



IV EDITION OF THE THEORETICAL AND PRACTICAL WORKSHOP FOR UPDATE IN ULTRASOUND AND MULTIDISCIPLINARY APPROACH FOR VASCULAR ACCESS



April 8-9, 2014

Sabadell, Barcelona



Introduction and objectives

The progressive incorporation of ultrasound for early diagnosis of vascular access pathology requires a multidisciplinary approach (nephrologists, vascular surgeons, radiologists, & nurses) to optimize resources.

The course is aimed at nephrologists, vascular surgeons, radiologists and specialists-in-training who have experience in ultrasound for vascular access or who have completed the previous course on ultrasound for vascular access.

It will help professionals bring their knowledge up to date and improve their skills.

We also offer a symposium after the workshop, the 1st Parc Taulí International Vascular Access Symposium. The Symposium has three main objectives: to review the current state of the evidence in main issues related to vascular access, to highlight the trending topics by international experts, and to give professionals of different areas of interest the opportunity to present their experiences with abstract submissions.

Methodology

1. Review of the theory of the physical principles of ultrasound applied to different hemodynamic models of vascular access.
2. Theoretical and practical sessions on ultrasound mapping and diagnosis of vascular access pathology. From the simple to the complex.
3. Representative clinical cases and clinical cases for students to solve in the interactive electronic student self-assessment sessions.
4. HANDS-ON SESSIONS on vascular access ultrasonography
From classroom simulation to ultrasound examinations done by students. Hands-on practice with patients with normal vascular access and with different types of pathology (stenosis, thrombosis, aneurysms, deep veins, etc.), giving students the opportunity to apply the theoretical knowledge they have acquired. Different models of ultrasound devices will be used.
5. On previously mapped vascular access, surgery transmitted live from the operating room.
6. HANDS-ON SESSIONS on ultrasound-guided venipuncture.
Study of cervical and femoral human anatomy in patients. From classroom simulation to the examinations done by students. Ultrasound-guided puncture for central line placement on simulation models. Review of techniques and approaches. (human torso, phantom, and biological models such as turkey,). Temporary and tunneled catheter placement, from puncture to the tunnel creation.

Organization committee

José Ibeas, MD, PhD. Nephrology

Joaquim Vallespín. MD. Vascular Surgery

José Ramón Fortuño, MD. Interventional Radiology

Hospital de Sabadell, Corporació Sanitària Parc Taulí. Sabadell, Barcelona

Scientific coordination

José Ibeas, MD, PhD.

Nephrology

Hospital de Sabadell, Corporació Sanitària Parc Taulí

With support of:

- Centro de Educación Médica basada en la Simulació. Parc Taulí Sabadell, Hospital Universitari
- Catalanian Society of Nephrology and its Working Group of Vascular Access
- Spanish Society of Nephrology and its Working Group of Vascular Access
- Catalanian Society of Angiology, Vascular and Endovascular Surgery
- Spanish Society of Angiology and Vascular Surgery
- Vascular Access Society
- European Renal Association – European Dialysis and Transplantation Association
- International Society of Nephrology

Accreditation



has been accredited by the European Accreditation Council for Continuing Medical Education (EACCME) to provide the following CME activity for medical specialists. **12 European CME credits** (ECMEC).



Activitat acreditada pel Consell Català de Formació Continuada de les Professions Sanitàries - Comisión de Formación Continuada del Sistema Nacional de Salud. (09/09726-MD). 3.8 créditos



Accommodation

Gran Hotel Verdi ****

C/ Francesc Macià, 62

08206 – Sabadell

Room /day: 75 eur + VAT (breakfast included)

Reservations and payment for accommodation must be made through the course secretary.

Course venue

Auditorium Taulí nou

Corporació Sanitaria Parc Taulí

Parc Taulí, 1

08208 Sabadell

Course secretariat

Ester Freixa
Fundació Parc Taulí
E-mail efreixa@tauli.cat

Registration

For the Registration, send an e-mail efreixa@tauli.cat

Price in Euros (VAT not included)

	WORKSHOP	SYMPOSIUM	COMBO
Early Before Dec, 1 2013	550 € Resident/Fellow: 450	350 € Resident/Fellow/Nurse: 250	725 € Resident/Fellow: 525 €
Advance Before Feb, 15 2014	650 Resident/Fellow: 550	425 Resident/Fellow/Nurse: 325	900 Resident/Fellow: 700
Late	750 Resident/Fellow: 650	500 Resident/Fellow/Nurse: 400	1075 Resident/Fellow: 875

Includes:

- Course attendance, documentation pendrive, coffee breaks, lunch and certificate of attendance.
- ***Membership in the Vascular Access Society for a year, which includes electronic subscription to the Journal of Vascular Access.***

Limited, to 24 students. Places will be assigned in function of the order of registration.

Cancelation:

Up to 10 days before the course starts, after this date, the registration fee will not be refunded.

Payment

Bank transfer to: Banc de Sabadell
IBAN: ES69-0081-5154-22-0002103622
SWIFT: BSABESBB

PROGRAM

APRIL 8

07:45 – 08:00 h Registration

08:00 – 09:00 h Welcome and opening of the course
Joan Martí López, MD
Executive Director Hospital de Sabadell and Albada
Corporació Sanitària Parc Taulí

Introduction and course objectives

José Ibeas López, MD, PhD

Ultrasonography in vascular access: from innovation to a fundamental tool

Manuel García García, MD, PhD

Multidisciplinary management of vascular access: the importance of resource management

Antonio Giménez Gaibar, MD

Clinical application of second-generation screening methods in the diagnosis of the vascular access stenosis

Ramón Roca Tey, MD, PhD

09:00 - 10:30h **From the physical principles of Color Doppler ultrasound to technical optimization. Adaptation to vascular access hemodynamics**

Jana Merino Raldúa, MD, PhD

Practical use:

- B Mode
 - Color Doppler and Power Doppler
 - Spectral Doppler
 - Settings: from PRF to SVP
 - Flow measurement: how to avoid mistakes
 - ***Clinical Cases***
 - ***Clinical problems: how to avoid mistakes, Self-assessment***
-

10:30 – 11:00 h **Ultrasonography, from theory to clinical practice: tips, tricks, and a quiz**

Simon van Hooland, MD

11:00 – 11:30 h Coffee break

11:30 – 13:00 h Presurgical mapping:

Joaquim Vallespín Aguado, MD

- Ultrasound anatomy of arterial and venous vascular tree: outline of systematic mapping
 - From the morphological study to the hemodynamics
 - Mapping for the first AVF
 - Mapping of patients with complex vascular beds
 - Mapping oriented to VA reconstruction
 - Indications for angiography
 - ***Clinical cases and Self-assessment***
-

13:00 – 14:30 h The pathological vascular access

José Ibeas López, MD, PhD

- Outline of the systematic physical examination of the VA
 - Outline of the systematic ultrasound study of the pathological VA
 - Diagnosis of stenosis: from moderate to critical
 - Diagnosis of thrombosis: Approach to the identification of candidates for treatment
 - Value of flow in decision making
 - Mapping strategy for dysfunctional AVF puncture awaiting treatment
 - The AVF with moderate stenosis: conservative management approach by US surveillance
 - ***Clinical Cases***
 - ***Clinical problems: Self-evaluation***
-

14:30 – 15:30 h Lunch

Workshop

15:30 – 16:30 h Simulation Lab applied to arteriovenous fistula

16:30 – 20:00 h Hands On. UltrasoundVA assessment in patients

1. Pathological and Nonpathological VA

- Developing arteriovenous fistula
- Medium Flow arteriovenous fistula
- High flow arteriovenous fistula
- Arterioveonus fistula stenosis
- Graft
- Aneurysms
- Deep Veins

2. Presurgical mapping

- Candidate for first AVF with vessels preserved
- Candidate for first AVF with arteriopathy
- Candidate for AVF with poor venous bed
- Candidate for VA reconstruction

APRIL 9

09:00 – 13:00 h Workshop discussion based on the case.
Discussion of clinical cases and live surgery in parallel

1. Clinical cases
2. Live surgery

13:00 – 14:00 h Lunch

14:00 – 15:00 h Ultrasound-guide puncture in central vessels. Review of techniques and approaches

José Ibeas López, MD, PhD

- Review to optimize the use of ultrasound in the puncture of central lines
- Vascular anatomy. Anatomic variants
- Ultrasound-guided puncture: different approach techniques:
 - In plane and out of plane
 - Combinations of longitudinal, transverse, and oblique approaches

15:00 – 16:00 h Simulation Lab: ultrasound-guided catheter placement

16:00 – 19:00 h Workshop ultrasound practice on real patients and simulation models

- Exploration in anatomical human model:
 - Normal anatomy and variants
 - Jugular and femoral areas
 - Complex approach
- Training on simulation models. Ultrasound-guided puncture in:
 - Simulated Human Torso
 - Phantom

- Training in ultrasound-guided short-term and tunneled catheter placement with different approaches:
 - Biological model (turkey)
- Training in ultrasound-guided catheter placement and temporary tunneled catheter with different approaches:
 - Plane
 - Out of plane
 - Combination of transverse and oblique

19:30 h Workshop closing

Faculty

Loreley Ana Betancourt, MD. Nephrology. Corporació Sanitària Parc Taulí

M^a Isabel Bolos, MD. Nephrology. Corporació Sanitària Parc Taulí

Jordi Branera, MD. Interventional Radiology. UDIAT. Corporació Sanitària Parc Taulí

Ivan Constenla, MD. Vascular Surgery. Corporació Sanitària Parc Taulí

Certificate of noninvasive vascular diagnosis (CDVNI) of the Spanish Society of Angiology and Vascular Surgery.

Eva Criado, MD. Interventional Radiology. UDIAT. Corporació Sanitària Parc Taulí

José Ramón Fortuño, MD. Interventional Radiology. UDIAT. Corporació Sanitària Parc Taulí

Manuel García, MD, PhD. Chief of Nephrology Department. Corporació Sanitària Parc Taulí

Antonio Gimenez Gaibar, MD. Chief of Vascular Surgery Department. Corporació Sanitària Parc Taulí.

President of the Catalan Society of Angiology and Vascular and Endovascular Surgery. Vice- president of the Spanish Society of Angiology and Vascular Surgery.

Elena González, MD. Coordinator of the Vascular Surgery Department Corporació Sanitària Parc Taulí.

Certificate of noninvasive vascular diagnosis (CDVNI) of the Spanish Society of Angiology and Vascular Surgery.

Carol Herranz, MD. Vascular Surgery. Corporació Sanitària Parc Taulí.

Certificate of noninvasive vascular diagnosis (CDVNI) of the Spanish Society of Angiology and Vascular Surgery.

José Ibeas, MD, PhD. Nephrology. Corporació Sanitària Parc Taulí.

Vascular Access Workgroups of the Catalan and Spanish Societies of Nephrology. Council member of the Vascular Access Society.

Jana Merino, MD, PhD. Vascular Surgery. Corporació Sanitària Parc Taulí.

Certificate of noninvasive vascular diagnosis (CDVNI) of the Spanish Society of Angiology and Vascular Surgery.

Sol Otero, MD, PhD. Nephrology. Corporació Sanitària Parc Taulí

Ramón Roca, MD, PhD. Nephrology. Mollet Hospital. Barcelona.

Coordinator of the Vascular Access Workgroups of the Catalan and Spanish Societies of Nephrology. Council member of the *Vascular Access Society*.

Marta Santos, MD. Vascular Surgery. Corporació Sanitària Parc Taulí.

Certificate of noninvasive vascular diagnosis (CDVNI) of the Spanish Society of Angiology and Vascular Surgery.

M.Pau Valenzuela, MD. Nephrology. Corporació Sanitària Parc Taulí

Joaquim Vallespín, MD. . Vascular Surgery. Corporació Sanitària Parc Taulí

Certificate of noninvasive vascular diagnosis (CDVNI) of the Spanish Society of Angiology and Vascular Surgery.

Vascular Access Work Group of the Spanish Society of Nephrology.

Simon Van Hooland, MD. Departament of Nephrology, AZ St. Lucas. Ghent, Belgium.

Sponsored by:



General Electric

BAIRD



COVIDIEN

mindray



Rubió

SIEMENS

 SonoSite.

FUJIFILM