations such as lymphatic-MRI and ICG Lymphography and their importance for diagnosis and setting the operative indication.
5. State-of-the-art in microsurgical reconstruction of the lymphatic system (type of procedures, their applications and success rates).
6. DRG-related issues when treating lymphedema patients.
7. Patient education networking.



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REGISTRATION INCLUDES

- √ Coffee breaks and lunches
- √ Certificate

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