iMEP
MECHELEN•BELGIUM

DISCOVER OUR LATEST COURSES

Welcome to iMEP

Nipro's Institute for Medical Practice

Since 1954, Nipro has been a frontrunner in healthcare innovation, growing to become a leading global supplier of life-saving medical devices. Over the past seven decades, we have seen how medical breakthroughs, while welcome for patients, often require healthcare professionals to adapt rapidly to change. Trying out new techniques and adjusting day-to-day practices can be difficult in a high-stakes environment, especially when patients' lives may be at risk.

In 2018, Nipro established the Institute for Medical Practice (iMEP), a state-of-the-art, 3000 m² training facility next to Nipro's European HQ in Mechelen, Belgium. Equipped with realistic artificial arms, patient mannequins, and cutting-edge distance learning technology, iMEP provides a safe, controlled environment for healthcare professionals to gain the knowledge and skills necessary to save lives. iMEP embodies our belief that continuous learning and development enable healthcare professionals to stay at the forefront of medical practice.

Our trainings build confidence through psychological safety, mentorship, and teamwork. Specialized courses in haemodialysis, vascular access, and ultrasound encourage clinical reasoning and evidence-based best practices, ultimately leading to better patient outcomes. Our experts teach healthcare professionals the technical and decision-making skills necessary to put theory into practice immediately.

This course catalogue will provide you with more information on the program content and the knowledge and skills to be gained, for every course we offer.

We encourage you to join us and take the next step in your professional development.

Best regards,

Ben de Witte

Director, iMEP Belgium

CONTENTS

Ultrasound in Hemodialysis

THEORETICAL TRAINING

Practical experience with ultrasound is important. In addition, having a theoretical background will help one to understand how an image is generated and what can influence this image positively or negatively.

Ultrasound is an interesting field where it can be difficult to recognize and understand the generated images. This theoretical training will cover the most essential parts to make it easier to understand what you see. Generating ultrasounds and processing the echoes will result in an image. Many factors can influence this image ranging from attenuation, reflection, and reverberation to scattering. Knowing why this happens will help you to understand the image and improve, where possible, by applying the correct settings or probe adjustments.

This training will serve as a pre-learning to help you get the most out of both the fundamental and advanced ultrasound trainings.

PROGRAM CONTENT

The program focuses on the theoretical background of ultrasound. The knowledge gained will help you to understand both the fundamental and advanced ultrasound trainings.

- What is ultrasound?
- Ultrasound principles influencing the image
- The ultrasound probe
- B-mode
- Color Doppler mode

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic artificial arms at various stations. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

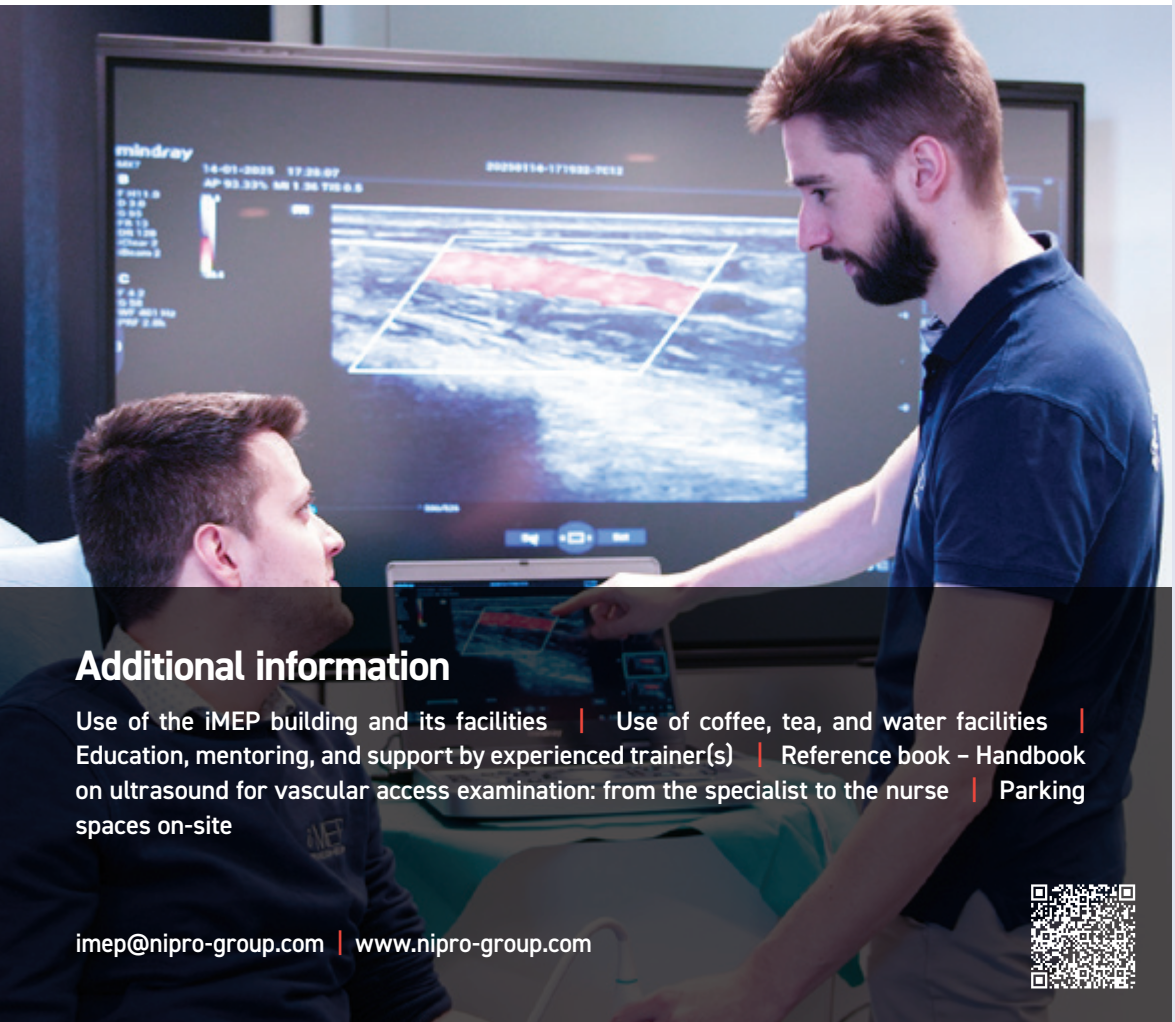
You will know...

- what an ultrasound is, how it's generated and processed
- the different principles like attenuation, reflection, scattering, reverberation, and absorption
- what an ultrasound probe is
- how to scan and position the probe
- the B-mode and how to apply the correct settings
- the color Doppler mode and why it is not a spectral Doppler mode

Who should attend?

— Dialysis nurses at all experience levels

— Dialysis nurses who are part of a vascular access team



Additional information

Use of the iMEP building and its facilities | Use of coffee, tea, and water facilities | Education, mentoring, and support by experienced trainer(s) | Reference book – Handbook on ultrasound for vascular access examination: from the specialist to the nurse | Parking spaces on-site

imep@nipro-group.com | www.nipro-group.com

Duration:

1 hour

100 €/Person

4-100 Learners

MEET OUR EXPERTS!

Niel Grumiaux
Training Manager iMEP

Natalie Maerten
Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist

Pieter Verschueren
Education Solutions Specialist

Prof. Jan Tordoir
Vascular Surgeon

Ultrasound in Hemodialysis

FUNDAMENTAL TRAINING

Practice cannulation using ultrasound in a high-tech environment with realistic arm simulators, supported by a comprehensive theoretical background.

Access to the bloodstream is essential for an effective hemodialysis session. Nurses play a vital role in the care and management of the patient's vascular access (VA). The use of ultrasound (echography) is a powerful tool in achieving a smooth and successful cannulation, no matter the difficulty (be they standard or challenging cannulations) nor the VA type (arteriovenous fistulas or grafts).

Without prior knowledge or training on the use of ultrasound during cannulation, nurses can experience stress and doubt. It is also evident that this technique is not used to its full potential. Therefore, by following a training that specifically focuses on the needs of dialysis nurses, the use of ultrasound can be transformed into a technique that makes a positive difference for nurses, patients, and hemodialysis units.

PROGRAM CONTENT

- Utility and purpose of echography (theory)
- Possibilities and handling of the echo probe (theory & practice)
- Applying different settings of the echo device (practice)
- Obtaining the desired ultrasound image (theory & practice)
- Interpreting the echo image (practice)
- Practical tips (theory & practice)
- Echo-guided cannulation on arm simulators (practice)
- Brief introduction to other applications of echography (theory & practice)
- Pre- and post-learning provided by online tools

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic artificial arms at various stations. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

You will know...

- the fundamental concepts of an ultrasound device
- the added value of ultrasound in cases of complications, such as stenosis and thrombosis

You will be able to...

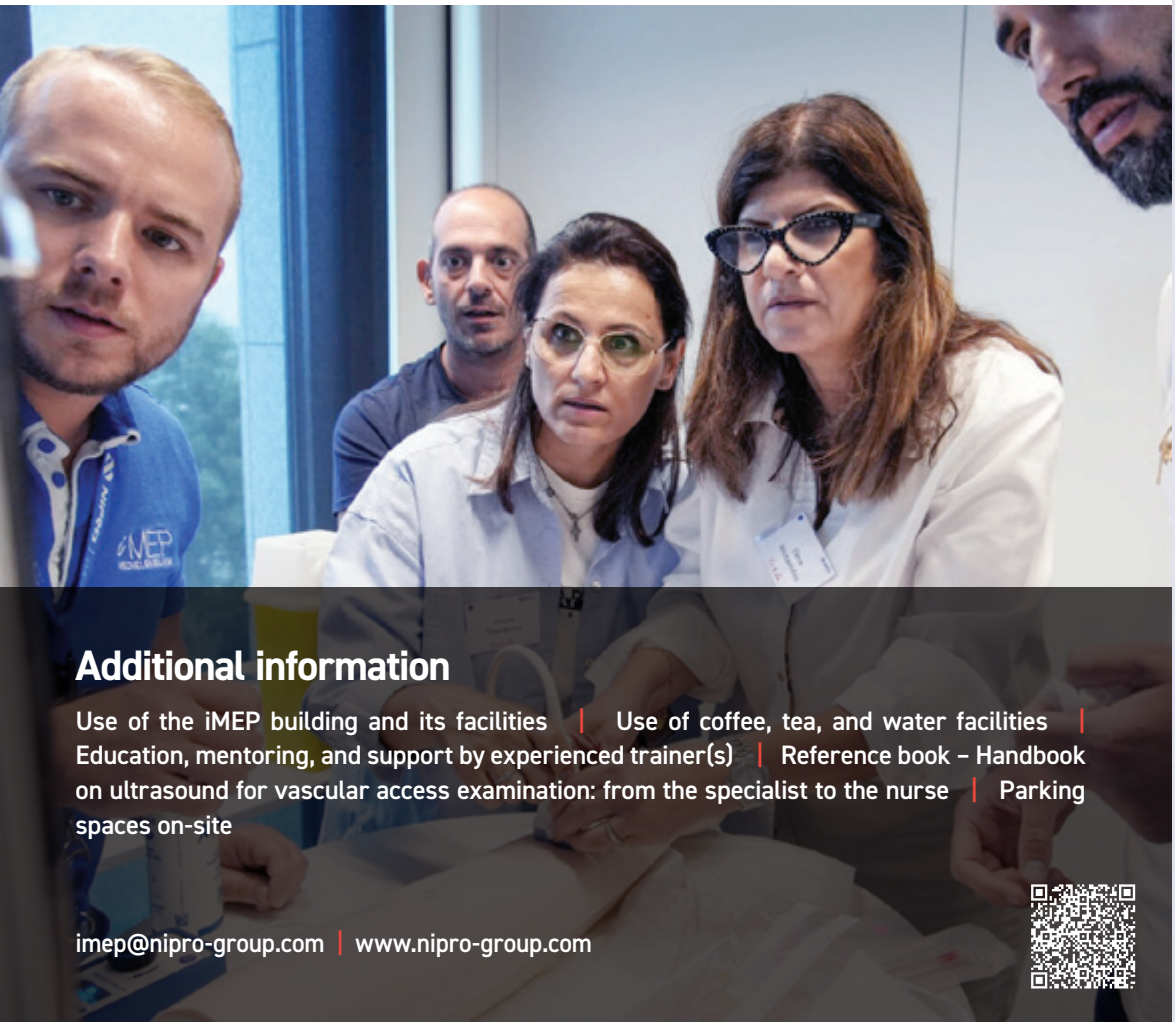
- obtain and interpret an ultrasound image of an arteriovenous fistula or graft
- use an ultrasound device while cannulating an arteriovenous fistula or graft

Who should attend?

— Novice dialysis nurses with little or no experience with ultrasound

— All nurses without dialysis experience

— Experienced nurses requiring dialysis recertification



Additional information

Use of the iMEP building and its facilities | Use of coffee, tea, and water facilities | Education, mentoring, and support by experienced trainer(s) | Reference book – Handbook on ultrasound for vascular access examination: from the specialist to the nurse | Parking spaces on-site

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Duration:

3 hours, including a short break for coffee/tea/water

250 €/Person

4-6 Learners

MEET OUR EXPERTS!

Niel Grumiaux
Training Manager iMEP

Natalie Maerten
Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist

Pieter Verschueren
Education Solutions Specialist

Prof. Jan Tordoir
Vascular Surgeon

Ultrasound in Hemodialysis

ADVANCED TRAINING

Become an echography expert with a deeper knowledge of ultrasound settings as you learn to assess AV fistula maturation, cannulate difficult AV fistulas, and discover complications using ultrasound.

While ultrasound is used in many applications, it is an especially effective tool in verifying the maturation status and ongoing condition of a patient's vascular access. Routine monitoring using echography is a means to predict possible complications and detect issues early (e.g., stenosis, thrombosis).

In addition to ultrasound's use in monitoring an AV fistula, it is especially helpful when cannulating under difficult circumstances: small diameter (<5 mm), deep placement (>5 mm), or difficult pathway (not straight, hard vessel walls, impossible to feel, etc.).

This advanced training focuses on the knowledge and skills required to use an ultrasound device in different AV fistula situations.

PROGRAM CONTENT

- All B-mode settings to create a clear image (theory and practice)
- Principles of the Doppler effect (theory)
- All color Doppler settings to create a clear image (theory and practice)
- Assessing AV fistula maturation (theory and practice)
- Vein and artery mapping (theory and practice)
- Detecting AV fistula complications using ultrasound (theory and practice)
- Anatomy exercises on own arms (practice)
- Pre- and post-learning by provided online tools

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic artificial arms at various stations. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

You will know...

- the principles of the Doppler effect
- how to map and name veins and arteries

You will be able to...

- create a clear B-mode image
- create a clear Doppler image
- assess AV fistula maturation
- detect and recognize AV fistula complications
- refer to a doctor when needed

Who should attend?

- Highly recommended for experienced dialysis nurses who already have:
  - basic knowledge and practical experience with cannulating an AV fistula
  - basic knowledge and practical experience with the use of ultrasound

Additional information

Use of the iMEP building and its facilities | Use of coffee, tea, and water facilities | Education, mentoring, and support by experienced trainer(s) | Reference book – Handbook on ultrasound for vascular access examination: from the specialist to the nurse | Parking spaces on-site

imep@nipro-group.com | www.nipro-group.com

Duration:

4 hours, including a short break for coffee/tea/water

250 €/Person

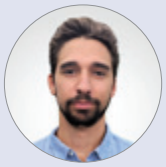
4-6 Learners

MEET OUR EXPERTS!

Niel Grumiaux
Training Manager iMEP

Natalie Maerten
Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist



Pieter Verschueren
Education Solutions Specialist

iMEP
MECHELEN•BELGIUM

Vascular Access

THEORY AND CANNULATION PRACTICE

Practice cannulation in a high-tech environment with realistic arm simulators, supported by a comprehensive theoretical background.

Access to the bloodstream is essential in achieving an effective hemodialysis session, and a successful cannulation may reduce the risk of complications during and after a dialysis treatment. However, the cannulation of an arteriovenous fistula or graft is not always easy and thus requires a combination of theoretical knowledge and hands-on practice.

In this training, participants will be able to perform cannulations in a low stress environment under the guidance of experienced trainers, using high-tech arm simulators adjusted to different difficulty levels, pulses, and blood flow rates. Department or hospital-specific rules and cultures are also considered. As a result, the training is immediately applicable in practice.

An optional training unit on recirculation measurement and/or blood flow measurement using the D.med NephroFlow™ device can be added

PROGRAM CONTENT

- What you can expect from a vascular access (theory)
- The different types of vascular access and needle insertion techniques (theory)
- How to take care of a vascular access (theory)
- Clinical examination of an AV fistula (theory)
- Cannulation techniques on different types of arm simulators (practice)
- Use of vascular access materials (practice)
- Pre- and post-learning provided by online tools

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic artificial arms at various stations. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

You will know...

- the different cannulation techniques
- the available vascular access materials and how to use them

You will be able to...

- carry out a clinical examination of an arteriovenous fistula and identify signs of complications (e.g., stenosis)
- correctly and efficiently place a needle inside an arteriovenous fistula or graft
- secure the needle appropriately to avoid dislocation

Who should attend?

— Novice dialysis nurses with less than three years of work experience

— All nurses without dialysis experience

— Experienced nurses requiring dialysis recertification

Additional information

Use of the iMEP building and its facilities | Use of coffee, tea, and water facilities | Education, mentoring, and support by experienced trainer(s) | Reference book – Handbook on ultrasound for vascular access examination: from the specialist to the nurse | Parking spaces on-site

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Duration:

2,5 hours, including a short break for coffee/tea/water

250 €/Person

4-6 Learners

MEET OUR EXPERTS!

Niel Grumiaux
Training Manager iMEP

Natalie Maerten
Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist

Pieter Verschueren
Education Solutions Specialist

Prof. Jan Tordoir
Vascular Surgeon

Vascular Access in Hemodialysis

AVF AND AVG

A vascular access comes in different forms and sizes, from native blood vessels to artificial tubing. During this training, you will have the chance to acquire deeper knowledge about different types of arteriovenous fistulas (AVF), endo-AVFs, and arteriovenous grafts (AVG), as well as how to manage them.

Vascular access is the lifeline of the patient and is essential for effective dialysis treatment. Nurses play a vital role in the care and management of the patient's vascular access.

There is no one-size-fits-all vascular access. Choosing the right vascular access is an individual approach, but it also means that nurses and doctors need to differentiate their actions according to the type of vascular access they have in front of them. This training makes it possible to recognize the type of vascular access and the different approaches it demands.

Monitoring is essential to predict possible complications. Issues, such as stenosis or thrombosis, can often be detected early on.

PROGRAM CONTENT

The program focuses on theoretical background.

- Different types of arteriovenous fistulas (AVF), endo-AVFs, and arteriovenous grafts (AVG)
- Clinical examination
- Detection of vascular access complications and how to manage them

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic artificial arms at various stations. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

You will know...

- the different types of AVFs, endo-AVFs, and AVGs
- You can perform a clinical examination
- You can detect, recognize, and manage complications

Who should attend?

— Dialysis nurses at all experience levels

— Dialysis nurses who are part of a vascular access team

Additional information

Use of the iMEP building and its facilities | Use of coffee, tea, and water facilities | Education, mentoring, and support by experienced trainer(s) | Reference book – Handbook on ultrasound for vascular access examination: from the specialist to the nurse | Parking spaces on-site

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Duration:

2 hours, including a short break for coffee/tea/water

100 €/Person

4-100 Learners

MEET OUR EXPERTS!

Niel Grumiaux
Training Manager iMEP

Natalie Maerten
Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist

Pieter Verschueren
Education Solutions Specialist

Prof. Jan Tordoir
Vascular Surgeon

The Buttonhole Technique

Want to learn the buttonhole technique and how to implement it in your department?

Implementing the buttonhole technique in your department requires a good protocol and organizational preparation. During this training, you will learn how to organize the implementation of this technique effectively.

Furthermore, the procedure to create and cannulate buttonholes is an essential aspect of the course, and will be addressed together with the possible complications and treatments.

PROGRAM CONTENT

The program focuses on both theoretical background and practical implementation. The knowledge gained is immediately usable in practice.

- Different cannulation techniques
- Indications
- Organizational implementation
- Procedure
- Tips & tricks
- Complications & treatment

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic artificial arms at various stations. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

You will know...

- the different cannulation techniques
- the guidelines and latest scientific evidence
- the different approaches to using the buttonhole technique
- the different complications and treatments

You will be able to...

- develop a suitable briefing tool
- choose a location, create, and cannulate a buttonhole
- recognize and act on complications

Who should attend?

- Dialysis nurses or doctors who want to:
  - implement the buttonhole technique in their departments
  - join or establish a vascular access team
  - refresh their knowledge of, or learn about, the buttonhole technique

Additional information

Use of the iMEP building and its facilities | Use of coffee, tea, and water facilities | Education, mentoring, and support by experienced trainer(s) | Reference book – Handbook on ultrasound for vascular access examination: from the specialist to the nurse | Parking spaces on-site

imep@nipro-group.com | www.nipro-group.com

Duration:

2 hours, including a short break for coffee/tea/water

100 €/Person

4-100 Learners

MEET OUR EXPERTS!

Niel Grumiaux
Training Manager iMEP

Natalie Maerten
Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist

Pieter Verschueren
Education Solutions Specialist

Prof. Jan Tordoir
Vascular Surgeon

Central Venous Hemodialysis Catheter Management

Learn all about central venous catheter management in a hands-on training session supported by theory.

Central venous catheters (CVCs) are commonly used for hemodialysis treatments. Many different types exist and each of them require a specific approach. That's why we provide a thorough background during this training about the different types, configurations, and insertion locations. In addition, we also cover dressing changes and complication management. With this knowledge, you will better understand the various complications that can occur and how to manage them.

Managing CVCs correctly and efficiently will improve patency and prevent complications. You will implement the acquired knowledge during a hands-on training in multiple stations including flow simulators, complication simulators, and scenario-based simulation training. In addition to offering new knowledge and skills, department- or hospital-specific rules and culture are also considered. As a result, the training is applicable in practice immediately.

PROGRAM CONTENT

Theoretical background about CVCs

- The different types of CVCs (tunneled, non-tunneled, tip and inner lumen configurations)
- Various insertion locations
- CVC materials like dressings, neutral valve connectors, ...
- CVC complications and how to manage them

Practical hands-on

- Flow simulation to recognize different types of thrombosis or fibrin sheath development
- Complication management on realistic models
- Scenario-based simulation training
- Use of CVC access materials
- Pre- and post-learning using provided online tools

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic simulators at various stations. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

You will know...

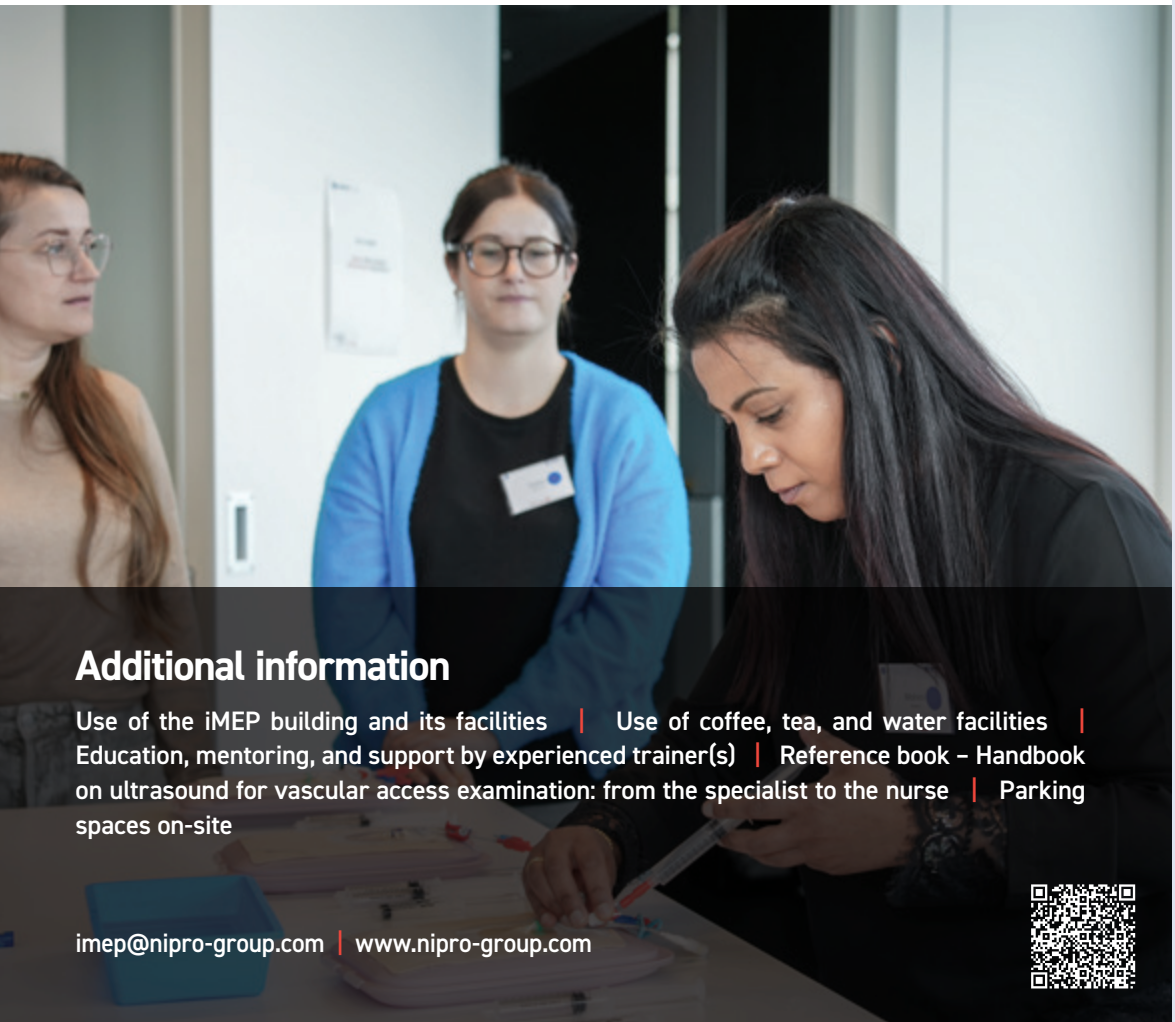
- the different types of CVCs
- the various insertion locations of a CVC
- the materials used for CVC care
- the different CVC complications
- how to use a syringe to assess the different types of flow problems
- how to recognize CVC complications and take the necessary steps

Who should attend?

— Dialysis nurses at all experience levels

— Dialysis nurses who are part of a vascular access team

— Other disciplines that come into contact with the CVC



Additional information

Use of the iMEP building and its facilities | Use of coffee, tea, and water facilities | Education, mentoring, and support by experienced trainer(s) | Reference book – Handbook on ultrasound for vascular access examination: from the specialist to the nurse | Parking spaces on-site

imep@nipro-group.com | www.nipro-group.com

Duration:

3,5 hours, including a short break for coffee/tea/water

250 €/Person

4-6 Learners

MEET OUR EXPERTS!

Niel Grumiaux
Training Manager iMEP

Natalie Maerten
Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist

Pieter Verschueren
Education Solutions Specialist

Prof. Jan Tordoir
Vascular Surgeon

Vascular Access in Haemodialysis (EDTNA-Accredited)

The EDTNA-Accredited Vascular Access in Haemodialysis Program equips healthcare providers with the knowledge and skills necessary for vascular access management.

Our comprehensive training covers essential topics such as traditional blind cannulation, ultrasound-guided cannulation, advanced ultrasound techniques, and the creation and maintenance of arteriovenous fistulas (AVF) and grafts (AVG).

Participants gain hands-on experience and learn best practices from expert instructors, ensuring they are well-prepared to provide high-quality care to haemodialysis patients.

Participants are trained in the buttonhole technique and central venous haemodialysis catheter management, with the aims of enhancing proficiency, improving patient outcomes, and reducing complications.

Participants receive an official EDTNA certificate upon completion of the training, recognizing their commitment to excellence, dedication to professional growth, and advanced capability in the field of haemodialysis. The certificate counts as 13 hours of education.

The program focuses on both theoretical background and practical implementation. The knowledge gained is immediately applicable to real-world practice.

PROGRAM CONTENT

- Blind Cannulation in Haemodialysis
- Ultrasound-guided Cannulation in Haemodialysis
- Advanced Ultrasound in Haemodialysis
- Arteriovenous Fistulas (AVF) and Arteriovenous Grafts (AVG)
- Buttonhole Technique
- Management of Central Venous Haemodialysis Catheter

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic simulators. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

Knowledge

- What is best practice for blind cannulation in hemodialysis
- What are the benefits of ultrasound-guided cannulation in hemodialysis
- What are the applications of advanced ultrasound in hemodialysis
- What are the functions of arteriovenous fistulas (AVF) and grafts (AVG)
- What are the advantages of using the buttonhole technique
- What are the protocols for managing central venous hemodialysis catheters

Skills

- How to perform blind cannulation with confidence and precision
- How to utilize ultrasound-guided cannulation for improved success rates
- How to implement advanced ultrasound techniques in your practice
- How to create and maintain arteriovenous fistulas (AVF) and grafts (AVG)
- How to implement, apply and manage the buttonhole technique
- How to manage central venous hemodialysis catheters proficiently

Who should attend?

- Dialysis nurses at all experience levels
- Dialysis nurses who are part of a vascular access team

Additional information

Use of the iMEP building and its facilities | Use of the kitchen area for refreshments | Mentoring and support from experienced trainers | On-site parking availability

imep@nipro-group.com | www.nipro-group.com

Duration:

13 hours, including a short break for coffee/tea/water

Fee: 750€/Person

4-6 Learners

MEET OUR EXPERTS!

Niel Grumiaux
Training Manager iMEP

Natalie Maerten
Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist

Pieter Verschueren
Education Solutions Specialist

Prof. Jan Tordoir
Vascular Surgeon

Crisis Resource Management

NON-TECHNICAL SKILLS FOR EFFECTIVE TEAMWORK

Learn the principles of Crisis Resource Management (CRM), which refers to the non-technical skills required for effective teamwork, in order to improve performance and reduce errors.

The most common root causes of unanticipated events in healthcare are human factors, leadership, and communication.[1] Furthermore, a review noted empirical evidence linking positive teamwork behavior with positive clinical patient outcomes, and its inverse – negative teamwork behavior with negative clinical patient outcomes.[2]

Crisis Resource Management is relevant to all healthcare professionals, regardless of experience or specialization. iMEP is proud to offer non-technical skills training in CRM, which is equally important as learning technical skills, especially for dynamic decision-making, interpersonal behavior, and team management – in both critical and non-critical situations.

PROGRAM CONTENT

Crisis Recourse Management (theory)

- Know the environment
- Anticipate and plan
- Call for help early
- Exercise leadership and followership
- Distribute the workload
- Mobilize all available resources
- Communicate effectively
- Use all available information
- Prevent and manage fixation errors
- Cross-check (double-check)
- Use cognitive aids
- Re-evaluate repeatedly
- Use good teamwork
- Allocate attention wisely
- Set priorities dynamically

Team Exercise Debriefing (practice)

- Discuss what went well
- Discuss what can be improved next time using the principles of CRM
- Discuss how to apply the skills learned in daily clinical activities

We practice what we preach!

During the training, you will be able to put theory into practice and enhance your knowledge and skills through micro simulations and gamification. We will consider each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

You will be able to...

- understand the principles of CRM
- identify the importance and relevance of non-technical skills
- enhance team dynamics by applying the principles of CRM in practice

Duration:

2 hours, including a short break for coffee/tea/water

250 €/Person

4-16 Learners

Who should attend?

- **Healthcare providers from all fields:**
  - who want to develop and enhance your non-technical skills for improving teamwork
  - who want to improve communication within your team
  - who want to learn effective leadership
- **Students who will become healthcare providers**

1. The Joint Commission International. (2015). Human Factors Analysis in Patient Safety Systems. The Source. Volume 13, Issue 4. pp.7
2. Ivetee Motola, Luke A. Devine, Hyun Soo Chung, John E. Sullivan & S. Barry Issenberg (2013). Simulation in healthcare education: A best evidence practical guide. AMEE Guide No. 82, e1511.

Additional information

Use of the iMEP building and its facilities | Use of coffee, tea, and water facilities | Education, mentoring, and support by experienced trainer(s) | Reference book – Handbook on ultrasound for vascular access examination: from the specialist to the nurse | Parking spaces on-site

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Training Manager iMEP

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Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist

Pieter Verschueren
Education Solutions Specialist

Prof. Jan Tordoir
Vascular Surgeon

Scenario-based Simulation Training

INTRA-HEMODIALYTIC SCENARIOS FOR TEAMS

Enhance skills and teamwork as you engage in highly realistic dialysis simulations in a safe learning environment.

It is important to regularly practice scenarios involving intra-hemodialytic critical situations in order to properly manage the actual events in a clinical setting.

Scenario-based simulation training is an effective and unique way of gaining knowledge, practicing skills, and achieving confidence, all while practicing the critical event protocols of your specific dialysis unit.[1,2] You will learn with high-fidelity mannequins that simulate real patients, allowing your team to make errors, which then become learning opportunities. Thus, both patient safety and the psychological safety of learners are maintained.

A prerequisite for this training is "Crisis Resource Management", which will allow your team to understand the non-technical skills required for effective teamwork, such as communication, leadership, dynamic decision-making, co-operation, and situation awareness skills. Non-technical skills are as important as technical skills, since the most common root causes of incidents in healthcare are human factors, leadership, and communication.[3]

Multifaceted learning!

Volunteers in your team will engage in the intra-hemodialytic scenario while the remaining team members observe the simulation session in a different room. Afterwards, all participants meet together to discuss what went well and what can be improved next time, using the principles of Crisis Resource Management. This peer-learning debrief session is a crucial moment of learning and is facilitated by professional trainers.

PROGRAM CONTENT

- Familiarization with patient simulator and simulation rules (theory and practice)
- Simulation session (practice)

  2-3 learners: *actors in the scenario*

  Other learners: *observers of the simulation session*

  A suitable scenario will be selected according to the different working experiences of the team (a mixed level of experience is also effective)
- Debriefing session in a team setting (practice)

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic artificial arms at various stations. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

You will be able to...

- apply the principles of Crisis Resource Management in simulated intra-hemodialytic critical events
- enhance teamwork and communication in a clinical setting (non-technical skills)
- present opportunities to use clinical reasoning specific to the team's own dialysis unit protocols (technical skills)
- understand what knowledge, skills, and attitudes should be improved through one's own experience
- increase confidence during intra-hemodialytic critical events

Who should attend?

- Dialysis nurses of all experience levels
- The level of difficulty of the scenario will be adjusted according to your team's working experiences
  - Nurses who want to develop and enhance their cognitive, technical, and non-technical skills to an advanced level to lead a nursing team
- Experienced nurses requiring dialysis recertification

Prerequisite

All participants must have already completed the training "Crisis Resource Management" in order to practice and apply its principles in the simulation session

1. McGaghie et al. (2011). Does Simulation-based Medical Education with Deliberate Practice Yield Better Results than Traditional Clinical Education? A Meta-Analytic Comparative Review of the Evidence. Academic Medicine. 86(6): 706–711.
2. Wayne DB, Didwania A, Feinglass J, et al. (2008). Simulation-based education improves quality of care during cardiac arrest team responses at an academic teaching hospital: a case-control study. CHEST. 133:56–61.
3. The Joint Commission. (2015). Human Factors Analysis in Patient Safety Systems. The Source. Volume 13, Issue 4. pp.7

Additional information

Use of the iMEP building and its facilities | Use of coffee, tea, and water facilities | Education, mentoring, and support by experienced trainer(s) | Reference book – Handbook on ultrasound for vascular access examination: from the specialist to the nurse | Parking spaces on-site

imep@nipro-group.com | www.nipro-group.com

Duration:

2 hours, including a short break for coffee/tea/water

Fee: 250€/Person

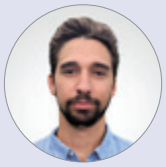
4-8 Learners

MEET OUR EXPERTS!

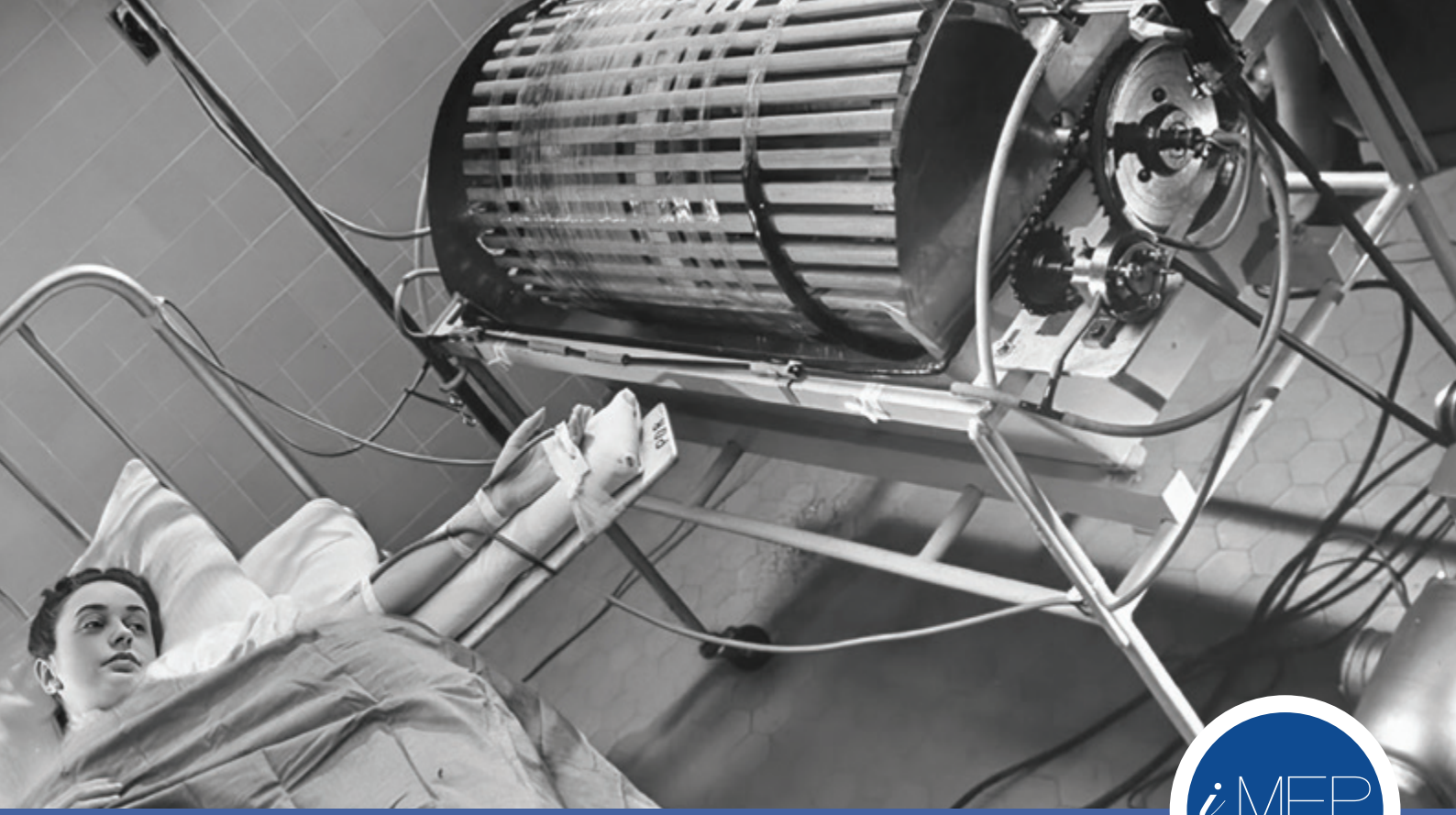
Niel Grumiaux
Training Manager iMEP

Natalie Maerten
Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist



Pieter Verschueren
Education Solutions Specialist



Evolution of Haemodialysis

Our Evolution of Haemodialysis course introduces participants to the people, the moments, and the innovations that have laid the groundwork for modern haemodialysis (HD).

This course takes participants on a journey from 1500 BCE to 2030 CE, exploring the fascinating history of dialysis care through an engaging presentation and interactive Q&A session by our experienced trainers at iMEP.

Discover how early challenges have paved the way for creative breakthroughs such as innovations to vascular access and the miracle of the artificial kidney.

Participants in the course get a sneak peek into the future of dialysis treatment and potential cures for chronic kidney failure (CKD).

This course equips participants with fun facts and intriguing tales they can use to get their patients more invested in the lore behind haemodialysis machine that, unknown to its inventors and innovators, would be used today to save that person's life.

PROGRAM CONTENT

- From Concept to Machine: Foundations, Ideas, Materials, and Techniques of Dialysis
- The Dialysis Innovation Timeline: 1500 BCE to 2030 CE
- Developments Redefining the Future of Haemodialysis

We practice what we preach!

During the training, you will be able to transform theory into practice and work on your knowledge and skills in an engaging way. We will bear in mind each participant's level of experience. The interactive nature of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

Knowledge

- What are the medical principles and material science behind haemodialysis
- Where was dialysis technology first conceived and who made it possible
- How has our understanding of chronic kidney disease (CKD) evolved over millennia
- How did dialysis terminology and practice enter the medical world
- Who invented the artificial kidney and how was it improved for patient treatments
- What are innovators doing today to improve future treatments for CKD

Skills

- How to answer the deeper questions of engaged and curious patients
- How to get patients invested in their care through the power of storytelling

Who should attend?

- All healthcare providers working in haemodialysis
- Those who want a little more depth to their knowledge of haemodialysis
- Individuals interested in how the current standard dialyzer was developed
- Individuals interested in trends influencing the future of treatment

Additional information

Use of the iMEP building and facilities | Use of the kitchen area for refreshments | Mentoring and support from experienced trainers | On-site parking availability

imep@nipro-group.com | www.nipro-group.com

Duration:

2 hours, including a short break for coffee/tea/water

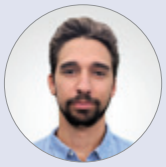
Fee: 100€/Person

4-100 Learners

MEET OUR EXPERT!

Natalie Maerten
Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist



Pieter Verschueren
Education Solutions Specialist

Fundamentals of Haemodialysis

Our Fundamentals of Haemodialysis course covers kidney function, chronic kidney disease (CKD), and haemodialysis (HD), the most common treatment for patients with CKD. The course provides an accessible, interactive, fun, and hopeful perspective on the diagnosis and treatment of CKD. Understanding the impact of CKD is fundamental in providing patients and their families with effective care and guidance.

The course covers the fundamental aspects of the kidney, including its anatomy and function, followed by the diagnosis and treatment of chronic kidney disease (CKD).

Participants are educated on the basic principles of haemodialysis treatment for CKD, covering the essential components of treatment, from pure water, acid concentrates, dialysate fluid, and dialyzer membranes, to the dialysis machine itself.

We cover how blood is purified in the dialyzer and explore various therapies, applying principles like diffusion, osmosis, ultrafiltration, and convection to modern dialysis sessions.

We discuss the effectiveness of dialysis therapy, the potential complications, and the allergic reactions that may occur during treatment.

This comprehensive approach will equip you with the knowledge to manage and optimize dialysis therapy effectively.

The program focuses on both theoretical background and practical understanding.

The training combines presentations and practical demonstrations.

PROGRAM CONTENT

Chronic Kidney Disease (CKD)

- Anatomy and Function of the Kidney
- Chronic Kidney Disease (CKD) and End-Stage Renal Failure (ESRF)
- Causes, Symptoms, Diagnosis, and Treatment for CKD

Haemodialysis (HD)

- Prescriptions and Requirements for Treatment
- Toxins and Water in the Human Body
- Principles and Goals of Dialysis
- Dialysis in Practice
- Understanding the Dialyzer, Pure Water, and Dialysate

Efficacy and Challenges

- Measuring the Effectiveness of Haemodialysis
- Complications during Haemodialysis Treatment
- Allergic Reactions

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by fun and engaging demonstrations. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

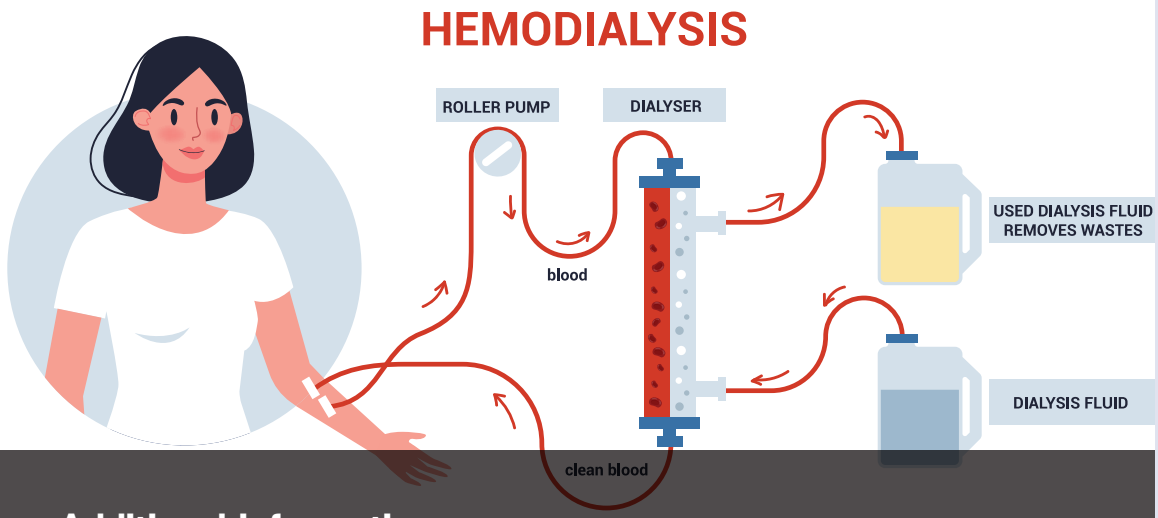
What will you gain?

Knowledge

- How can the dialyzer emulate human kidney function
- What are the early and later stage symptoms of kidney failure
- How is CKD diagnosed and what are the classifications of CKD
- What are the treatment options for end-stage kidney failure
- What are the basic principles of haemodialysis
- How are toxins moved out of the body and through the dialyzer
- How are haemodialysis principles applied in practice
- How is the efficacy of haemodialysis assessed

Who should attend?

- Students in the healthcare profession
- Nurses and other professionals new to dialysis
- Individuals who want to expand their knowledge about dialysis



Additional information

Use of the iMEP building and facilities | Use of kitchen area for refreshments | Mentoring and support from experienced trainers | On-site parking availability

imep@nipro-group.com | www.nipro-group.com

Duration:

2 hours, including a short break for coffee/tea/water

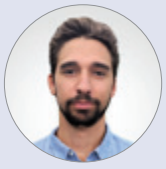
Fee: 100€/Person

4-100 Learners

MEET OUR EXPERT!

Natalie Maerten
Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist



Pieter Verschueren
Education Solutions Specialist

Mini Dialyzer Workshop

HANDS-ON ACTIVITY

Make your own miniature dialyzer and discover the important role it plays in hemodialysis.

Hemodialysis is a complex and vital treatment prescribed only by a nephrologist. Many important factors and components must be considered in the dialysis prescription, including the dialyzer. There are many different dialyzers to choose from, with variations in size, type, material, and other technical specifications – which is why a nephrologist must choose the one that is best suited for the type of therapy needed, as well as the patient's unique physiology and condition.

Some might consider a dialyzer to be "simply" a disposable or consumable. In reality, it is a piece of engineering artwork that offers life and makes it possible for patients to survive their renal condition. This is why we offer a detailed look at the art of creating a dialyzer.

PROGRAM CONTENT

- Understand the history and production process of a dialyzer (theory)
- Create your own personal mini dialyzer (workshop)

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by making your own miniature dialyzer. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

You will know...

- the history of dialyzers
- the mechanisms of a dialyzer
- the concept of dialyzer surfaces

You will be able to...

- create a mini-dialyzer and, because of this, know the process of creating a real dialyzer

Who should attend?

— Dialysis nurses at all experience levels

— Students who are interested in the field of hemodialysis

Duration:

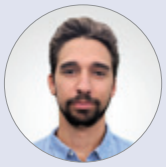
1,5 hours, including a short break for coffee/tea/water

4-6 Learners

MEET OUR EXPERTS!

Natalie Maerten
Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist



Pieter Verschueren
Education Solutions Specialist

Additional information

Use of the iMEP building and its facilities | Use of coffee, tea, and water facilities | Education, mentoring, and support by experienced trainer(s) | Reference book – Handbook on ultrasound for vascular access examination: from the specialist to the nurse | Parking spaces on-site

imep@nipro-group.com | www.nipro-group.com

Nurse Training Program (2-Day)

Each session of our 2-day training program is dynamic and tailored to meet the unique needs of participants. The program blends scenario-based simulations with specialized trainings in vascular access and haemodialysis for a comprehensive education.

Designed with flexibility in mind, these sessions allow for a customized training experience that aligns perfectly with your requirements.

Scenario-based simulations and crisis resource management make up the first half of the training, with the other half focusing on specialized topics, such as vascular access or haemodialysis, for a practical and hands-on education.

Explore the rest of our catalog to discover the diverse training options available to build your ideal program.

This program focuses on both theoretical background and practical implementation. The knowledge gained is immediately usable in practice

PROGRAM CONTENT

- Theoretical Presentations
- Hands-on Practical Training
- Simulation Training with Debriefing
- Access to E-learning Courses

We practice what we preach!

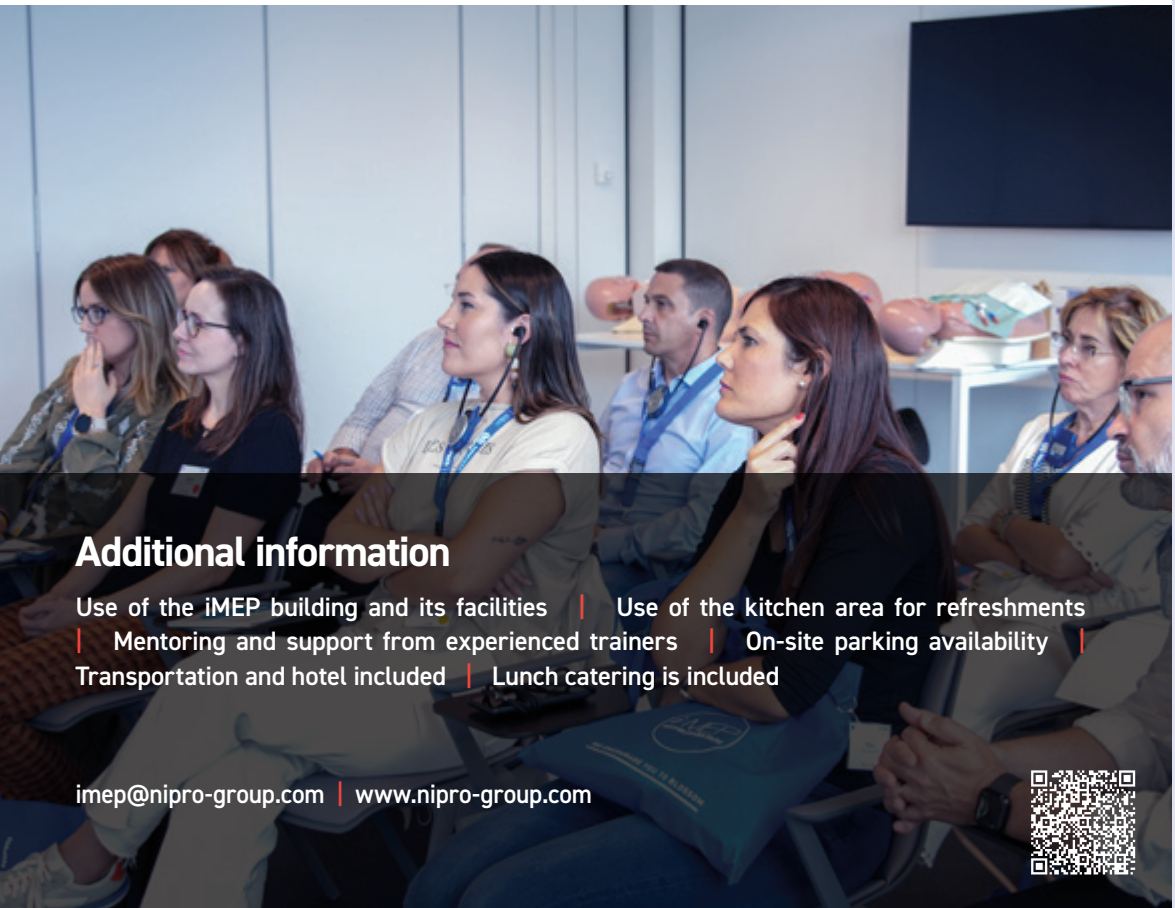
During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic simulators. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

- **CUSTOMIZED LEARNING EXPERIENCE:** Benefit from a program tailored to your specific needs, ensuring relevance and applicability.
- **HANDS-ON PRACTICE:** Engage in scenario-based simulations that provide practical knowledge.
- **CRISIS RESOURCE MANAGEMENT SKILLS:** Learn to effectively manage team dynamics, communication, and resources during high-pressure situations.
- **SPECIALIZED KNOWLEDGE:** Gain an in-depth understanding of specialized topics such as vascular access and hemodialysis.
- **ENHANCED COMPETENCE:** Improve proficiency and confidence while handling complex situations in your field.

Who should attend?

- Nurses active in hemodialysis
- Suitable for all levels of expertise and experience
  - — Beginners refreshing their foundational knowledge
  - — Professionals building up specialized skillsets



Additional information

Use of the iMEP building and its facilities | Use of the kitchen area for refreshments | Mentoring and support from experienced trainers | On-site parking availability | Transportation and hotel included | Lunch catering is included

imep@nipro-group.com | www.nipro-group.com

Duration:

2 days, including a short break for coffee/tea/water

Fee: 850€/Person

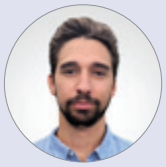
16 Learners

MEET OUR EXPERTS!

Niel Grumiaux
Training Manager iMEP

Natalie Maerten
Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist



Pieter Verschueren
Education Solutions Specialist

Basic Life Support

Our Basic Life Support (BLS) Training Program provides healthcare professionals and first responders with the knowledge and skills to respond effectively to cardiac and respiratory emergencies.

BLS covers Cardiopulmonary Resuscitation (CPR), use of the Automated External Defibrillator (AED), maintaining patient's ventilation and oxygenation (airway management), and other skills for ensuring that, in emergency situations, participants are ready and able to save lives.

Participants in our BLS Training Program will gain hands-on experience and learn best practices from instructors certified by the European Resuscitation Council (ERC).

Through a combination of theoretical knowledge and practical exercises, attendees will develop the confidence and competence needed to act swiftly and effectively in life-threatening situations.

Upon completion, participants receive an official BLS certification, recognizing their ability to provide critical care in emergencies and their commitment to maintaining high standards of patient safety.

The program teaches theoretical foundations and practical implementation, in order to gain new skills that are immediately useable in real-world emergencies.

PROGRAM CONTENT

- Early Recognition
- Cardiopulmonary Resuscitation (CPR)
- Airway Management
- Automated External Defibrillator (AED)
- Responding to Suffocation
- Introduction to In-Hospital Resuscitation (including Arrhythmia) (OPTIONAL)

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic simulators. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

Knowledge

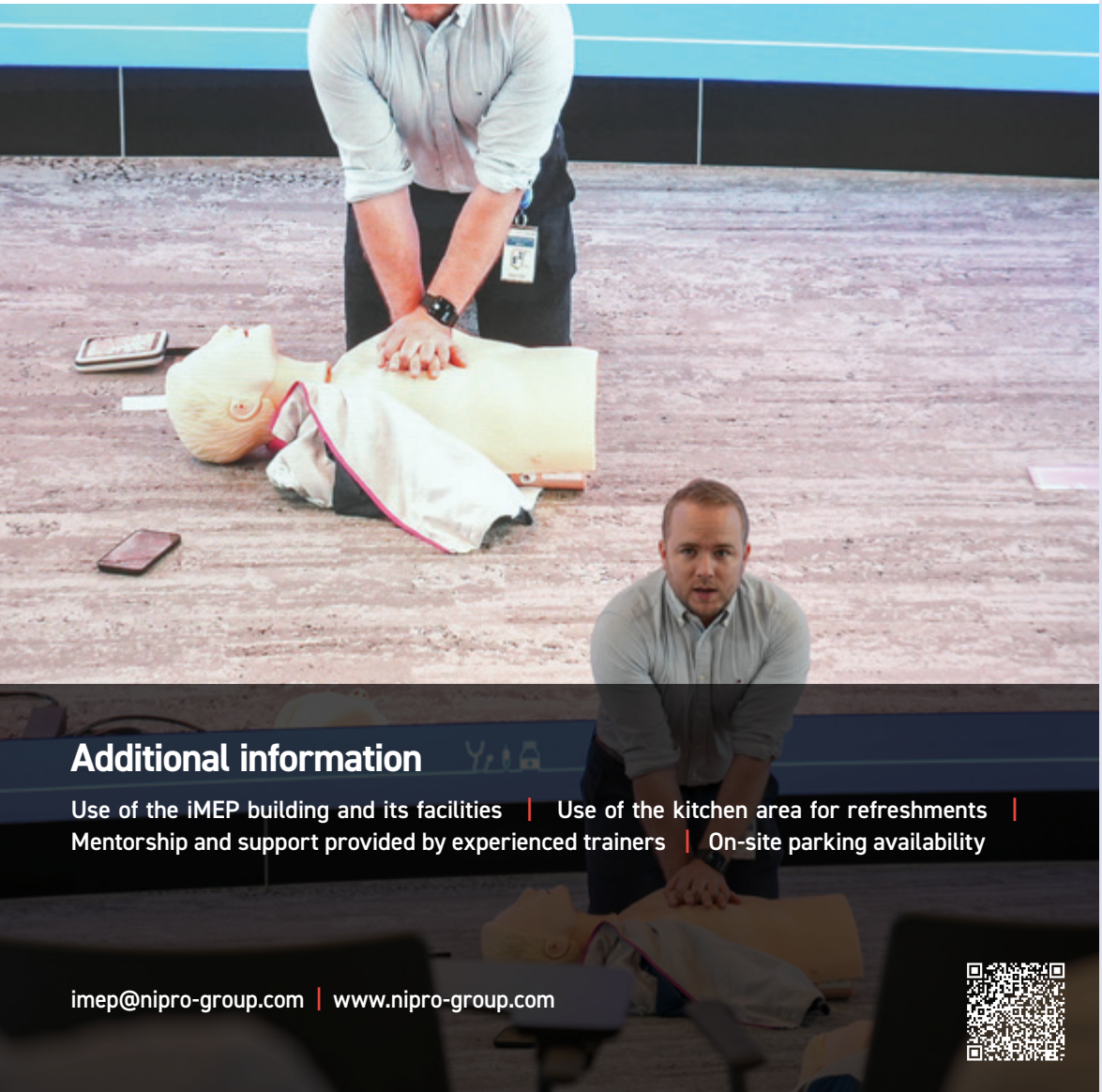
- Fundamental principles of Basic Life Support (BLS)
- When to perform Cardiopulmonary Resuscitation (CPR) (on adults)
- When to use the Automated External Defibrillator (AED)
- When to intervene in choking emergencies

Skills

- How to perform CPR correctly and confidently
- How to use an AED effectively during cardiac emergencies
- How to manage airways properly
- How to respond to choking emergencies appropriately

Who should attend?

- Health care providers
- First responders



Additional information

Use of the iMEP building and its facilities | Use of the kitchen area for refreshments | Mentorship and support provided by experienced trainers | On-site parking availability

imep@nipro-group.com | www.nipro-group.com

Duration:

4 hours, including a short break for coffee/tea/water

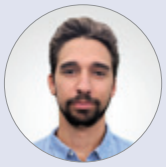
Fee: 250€/Person

3-12 Learners

MEET OUR EXPERTS!

Niel Grumiaux
Training Manager iMEP

Wouter Vandeuren
Education Solutions Specialist



Pieter Verschueren
Education Solutions Specialist

Peripheral IV Catheter Insertion

Practice cannulation in a high-tech environment with realistic arm simulators, supported by a comprehensive theoretical background. Cannulation training provides healthcare professionals with the knowledge and skills necessary to perform effective peripheral IV catheter insertion.

The training covers the fundamentals of peripheral catheters, including indications, contraindications, alternatives, vein assessment, and patient involvement.

Participants learn techniques for blind cannulation, how to handle failed attempts, relevant safety measures, maintenance of catheters, and practical tips.

The training introduces ultrasound-guided cannulation, focusing on its indications, vein assessment methods, and probe handling, and differences from blind techniques.

Practical sessions ensure hands-on application to enhance skills and confidence.

The program focuses on both theoretical background and practical implementation. The knowledge gained is immediately usable in practice.

PROGRAM CONTENT

- Peripheral IV Catheter
- Blind Cannulation
- Ultrasound-Guided Cannulation

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic simulators. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

Knowledge

- What is a peripheral IV catheter
- When to use and not to use a peripheral IV catheter
- Where are the locations for placement of a peripheral IV catheter
- What are the relevant safety measures
- What is best practice for maintenance of a peripheral IV catheter
- When to choose blind or ultrasound-guided cannulation

Skills

- How to assess veins
- How to place a peripheral IV catheter blind
- How to place a peripheral IV catheter with ultrasound guidance
- How to handle failed cannulations
- How to handle an ultrasound probe

Who should attend?

- All healthcare providers responsible for placing peripheral IV catheters

Duration:

3 hours, including a short break for coffee/tea/water

Fee: 250€/Person

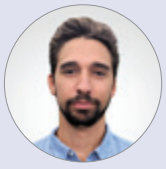
4-6 Learners

MEET OUR EXPERT!

Niel Grumiaux
Training Manager iMEP

Natalie Maerten
Education Solutions Specialist

Wouter Vandeuren
Education Solutions Specialist



Pieter Verschueren
Education Solutions Specialist

Additional information

Use of the iMEP building and its facilities | Use of the kitchen area for refreshments | Mentoring and support from an experienced trainer | On-site parking availability

imep@nipro-group.com | www.nipro-group.com

Central Venous Catheter Masterclass

Our masterclass provides each participant with a comprehensive education on indications for central vein catheter placement, followed by hands-on training in techniques for both tunnelled and non-tunnelled catheter insertion.

The masterclass gives participants valuable insights, practical knowledge, troubleshooting, and various tips and tricks you can apply immediately to your clinical practice. The workshop enhances the skills and confidence needed for haemodialysis catheter placement.

This program focuses on both theoretical background and practical implementation. The knowledge gained is immediately usable in practice.

PROGRAM CONTENT

- Types and Indications for Tunnelled and Non-Tunnelled Catheters
- Insertion Techniques
- Tips & Tricks
- Troubleshooting
- Hands-on Exercise: Tunnelled & Non-Tunnelled Catheter Insertion
- Case Presentations: Potential Problems with Central Vein Catheters

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic simulators. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

What will you gain?

Knowledge

- What are the types and indications for central venous catheters
- What are the different types of insertion techniques
- What should be done in case of complications

Skills

- How to place a non-tunneled central venous catheter
- How to place an antegrade tunneled central venous catheter
- How to place a retrograde tunneled central venous catheter

Who should attend?

- (Interventional) Nephrologists
- Interventional Radiologist
- Vascular Surgeons

Duration:

7.5 hours, including a short break for coffee/tea/water

Fee: 500€/Person

20 Learners

MEET OUR EXPERT!

Prof. Tordoir
Vascular Surgeon

Prof. Geert Maleux
Interventional Radiologist

Prof. Marcel Weijmer
Nephrologist

Additional information

Use of the iMEP building and its facilities | Use of the kitchen area for refreshments | Lunch catering is included | Mentoring and support from experienced trainers | On-site parking availability

imep@nipro-group.com | www.nipro-group.com

HD Vascular Access Creation for Doctors

Our HD Vascular Access Creation Course for Doctors covers decision-making, techniques, methods, and approaches involved in vascular surgeries related to haemodialysis (HD). The 2-day intensive course introduces doctors to strategic decision-making processes related to vascular access creation with guidance on performing access surgery using human cadavers.

The course teaches basic and advanced operative techniques for vascular access (VA) creation and complication management, including the common types of AVF and AVG for which each patient is eligible. Lectures and case discussions cover vascular anatomy, types of vascular access, and access complication treatment.

The course provides participants with the knowledge necessary to determine the most optimal vascular access for each patient and the skills to achieve low complication rates in terms of short-term and long-term functioning.

The theory of vascular access creation and complication management are covered on day one. Discussion of patient cases bring these subjects into real-world context.

The techniques for common AVF and AVG are covered on day two, following by a practical training on human cadavers. The program focuses on both theoretical background and practical implementation. The knowledge gained is immediately usable in practice.

PROGRAM CONTENT

- Upper Extremity Vascular Anatomy
- Ultrasound-Imaging of Upper Extremity Vessels
- Arteriovenous Fistulas (AVF)
- Arteriovenous Grafts (AVG)
- Central Vein Catheter
- Central Vein Obstruction
- Stenosis & Thrombosis in Vascular Access
- Aneurysm Management
- Complication Management
- Ischemia
- Strategy For Surgical Planning & Complication Management (Case Discussion)
- Forearm/Elbow Vascular Access (Technical Aspects)
- Upper Arm Vascular Access (Technical Aspects)

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic simulators and human cadavers. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

Workshops

- Central Vein Catheter Insertion
- Upper Extremity Vessel Mapping
- Forearm Loop AVG
- Brachio-Cubital AVF
- Brachio-Basilic Transposed AVF
- DRIL Procedure

Who should attend?

- Vascular surgeons

What will you gain?

Knowledge

- What vascular anatomy is relevant for the upper extremity
- What are the techniques for ultrasound imaging of upper extremity vessels
- What are arteriovenous fistulas (AVF) and arteriovenous grafts (AVG)
- How are central vein catheters used and managed
- How can vascular access stenosis and thrombosis be strategically addressed
- What are the methods for managing aneurysms and ischemia
- How can a central vein obstruction be approached and handled
- What is important for surgical planning and complication management
- What are the technical aspects to forearm/elbow, upper arm, and thorax vascular access
- What techniques are involved in complication management

Skills

- How to insert a central vein catheter
- How to map upper extremity vessels
- How to place forearm loop AVGs
- How to create brachio-cubital AVFs
- How to execute brachio-basilic transposed AVFs
- How to conduct the DRIL procedure

Duration:

2 days, including a short break for coffee/tea/water

Fee: 550€/Person

18 Learners

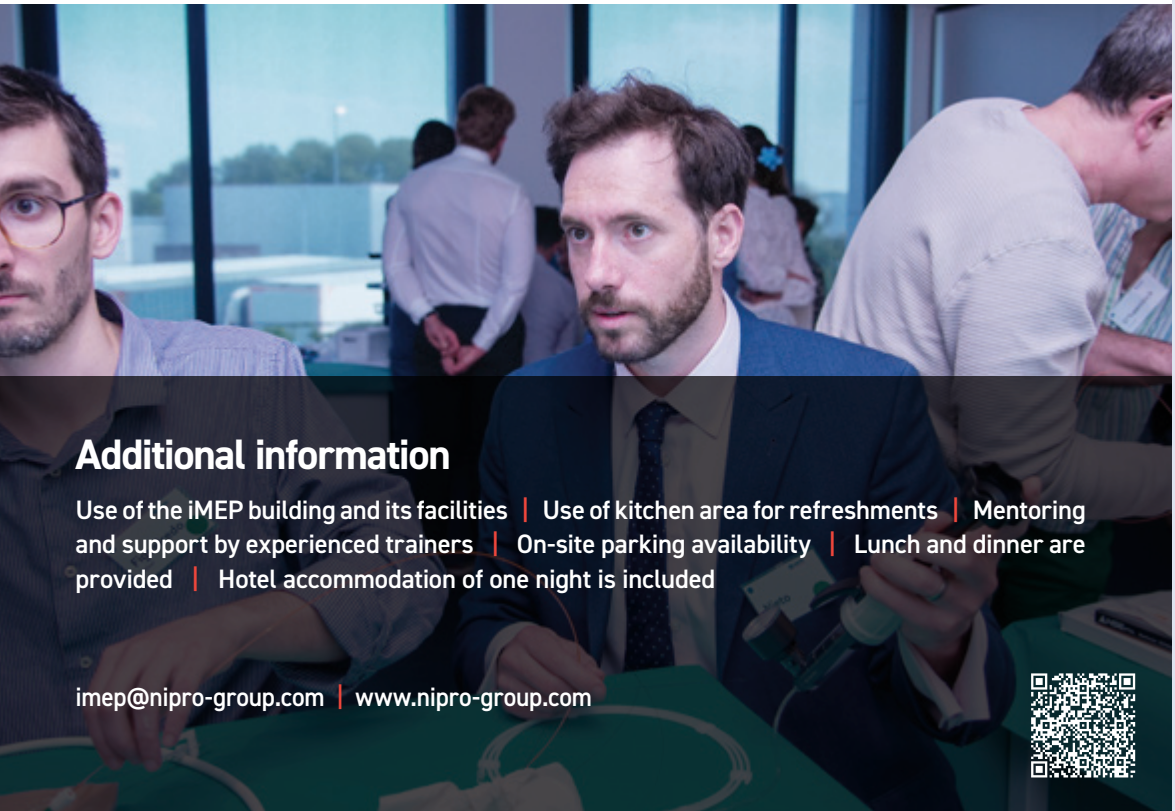
MEET OUR EXPERT!

Prof. Tordoir
Vascular Surgeon

Prof. Widmer
Vascular surgeon

Dr. Nauwelaers
Vascular surgeon

Dr. D'Haeninck
Vascular surgeon



Additional information

Use of the iMEP building and its facilities | Use of kitchen area for refreshments | Mentoring and support by experienced trainers | On-site parking availability | Lunch and dinner are provided | Hotel accommodation of one night is included

imep@nipro-group.com | www.nipro-group.com

HD Vascular Access Radiology and Ultrasound Intervention Course

Our HD Vascular Access Radiology and Ultrasound Intervention Course provides participants with practice in percutaneous transluminal angioplasty and stenting, as well as preoperative vessel mapping and duplex scanning of vascular access in haemodialysis (HD).

Expertise in fluoroscopic and ultrasound-guided interventions for vascular access in haemodialysis prepares participates with the skills needed to address dysfunctional arteriovenous fistulas (AVF).

In this course, we familiarize participants with the decision-making process for vascular access interventions and enhance their technical skills in access preservation.

Lectures and case discussions educate participants in vascular anatomy, indications for endovascular interventions, and the treatment of access complications.

The program focuses on both theoretical background and practical implementation. The knowledge gained is immediately usable in practice.

PROGRAM CONTENT

- Indications for Endovascular Vascular Access Intervention
- Ultrasound Imaging of Complicated Vascular Access
- Interventions for Stenosis & Thrombosis in AVF and AVG
- Patient Case Discussion

We practice what we preach!

During the training, you will be able to put theory into practice and work on your knowledge and skills by training on realistic simulators, including a fully functional cath lab environment. We will bear in mind each participant's level of experience. The chronological transition of the training ensures that the knowledge acquired can be immediately put into practice.

Workshops

- Ultrasound-Guided PTA & Stent Placement on Model
- Preop Vessel Assessment
- Endovascular Fluoroscopic Intervention on Model

What will you gain?

Knowledge

- What are the indications for endovascular interventions
- What can be done about complicated vascular accesses, stenosis, and thrombosis

Skills

- How to perform a preoperative vessel assessment
- How to perform an ultrasound guided PTA and stent placement
- How to perform an endovascular fluoroscopic intervention

Who should attend?

- (Interventional) Nephrologists
- Interventional Radiologist
- Vascular Surgeons

Duration:

7.5 hours, including a short break for coffee/tea/water

Fee: 500€/Person

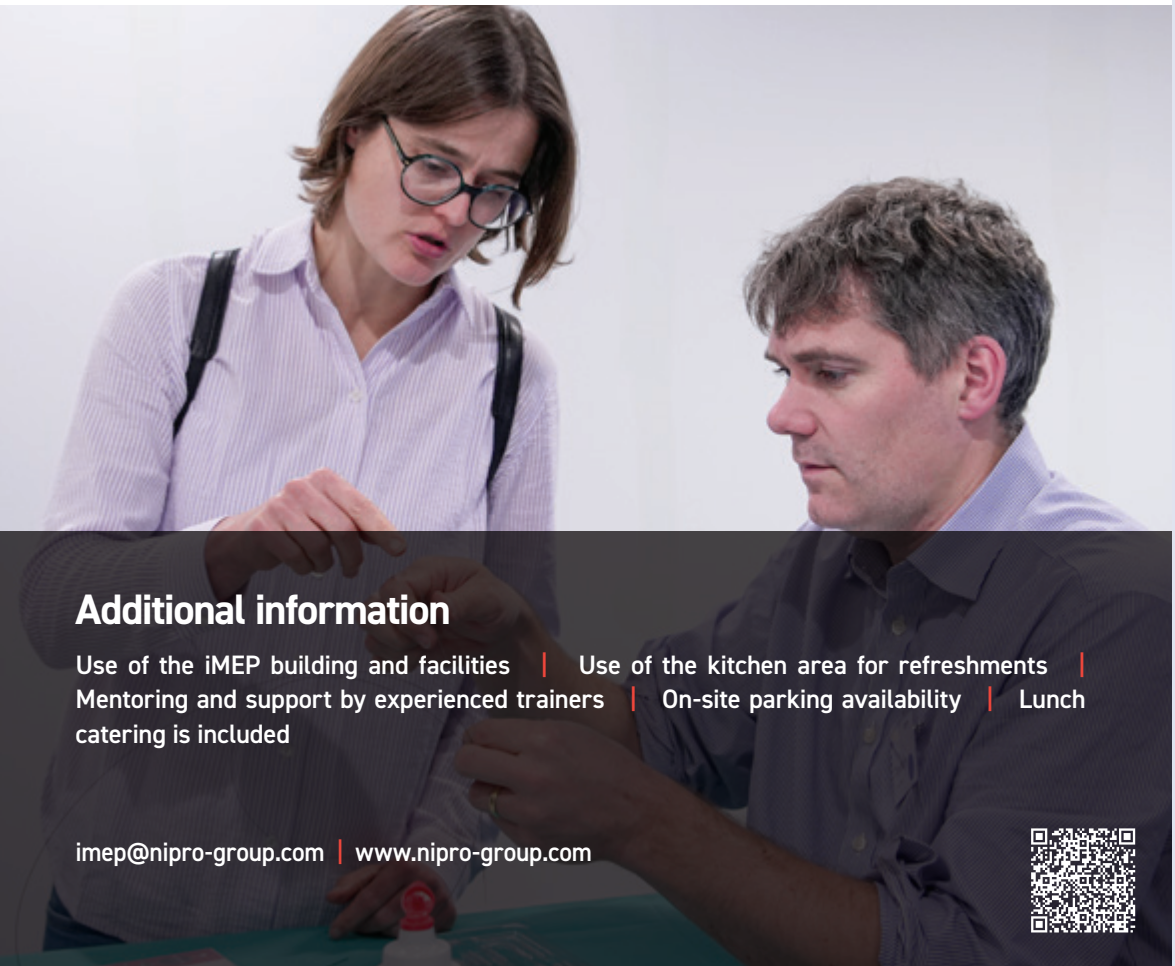
15 Learners

MEET OUR EXPERT!

Prof. Tordoir
Vascular Surgeon

Prof. Geert Maleux
Interventional Radiologist

Dr. D'Haeninck
Vascular surgeon



Additional information

Use of the iMEP building and facilities | Use of the kitchen area for refreshments | Mentoring and support by experienced trainers | On-site parking availability | Lunch catering is included

imep@nipro-group.com | www.nipro-group.com

Notes

Notes








MM-4421 - iMEP Training Catalog - 07Apr 2025

Nipro iMEP Belgium

Blokhuisstraat 40, 2800 Mechelen, Belgium | T: +32 (0)15 263 500 | F: +32 (0)15 263 510 | imep@nipro-group.com | www.nipro-imep.com