

**"PAUSE" "Percutaneous Access and Ultrasound Skills
Experience" workshop**
Madrid. November 19th-20th, 2026



Collaborator: Department of Vascular Surgery of Fundación Jiménez Díaz,
Madrid, Spain

Event Lead

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Convenors / faculty / course tutors / judges

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Aitziber Salazar Agorria. MD. Vascular surgeon. Hospital Universitario de Cruces, Bilbao. Email: aitzibertx@hotmail.com

Venue

The course will be held at the "Universidad Autónoma de Madrid", Madrid (Spain). The Faculty of Medicine is located on the Medical Campus of the "Universidad Autónoma de Madrid", Madrid (Spain).

Faculty of Medicine
Universidad Autónoma de Madrid
Arzobispo Morcillo St, 4
28029 Madrid
<https://www.uam.es/medicina/inicio>

Dinner venue

An informal course dinner is planned for the first evening (Thursday, November 19th) at "Bodega de los Secretos" (www.bodegadelossecretos.com), at San Blas St, 4, 28014, Madrid, Spain.

Participants are kindly requested to arrange their own transportation to and from the restaurant.

Dates

The course will be held over two days, on November 19th–20th, 2026.

Objective & description (to appear on website)

Endovascular procedures play a central role in the treatment of lower limb ischemia. The first and most critical step in these procedures is obtaining reliable vascular access.

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Retrograde access techniques are particularly important in complex endovascular interventions and may be required in up to 25% of cases. Ultrasound-guided vascular puncture significantly facilitates both antegrade and, especially, retrograde access.

The acquisition of these technical skills requires dedicated practical training, and cadaveric models provide an excellent educational environment for this purpose.

The aim of this course is to introduce participants to ultrasound-guided vascular access techniques. Basic anatomical and ultrasound concepts will be reviewed, and participants will progressively develop practical skills using homemade simulation models and, most importantly, Thiel-embalmed cadaveric models.

Special attention will be given to the use and ultrasound assessment of vascular closure devices, as well as to selected endovascular technologies operating within the vessel lumen, such as venous radiofrequency ablation systems and intravascular lithotripsy systems.

The course will begin with concise theoretical sessions covering:

- Ultrasound anatomy of the lower limbs
- Principles of ultrasound-guided vascular access
- Fundamentals of vascular puncture devices and materials

Practical workshops will then follow, progressing from:

- Basic ultrasound machine operation ("knobology")
- Ultrasound anatomy of lower limb vessels on cadaveric models
- Ultrasound-guided puncture on homemade simulation models
- Ultrasound-guided antegrade and retrograde vascular access on Thiel cadaveric models

Finally, participants will practice ultrasound-guided use of vascular closure devices and selected endovascular procedures under ultrasound monitoring.

More than 66% of the course will consist of hands-on practical training.

Educational Needs

Ultrasound-guided vascular access is a safe and effective technique for obtaining vascular access during endovascular procedures. The acquisition of these skills requires structured hands-on training, particularly for complex techniques such as distal retrograde ultrasound-guided puncture.

This course provides participants with an opportunity to gain initial experience with these techniques in a controlled educational setting, allowing them to acquire the fundamental concepts and practical skills necessary for subsequent application in daily clinical practice before performing these procedures in patients.

Expected educational outcomes

At the end of the course, participants will be able to:

- Optimise ultrasound machine settings for ultrasound-guided vascular access procedures

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- Perform different ultrasound-guided puncture techniques using simulation models
- Practice antegrade and retrograde ultrasound-guided arterial access on cadaveric models
- Understand and perform selected ultrasound-guided and ultrasound-monitored endovascular maneuvers
- Gain familiarity with vascular closure devices and their ultrasound-guided assessment

Equipment

Ultrasound systems and a wide range of endovascular materials will be available on site. Equipment support is being provided in kind by Philips for ultrasound systems, and by several endovascular companies for endovascular devices and materials.

Target audience

This course is designed for healthcare professionals interested in ultrasound-guided vascular access and ultrasound monitoring during endovascular procedures. It is primarily intended for vascular surgeons seeking to acquire or improve practical vascular access skills for everyday clinical practice. Participants are expected to have a basic understanding of vascular ultrasound and some previous experience in vascular puncture techniques.

Budget plan

The registration fee is:

- €1,200 for ESVS members
- €1,500 for non-members

Registrations benefits

The registration fee includes:

- Course materials
- Coffee breaks
- Lunch on Friday, November 20th
- Course dinner on Thursday, November 19th

Transportation, accommodation, and additional meals are not included.

Registration

The maximum number of participants will be twelve.

To ensure optimal hands-on training, the faculty-to-participant ratio will be 1:2, with one ultrasound machine, one homemade puncture model, and one cadaveric model available for every two participants.

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Questions

Questions regarding course content, eligibility, or other information may be addressed to:

Ana Arribas Díaz

Email: anabegonaarribas@gmail.com

Xavier Martí Mestre

Email: fjmarti@bellvitgehospital.cat

Accreditation

MedTech Europe compliance approval is being sought for this event.

CME accreditation is also being sought.

Venue reach

The theoretical lectures and practical workshops will take place in the Department of Anatomy of the "Universidad Autónoma de Madrid".

The Department is located within the grounds of the Faculty of Medicine, close to Hospital Universitario La Paz, in the northern area of Madrid.

The main access to the Department is located at:

Arturo Duperier Street 4

28029 Madrid, Spain

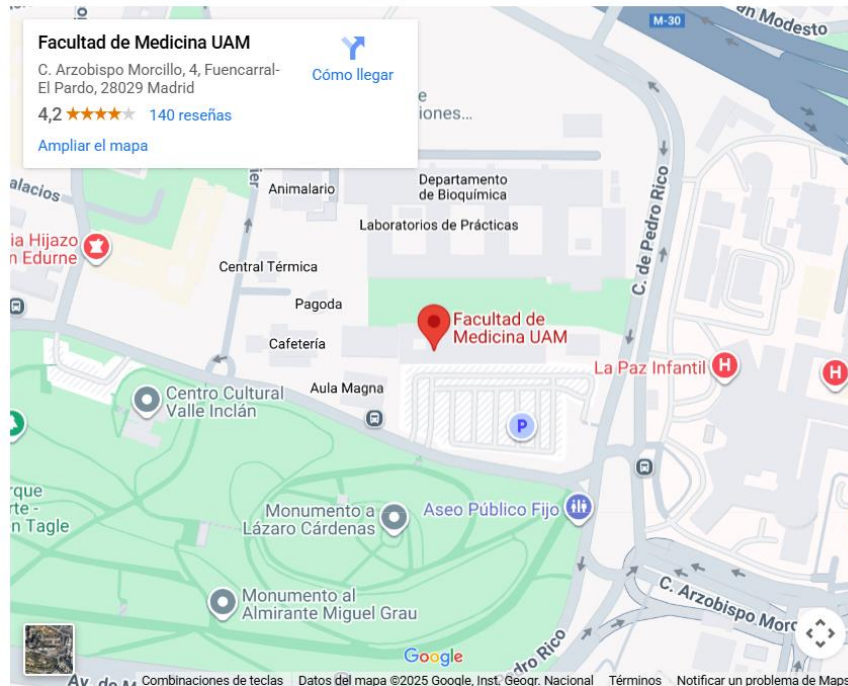
Access map to the area of unloading goods from the Department:



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Detailed information regarding routes and schedules can be found through the Madrid public transport information services. Urban buses

- **67.** Plaza de Castilla-Peñagrande
- **124.** Glorieta de Cuatro Caminos-Lacoma
- **132.** Moncloa-Hospital La Paz
- **134.** Plaza de Castilla-Mirasierra
- **135.** Plaza de Castilla-Hospital Ramón y Cajal
- **137.** Puerta de Hierro-Fuencarral
- **N24.** Plaza de Cibeles-Fuencarral

Subway

- Line 10. Begoña Station.

Interurban buses

152C, 154C, 155B, 159, 161, 181, 182, 183, 184, 193, 195, 196, 197, 198, 712, 716, 717, 721, 722, 723, 724, 725, 726 y **714. Madrid (PI Castilla)-Autónoma University**

Suburban train

- Chamartín station

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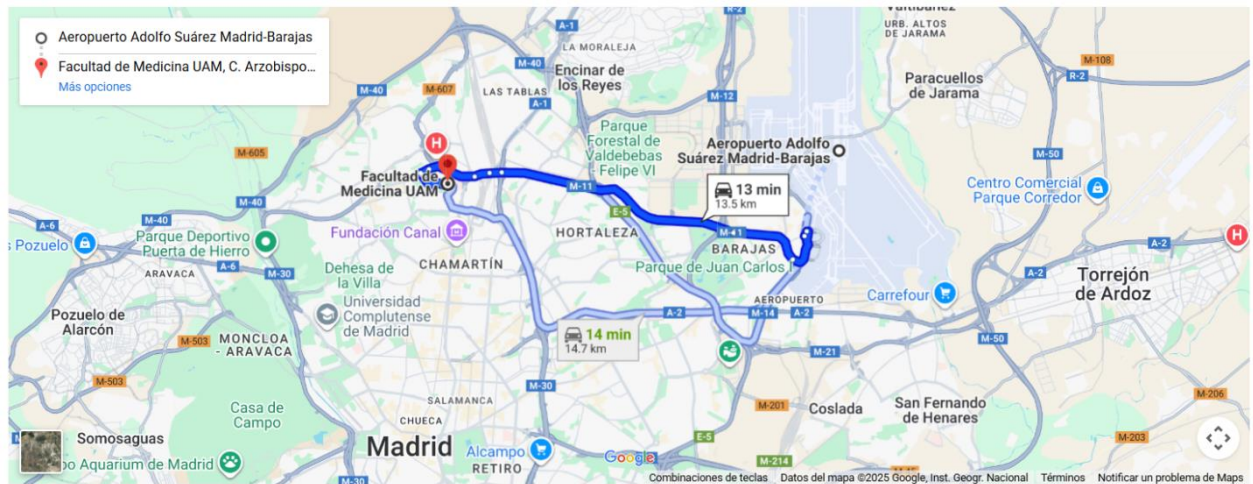


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- Ramón y Cajal station

From the airport

- **By car:**



- **By subway:**

Line 8 to “Nuevos Ministerios” station. There, transfer to line 10 to Begoña station
(Exit C. S. La Paz)

More information: Airport Internacional Madrid-Barajas.

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Detailed program

Time	Thursday, November, the 19th, 2026	Time	Friday, November, the 20th, 2026
9:00		9:00	Echographic anatomical study in cadaver Thiel <i>On pairs practice with one tutor</i>
9:45		9:30	Femoral echoguided puncture: several levels <i>On pairs practice with one tutor</i>
10:15		10:15	Popliteal echoguided puncture: above knee/below knee <i>On pairs practice with one tutor</i>
11:00		11:00	Break
11:30		11:30	Distal echoguided puncture: anterior tibial, posterior tibial, fibular arteries <i>On pairs practice with one tutor</i>
13:00		13:00	Lunch
14:30	Registration and welcome	14:30	Ultrasound monitoring of lithotripsy treatment on calcified vessels <i>On pairs practice with one tutor</i>
15:00	Presentation of the course <i>Dr. A Arribas/ Dr. X Martí</i>	15:30	Ultrasound monitoring of debulking systems <i>On pairs practice with one tutor</i>
15:15	Thiel cadaver: model characteristics <i>Dr. A Arribas</i>	16:30	Ultrasound monitoring of closure devices <i>On pairs practice with one tutor</i>
15:45	Anatomical review and echographic correlation <i>Dr. B Gonzalo</i>	17:30	Echoguided assisted radiofrequency treatment on the great saphenous vein <i>On pairs practice with one tutor</i>
16:15	Puncture techniques <i>Puncture modalities. Dr. C Martínez</i> <i>Puncture materials and arteries. Dr. A González</i>	18:00	Debriefing
17:00	Break		Course ends
17:30	Echo knobs and buttons workshop <i>On pairs practice with one tutor</i>		
18:00	Homemade models ultrasound guided puncture workshop <i>On pairs practice with one tutor</i>		
21:00	Networking dinner		