Organization Committee
José Ibeas, MD, PhD. Nephrology
Joaquim Vallespin. MD. Vascular Surgery
José Ramón Fortuño, MD Interventional Radiology
Hospital de Sabadell, Corporació Sanitària Parc Taulí. Sabadell, Barcelona

Sponsored by (pending):
- Catalan Society of Nephrology and its Workgroup on Vascular Access
- Spanish Society of Nephrology and its Workgroup on Vascular Access
- Catalan Society of Angiology, Vascular Surgery and Endovascular Surgery
- Spanish Society of Angiology and Vascular Surgery
- Vascular Access Society

Scientific Coordination
José Ibeas, MD, PhD.
Nephrology
Hospital de Sabadell. Corporació Sanitària Parc Taulí

Health Interest and Accreditation (pending)
Health Interest Statement by the Ministry of Health, Social Services and Equality
Accredited by:

4th THEORETICAL UPDATE AND PRACTICAL WORKSHOP IN ULTRASOUND AND MULTIDISCIPLINARY APPROACH TO VASCULAR ACCESS

April 8-9, 2014
Sabadell, Barcelona

Sponsored by (pending):
Aimed at:
Nephrologists, vascular surgeons, radiologists, and specialists in training who have some experience ultrasound for vascular access or who have completed the introductory course on ultrasound in vascular access.

Introduction and objectives
The progressive incorporation of ultrasound for early diagnosis of vascular access pathology in nephrology requires multidisciplinary teamwork shared among nephrologists, vascular surgeons, radiologists and nurses to optimize resources.

This course aims to help professionals keep their knowledge up to date and improve their practical skills in the use of ultrasound for vascular access.

Nephrologists, vascular surgeons, radiologists, and specialists in training who have some experience ultrasound for vascular access or who have completed the introductory course on ultrasound in vascular access will have the opportunity to go deeper into the subject.

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 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 tunnel creation.

Registration
To register, send an e-mail to efreixa@tauli.cat

PRICE IN EUROS (VAT not included)

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Includes:
- Course attendance, documentation CD, 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.

Cancellation:
Up to 10 days before the start of the course. 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

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

Course venue
Auditorium Taulí nou
Corporació Sanitaria Parc Taulí
Parc Taulí, 1. 08208. Sabadell
April 8

07:45 h Registration

08:00 h Welcome and opening of the course

José Ibeas-López, MD, PhD

Ejecutive 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 vascular access stenosis

Ramón Roca-Tey, MD, PhD

09:00 h From the physical principles of color-Doppler ultrasound to technical optimization.

Jana Merino-Raldúa, MD, PhD

Adaptation to vascular access hemodynamics

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 h Ultrasonography, from theory to clinical practice: tips, tricks, and a quiz

Simon van Hooland

11:00 h Coffee break

11:30 h Presurgical mapping:

Joaquim Vallespin-Aguado, MD

- Ultrasound anatomy of arterial and venous vascular tree: outline of systematic mapping
- From the morphological study to 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 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 the moderate to critical
- Diagnosis of thrombosis: identifying candidates for treatment
- Value of flow in decision making
- Mapping strategy for dysfunctional AVF puncture awaiting treatment
- The AVF with moderate stenosis: conservative management by US surveillance

- Clinical cases
- Clinical cases: Self-assessment

14:30 h Lunch

Workshop

15:30 h Simulation Lab applied to arteriovenous fistula

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

1. Pathological and Nonpathological VA

- Developing arteriovenous fistula
- Medium flow arteriovenous fistula
- High flow arteriovenous fistula
- Arteriovenous fistula stenosis
- Graft
- Aneurysms
- Deep veins

2. Presurgical mapping.

- Candidate for first AVF with vessels preserved
- Candidate for first AVF with arteriopathy
- Candidate for first AVF with poor venous bed
- Candidate for VA reconstruction
April 9

09:00 h Workshop: case-based discussion
Discussion of clinical cases and live surgery in parallel

1. Clinical cases
2. Live surgery

13:00 h Lunch

14:00 h Ultrasound-guided puncture in central vessels. Techniques and approaches
José Ibeas López, MD, PhD
- Optimizing the use of ultrasound in the puncture of central lines
- Vascular anatomy. Anatomical variants
- Ultrasound-guided puncture: different approach techniques:
  - In plane and out of plane
  - Combinations of longitudinal, transverse, and oblique approaches
- Clinical Cases

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

16:00 h Hands-on 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 short-term and tunneled catheter placement with different approaches:
  - Plane
  - Out of plane
  - Combination of transverse and oblique

19:00 h Symposium closing

Faculty

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

Mª Isabel Bolos, MD. Nephrology, Corporació Sanitària Parc Taulí.

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


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 the Nephrology Department, Corporació Sanitària Parc Taulí.


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


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


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


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