Hospital Universitario La Paz
SaludMadrid
Hospital Carlos III
Hospital Cantoblanco
Servicio de Neurocirugía

IdiPAZ
Instituto de Investigación
Hospital Universitario La Paz

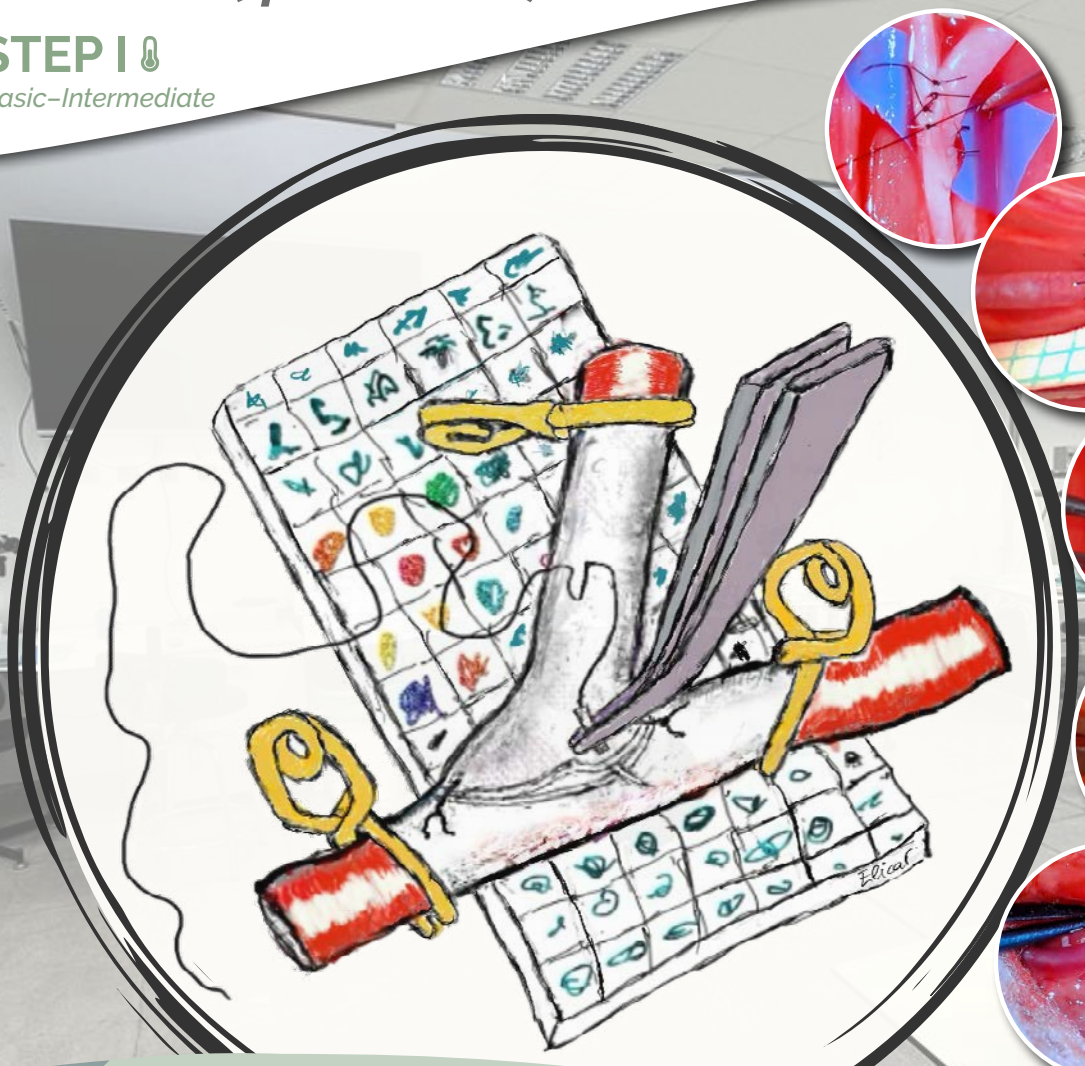
MICRO
NEURO
SURGERY
MADRID

EXPERIMENTAL VASCULAR MICRONEUROSURGERY

ANASTOMOSES AND REPAIR TECHNIQUES COURSE *(4th Edition)*

STEP I

Basic–Intermediate



DATES: JUNE 9th - 12th, 2026 (fixed)

La Paz University Hospital, MADRID

Official language: English

WWW.MICRONEUROSURGERYMADRID.COM

Accreditation has been requested from the Continuing Education Commission of the Community of Madrid, the National Health System Continuing Education Commission, and the UEMS EACCME® for CME/CPD accreditation of this event.

The scientific and educational content of this event has been endorsed by:

AEM

SECOM CyC

SONCAM
Sociedad de Neurocirugía de la Comunidad Autónoma de Madrid

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formación médica y dental

Hospital Universitario La Paz
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COURSE OBJECTIVES

This course, held at the Experimental Microsurgery Laboratory (idiPAZ) of Hospital Universitario La Paz in Madrid from June 9th to 12th, 2026, provides an intensive program of theoretical updating and innovative hands-on training in experimental vascular microsurgery.

It is oriented toward international neurosurgeons, as well as surgeons and other trainees from related specialties who work in close collaboration with neurosurgery. The program combines experimental and clinical lectures with extensive practical training using non-living, *"ex vivo"*, and *"in vivo"* models, aiming to develop advanced microsurgical skills with direct clinical applicability.

Practical sessions are conducted under expert supervision in a high-level training environment, supported by high-definition video systems, ensuring optimal learning conditions.

Specific Objectives:

- Understand the legal, ethical, and animal welfare frameworks governing experimental research and surgical training.
- Master the principles of ergonomics, microscope handling, atraumatic microdissection, and microsuturing techniques.
- Train in basic and advanced microvascular anastomosis techniques (end-to-end, end-to-side, and side-to-side) across different experimental models to enhance microsurgical proficiency.
- Practice anatomical approaches and vascular repair in rat models, with systematic assessment of anastomosis quality.

In addition, this course contributes to continuing professional education and accreditation in experimental vascular microsurgery and fulfills the requirements for re-accreditation of professionals involved in animal experimentation.

Dr. Fernando Carceller
Course Co-Director

Dr. Pablo García Feijoo
Course Co-Director

DIRECTORS

DR. PABLO GARCÍA FEIJOO
Neurosurgeon,
La Paz University Hospital, Madrid
Skull Base and Neurovascular Surgery Unit

DR. FERNANDO CARCELLER
Emeritus Neurosurgeon
of the Autonomous Community of Madrid
Microneurosurgery Lab Leader

SCIENTIFIC COMMITTEE

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Skull Base and Neurovascular Surgery Unit

DR. ALBERTO ISLA
Head of the Department of Neurosurgery, La Paz University Hospital, Madrid
Expert in Plexus and Peripheral Nerve Surgery

Veterinarian responsible for the activity:
Dr. Carlota Largo

All procedures involving animals comply with current regulations on animal experimentation RD 53/2013 and are authorized by the Competent Authority under number PROEX 275.8/22.

FACULTY

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Head of Animal Health & Welfare

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Plastic, Aesthetic & Reconstructive Surgery

ONLINE FACULTY

DR. MUSTAFA BASKAYA
Neurosurgeon,
University of Wisconsin School of Medicine &
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Skull Base & Neurovascular Surgery Unit

DR. ABDULLAH KELES
Physician-Scientist in Neurosurgery Education,
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Medical student,
Cluj-Napoca, Romania

DR. CRISTINA BOZNEA
Medical student,
Cluj-Napoca, Romania

LABORATORY SUPPORT STAFF

MAR VARONA
Laboratory Technical Assistant - Experimental Surgery
La Paz University Hospital, Madrid
Animal Health & Welfare

PROGRAM

TUESDAY 9TH, JUNE 2026	
8:30 - 8:35	Course opening. Dr. Alberto Isla / Dr. Susana Noval
8:35 - 8:50	Welcome to the course: Objectives, roadmap and faculty introduction. Dr. Pablo García Feijoo / Dr. Fernando Carceller
	LECTURES
8:50 - 9:10	Experimental vascular microsurgery training for technique development and skill acquisition. Dr. Abdullah Keles *(online)*
9:10 - 9:25	Non-living models for microvascular anastomoses and repair techniques. Dr. Mario Gomar
9:25 - 9:40	Living models for microvascular anastomoses and repair techniques. Dr. Pablo García Feijoo
9:40 - 9:55	Animal welfare, legal framework, and safety regulations in the experimental animal use. Dr. Carlota Largo
9:55 - 10:10	Ergonomic principles and use of the surgical microscope in the lab. Dr. Fernando Carceller
10:10 - 10:25	Tools and principles of atraumatic microdissection and suturing. Dr. Pablo García Feijoo
10:25 - 11:00	*Coffee break*
	HANDS-ON SESSION
11:00 - 12:30	**PRACTICE 1:** Basic training in microsuture on synthetic material and cryopreserved biological vessels.
12:30 - 15:00	**PRACTICE 2:** Vessel microdissection and repair techniques in chicken wing vessels.
15:00 - 15:45	*Lunch break*
	LECTURES
15:45 - 16:00	"In vivo" techniques for microanastomoses, vascular repair, and thrombectomy. Dr. Fernando Carceller
16:00 - 16:15	Comparative anatomy of the rat: Stepwise approaches to the main vascular compartments. Dr. Pablo García Feijoo
	HANDS-ON SESSION
16:15 - 18:15	**PRACTICE 3:** Microdissection and main vessel approaches in the rat: cervical (vagus nerve - carotid artery), abdominal (cava – aorta), and femoral (femoral artery – vein) compartments.

PROGRAM

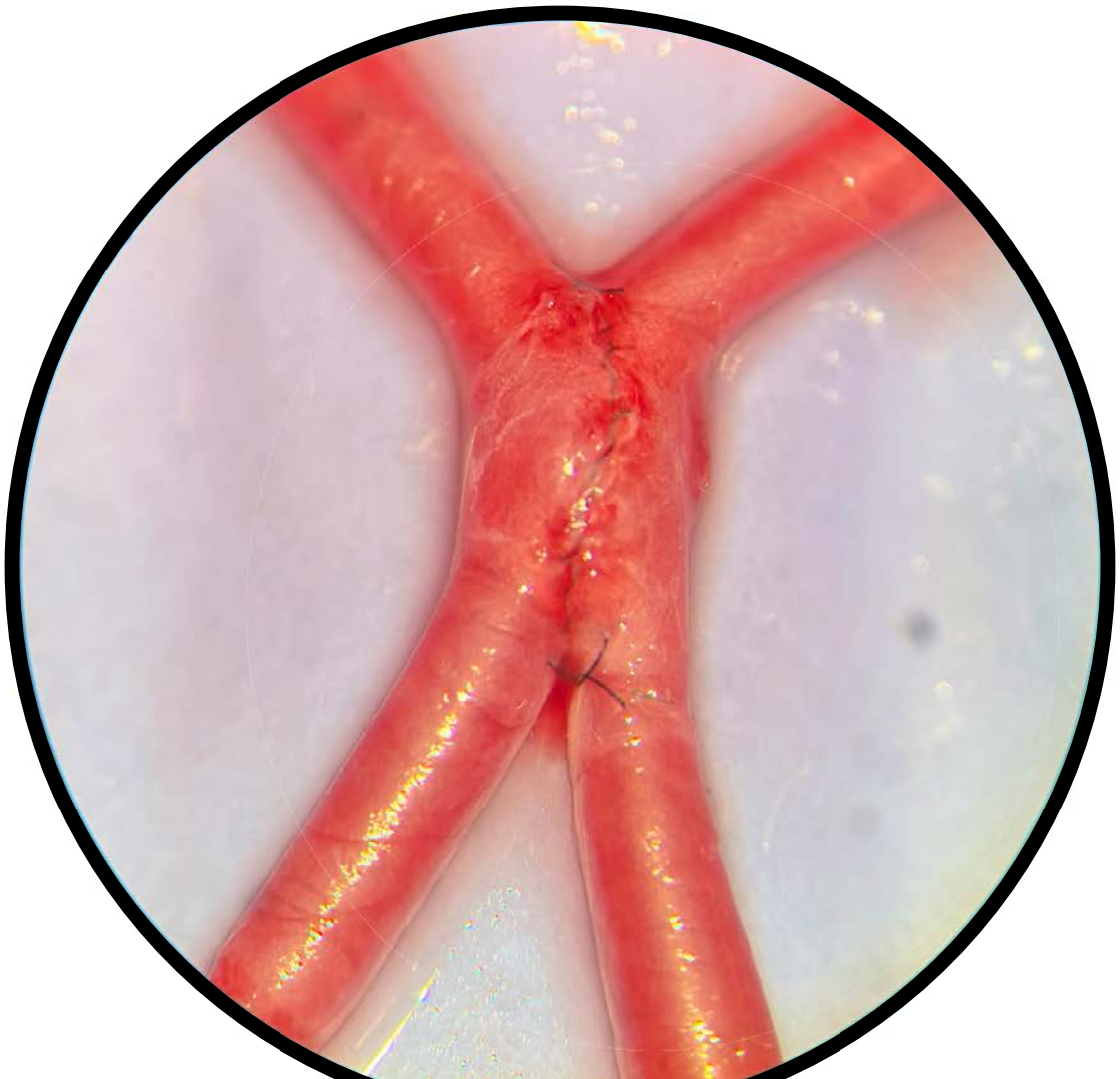
WEDNESDAY 10TH, JUNE 2026	
	LECTURES
8:30 - 08:45	Applied vascular microsurgery I: State-of-the-art and controversies in lymphatic microanastomoses for CNS disorders. Dr. Luis Landín / Dr. Zhan Q. Lin
8:45 - 9:00	Applied vascular microsurgery II: Management of facial palsy using vascular and nerve microsurgical techniques. Dr. Teresa González Otero
9:00 - 9:15	End-to-end anastomosis: Principles, technical variations and clinical applications. Dr. Fernando Carceller
	HANDS-ON SESSION
9:15 - 15:00	***(Cross-cutting practical station)*** **PRACTICE 4:** Intracranial aneurysms clipping in an "ex vivo" hybrid simulator.
9:15 - 11:30	**PRACTICE 5:** **End-to-end anastomosis in rat abdominal aorta.**
11:30 - 12:00	*Coffee break*
12:00 - 15:00	**PRACTICE 6:** End-to-end anastomosis with vessel caliber discrepancy and fish-mouth technique (common carotid artery and external jugular vein in the rat).
15:00 - 15:45	*Lunch break*
	LECTURES
15:45 - 16:00	Applied vascular microsurgery III: Brain aneurysms. Dr. Luis Moreno
	HANDS-ON SESSION
16:00 - 18:15	**PRACTICE 7:** End-to-end anastomosis in rat femoral artery: Quality test on <1mm vessels.

PROGRAM

THURSDAY 11TH, JUNE 2026	
	LECTURES
8:30 - 8:50	Applied vascular microsurgery IV: Arterio-venous fistulas. Dr. Juan Casado
8:50 - 9:10	Applied vascular microsurgery V: Brain arteriovenous malformations. Dr. Victor Volovici
9:10 - 9:25	End-to-Side Microvascular Anastomosis: Principles, technical developments and clinical Utility. Dr. Fernando Carceller
	HANDS-ON SESSION
9:25 - 12:15	**PRACTICE 8:** End-to-side anastomosis in the rat common carotid arteries.
12:15 - 12:45	*Coffee break*
	LECTURES
12:45 - 13:05	Applied vascular microsurgery VI: Cerebral bypass. Dr. Mustafa Baskaya *(online)*
	HANDS-ON SESSION
13:05 - 15:00	**PRACTICE 9:** End-to-side anastomosis in rat femoral artery and vein. Quality test on <1mm vessels.
15:00 - 15:45	*Lunch break*
	HANDS-ON SESSION
15:45 - 18:15	**PRACTICE 10:** End-to-side anastomosis: common carotid artery to external jugular vein of the rat.
21:00	*Course Dinner*

PROGRAM

FRIDAY 12TH, JUNE 2026	
	LECTURES
9:00 - 9:20	Applied vascular microsurgery VII: Flow dynamics in cerebrovascular occlusive disease. Dr. Nikolay Velinov
9:20 - 9:35	Side-to-side microvascular anastomosis: principles, technical developments and clinical utility. Dr. Pablo García Feijoo
	HANDS-ON SESSION
9:35 - 11:30	**PRACTICE 11:** Side-to-side anastomosis in rat common carotid arteries.
11:30 - 12:00	*Coffee break*
12:00 - 14:00	**PRACTICE 12:** Free exercise.
14:00 - 14:15	Awarding of certificates – Course evaluation & closing



REGISTRATION

Regular Fee: **1.750 €**

AEM members: **1.710 €**

EANS members: **1.575 €**

Registration includes:

- Folder with course materials
- Surgical scrubs
- Use of changing rooms with locker access
- One basic microsurgery kit per participant *(take-home)*
- Supervised theoretical and practical sessions in experimental microsurgery
- Use of surgical microscope workstations (one per participant) in the microsurgery laboratory
- Logistical support from specialized laboratory technicians and veterinarians trained to work with animals
- Synthetic materials, chicken wigns and cryopreserved rat arteries
- Use of aneurysm clips
- Use of flowmeter
- Microvascular sutures
- Other consumables and laboratory instruments
- Experimental animals (Sprague Dawley rats)
- Coffee, lunch breaks and course dinner.
- Certificate of attendance and accreditation *(requested from continuing education)*

The course is limited to 18 participants.
Places will be allocated strictly in order of registration.

If you are interested in attending this course, please complete the online form on the website:

REGISTRATION

VENUE

Experimental Microsurgery Laboratory
IdiPAZ
Lower ground floor
Pedro Rico St, 6
28029 Madrid, Spain

Scan the QR code
to view the IdiPAZ location
on Google Maps

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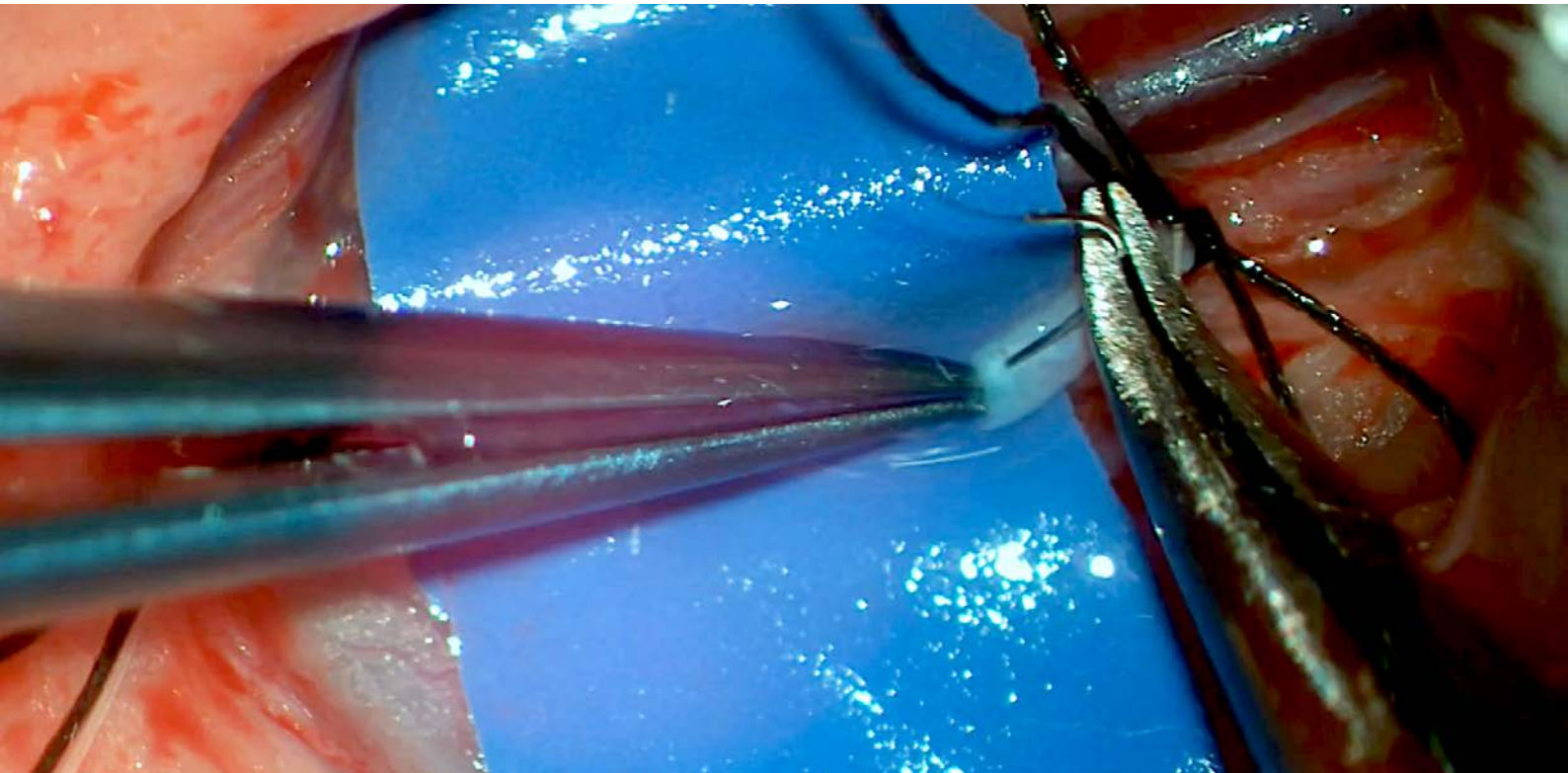

RECOMMENDED HOTELS

Barceló Imagine ★★★★★
C. de Agustín de Foxá, 32, Chamartín, 28036 Madrid

Eurostars Madrid Tower ★★★★★
P.º de la Castellana, 259, B, Fuencarral-El Pardo, 28046 Madrid

Hotel Villamadrid ★★★★
Calle Xaudaró, 2, Fuencarral-El Pardo, 28034 Madrid

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P.º de la Castellana, 191, Tetuán, 28046 Madrid

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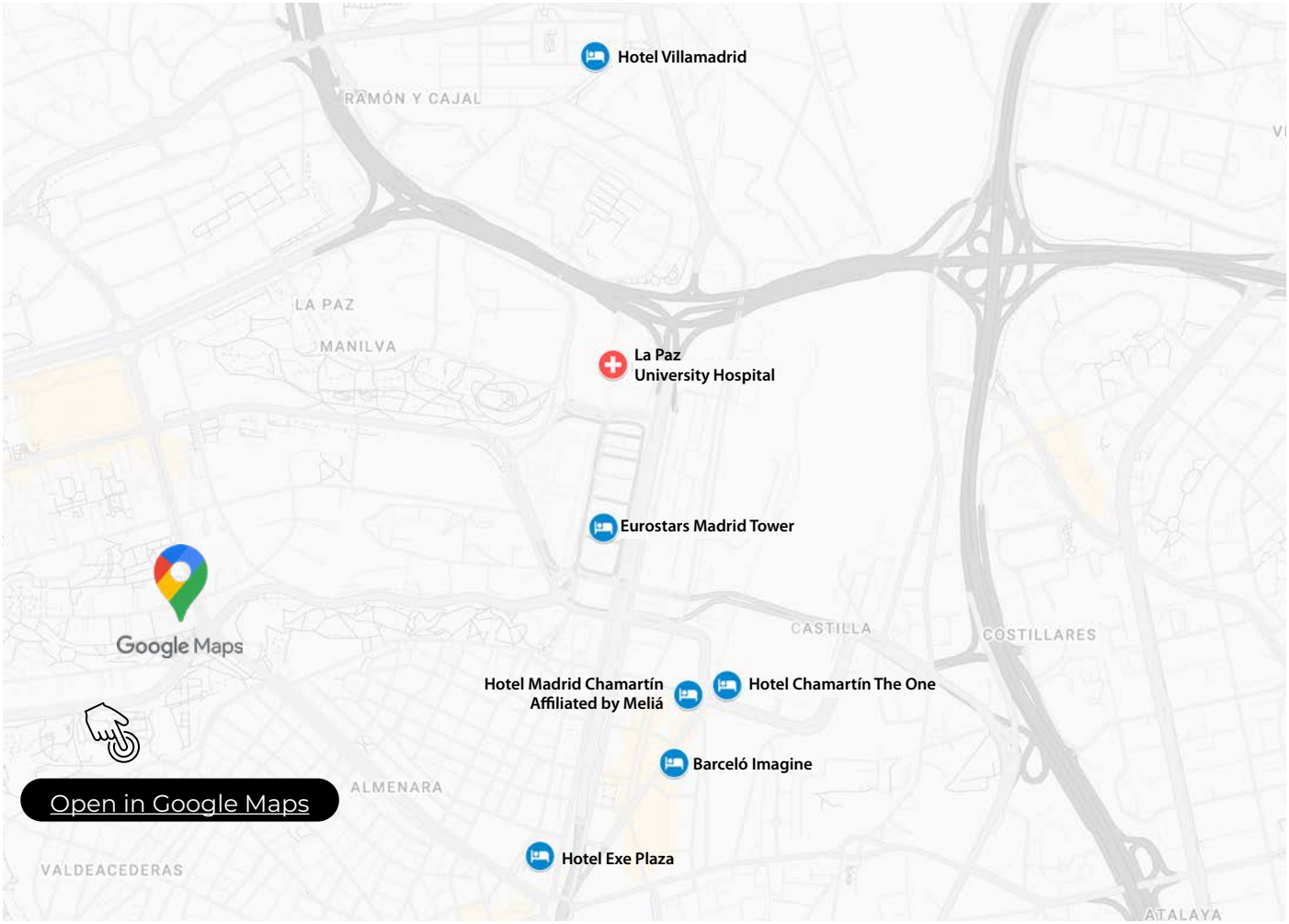

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If you would like to learn more about the **"Experimental Vascular Microneurosurgery"** courses, we invite you to visit **www.microneurosurgerymadrid.com**

There, you will find complete information about the program, facilities, upcoming course dates, images from previous editions, and the advanced equipment used.

www.microneurosurgerymadrid.com

REGISTRATION

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