



# EVF-Servier Hands-on Workshop on Venous Disease

28-29 March 2014, Tbilisi, Georgia



Organised by European Venous Forum in collaboration with Servier

Radisson Blu Iveria Hotel,  
Rose Revolution Square 1, Tbilisi, Georgia

## Directors:

Bo Eklöf  
Peter Neglén  
Andrew Nicolaides



At the forefront of research  
and education in phlebology  
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The meeting is accredited by the  
Ministry of Labour, Health and  
Social Security of Georgia

## The development of the European Venous Forum Hands-on Workshops (EVF HOW)

We tested the principle of hands-on workshops at a meeting organized onboard MS Trollfjord along Hurtigruten on the Norwegian westcoast in 2007. It was successful so we decided to organize the 1<sup>st</sup> EVF HOW on Cyprus in October 2010 as an educational arm of the EVF. Directors for the EVF HOW has been Bo Eklöf, Peter Neglén and Andrew Nicolaides from the start. The 2<sup>nd</sup> EVF HOW was localized in Vienna, the 3<sup>rd</sup> back to Cyprus and the 4<sup>th</sup> was organized in Stockholm.



Fig 1. Delegates practicing on a tubular model



Fig 2. Delegates practising on each other

The 4<sup>th</sup> EVF HOW was organized at the Marina Tower, Elite hotel in Stockholm, Sweden during three days 31 October – 2 November last year. The Workshop provided a unique comprehensive program focused on hands-on learning and was greatly appreciated by delegates. The primary reason given for attendance by the delegates was to update overall knowledge about venous disease and its treatment (62%), to learn particular techniques (22%) or to be introduced to venous disease (13%). In an assessment after the course, the overwhelming majority of the delegates indicated that EVF HOW met their expectations (99%) and that the course will make them change their venous practice in the future (95%). These results were especially gratifying for the organizing committee and the European Venous Forum since the purpose of the creation of the EVF HOW was to fulfill a need for a structured comprehensive hands-on workshop for physicians interested in venous disease. The goal was not only to provide understanding of modern practical management, but also for the delegates to learn hands-on individual procedures to treat venous disease. It appears that EVF has achieved this.

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majority of the delegates indicated that EVF HOW met their expectations (99%) and that the course will make them change their venous practice in the future (95%). These results were especially gratifying for the organizing committee and the European Venous Forum since the purpose of the creation of the EVF HOW was to fulfill a need for a structured comprehensive hands-on workshop for physicians interested in venous disease. The goal was not only to provide understanding of modern practical management, but also for the delegates to learn hands-on individual procedures to treat venous disease. It appears that EVF has achieved this.



Fig 3. Practicing on a phantom leg



Fig. 4. Practicing on a computerized simulator

Half of the delegates were vascular surgeons followed by other specialties such as interventional radiology, phlebology, angiology, cardiology and dermatology.

Although the EVF HOW was created mainly for Europe, it has attracted international attention with representation from all over the world (54% - Western Europe, 20% - Eastern Europe, 12% - Middle East, 4% - Asia and 10% - Africa, South America, USA and Australia). Thus, the concept of the EVF HOW (Hands-on Workshop on Venous Disease) has been well received internationally.



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## Organising Committee

Mamuka Bokuchava  
Natalia Javrishvili  
Zaza Lazarashvili  
Zaur Nonikashvili

## Faculty

Gareth Bate • Stephen Black • Vadim Bogachev • Mamuka Bokuchava  
Andrew Bradbury • Bo Eklöf • Maura Griffin • Julian Hague • Marzia Lugli  
Peter Neglén • Olle Nelzén • Andrew Nicolaides • Hugo Partsch  
Michel Perrin • Djordje Radak • Ravi Singh-Ranger  
Evgeny Shaydakov • Iain Wilson



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## Directors:



**Bo Eklöf, MD, PhD**  
Emeritus Professor of Surgery,  
University of Hawaii, USA  
Past President, American Venous  
Forum, University of Lund, Sweden

Dr Bo Eklöf is a graduate of the Lund University in Sweden. He was chief for vascular surgery at the university hospital in Lund 1973-1978. Chairman department of surgery at Helsingborg hospital 1978-1981. He was professor and chairman of the Department of Surgery at Kuwait University between 1981 and 1990. Since 1991 he worked as a vascular surgeon at the Straub Clinic and Hospital in Honolulu, Hawaii, USA where he was the Head of the Vascular Center between 1998 and 2003. He was Medical director for Straub Foundation and Clinical professor of surgery at the university of Hawaii 1992-2003.

Professor Eklöf's work was focused on several areas including brain ischemia, metabolic consequences of aortic clamping, prevention and treatment of venous thromboembolism, air-travel related venous thromboembolism and classification of chronic venous disease.

He is the author of more than 250 papers in peer-reviewed journals with 40 book chapters and 460 presentations. He was the president of the American Venous Forum (AVF) between 2005 and 2006.

Between 1994 and 2002, he was awarded the Distinguished Hospital Award of the Straub Clinic and Hospital several times, the Annual resident's Teaching Award of the University of Hawaii, and the Straub Award.

He has been a member of several guideline committees for the Society for Vascular Surgery and the AVF, as well as the EVF. He is responsible for organization of the EVF Hands-on Workshops (EVF HOW) together with Peter Neglén since its start in 2010.



**Peter Neglén, MD, PhD**  
Vascular Surgeon, SP Vascular  
Center Limassol, Cyprus

Dr Peter Neglén received his medical degree at University of Lund, Sweden in 1974. After completing his internship, he continued with Residency in General Surgery at the University of Lund. His subspecialty training focused on vascular surgery. It was at that time obligatory to perform in-depth research at the University simultaneously with clinical training. In 1980, Dr Neglén received a PhD in Surgery defending his thesis: "Aortic Clamping –Skeletal muscle metabolism and central circulation during abdominal reconstructive vascular surgery for arteriosclerotic disease." In 1981 he was Board Certified in General Surgery in Sweden. This was followed by a clinical research fellowship at Duke University, North Carolina, for one year. In 1988, he was appointed Docent (Associated Professor) at the University of Lund.

He was part of a team of surgeons developing the Dept of Surgery at Kuwait University from 1983. This endeavor was interrupted by the invasion of Kuwait in 1990, when Dr Neglén joined Professor Raju at the University Medical Center in Jackson, MS, for one year as a visiting professor. After returning to the Middle East as a Professor at the United Arab Emirates University in Abu Dhabi, he obtained a license to practice surgery in Mississippi, and joined Dr Raju in Jackson in private practice from 1997 to 2011. Despite being in private practice Dr. Neglén continued his

research endeavors stimulated by his deep roots in the academics. His work has resulted in 102 original articles, 36 chapters in books, more than 100 published short papers and abstracts, and more than 100 presentations.

Dr. Neglén has now retired from full clinical service and resides in Cyprus. He works as a consultant in venous disease at SP Vascular Center. He is a member of the Strategic Advisory Board of Veniti, Inc., Proctor and Speaker for Volcano Europe, Speaker for Cook Medical and Co-chairman of the European Venous Forum Hands-on Workshop on Venous Disease (EVF HOW) and Board Member of European Venous Forum.



**Andrew Nicolaides,  
MS, FRCS, PhD (Hon)**  
Emeritus Professor of Vascular  
Surgery, Imperial College of  
Science, Technology and  
Medicine, London, UK Honorary  
Professor of Surgery St George's  
University of London/Medical  
School at the University of Nicosia  
Director, Vascular Screening and  
Diagnostic Centre Nicosia, Cyprus

Professor Nicolaides is a vascular surgeon, currently Medical Director of the Vascular Screening and Diagnosis Centre in London and in Cyprus. He is Chairman of the Cyprus Cardiovascular Disease and Research Trust, and "Special Scientist" at the University of Cyprus. He is also Examiner for MS and PhD degrees for London University.

Chairman and founder of the Cyprus Consensus for the management of the Chronic Venous Disease –therapeutic recommendations

His expertise focuses in noninvasive vascular screening and diagnosis investigation, detection and prevention of cardiovascular and venous disease, and also genetic risk factors for cardiovascular disease.

Professor Nicolaides is Professor Emeritus at Imperial College London, Chairman of the board of the European Venous Forum (EVF), Past-President of the EVF and the International Union of Angiology, and Past-President of the Section of Measurement in Medicine of the Royal Society of Medicine.

He has received many awards and honorary memberships from many scientific societies, and was awarded the Jacksonian Prize by the Royal College of Surgeons England. He also received the Title of Archon Megas Referendarios bestowed by the Patriarch of Constantinople.

Professor Nicolaides is Editor-in-Chief of International Angiology, Phlebology, a member of the editorial boards of many vascular journals, co-author of over 400 original papers, and editor of 14 books. H-index: 47

## Faculty Profile:

**Gareth Bate, RGN PGCert**

Clinical Nurse Specialist and Vascular Ultrasonographer  
University of Birmingham Department of Vascular Surgery  
Heart of England NHS Trust  
Birmingham, UK

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**Stephen Black,**

Consultant Vascular Surgeon and  
Honorary Senior Lecturer  
St Georges Hospital, London, UK

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**Vadim Bogachev,**

Professor of surgery,  
Head of the Department of Angiology and Vascular Surgery  
Russian State Medical University, Russia

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**Mamuka Bokuchava, PHD, MD**

Professor of Vascular Surgery,  
Tbilisi State Medical University  
President of Georgian Association of Angiologists and Vascular Surgeons.  
Deputy Director of Centre of Vascular and Heart Disease of Georgia.  
Tbilisi, Georgia

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**Professor Andrew W Bradbury, BSc, MB, ChB (Hons), MD, MBA, FEBVS (Hon), FRCSEd, FRCSEng**

Sampson Gamgee Professor of Vascular Surgery  
College of Medical and Dental Sciences,  
University of Birmingham, UK and  
Consultant Vascular and Endovascular Surgeon  
Heart of England NHS Trust  
Birmingham, UK and  
Director,  
Midland Vascular Services Ltd,  
Birmingham, UK

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**Bo Eklöf, MD, PhD**

Emeritus Professor of Surgery, University of Hawaii, USA  
Past President, American Venous Forum,  
University of Lund, Sweden

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**Maura Griffin, PhD,**

Senior Clinical Scientist,  
Vascular Diagnostic Centre,  
London, UK

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**Julian Hague**

Consultant Interventional Radiologist,  
University College London and Royal Free London Hospitals  
London, UK

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**Marzia Lugli, MD**

Vascular Surgeon  
Department of Cardiovascular Surgery - Hesperia Hospital Modena - Italy  
CIFL - Interuniversity Centre of Phlebology

## Faculty Profile:

### **Peter Neglén, MD, PhD**

Vascular Surgeon,  
SP Vascular Center  
Limassol, Cyprus

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### **Olle Nelzén, MD, PhD**

Associate Professor in Vascular Surgery  
Uppsala University  
Head of the Dept. of Vascular Surgery  
Skaraborg Hospital, Skoevde, Sweden.

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### **Andrew Nicolaidis, MS, FRCS, PhD (Hon),**

Emeritus Professor of Vascular Surgery,  
Imperial College of Science, Technology and Medicine,  
London, UK  
Honorary Professor of Surgery  
St George's University of London/Medical School  
at the University of Nicosia  
Director, Vascular Screening and Diagnostic Centre  
Nicosia, Cyprus

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### **Hugo Partsch, MD, PhD**

Emeritus Professor of Dermatology,  
University of Vienna, Vienna, Austria  
Past President, UIP

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### **Michel Perrin, MD**

Associate Professor of Surgery Grenoble  
and for institution Unité de Pathologie vasculaire Jean Kunlin,  
Clinique du Grand large, Chassieu  
Lyon, France

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### **Djordje Radak, MD, PhD, SASA**

Professor of Vascular Surgery,  
Chair of Vascular Surgery, University of Belgrade  
Director of Clinic for Vascular Surgery  
Institute for Cardiovascular Disease Dedinje,  
Belgrade Serbia

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### **Evgeny Shaydakov, MD, PhD**

Professor of Vascular Surgery,  
Deputy Director of the Institute of Experimental Medicine,  
Director of the RAMS Clinic,  
Saint-Petersburg, Russia

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### **Ravi Singh-Ranger, BSc MS FRCS (Gen)**

Consultant Vascular Surgeon  
The Great Western Hospital  
Wiltshire, UK

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### **Iain Wilson, MEng MRCS FRCR**

Consultant Vascular and Interventional Radiologist  
University Hospital Southampton  
Southampton, UK



28-29 March 2014, Tbilisi, Georgia

## EVF/Servier in Georgia 2014

*"...We are looking forward coming to Georgia with our workshop. We have recruited an excellent European faculty who will give the presentations in acute and chronic venous disease, participate in the discussion, and run the workstations. We invite you to an exciting workshop where you will have the opportunity to meet some of the best experts in venous disease, to interact with them for open discussion in the morning sessions and in the afternoon workstations. Grab the opportunity..."*

### Directors:

**Bo Eklöf**

**Peter Neglén**

**Andrew Nicolaides**

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*"It is a great honor for us that EVF directors chose Georgia as a place for such an interesting workshop. This kind of event will have a big influence on further development of Angiology and Vascular surgery in Georgia. I would like to express my gratitude towards "Les laboratories Servier" HO and Georgian representative office, which played major role and spent a lot of energy in organizing this meeting. Without them it would be impossible to organize EVF Hands-on Workshop in Georgia.*

*On behalf of Georgian Association of Angiologists and Vascular Surgeons, I would like to warmly welcome all faculty members, delegates and sponsors. We strongly believe, that such a challenging event as the EVF Hands-on Workshop in Georgia will be remembered as highly professional meeting from scientific/clinical point of view. Hopefully we will be able to award you with unforgettable memories about our beautiful country and share precious moments."*

**President of Georgian Association of Angiologists and Vascular**

**Surgeons: Mamuka Bokuchava**

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## Basic principles and varicose veins

07.45 Welcome

### Basic principles

Moderators: *Bo Eklöf (Sweden)/Mamuka Bokuchava (Georgia)*

08.00 What's new in pathophysiology of CVD? *Andrew Nicolaides (Cyprus)*

08.15 How accurate are our tests for reflux and obstruction? *Peter Neglén (Cyprus)*

08.30 Classification and assessment of venous outcomes. *Marzia Lugli (Italy)*

08.45 Discussion

### Treatment of varicose veins

Moderators: *Peter Neglén (Cyprus)/Evgeny Shaydakov (Russia)*

09.00 Are drugs indicated and efficient? *Andrew Nicolaides (Cyprus)*

09.10 Stockings or bandages – all the same? *Hugo Partsch (Austria)*

09.20 Discussion

09.30 Coffee break

10.00 Description of alternative methods of saphenous ablation. *Ravi Singh-Ranger (UK)*

10.10 Which method should you use? *Andrew Bradbury (UK)*

10.20 The controversy of the perforators. *Olle Nelzén (Sweden)*

10.30 Intervention for recurrence (PREVAIT). *Marzia Lugli (Italy)*

10.40 Pelvic congestive syndrome. *Michel Perrin (France)*

10.50 Discussion

11.00 Case presentations

11.30 How do I perform a duplex study? *Live demonstration. Andrew Nicolaides (Cyprus)/Evgeny Shaydakov (Russia)/Maura Griffin (UK)*

12.00 Lunch

13.00 - 18.25 **Workshops:** *Organiser: Peter Neglén (Introduction 15 min)*

*Duplex investigations, IVUS/Stenting, Saphenous ablation, Bandaging, Foam sclerotherapy, Compression therapy, Stockings, Thrombectomy device, IVC filter placement.*

## DAY II Saturday, 29 March, 2014

### Acute thromboembolism

Moderators: Andrew Nicolaides (Cyprus)/Vadim Bogachev (Russia)

**08.00** Can we avoid the postthrombotic syndrome? *Bo Eklöf (Sweden)*

**08.10** Recent guidelines for prevention of DVT. *Andrew Nicolaides (Cyprus)*

**08.20** Recent guidelines for treatment of DVT. *Andrew Bradbury (UK)*

**08.30** *Discussion*

**08.40** How to perform a duplex study for acute DVT. *Live demonstration. Andrew Nicolaides (Cyprus)/Evgeny Shaydakov (Russia)/Maura Griffin (UK)*

**09.00** *Case presentations*

**09.30** Coffee break.

### Treatment of acute DVT

Moderators: Peter Neglén (Cyprus)/Djordje Radak (Serbia)

**10.00** Conservative treatment of acute DVT. *Hugo Partsch (Austria)*

**10.10** New oral anticoagulants in the treatment of VTE. *Andrew Nicolaides (Cyprus)*

**10.20** Rationale for Early Thrombus Removal of Iliofemoral DVT. *Bo Eklöf (Sweden)*

**10.30** Catheter-directed thrombolysis. *Stephen Black (UK)*

**10.40** Pharmaco-mechanical thrombectomy. *Julian Hague (UK)*

**10.50** The role of IVC filters. *Iain Wilson (UK)*

**11.00** *Discussion*

**11.20** *Case presentations*

**12.00** Lunch

### Diagnosis and treatment of chronic venous insufficiency (C3-C6)

Moderators: Bo Eklöf (Sweden)/Andrew Bradbury (UK)

**13.00** Sequential treatment plan for CVI. *Peter Neglén (Cyprus)*

**13.10** Compression treatment of venous ulcers. *Hugo Partsch (Austria)*

**13.20** Treatment of deep vein obstruction. *Peter Neglén (Cyprus)*

**13.30** Repair of primary deep vein incompetence. *Michel Perrin (France)*

**13.40** Repair of postthrombotic deep vein incompetence. *Marzia Lugli (Italy)*

**13.50** *Discussion*

**14.00** *Case presentations*

**14.30** Coffee break

**15.00 - 16.55 Workshops:** *Organiser: Peter Neglén*

*Duplex investigations, IVUS/Stenting, Saphenous ablation, Bandaging, Foam sclerotherapy, Compression therapy, Stockings, Thrombectomy device, IVC filter placement.*

# WORKSHOP

Friday 28 March – 13.00: Introduction of workshops by Peter Neglén.

- 15 min between each workshop
- Duration of each workshop is 1h 55 mins. Each workshop contains 4 stations, i.e. 25 min/station. Each group will consist of 20 participants with 5 participants/station
- Workshop: Station 1 - 25 min, change - 5 min, Station 2 - 25 min, change - 5 min, Station 3 - 25 min, change - 5min, Station 4 - 25 min = 1 hour 55 min

Attendance Card signed by each workshop to receive end of course Diploma

## Rotation schedule

	Friday 28 March		Saturday 29 March
	13.15-16.10	16.25-18.25	15.00-16.55
Workshop	Group	Group	Group
<b>1</b>	<b>A</b>	<b>C</b>	<b>B</b>
<b>2</b>	<b>B</b>	<b>A</b>	<b>C</b>
<b>3</b>	<b>C</b>	<b>B</b>	<b>A</b>

### Workshop 1

**Venue: Iveria Ballroom 1**

**Station 1. Cook** – IVC filter  
Faculty: *Iain Wilson (UK)*

**Station 2. Veniti** – Stent  
Faculty: *Marzia Lugli (Italy)*

**Station 3. Volcano** – IVUS  
Faculty: *Stephen Black (UK)*

**Station 4. Covidien** – Trellis  
Faculty: *Julian Hague (UK)*

### Workshop 2

**Venue: Meeting Room 3**

**Station 1. Covidien** – RFA ablation  
Faculty: *Ravi Singh-Ranger (UK)/  
Djordje Radak (Serbia)*

**Station 2. Bauerfeind** - Stockings  
Faculty: *Olle Nelzén (Sweden)*

**Venue: Meeting Room 4**

**Station 3. Biolitic** – Laser ablation  
Faculty: *Vadim Bogachev (Russia)*

**Station 4. medi – CircAid** – compression  
Faculty: *Michel Perrin (France)*

### Workshop 3

**Venue: Meeting Room 5**

**Station 1.** Lower limb veins with superficial incompetence (**GE Healthcare**)  
Faculty: *Evgeny Shaydakov (Russia)*

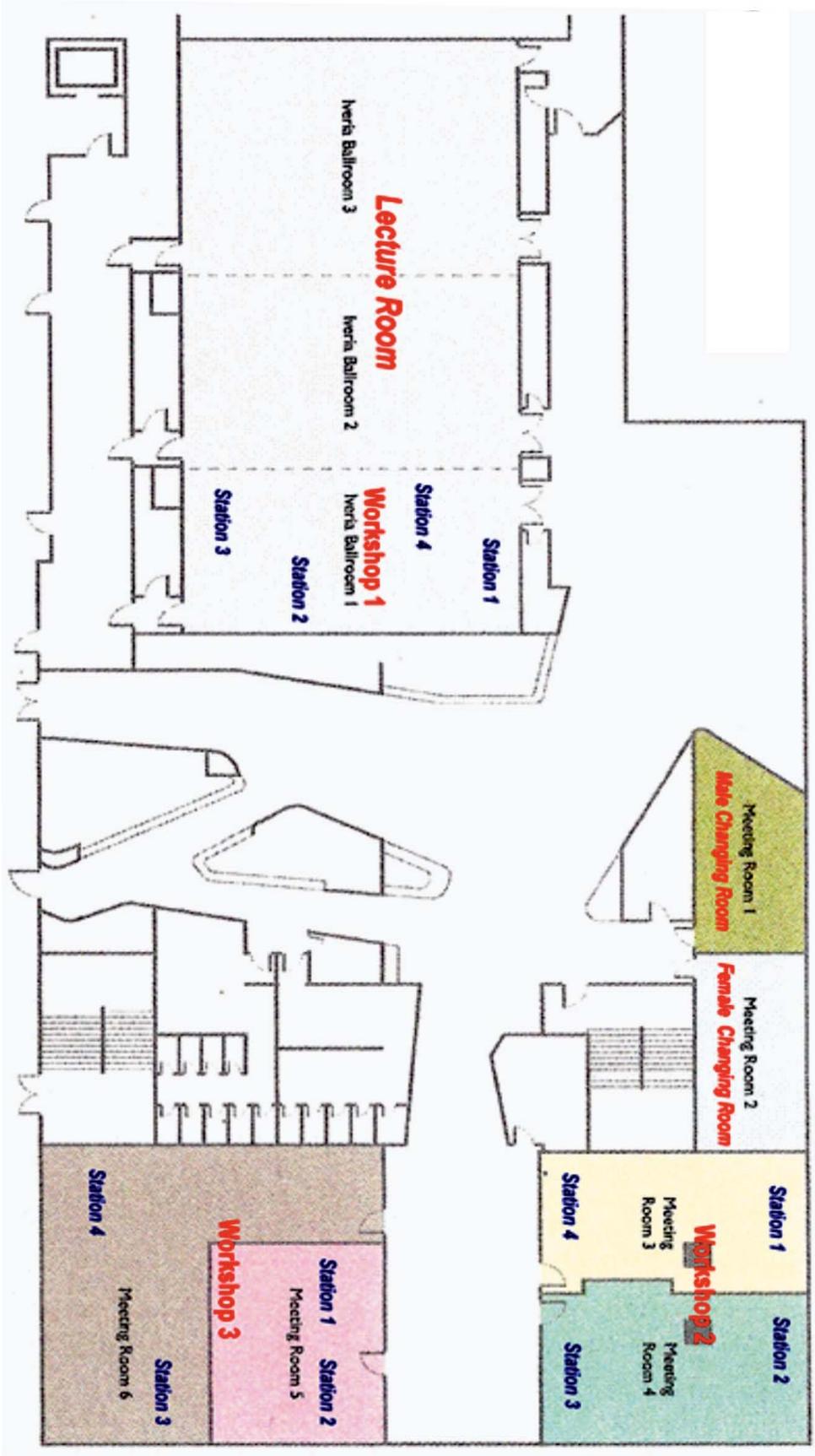
**Station 2.** Lower limb veins with deep incompetence (**Philips**)  
Faculty: *Andrew Nicolaides (Cyprus)/  
Mamuka Bokuchava (Georgia)/Maura Griffin (UK)*

**Venue: Meeting Room 6**

**Station 3. STD** – Foam sclerotherapy  
Faculty: *Andrew Bradbury (UK)/Gareth Bate (UK)*

**Station 4. Lohmann & Rauscher** - bandage  
Faculty: *Hugo Partsch (Austria)*

# FLOOR PLAN



# OUTLINE OF THE HANDS-ON WORKSHOP

**Honorary Cow Bell Ringer and Time Enforcer: Bo Eklöf**

**Honorary Cow Bell Carrier: Peter Neglén**

## **Workshop 1**

Venue: Iveria Ballroom 1

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### **Station 1. Cook Medical – IVC filter**

Faculty: Iain Wilson

The Cook IVC filter station will provide a brief presentation of IVC filter placement and demonstrate techniques in placement of the Cook filter (jugular and femoral) using the NavAlign™ delivery system available on Celect® and Günther Tulip® Vena Cava Filters. Subsequent to the presentation each participant will have the opportunity to practice on models with deployment of filters. Following this, techniques of filter retrieval will be demonstrated.

**Objectives:** The participants should be able

1. To know the advantages and disadvantages of jugular versus femoral deployment.
2. To complete a placement of IVC filter in a model.
3. To learn steps of IVC filter retrieval in a model.

### **Station 2. Veniti - Vici™ Venous Stent**

Faculty: Marzia Lugli

Participants will practice the placement of the Vici™ Venous Stent in a specially designed venous model. The specific techniques for its precise placement in the iliofemoral vein will be emphasized. The unique properties of the stent and delivery system, specifically in regards to high radial force, flexibility and accuracy of placement will be discussed.

**Objectives:** The participants should be able

1. To deliver a Vici™ Venous Stent in a venous model.
2. To deploy the Vici™ Venous Stent adequately in the iliofemoral vein.
3. To understand the engineering characteristics of the Vici™ Venous Stent.

### **Station 3. Volcano – IVUS**

Faculty: Stephen Black

The participants will familiarize themselves with the functionality of the Volcano s5 IVUS tower and corresponding IVUS catheters based on multi-array design technology. Case studies of procedures using IVUS video-loop recordings will be reviewed to demonstrate venogram and IVUS images for treatment of patients with obstruction. The participant will practice image interpretation using an anatomical model, including how to identify the vessel lumen, locate side branch or collateral vessels, identify stenosis and assess completeness of treatment

**Objectives:** The participants should be able

1. To understand the functionality of the Volcano s5 IVUS tower.
2. To know the multi-array design technology.
3. To identify the vessel lumen, locate side branch or collateral vessels, identify stenosis and assess completeness of treatment on IVUS images.

# OUTLINE OF THE HANDS-ON WORKSHOP

## **Station 4. Covidien – Trellis™ - Peripheral Infusion System**

Faculty: Julian Hague

The Trellis™ - Peripheral Infusion system will be briefly demonstrated and techniques for the optimal use of the Trellis device discussed. Each participant will then familiarize him/herself with the device and prepare, insert and use the device in a model.

**Objectives:** The participants should be able

1. To identify the patient population suitable for treatment.
2. To satisfactorily prepare, insert and use the Trellis device.
3. To know ancillary tip and tricks, which can improve thrombus extraction.

## **Workshop 2**

Venue: Meeting Rooms 3 and 4

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### **Station 1. Covidien – The Venefit™ procedure with the ClosureFast™ catheter (RFA)**

Faculty: Ravi Singh-Ranger, Djordje Radak

The Venefit™ procedure, delivered by the ClosureFast™ Endovenous Radiofrequency Catheter, its unique attributes and placement will be briefly introduced. The participants will practice ultrasound-guided access of a saphenous vein in a model; and to accurately place the catheter tip at the sapheno-femoral confluence and to sequentially position the catheter in a leg simulator. Tips and tricks to achieve successful ablation will be pointed out.

**Objectives:** The participants should be able

1. To cannulate a vein under ultrasound guidance.
2. To appropriately place the ClosureFAST® catheter at the sapheno-femoral confluence using ultrasound.
3. To infiltrate an adequate tumescent anesthesia.
4. To perform an saphenous ablation with the ClosureFAST® catheter.

### **Station 2. Bauerfeind – Compression stocking**

Faculty: Olle Nelzén

The need for different types of compression stockings (MCS) and what distinguishes highly elastic MCS from short stretch MCS with high working pressure will be discussed. The main focus is on a practical comparison of long and short stretch stockings. The participants will learn and practice leg measuring and how to read sizing tables. They will apply long stretch and short stretch stockings with and without a fitting aid. Using Picopress to measure the pressure of the stockings, each participant will experience differences in working pressure.

**Objectives:** The participants should be able

1. To measure a leg.
2. To find the appropriate stocking-size by use of tables.
3. To apply long and short stretch MCS, with and without fitting aid.
4. To differentiate between highly elastic stockings and short stretch stockings with high working pressure.

# OUTLINE OF THE HANDS-ON WORKSHOP

## **Station 3. Biolitec – Radial Laser Ablation**

Faculty: Vadim Bogachev

The participants will practice endovenous ablation of the saphenous veins using the new Biolitec ELVeS<sup>®</sup> Radial 2ring<sup>™</sup> and ELVeS Radial Slim<sup>™</sup> fiber with a 1470 nm laser generator. The unique features of this system will be emphasized. The participants will learn to decide the dosage of energy. The participants will perform the longitudinal and transverse access to the vein and treatment under ultrasound guidance on phantom legs. Tips and tricks will be pointed out.

**Objectives:** The participants should be able

1. To plan the ELVeS<sup>®</sup> Radial treatment, decide on dosage of energy and adjust the generator accordingly.
2. To access the vein by micro puncture technique under ultrasound guidance and place the fiber tip correctly.
3. To perform a radial laser ablation of the saphenous vein.

## **Station 4. medi - CircAid<sup>®</sup> by medi**

Faculty: Michel Perrin

This workshop will inform and instruct participants in the Juxta-CURES<sup>®</sup> line of CircAid<sup>®</sup> products for the treatment of venous stasis ulcers and make them understand the concept of in-elastic adjustable compression. Participants will be given an overview of the CircAid<sup>®</sup> technology, its scientific background and demonstrations of how the products achieve therapeutic compression levels of 30-50mmHg. Each participant will apply each of the products.

**Objectives:** The participants should be able

1. To understand the principles of in-elastic, adjustable compression and the technology behind it.
2. To understand the scientific background to measurable therapeutic compression levels of CircAid<sup>®</sup> technology and how it applies to the treatment of venous stasis ulcers.
3. To learn and practice how to apply the Juxta-CURES<sup>®</sup> line of CircAid<sup>®</sup> products.

## **Workshop 3**

Venue: Meeting Rooms 5 and 6

The imaging ultrasound workshop will have 2 stations with 1-2 instructors each. It will demonstrate the imaging protocols for evaluating acute and chronic venous disease. The participants will perform live imaging in normal limbs and in patients with venous incompetence. The importance of positioning of the patient, use of appropriate transducers, imaging principles and optimization of the image will be emphasized. Non-venous ultrasonographic findings, which mimic the signs and symptoms of DVT of the lower limb will be discussed.

**General Objectives:** The participants should be able

1. To identify the ultrasound anatomy of the veins and the surrounding tissues.
2. To recognize the ultrasonographic criteria for diagnosis of acute and chronic venous disease.
3. To be acquainted with non-venous pathology that could explain the patient's complaint.

# OUTLINE OF THE HANDS-ON WORKSHOP

## **Station 1. GE Healthcare - Lower limb veins – Lower limb with superficial incompetence**

Faculty: Evgeny Shaydakov

**Objectives.** The participants should be able

1. To detect reflux in the GSV and its tributaries.
2. To detect reflux in the SSV and its tributaries.
3. To recognize the connections between the GSV and SSV and common perforator sites and what defines a pathological perforator.

## **Station 2. Philips – Lower limb veins - Lower limb with deep incompetence**

Faculty: Andrew Nicolaidis, Mamuka Bokuchava, Maura Griffin

**Objectives.** The participants should be able

1. To detect reflux in the deep veins.
2. To detect obstruction in the deep veins and learn the criteria for separating acute from chronic thrombosis.
3. To recognize impact of the superficial reflux on the deep vein function.

## **Station 3. STD Pharma – Foam Sclerotherapy**

Faculty: Andrew Bradbury/Gareth Bate

The participants will make foam using STD. Different treatment plans will be discussed depending on the findings after mapping of the superficial reflux disease by duplex ultrasound scanning (DUS). DUS-guided cannulation and injection of foam will be performed on a phantom. The appropriate compression following foam sclerotherapy will be practiced on each other.

**Objectives:** The participants should be able

1. To correctly mix a sclerosing agent and air to produce an adequate foam.
2. To make a treatment plan for foam sclerotherapy.
3. To perform DUS-guided injection of foam.
4. To apply an appropriate compression bandage following foam sclerotherapy.

## **Station 4. Lohmann & Rauscher – Compression Bandage**

Faculty: Hugo Partsch

The participants will be instructed how to apply strong short-stretch bandages and then practice the application on each other. Sub-bandage pressures will be monitored to ensure the correct application of the bandages. Attendants will not only apply bandages, but also be aware of what a correctly applied bandage on their own legs feels like after being applied by a colleague.

**Objectives:** The participants should be able

1. To apply a good short stretch bandage, which can stay on the leg for one week.
2. To register and to feel the resting and working pressures on your own leg.
3. To understand the mode of action of a hemodynamically effective compression.

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ELVeS® (Endo Laser Vein System) is one of the most established system used for the treatment of varicose veins worldwide. In combination with the unique ELVeS Radial™ Fiber this system has revolutionised the future of endovenous laser treatment by 360 degrees. ELVeS Radial™, ELVeS Radial 2Ring™ and ELVeS Radial slim™ fibers (patents pending) are the first radial emitting laser fibers worldwide used for endovenous laser treatments of the Greater Saphenous Vein / Smaller Saphenous Vein in patients with Superficial Vein Reflux.

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### Lohmann & Rauscher

Compression therapy is well established in many countries, and seen as an important part in the treatment of leg ulcers. An adequate compression treatment in combination with modern moist wound care dressings, not only aids the healing of venous leg ulcers, it also improves the pain relief, the mobility and quality of life, for the patient.

Lohmann & Rauscher is well known for their wide assortment within support & relief and bandages for compression therapy. Short stretched bandages like Rosidal® or Actico® in combination with padding (Rosidal® soft, Cellona® synthetic padding), tubular bandage (tg®), foam rubber pads (Kompres®), MWC dressings (Suprasorb® range) etc. gives a variety of possibilities to contribute to a good and appropriate treatment result. For more information please visit [www.lohmann-Rauscher.com](http://www.lohmann-Rauscher.com) homepage.



### medi - CirdAid by medi

medi is one of the world's leading manufacturers of compression hosiery. medi supplies medical compression stockings for treatment of venous disorders, anti-embolism stockings for thrombosis prophylaxis, lymphoedema sleeves and stockings after mastectomy, orthopaedic braces and elastic supports, prosthetic products for the lower limbs. Most of the products are made in Germany and are certificated with ISO 9010.

CircAid bymedi Products is now Making Compression Easier for those treating venous stasis ulcers with bandaging. Our Juxta-Cures line of instantly adjustable compression wraps provides a known level of compression that can be maintained throughout the day and throughout the course of treatment, all while saving time and money. Most importantly you can give your patients the ability to maintain an active and independent lifestyle. This newest addition to the Juxta family of products (Juxta-Fit for Lymphedema and Juxta-Lite for Venous Disease), provides the perfect alternative to traditional compression bandaging for the treatment of venous stasis ulcers. To learn more about CircAid by medi please visit us at [www.medi.de](http://www.medi.de)



### STD Pharmaceutical

STD Pharmaceutical is a family run business founded in 1967 to market a sodium tetradecyl sulphate based sclerosant.

The sclerosant now called Fibro-Vein is registered in 20 countries and is effective on all sizes of veins from telangiectasia to truncal veins.

We also provide products to help your sclerotherapy practice these include micro-needles, syringes, bandages etc. plus books and videos.

Please visit our website for further information [www.stdpharm.co.uk](http://www.stdpharm.co.uk)



### Veniti™

VENITI™ is a startup medical device company focusing on the treatment of venous insufficiency. We recently commercialized our first product in the EU, the CE marked Veniti Vici™ Venous Stent (not available in the US). The Veniti Vici™ Venous Stent is the first stent designed from its inception with the intent of treating iliofemoral venous obstruction, and is not simply a repurposed arterial stent. It combines crush resistance, continuous coverage, end-to-end strength, and flexibility to treat the specific needs of lower extremity iliofemoral vein obstruction. In addition, Veniti is also developing the Veniti Vidi™ Vena Cava Filter, the first vena cava filter with active anchoring, designed to prevent tilting, migration, and embolization (not available in any jurisdiction). Please visit our website: [www.veniti.com](http://www.veniti.com)

**We are grateful to GE Healthcare and Philips for providing the ultrasound systems for use in the Workshops.**



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