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About AVF

The American Venous Forum (AVF) is dedicated to improving the care of patients with venous and lymphatic disease. Founded in 1987, AVF fosters cutting edge research and clinical innovation and educates health care professionals, patients and policy makers about venous and lymphatic diseases. AVF’s membership is recognized internationally as thought leaders, expert investigators and clinicians in venous and lymphatic health care.

Welcome

In February of 2015, the American Venous Forum takes its 27th Annual Meeting to Palm Springs, California. From the 25th to 27th of February The Westin Mission Hills will host an exciting three-day program for health professionals interested in improving venous and lymphatic health of their patients and the general population.

In a highly competitive process, the best scientific studies were selected and will be presented. This meeting is a unique opportunity to learn about the latest research results and innovative, practical solutions from the very people who move the field of venous and lymphatic healthcare forward. World-renowned experts will participate in discussion panels, sharing their views and experiences while critically assessing recent developments in the field.

The rapidly changing healthcare environment, especially in the United States, increasingly affects professionals treating patients with venous and lymphatic diseases. AVF addresses these pressures by including presentations and discussions of issues ranging from the use of social media for marketing to accreditation of vein clinics, from financial aspects of venous practice to ensuring patient safety in office procedures. These and other topics will be addressed at the David Sumner Venous Summit chaired by John Blebea. The Villavicencio Symposium, co-chaired by Lowell Kabnick and Peter Lawrence, will focus on the future of venous care, recent changes in reimbursement and the role of professional societies in addressing current challenges.

A program of such intensity can be overwhelming, but a free afternoon on Thursday is a perfect opportunity to explore the beautiful surroundings, take part in the golf outing, play tennis, or just relax by the pool. Of course, it is also an opportunity to have some quality family time. AVF has a great tradition of bringing families to the meeting and this year is not an exception.

Friday will be the busiest day of the meeting. In addition to scientific sessions, the Specialty Symposia will focus on venous and lymphatic issues in vascular medicine & thrombosis, wound care, lymphedema & compression, biomechanics & bioengineering, deep venous disease, animal models in venous research and superficial venous disease. New this year is the Allied Health Symposium which will be equally interesting for practicing physicians and allied healthcare professionals. Friday evening closes with the Forum Finale, a dinner event with live music, awards presentation and a silent auction.

As the leading force in generating and analyzing evidence that is the basis of current best clinical practice, the American Venous Forum is enthusiastically looking forward to advancing this position and to bridging the existing gap between science and healthcare policy. The D. Eugene Strandness memorial lecture will be given by Andrei L. Kindzelski, MD, PhD, the NIH program director in the Division of Blood Diseases and Resources. In his lecture and the following discussion, we will learn how AVF and its members can become more successful in working with the NIH to address burning issues of venous and lymphatic health.

The American Venous Forum is exactly what its name says – the Forum. It is a place to discuss new ideas and findings, and the place to advance these ideas to the reality of venous and lymphatic care. The Forum’s success depends on your active participation, and so, on behalf of the AVF Board of Directors, I invite you to participate in our 27th Annual Meeting.

Sincerely,

Fedor Lurie, MD, PhD
AVF President
AVF 27th Annual Meeting

On behalf of the American Venous Forum, we invite you to join us at the 27th Annual Meeting on February 25-27, 2015 in Palm Springs, California. AVF Annual Meetings bring together internationally recognized thought leaders, expert investigators and clinicians in venous and lymphatic disease.

The AVF is comprised of over 825 members who are primarily physicians and surgeons in the treatment of venous and lymphatic disease. The AVF Annual Meeting continues to grow each year and this year we expect over 700 attendees and associates from the United States and around the world. This year we gather in Palm Springs, rich in history and blessed with gorgeous weather. Nestled at the base of the San Jacinto Mountains, Palm Springs is known for its crystal blue skies, year-round sunshine, stunning landscape, palm tree lined streets and starry nights.

2015 Program Features & Highlights

- Cutting Edge Scientific Program
- D. Eugene Strandness Memorial Lecture – Andrei L. Kindzelski, MD, PhD
- David S. Sumner Venous Summit – John Blebea, MD, MBA
- Presidential Address – Fedor Lurie, MD, PhD
- Villavicencio Symposium – Lowell Kabnick, MD & Peter Lawrence, MD
- Original Oral Abstract Presentations
- Expert Lectures
- Poster Presentations
- Specialty Symposia
- Allied Health Educational Track – New!
- ACP Symposium
- Exhibit Hall
- Forum Finale

CME Credit

AMA PRA Category 1 Credits™ and Self-Assessment Credits will be provided for this activity.

Target Audience

The target audience for the AVF Annual Meeting includes vascular and general surgeons, interventional radiologists, interventional cardiologists, phlebologists, plastic surgeons, physician assistants, vascular nurse practitioners, technicians, technologists and other medical professionals who are currently treating venous disease. Each year AVF also welcomes hundreds of representatives from leading vascular healthcare companies who share the vision of improving patient outcomes and quality of care for individuals with venous disease.

Industry Partners

A select group of companies have been invited to participate in the 27th Annual Meeting either as sponsors or exhibitors. The exhibits will feature the latest products for diagnosis and treatment of venous disease. Continental breakfasts, coffee breaks, Welcome Reception and a lunch buffet will be held in the Exhibit Hall to provide participants with the opportunity to explore the latest technologies in venous disease.
## Schedule at a Glance

### Tuesday, February 24

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>4:00 pm - 8:00 pm</td>
<td>Registration Open</td>
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### Wednesday, February 25

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>6:30 am - 6:30 pm</td>
<td>Registration Open</td>
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<tr>
<td>7:00 am - 8:00 am</td>
<td>Continental Breakfast</td>
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<tr>
<td>8:00 am - 12:00 pm</td>
<td>David S. Sumner Venous Summit: Office-Based Vein Centers - The Next Generation</td>
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<tr>
<td>12:00 pm - 1:00 pm</td>
<td>Break</td>
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<tr>
<td>12:00 pm - 7:30 pm</td>
<td>Exhibit Hall Open</td>
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<tr>
<td>1:00 pm - 6:00 pm</td>
<td>Poster Hall Open</td>
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<tr>
<td>1:00 pm - 1:05 pm</td>
<td>President &amp; President-Elect Welcome</td>
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<tr>
<td>1:05 pm - 3:05 pm</td>
<td>Scientific Session 1: Chronic Venous Obstruction</td>
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<tr>
<td>3:05 pm - 3:30 pm</td>
<td>Coffee Break</td>
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<tr>
<td>3:30 pm - 4:50 pm</td>
<td>Scientific Session 2: Basic Science</td>
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<tr>
<td>5:00 pm - 6:06 pm</td>
<td>Poster Presentations</td>
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<tr>
<td>6:00 pm - 7:30 pm</td>
<td>Welcome Reception</td>
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### Thursday, February 26

<table>
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<th>Time</th>
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<tr>
<td>6:00 am - 7:00 pm</td>
<td>Registration Open</td>
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<tr>
<td>6:30 am - 7:30 am</td>
<td>Continental Breakfast</td>
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<tr>
<td>6:30 am - 7:30 am</td>
<td>Breakfast with the Board (New Members Only)</td>
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<tr>
<td>9:00 am - 1:00 pm</td>
<td>Exhibit Hall Open</td>
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<tr>
<td>7:30 am - 7:00 pm</td>
<td>Poster Hall Open</td>
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<tr>
<td>7:30 am - 9:30 am</td>
<td>Scientific Session 3: Venous Thromboembolism/IVC Filters</td>
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<tr>
<td>9:30 am - 10:00 am</td>
<td>Coffee Break</td>
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<tr>
<td>10:00 am - 10:30 am</td>
<td>Best Papers</td>
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<tr>
<td>10:00 am - 11:30 am</td>
<td>ACP Symposium</td>
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<tr>
<td>10:30 am - 11:30 am</td>
<td>Villavicencio Symposium: Present and Future of Venous Health Care</td>
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<tr>
<td>11:30 am - 12:20 pm</td>
<td>D. Eugene Strandness Memorial Lecture: Andrei L. Kindzelski, MD, PhD</td>
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<tr>
<td>12:20 pm - 1:30 pm</td>
<td>Lunch Buffet</td>
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<tr>
<td>12:20 pm</td>
<td>Open Afternoon</td>
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<tr>
<td>12:30 pm - 5:30 pm</td>
<td>AVF Golf Outing</td>
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### Friday, February 27

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<th>Time</th>
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<tr>
<td>6:00 am - 5:30 pm</td>
<td>Registration Open</td>
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<tr>
<td>6:00 am - 8:00 am</td>
<td>Continental Breakfast</td>
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<tr>
<td>6:00 am - 10:00 am</td>
<td>Exhibit Hall Open</td>
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<tr>
<td>6:30 am - 8:00 am</td>
<td>Industry Advisory Breakfast</td>
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<tr>
<td>7:00 am - 10:00 am</td>
<td><strong>Specialty Symposia</strong></td>
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<td></td>
<td>(A) Biomechanics &amp; Bioengineering</td>
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<td></td>
<td>(B) Wound Care, Lymphedema &amp; Compression</td>
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<td></td>
<td>(C) Deep Venous Disease</td>
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<td>(D) Vascular Medicine &amp; Thrombosis</td>
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<td>7:30 am - 8:00 am</td>
<td>VLU Guidelines: Marc Passman, MD</td>
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<td>8:00 am - 10:00 am</td>
<td>Poster Hall Open</td>
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<td>8:00 am - 9:30 am</td>
<td>Scientific Session 4: Compression/Wound Care/Lymphedema</td>
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<tr>
<td>9:30 am - 10:00 am</td>
<td>Coffee Break</td>
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<tr>
<td>10:00 am - 12:00 pm</td>
<td>President’s Session</td>
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<tr>
<td>12:10 pm - 1:10 pm</td>
<td>Member Business Luncheon</td>
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<tr>
<td>1:10 pm - 3:10 pm</td>
<td>Scientific Session 5: Superficial Venous Disease</td>
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<tr>
<td>1:10 pm - 4:10 pm</td>
<td><strong>Specialty Symposia</strong></td>
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<td></td>
<td>(E) Allied Health Session</td>
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<td></td>
<td>(F) Wound Care, Lymphedema &amp; Compression</td>
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<tr>
<td></td>
<td>(G) Superficial Venous Disease</td>
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<tr>
<td></td>
<td>(H) Animal Models in Venous Research</td>
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<tr>
<td>3:10 pm - 3:40 pm</td>
<td>Coffee Break</td>
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<tr>
<td>3:40 pm - 5:10 pm</td>
<td>Scientific Session 6: Diagnostic Testing/Imaging</td>
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<tr>
<td>6:30 pm - 10:00 pm</td>
<td>Forum Finale</td>
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### AVF Foundation Fundraising Events

**Golf Outing**
Spend your open Thursday afternoon on the Westin Mission Hills golf course on February 26 at 1:00 pm.

**Silent Auction**
New this year, the Foundation will hold a Silent Auction. Place your bids throughout the meeting; bidding closes at the Friday night Forum Finale.

### Join us at the Forum Finale

- Cocktails
- Dinner
- Live Music
- Awards Presentation
- Silent Auction
David S. Sunner Venous Summit

**Office-Based Vein Centers – The Next Generation**
*Chair: John Blebea, MD, MBA*

**Educational Objectives:**
1. To learn the steps necessary to open an office-based vein center
2. To understand the financial implications of running a vein center
3. To develop marketing strategies using both the internet and social media
4. To gain an understanding of the patient benefits of price transparency
5. To be able to identify and select appropriate procedures for the treatment of superficial and deep venous disease
6. To develop an understanding of the importance of venous center accreditation

Office-based interventional procedures, particularly in the case of patients with venous insufficiency and varicose veins, are becoming increasingly more frequent. If done correctly, this is associated with improved patient and physician satisfaction and at less cost for both patients and the health care system. During the David S. Sunner Venous Summit, a panel of world-renowned experts and physicians experienced in venous office-based interventions will review what is required to set up a successful out-patient venous center, its financial management, marketing opportunities, choice of interventions and how to select between them, future venous procedures and the benefits of vein center accreditation. Presentations will be followed by question and answer sessions to allow audience members the opportunity to ask more detailed questions. The goal of the Summit will be to provide attendees with practical and proven strategies that they can implement immediately in their own practices.

**D. Eugene Strandness Memorial Lecture**

**Venous Disease Research Support by the National Institutes of Health**
*Keynote Speaker: Andrei L. Kindzelski, MD, PhD*

**Educational Objectives:**
1. To emphasize the importance of venous disease (VD) research and provide examples of currently supported NIH studies
2. To provide overview of overall NIH support structure and NIH committees related to VD and lymphatic research
3. To describe mechanisms of support for investigator-initiated research by NIH
4. To provide an overview of NIH initiatives (RFAs and program announcements)
5. To describe training grants and programs at NIH
6. To review clinical trials supported by the NIH
7. To discuss the role of professional societies in supporting medical research

The National Institutes of Health (NIH) has been historically at the forefront of the support for venous disease (VD) research in the United States. A number of Institutes within NIH have interest in stimulating basic, translational, and clinical efforts to better understand and manage VDs. Studies on venous thrombosis, pulmonary embolism and DVT are within the missions of the National Heart, Lung, and Blood institute (NHLBI). However, knowledge of other Institutes and Offices may be beneficial for a new investigator, as navigation within NIH structure and grant mechanisms may be difficult. This lecture will provide basic overview of the NIH structure related to the VD research areas and the mechanisms of research support as well as the role of professional societies in this process.
Villavicencio Symposium

Present and Future of Venous Health Care

Chairs: Lowell Kabnick, MD; Peter Lawrence, MD

Educational Objectives:
1. To develop an understanding of the status of venous health care now and the future
2. To develop an understanding of the importance of venous accreditation
3. To develop strategies for a National Determination Policy
4. To understand the physician reimbursement system and the RUC
5. To be able to identify criteria for the construction of the CMS Fee Schedule

In a recently published article, *Inequalities of health insurance guidelines for the treatment of symptomatic varicose veins*, the authors address insurers responsibility for improving venous disease outcomes, as well as reducing costs, and the necessity for health-care providers and insurance carriers to work together to achieve optimal venous care. Collaboration between venous providers and insurance carriers to create evidence-based standards for optimal care would be timely and beneficial for patients. This symposium will address these issues and discuss whether US insurers are constructing policies to meet their responsibilities.

Schul M., King T., Kabnick L. *Phlebology* 2014, 29(4),PP 239-246

ACP Symposium

Recurrent Varicose Veins - Comparison of Various Treatment Modalities - What Have We Learned

Chronic venous insufficiency or disease is an apt description for an all too common process of the lower extremities that defies therapeutic interventions that do not include long term follow. Recurrent varicose veins have been identified in patients following surgery as well as sclerotherapy and endovenous thermal modalities. In 1988, a worldwide collection of vascular experts convened to develop a system of codified guidelines that includes pre-treatment evaluation, treatment methodologies and long term surveillance to identify and standardize patterns of recurrence. At the same time they recommended common international usage for lower extremity venous anatomy. Because recurrent varicose veins are a common, complex and costly problem for patients and their treating physicians, careful analysis is critical. By having consistent, thorough long term evaluation across all the therapies, new insights can be gained in to the natural history and how much influence disease progression plays in chronic venous insufficiency.

Specialty Symposia

The 27th Annual Meeting will have six Specialty Symposium sessions on Friday, February 27 from 7:00 am – 10:00 am and 1:10 pm – 4:10 pm. Attendees will have the opportunity to attend two Specialty Symposium sessions. Attendees may select Specialty Symposia at the time of registration. The Wound Care, Lymphedema & Compression Specialty Symposium will be held twice.

Friday, 7:00 am - 10:00 am
(A) Biomechanics & Bioengineering
(B) Wound Care, Lymphedema & Compression
(C) Deep Venous Disease
(D) Vascular Medicine & Thrombosis

Friday, 1:10 pm - 4:10 pm
(E) Allied Health Session
(F) Wound Care, Lymphedema & Compression
(G) Superficial Venous Disease
(H) Animal Models in Venous Research
(A) Biomechanics & Bioengineering: Structure-Function Relation of Veins in Health and Disease

Biomechanics relates the function of a physiological system to its structure. The structure-function relation of arteries is well understood using the biomechanics approach. A similar understanding of the venous system, however, lags far behind the arterial system. To address this gap in knowledge and to identify areas of future research, the objective of this session is on review of structure-function relation of veins in health and disease.

The highlight of the session will be a scientific/bioengineering understanding of the venous system in health and disease. The speakers will provide review of the general approach of biomechanics (general principles as applied to blood vessels including scaling laws, stress-strain relations and growth and remodeling laws), boundary conditions (including hemodynamics), material properties of vein wall and blood and their respective interactions in thrombosis, inflammation and remodeling in venous disease.

Following this session participants should be able to:
• Understand the function of the venous system can be deduced based on a biomechanical analysis
• Review the anatomy and geometry of venous system in health and disease
• Describe the material properties of the venous system in health and disease
• Review hemodynamics of venous system and related biomechanics
• Understand the endothelial-blood interactions including thrombosis
• Understand the mechanisms of venous inflammation
• Describe the pathophysiology of veins
• Understand the different etiologies and pathophysiology of chronic lower extremity

(B/F) Wound Care, Lymphedema & Compression

The goal of this activity is designed to be a comprehensive symposium discussing the diagnosis and treatment of lower extremity wounds, lymphedema and medical compression for venous and lymphatic disorders. It is designed to be clinically relevant to basic and advanced wound care treatment and educate on the current approach to improve outcomes of the vascular patient.

The highlight of the session will be case presentation. Each speaker will start with a case and at the end of each session there will be a lively discussion with the invited experts on how to best manage these cases.

Following this session participants should be able to:
• Develop a rational approach to the evaluation and treatment of a variety of wounds
• Have an increased awareness of the differential diagnosis of cutaneous manifestations of systemic illnesses versus vascular disorders
• Describe the pathophysiology of mixed arterial and deep venous insufficiency of the lower extremity and the approach to treatment
• Understand the different etiologies and pathophysiology of chronic lower extremity lymphedema and the highlights of treatment
• Review the indications, benefits and discuss different compression modalities for venous and lymphatic disorders
• Understand the approach to superficial vein ablation in the face of manifestations of venous insufficiency
(C) Deep Venous Disease

Major recent advances in the care of deep venous disease have included improvements in oral anticoagulant drug therapy, venous imaging, and catheter-based interventions. However, the venous disease provider is often faced with difficult decisions as to when these novel modalities should be used over conventional approaches to diagnosis and treatment. To address these gaps in knowledge, the objective of this session is to update the attendee with new information from clinical trials and informed expert consensus on how best to utilize new oral anticoagulants, invasive venous imaging, and catheter-directed thrombolytic approaches for deep venous conditions.

The session will begin with three lectures on oral anticoagulants, management of iliac vein lesions, and an update on pivotal clinical trials in deep venous disease. This will be followed by two debates on controversial topics – the use of catheter-directed thrombolysis for infrainguinal deep vein thrombosis (DVT) and submassive pulmonary embolism (PE). The session faculty members are from diverse subspecialty backgrounds including vascular medicine, vascular surgery, cardiology, cardiothoracic surgery, and interventional radiology.

This activity is designed for a variety of medical specialties, scientists, bioengineers and healthcare providers focused on understanding patients affected by deep venous disorders.

Pursuant to this session, participants should be able to:
• Summarize the advantages and disadvantages of new oral anticoagulants.
• Determine how to detect and manage thrombotic and non-thrombotic iliac vein lesions.
• Name three completed, ongoing, or upcoming pivotal clinical venous disease trials.
• Describe the risk-benefit ratio for the use of thrombolysis for submassive PE.
• Name three complications of catheter-directed thrombolytic therapy for DVT and PE.
• Understand the differences between the risk-benefit ratio of catheter-directed thrombolysis performed for iliofemoral versus femoropopliteal DVT.

(D) Vascular Medicine & Thrombosis

Speakers will include Susan Kahn from Jewish General Hospital in Montreal, a McGill University teaching hospital, Nicos Labropoulos from Stonybrook Medical Center, Terry Carman from Case Western Reserve and Thomas Wakefield from the University of Michigan Medical Center.

Dr. Kahn is widely recognized for her research interests which primarily focuses on clinical trials of interventions to prevent, diagnose, treat, and improve outcomes of venous thromboembolism.

Dr. Kahn and Dr. Labropoulos will present two different perspectives on the use of compression. Dr. Kahn’s presentation will include the results of the SOX Trial which she believes proves that compression is not a key component in treating DVT patients. Dr. Labropoulos has been working on the development and natural history of chronic venous disorders and venous thromboembolism including the inflammatory pathways in both. Dr. Labropoulos’ presentation will focus on compression being a main component for treating DVT patients despite the results of the SOX Trial.

Dr. Carman is a well-respected vascular medicine practitioner with a reputation for teaching excellence and a strong interest in thrombotic problems. Her topic, “Does Idiopathic VTE Require Indefinite Anticoagulation?” will address an issue that is gaining wide attention as new, novel oral anticoagulants enter the market. It is precisely the type of talk one expects from a nonsurgical practitioner working in the vascular field, and it will showcase her impressive expertise in this area. Dr. Wakefield is currently studying thrombogenesis, vein wall/thrombus inflammation, the production of procoagulant microparticles and thrombus/vein wall fibrosis with the goal of these studies being to establish new prophylactic and treatment strategies for venous thrombosis. Dr. Wakefield’s presentation will discuss the use of the target specific anticoagulants. Dr. Wakefield will present the current problems with new agents including the inability at the present time to reliably reverse the anticoagulant effects of these drugs, and the fact that there is little data available on bridging of these agents when other procedures need to be performed. Dr. Wakefield will present the monitoring parameters, supportive measures and reversal agents for Rivaroxaban, Apixaban, Dabigatran.

The program will also include talks on the ACCESS Trial, chronic post-thrombotic iliofemoral venous occlusion and lymphedema. The program will conclude with a panel discussion and questions and answers from the audience.
Specialty Symposia, continued

(E) **Allied Health Session**

This session is intended for physicians, non-physician providers (NP/PA), RNs/LPNs, sonographers and other allied health care professionals involved in the diagnosis and management of venous disease.

The goal of this session is to instruct attendees to identify and choose the appropriate testing in order to anatomically and physiologically define venous disease, and enable them to set up a precise treatment plan.

Within this defined goal instructors will:

• Provide a comprehensive review of existing data and any new information regarding the natural history, pathogenesis, and the diagnosis and treatment of commonly encountered venous disorders
• Outline an in-depth clinical and diagnostic examination
• Describe the range of venous disorders and their CEAP classification
• Describe and discuss the various treatments
• Discuss the indications for use of different treatment modalities and the clinical circumstances most appropriate for these different treatments and interventions
• Discuss the advantages and possible disadvantages of these varying treatment modalities
• Manage venous disorders according to current AVF guidelines
• Provide care for venous disease in keeping with recent evidence and recommendations

The discussions are geared to move attendees toward an improvement in their clinical decision making, which hopefully will result in an increase in workplace confidence and performance, with the ultimate goal of improved patient outcomes.

(G) **Superficial Venous Disease**

Superficial venous disease is a common disease process and encompasses a broad spectrum of disease. A significant number of minimally invasive methods of treatment are currently available. The objective of this specialty session is to update the audience on these new techniques for superficial disease treatment, specifically highlighting the procedural key points from a faculty of recognized vein experts.

The first session of the symposium will include video presentations of new techniques with simultaneous commentary by faculty. Audience discussion and questions will occur after each segment. The second part of the session will be case oriented case management. Audience participation will be used to discuss the options of care for each case. Moderators will ensure that the key points of each case are elucidated.

After this session participants should be able to:

• Understand updated techniques in superficial venous disease
• Explain the complications and contraindications of new techniques
• Appreciate the different anatomic processes that are best treated by new techniques
• Integrate new techniques into complex venous pathology treatment
• Appreciate financial considerations and roadblocks involved in incorporating new techniques into a practice

(H) **Animal Models in Venous Research**

Animal models have played a vital role in venous thrombosis (VT) research and have contributed enormously to the current understanding of VT biology. Thus, researchers from different institutions have developed several models of VT over the last two decades. Oftentimes, investigators from different backgrounds are subject to contradictory debates regarding the same VT animal models. For instance, our laboratory has a vast experience in the IVC ligation model in mice, rats, and the bi-balloon VT model in baboons. Current debate centers on whether any animal model of thrombo-genesis correlates with spontaneous VT formation in humans. Additionally, there is controversy on whether any given model is more accurate or representative of the disease compared to other models of VT. Unfortunately, the uncertainties surrounding the optimal
application of animal models of VT have been translated in subjective peer review of manuscripts and grant applications, which ultimately holds up our continuous effort to better understand the pathobiology of VT. This symposium represents a step forward to achieve consensus and create guidelines to the use of current available animal models of VT and to identify gaps in the field where new models may be needed.

The objective of the session will be a scientific understanding of the animal models of VT. The speakers will provide details on the surgical technique, advantages, disadvantages and research applications.

This activity is designed for a variety of medical specialties, scientists, veterinarians, bioengineers and healthcare providers, and any person interested in improving the current understanding on animal models of VT and the biological mechanisms that participates in venous disorders.

Pursuant to this session, participants should be able to:

• Understand how the animal models presented in the section function and serve to the study of VT.
• Punctual description of all advantages (strength) and disadvantages (weakness) of each model.
• Current applications of each model presented in the section.
• Provide a complete update of each model to be discussed and incorporated in the future consensus on VT animal models.
Meeting Program — Wednesday, February 25

6:30 am – 6:30 pm
Registration Open

7:00 am – 8:00 am
Continental Breakfast

8:00 am – 12:00 pm
DAVID S. SUMNER VENOUS SUMMIT
Office-Based Vein Centers – The Next Generation
Chair: John Blebea, MD, MBA

The Financial Imperative for Office-Based Vein Centers
Robert F. Merchant, MD

Setting up a Vein Center
Krishna M. Jain, MD

Can You Do It In an Academic Practice?
John Blebea, MD, MBA

The Internet: More than just a Web Page
Victor Sirgado

Marketing Opportunities via Social Media
Michael A. Arata, MD

Direct Payment – Skipping the Insurance Middleman: The Business Perspective
Jim Millaway

Transparent Pricing Directly to Patients – Why I Do It
Sherif Khattab, MD

Sclerotherapy – Cost Effective Protocols to Grow your Practice
Nick Morrison, MD

Venous Ablation – RFA, Laser and Foam: Comparative Choices and Financial Implications
Julianne Stoughton, MD

Non Tumescent Ablative Technologies: Current Status and Future Role
Steven Elias, MD

Deep Vein Interventions – No Longer Just in the Hospital
Antonios P. Gasparis, MD

Vein Center Accreditation – Quality and Differentiation
Ellen D. Dillavou, MD

8:00 am – 11:00 am
Spouse Hospitality

10:00 am – 10:30 am
Break

12:00 pm – 1:00 pm
Lunch Break

1:00 pm – 7:30 pm
Exhibit Hall Open

1:00 pm – 6:00 pm
Poster Hall Open
### 1:00 pm – 1:05 pm
**President & President-Elect Welcome**

### 1:05 pm – 3:05 pm
**SCIENTIFIC SESSION 1**

#### Chronic Venous Obstruction

**Moderators:** Fedor Lurie, MD, PhD; John Blebea, MD, MBA

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<th>Time</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1:05 pm</td>
<td>Randomized Double-blinded Study Comparing Clinical Versus Endovascular Treatment of Iliac Vein Obstruction</td>
<td>F. H. Rossi, A. M. Kambara, N. M. Izukawa, P. B. Metzger, C. B. Betelli, B. L. Almeida, T. O. Rodrigues, I. P. Mascarelli, A. G. Sousa, C. B. O. Rossi; 'Instituto Dante Pazzanese, Sao Paulo, Brazil, 'Instituto Dante Pazzanese, São Paulo, Brazil</td>
</tr>
<tr>
<td>1:05 pm</td>
<td>Hemodynamic Consequences of Deep Venous Obstructive Disease</td>
<td>R. L. M. Kurstjens, M. A. F. de Wolf, I. M. Toonder, R. de Graaf, C. H. A. Wittens; Maastricht University Medical Centre+; Maastricht, Netherlands</td>
</tr>
<tr>
<td>1:05 pm</td>
<td>Nonthrombotic Venous Obstructions Cause Pelvic Congestion Syndrome</td>
<td>S. F. Daugherty; Veincare Centers of Tennessee, Clarksville, TN</td>
</tr>
<tr>
<td>1:05 pm</td>
<td>Endovascular Recanalization of the Non-Malignant Chronically Occluded Inferior Vena Cava</td>
<td>Y. Erben, H. Bjarnason, G. Oladottir, P. Gloviczki; Mayo Clinic, Rochester, MN</td>
</tr>
<tr>
<td>1:05 pm</td>
<td>The Diagnostic Value of the Pubic Collateral in Deep Venous Obstructive Disease</td>
<td>M. A. F. de Wolf, R. L. M. Kurstjens, W. K. P. Arnoldussen, I. M. Toonder, R. de Graaf, C. H. A. Wittens; Maastricht University Medical Center, Maastricht, Netherlands</td>
</tr>
<tr>
<td>1:05 pm</td>
<td>Effects of Venous Stent Placement on Cutaneous Microvascular Function in Iliocaval Venous Obstruction</td>
<td>C. Koksoy, Y. Sevim, Z. Unal, E. Y. Demirel; Ankara University, Ankara, Turkey</td>
</tr>
<tr>
<td>1:05 pm</td>
<td>The Short Term Outcomes of Neovalve Deep Venous Reconstructive Surgery</td>
<td>Y. Hoshino, S. Hoshino; 'Saiseikai Fukuoka General Hospital, Fukuoka, Japan, 'Fukushima Diichi Hospital, Fukushima, Japan</td>
</tr>
<tr>
<td>1:05 pm</td>
<td>Iliac Vein and IVC Stenting: Experience with Post-thrombotic Obstruction Causing C5/C6 Leg Ulceration</td>
<td>R. K. Tripathi, H. Verma; Narayana Institute of Vascular Sciences, Bangalore, India</td>
</tr>
</tbody>
</table>

### 3:05 pm – 3:30 pm
**Coffee Break**
Meeting Program — Wednesday, February 25

3:30 pm – 4:50 pm

**SCIENTIFIC SESSION 2**

**Basic Science**

Moderators: Joseph Raffetto, MD; Thomas Wakefield, MD

<table>
<thead>
<tr>
<th>Session</th>
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<th>Authors and Affiliations</th>
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<tr>
<td>2-7</td>
<td>Blood Sampled Directly From Varicose Veins Reveals Activation of Inflammatory Processes</td>
<td>E. Kalodiki, J. Fareed, D. Syed, G. Geroulakos, D. Hoppensteadt, C. R. Lattimer; 1Josef Pflug Vascular Laboratory, Imperial College London &amp; Thrombosis Haemostasis Research Laboratory, Loyola University Medical Centre, Maywood, IL, 2Thrombosis and Hemostasis Research Laboratory, Loyola University Medical Centre, Maywood, IL, 3Josef Pflug Vascular Laboratory, Imperial College, London, United Kingdom</td>
</tr>
<tr>
<td>2-8</td>
<td>Matrix Metalloproteinase Profiles In Chronic Venous Ulcer Wound Fluid of Inflammatory and Granulating Venous Leg Ulcers</td>
<td>J. D. Raffetto, G. Mosti, M. Santi, D. Ligi, F. Mannello; 1VA Boston HCS, West Roxbury, MA, 2Angiology Department, Lucca, Italy, 3University “Carlo Bo” of Urbino, Urbino, Italy</td>
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</table>

5:00 pm – 6:06 pm

**POSTER PRESENTATIONS**

Moderators: Marc Passman, MD

<table>
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<tr>
<th>Poster</th>
<th>Title</th>
<th>Authors and Affiliations</th>
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<tbody>
<tr>
<td>P1</td>
<td>Venous Thoracic Outlet Syndrome: Single Admission Compared With Staged Treatment</td>
<td>J. P. Knepper, E. Criado; University of Michigan, Ann Arbor, MI</td>
</tr>
<tr>
<td>P2</td>
<td>Let Classification As Predictor For Severe Post Thrombotic Syndrome (PTS)</td>
<td>R. H. W. Strijkers, M. de Maeseneer, C. Baas, P. Nelemans, A. J. ten Cate-Hoek, C. H. A. Wittens; 1Maastricht University Medical Center, Maastricht, Netherlands, 2Erasmus Medical Centre, Rotterdam, Netherlands</td>
</tr>
<tr>
<td>P3</td>
<td>Electrical Stimulation of The Foot Pump: A Pilot Randomised Control Trial In Patients With Chronic Venous Insufficiency</td>
<td>R. Ravikumar, A. H. Davies; 1Imperial College London, London, United Kingdom, 2Academic Section of Vascular Surgery, Imperial College London, London, United Kingdom</td>
</tr>
<tr>
<td>P4</td>
<td>Microbubble Detection In The Right Heart During Mechanochemical And Radiofrequency Ablation Of The Great Saphenous Vein</td>
<td>B. Dharmarajah, K. H. Moon, R. Booten, C. S. Lim, T. R. A. Lane, H. M. Moore, K. Sritharan, A. Davies; Academic Section of Vascular Surgery, Imperial College London, London, United Kingdom</td>
</tr>
<tr>
<td>P5</td>
<td>Medusa Vascular Plug For Ovarian Vein Incompetence: A Feasibility Trial</td>
<td>J. I. Almeida, K. A. Stecco, D. J. Griffin, C. Bautista, J. J. Javier, E. G. MacKay; 1Miami Vein Center, Miami, FL, 2Kathryn A. Stecco, M.D., San Jose, CA, 3Radiology Imaging Associates, Englewood, CO, 4Canela Clinic, La Romana, Dominican Republic, 5Vein Center at Physicians Regional, Naples, FL, 6MacKay Vein Institute, St. Petersburg, FL</td>
</tr>
<tr>
<td>P6</td>
<td>Magnetic Resonance Imaging In Proximal Venous Outflow Obstruction</td>
<td>B. B. Massenburg, H. N. Himel, M. L. Marin, P. L. Faries, W. Ting; Icahn School of Medicine at Mount Sinai, New York, NY</td>
</tr>
<tr>
<td>P7</td>
<td>Pilot Trial Of Neuromuscular Stimulation In The Management Of Chronic Venous Disease</td>
<td>K. J. Williams, A. Babber, R. Ravikumar, A. H. Davies; Imperial College London, London, United Kingdom</td>
</tr>
</tbody>
</table>
Meeting Program — Wednesday, February 25

P8  Effect Of Vasoactive Drugs On The Regulation Of Venous Blood Flow In Wistar Rats
A. C. Fioretti¹, M. A. Sato¹, R. L. Almeida², C. A. Ogihara¹; ¹Faculdade De Medicina ABC, Sao Paulo, Brazil, ²Faculdade de Medicina ABC, Santo Andre, Brazil

P9  The Global Prevalence Of Chronic Venous Ulceration Of The Lower Limb
S. Halim, R. Velineni, A. H. Davies; Academic Section of Vascular Surgery, Imperial College London, London, United Kingdom

P10  A Novel Technique For Perforator Closure Using The Clarivein® Infusion Catheter
R. Tadros, K. Reynolds, S. Y. Kim, A. Vouyouka, W. Beckerman, D. Fremed, M. Marin, P. Faries, W. Ting; The Icahn School of Medicine at Mount Sinai, New York, NY

P11  Effects On Quality Of Life In C1–6 Superficial Venous Disease Before And After Invasive Treatment
F. S. Catarinella, F. Nieman, I. Wittens, C. Wittens; Maastricht University Medical Centre, Maastricht, Netherlands

P12  Outcome Of Ultrasound Detected Recurrence In The Groin Following Sapheno-femoral Treatment: A 5-year Prospective Study
A. M. van Rij, M. P. T. Versteeg, J. MacFarlane, G. B. Hill; University of Otago, Dunedin, New Zealand

P13  Successful Treatment Of Chronic Venous Ulcers With A 1320nm Endovenous Laser Combined With Other Minimally Invasive Venous Procedures: A Prospective Case Series
A. Wysong¹, B. Taylor2, V. Mishra3, R. Gilbertson3, J. D. Crawford3, ¹University of Southern California, Los Angeles, CA, 2University of Florida, Gainesville, FL, 3University of Texas - San Antonio, San Antonio, TX, 4Scripps Clinic, San Diego, CA

P14  Intra-procedural Pain Score In A Randomised Controlled Trial Comparing Mechanochemical Ablation To Radiofrequency Ablation - The Multicentre Venefittm Versus Clarivein® For Varicose Veins (vvcvv) Trial
R. Bootun¹, T. R. A. Lane¹, B. Dharmarajah¹, C. S. Lim¹, M. Najem¹, S. Renton², K. Sridharan¹, A. H. Davies¹; ¹Imperial College London, London, United Kingdom, ²North West London Hospitals NHS Trust, London, United Kingdom

P15  Post Thrombotic Syndrome in Children
M. I. Qureshi¹, K. Vosicka¹, A. BusuttilP, S. Shapiro¹, C. S. Lim¹, A. H. Davies¹; ¹Academic Section of Vascular Surgery, Imperial College London, London, United Kingdom, ²Imperial College London, London, United Kingdom, ³Guy's & St Thomas' NHS Foundation Trust, London, United Kingdom

P16  Complete Varicose Vein Surgery Improves Vcss - Advantages Of Ablation Plus Tipp
A. T. Obi¹, B. N. Reames¹, T. J. Rook², S. O. Mouch³, C. Stabler¹, J. E. Rectenwald¹, D. M. Coleman¹, D. M. Coleman¹, T. W. Wakefield¹; ¹University of Michigan, Ann Arbor, MI, ²Pennsylvania State College of Medicine, Hershey, PA

P17  Greater Saphenous Vein Aneurysms: A Rare Cause Of Groin Swelling And Pulmonary Embolism
J. D. Crawford¹, J. P. Jundt¹, J. Gold-Markel¹, M. I. Foley¹, C. C. Huang¹, M. F. Barnatan², A. D. Nicoloff¹; ¹Oregon Health and Sciences University, Portland, OR, ²Legacy Columbia Vascular Group, Portland, OR

P18  The Use Of Inferior Vena Cava Filters During Percutaneous Endovascular Treatment For Proximal Deep Venous Thrombosis
A. Busuttil, K. J. Williams, A. H. Davies; Imperial College London, London, United Kingdom

P19  The Incidence of Primary Venous Insufficiency In Patients With Deep Venous Thrombosis: A Prospective Study
M. Shaydakov, A. J. Comerota, F. Lurie; Jobst Vascular Institute, Toledo, OH

P20  Metabolic Profiling of Patients with Differing Severity of Venous Disease
K. Spagou, R. Velineni, J. Penn, A. H. Davies; Imperial College London, London, United Kingdom

P21  Modelling Vein Wall Thickness Under Tumescence and The Implications for Endovenous Thermoablation Devices
T. J. Fernandez-Hart, M. S. Whiteley; The Whiteley Clinic, Guildford, United Kingdom

P22  Effect Of Number of Passes And Gauge of Needle on The Longevity of Tessari Foam for Sclerotherapy
A. M. Whiteley, S. J. Dos Santos, A. L. Cleese, J. Wojnicka, C. Walters, M. S. Whiteley; The Whiteley Clinic, Guildford, United Kingdom

6:00 pm – 7:30 pm
Welcome Reception
Meeting Program — Thursday, February 26

6:00 am – 7:00 pm
Registration Open

6:30 am – 7:30 am
Continental Breakfast
Breakfast with the Board (New Members Only)

7:30 am – 7:00 pm
Poster Hall Open

8:00 am – 11:00 am
Spouse Hospitality

7:30 am – 9:30 am
SCIENTIFIC SESSION 3
Venous Thromboembolism/IVC Filters
Moderators: Glenn Jacobowitz, MD; Suresh Vedantham, MD

7:30 am – 7:50 am
3-10 Equivalent Outcomes between Ultrasound-Assisted Thrombolysis and Standard Catheter-Directed Thrombolysis for the Treatment of Acute Pulmonary Embolism
N. L. Liang, E. D. Avgerinos, L. K. Marone, M. J. Singh, M. S. Makaroun, R. A. Chaer; University of Pittsburgh Medical Center, Pittsburgh, PA *Servier Traveling Fellowship Award Finalist

7:50 am – 8:10 am
3-11 Prospective Long Term Comparison of Anticoagulation Treatment versus Thrombolysis in Patients with Acute Iliofemoral Thrombosis
G. Spentzouris1, N. Labropoulos1, P. Foegh1, A. Gasparis1, A. Tassiopoulos1, N. Bækgaard1; Stony Brook University Hospital, Stony Brook, NY; Vascular Clinic, Gentofte Hospital and Rigshospitalet, University of Copenhagen, Copenhagen, Denmark *Servier Traveling Fellowship Award Finalist

8:10 am – 8:30 am
3-12 Contrast Enhanced Ultrasound for Thrombus Dissolution in an In-vitro Model of Acute Deep Vein Thrombosis
B. Dharmarajah1, T. A. McKinnon2, C. Keravnou3, M. A. Averkiou3, E. L. S. Leen5, A. H. Davies5; 1Academic Section of Vascular Surgery, Imperial College London, London, United Kingdom, 2Department of Haematology, Imperial College London, London, United Kingdom, 3Department of Mechanical and Manufacturing Engineering, University of Cyprus, Nicosia, Cyprus, 5Division of Experimental Medicine, Imperial College London, London, United Kingdom

8:30 am – 8:50 am
3-13 Prevalence and Clinical Outcome of Free-floating Thrombus Formation in Lower Extremity Deep Veins
T. Yamaki, H. Konoeda, A. Osada, Y. Hasegawa, H. Sakurai; Tokyo Women's Medical University, Tokyo, Japan

8:50 am – 9:10 am
3-14 Novel Endovascular Grasper for Challenging Inferior Vena Cava Filter Retrieval
D. Rathbone1, J. Zinter1, L. Ghandour1, T. Sarac1, A. Dardik4, C. Ochoa Chaar1; 1Yale Department of Mechanical Engineering and Materials Science, New Haven, CT, 2American University of Beirut, Department of Epidemiology and Population Health, Beirut, Lebanon, 3Yale School of Medicine, Department of Surgery, Section of Vascular Surgery, New Haven, CT, 4VA Connecticut Healthcare system, Department of Surgery, Division of Vascular Surgery, West Haven, CT

9:10 am – 9:15 am
Q3-5 Predictors of D-dimer Utilization in Patients Presenting with Limb Swelling in a High Volume Tertiary Care Center
A. Mousa1, M. Broce2, M. Kali2, E. Barsoum2, R. Mahrous2, A. F. AbuRahma1; 1WVU, Charleston, WV, 2Center for Health Services and Outcomes Research, Charleston Area Medical Center Health Education and Research Institute, Charleston, WV, 3Clinical Trials & Clinical Sciences Research Center, Charleston Area Medical Center Health Education and Research Institute, Charleston, WV

9:15 am – 9:20 am
Q3-6 Accuracy of VTE Assessment and Compliance to Prophylaxis
P. Kim, A. Gasparis, K. Probeck, D. Elitharp, A. Tassiopoulos, N. Labropoulos; Stony Brook Medicine, Stony Brook, NY
Meeting Program — Thursday, February 26

9:00 am – 1:00 pm
Exhibit Hall Open

9:30 am – 10:00 am
Coffee Break

10:00 am – 11:30 am
ACP SYMPOSIUM

Recurrent Varicose Veins – Comparison of Various Treatment Modalities – What Have We Learned?
Chair: Mark Forrestal, MD, FACPh

Intro: Recurrent Varicose Veins - Comparison of Various Treatment Modalities - What Have We Learned
Mark Forrestal, MD, FACPh

Diagnostic Imaging - Patterns
Diana Neuhardt, RVT, RPhS

What We Have Learned Post Sclerotherapy (Endovenous Chemical Ablation)
Mark Forrestal, MD, FACPh

Surgery and Endovenous Therapies - Similarities and Differences in RVVs
Armen Roupenian, MD, FACS, RVT, RPVI

Does Compression Play a Role in Reducing RVVs?
Lisa Pavone, MD

What Do We Know About RVV Prevention - Is it Disease Progression?
Kathleen Gibson, MD

10:00 am – 10:30 am
Best Papers
Moderators: Robert McLafferty, MD; Joanne Lohr, MD

10:00 am – 10:10 am
European Venous Forum - Best Paper 1
Rates of duplex-detected recanalisation 5 years after ultrasound-guided foam sclerotherapy and relationship with clinical, haemodynamic and patient-reported outcomes
K. A. L. Darvall, G. R. Bate, A. W. Bradbury; University of Birmingham Department of Vascular Surgery, Birmingham, UK

10:10 am – 10:20 am
European Venous Forum - Best Paper 2
Validation of the Caprini Risk Score for Venous Thromboembolism (VTE) in High Risk Surgical Patients
K. Lobastov, V. Barinov, L. Laberko, V. Boyarintsev; The Pirogov Russian National Research Medical University, Moscow, Russia

10:20 am – 10:30 am
American College of Phlebology - Best Paper
Incidence of Venous Leg Ulcer Healing and Recurrence after Treatment with Endovenous Laser Ablation
W. Marston; University of North Carolina School of Medicine, Chapel Hill, NC
Meeting Program — Thursday, February 26

10:30 am – 11:30 am

VILLAVICENCIO SYMPOSIUM

Present and Future of Venous Health Care

*Chairs: Lowell Kabnick, MD; Peter Lawrence, MD*

- **Introduction: What now? What Later?**
  *Peter Lawrence, MD*

- **Vein Center Accreditation: Significance Now? Significance Later? National Determination Policy?**
  *Lowell Kabnick, MD*

- **Physician Reimbursement System: Now and Future**
  *Glenn Jacobowitz, MD*

- **How Can/Should the AVF Influence Venous Health Care?**
  *Fedor Lurie, MD, PhD*

11:30 am – 12:20 pm

D. EUGENE STRANDNESS MEMORIAL LECTURE

Venous Disease Research Support by the National Institutes of Health

*Keynote Speaker: Andrei L. Kindzelski, MD, PhD*

12:20 pm – 1:30 pm

Lunch Buffet

12:20 pm

Open Afternoon

12:30 pm – 5:30 pm

Venous Open Golf Outing

The annual Venous Open golf outing will provide golfers of all levels with an afternoon on the beautiful Westin Mission Hills golf course, the chance to win several prizes, play a “beat the pro” contest with LPGA Hall-of-Famer Amy Alcott, and enjoy an evening reception with colleagues and friends.

12:30 om - 1:00 pm  Lunch provided near entrance to Diabolically Dye course
1:00 pm    Set up
1:15 pm sharp  Tee time
5:30 pm - 8:00 pm  Post Golf Reception
### Meeting Program — Friday, February 27

<table>
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<th>Event</th>
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<tr>
<td>6:00 am – 5:30 pm</td>
<td>Registration Open</td>
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<tr>
<td>6:00 am – 8:00 am</td>
<td>Continental Breakfast</td>
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<tr>
<td>6:00 am – 10:00 am</td>
<td>Exhibit Hall Open</td>
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<tr>
<td>6:30 am – 8:00 am</td>
<td>Industry Advisory Breakfast</td>
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#### SPECIALTY SYMPOSIA

**A)** Biomechanics & Bioengineering: Structure-Function Relation of Veins in Health and Disease  
*Chairs: Michael Dalsing, MD; Ghassan Kassab, PhD*

- **Biomechanics of Veins**  
  Ghassan Kassab, PhD

- **Controversies in IVC Flow**  
  Seshadri Raju, MD

- **Are Gene Expression Patterns in Venous and Arterial Endothelial Cells Highly Plastic and Interchangeable?**  
  Mervin Yoder, MD

- **Venous Thrombosis – Convergence of Thrombosis and Inflammation with Special Emphasis on Endothelial Barrier**  
  Thomas Wakefield, MD

- **Vascular Remodeling and the Dynamic Adjustment of Arterial/Venous Identity**  
  Zorina Galis, PhD

- **Interactions of Matrix Metalloproteinases on Venous Wall Function and Remodeling: Implications on Chronic Venous Disease**  
  Joseph Raffetto, MD

- **Clinical Venous Growth and Remodeling**  
  Michael Dalsing, MD

**B)** Wound Care, Lymphedema & Compression  
*Chairs: Joseph Caprini, MD; Alessandra Puggioni, MD*

- **Develop a Rational Approach to the Evaluation and Treatment of a Variety of Wounds**  
  William Marston, MD

- **Cutaneous Manifestations of Vascular Disease**  
  Thom Rooke, MD

- **An Overview of Lymphedema for the Vascular Surgeon**  
  Caroline Fife, MD

- **Describe the Pathophysiology of Mixed Arterial and Deep Venous Insufficiency of the Lower Extremity and the Approach to Treatment**  
  Alessandra Puggioni, MD

- **Review the Indications, Benefits and Discuss Different Compression Modalities for Venous and Lymphatic Disorders**  
  Joseph Caprini, MD

- **Understand the Approach to Superficial Vein Ablation in the Face of Manifestations of Venous Insufficiency**  
  Thomas O’Donnell, MD
Meeting Program — Friday, February 27

(C) **Deep Venous Disease**  
*Chairs: Suresh Vedantham, MD; Luis Leon, MD*

- **When Should a New Oral Anticoagulant be Used for Acute DVT**  
  *Raghu Kolluri, MD*

- **Which Venogram-occult Iliac Vein Lesions Should be Treated?**  
  *Paul Gagne, MD*

- **Update on Pivotal Clinical Trials in Deep Venous Disease**  
  *Riyaz Bashir, MD*

- **Catheter-directed Thrombolysis for Submassive PE: Use it – It Improves Cardiac Hemodynamics**  
  *Tod Engelhardt, MD*

- **Catheter-directed thrombolysis for submassive PE: Not Ready for Prime Time**  
  *Akhilesh Sista, MD*

- **Catheter-directed thrombolysis for femoropopliteal DVT: Use it Regularly**  
  *Akhilesh Sista, MD*

- **Catheter-directed thrombolysis for femoropopliteal DVT: Don’t Use It**  
  *Riyaz Bashir, MD*

(D) **Vascular Medicine & Thrombosis**  
*Chairs: Teresa Carman, MD; Anthony Comerota, MD*

- **The Greatest Paradox in Medicine**  
  *Theodore Warkentin, MD*

- **New Observations with IVC Filters**  
  *John Rectenwald, MD*

- **Compression is Not a Key Component of Treating DVT Patients: The SOX Trial**  
  *Susan Kahn, MD*

- **Compression Remains Important for DVT Patients: Despite the Results of the SOX Trial**  
  *Nicos Labropoulos, PhD*

- **Does Idiopathic VTE Require Indefinite Anticoagulation?**  
  *Teresa Carman, MD*

- **Insightful Use of the Target Specific Oral Anticoagulants**  
  *Thomas Wakefield, MD*

- **The ACCESS Trial: Catheter Based Therapy for Post-Thrombotic Venous Disease**  
  *Mark Garcia, MD*

- **What is Chronic Post-Thrombotic Iliofemoral Venous Occlusion: Is it Avoidable? Can it be Corrected?**  
  *Anthony Comerota, MD*

- **So my Patient has Lymphedema … Now What?**  
  *Thom Rooke, MD*

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8:00 am – 10:00 am  
**Poster Hall Open**

8:00 am – 11:00 am  
**Spouse Hospitality**
Meeting Program — Friday, February 27

8:00 am – 9:30 am

SCIENTIFIC SESSION 4
Compression/Wound Care/Lymphedema
Moderators: William Ennis, MD; Kathleen Ozsvath, MD

8:00 am – 8:20 am
4-15 Is Superficial Venous Surgery in C6 Patients Justified from a Cost/Benefit Viewpoint
S. Luis, T. F. O'Donnell, Jr., E. Tangney, M. Iafrati; Tufts Medical Center, Boston, MA

8:20 am – 8:40 am
4-16 A Randomized Trial of Elastic Compression Systems with High and Very High Sub-bandage Pressure Values in the Prevention of Recurrence of Venous Ulceration
D. J. Milic1, S. Zivic1, D. Peric1, J. Petrovic1, D. Bogdanovic1; 1Clinic for vascular surgery, Clinical Centre Nis, Nis, Serbia, 2Medical school Nis, Nis, Serbia

8:40 am – 9:00 am
4-17 Variability in Compression Provided By Commercial Stockings
H. Ma, J. Blebea; The University of Oklahoma, Tulsa, OK

9:00 am – 9:20 am
4-18 Vascularized Lymph Node Transfer for Lymphedema: Anatomic Comparison of the Supraclavicular and Thoracodorsal Lymph Node Flaps
C. Pannucci1, P. A. Gerety2, M. N. Basta2, A. R. Wang2, C. Mies1, P. Zhang1, S. K. Kanchwala2; 1University of Utah, Salt Lake City, UT, 2University of Pennsylvania, Philadelphia, PA

9:20 am – 9:25 am
Q4-9 Use of Compression Stockings in Chronic Venous Disease: Validation of a New Device to Assess Patient Compliance
J. Uhl1, J. Benigni2, M. Chahim2, A. Cornu-Thendard2; 1University Descartes, Trielsur seine, FRANCE, 2University Descartes, Paris, France

9:25 am – 9:30 am
Q4-10 The Visible Lymphatic Vessels of the Lower Extremities - A Preliminary Study by the Contrast Ultrasonography
S. Matsubara1, J. Maegawa1, S. Kitayama1, T. Mikami2, K. Hirotomi2, E. Adachi2, S. Kagimoto2, Y. Sasaki3, Y. Maruyama3, Y. Yabuki2; 1Yokohama City Univ, Kanagawa, Japan, 2Yokohama City Univ, Kanagawa, JAPAN, 3KKR Tokai Hospital, Aichi, Japan

9:30 am – 10:00 am
Coffee Break

10:00 am – 12:00 pm
PRESIDENT’S SESSION

10:00 am – 10:10 am
2014 Servier Travelling Fellowship Reports
Rafael Malgor, MD
Adam Ring, MD

10:10 am – 10:20 am
2014 BSN Jobst Research Grant - Interim Report
Harry Ma, MD

10:20 am – 11:00 am
AVF Reports and Updates

11:00 am – 11:15 am
Presidential Address Introduction
John Blebea, MD, MBA

11:15 am – 12:00 pm
Presidential Address
Fedor Lurie, MD, PhD
Meeting Program — Friday, February 27

12:10 pm – 1:10 pm
Member Business Luncheon

1:10 pm – 3:10 pm

SCIENTIFIC SESSION 5
Superficial Venous Disease
Moderators: Antonios Gasparis, MD; Harold Welch, MD

1:10 pm – 1:30 pm
5-19 The Effect of Obesity on Long-term Outcomes After Ultrasound-guided Foam Sclerotherapy
K. Darvall, H. Davies, G. Bate, A. Bradbury; Birmingham University Department of Vascular Surgery, Solihull, United Kingdom

1:30 pm – 1:50 pm
5-20 Three-year Follow-up of First Human Use of Cyanoacrylate Adhesive for Treatment of Saphenous Vein Incompetence
J. I. Almeida1, J. J. Javier1, E. G. Mackay1, C. Bautista1, D. Cher1, T. M. Proebstle1; 1Miami Vein Center, Miami, FL, 2Vein Center at Physicians Regional, Naples, FL, 3Mackay Vein Institute, Largo, FL, 4Canela Clinic, La Romana, Dominican Republic, 5Wild Iris Consulting LLC, Palo Alto, CA, 6University Clinic of Mainz, Mannheim, Germany

1:50 pm – 2:10 pm
5-21 Factors That Influence Immediate Perforator Vein Closure Rates Using Radiofrequency Ablation, Laser Ablation or Foam Sclerotherapy
E. Hager1, A. Steimmetz2, C. B. Washington1, T. Wu1, M. J. Singh1, T. S. Kenkre1, E. Dillavou1; 1University of Pittsburgh Medical Center, Pittsburgh, PA, 2University of Pittsburgh, Pittsburgh, PA

2:10 pm – 2:30 pm
5-22 Venous Drainage in Controls and Patients with Chronic Venous Insufficiency
C. R. Lattimer1, E. Kalodiki1, E. Mendoza2; 1Ealing Hospital & Imperial College, Middlesex, United Kingdom, 2Venenpraxis, Wunstorf, Germany

2:30 pm – 2:50 pm
5-23 The Impact of Race on Advanced Chronic Venous Insufficiency
A. Dua1, S. S. Desai1, J. A. Heller1; 1Medical College of Wisconsin, Milwaukee, WI, 2Southern Illinois University, Springfield, IL, 3Johns Hopkins Vein Center, Baltimore, MD

2:50 pm – 3:10 pm
5-24 One Year Outcome of Endovenous Micro-pulsed Laser Ablation for Incompetent Great Saphenous Vein
N. Sakakibara1, R. Kansaku1, H. Akashi1, H. Yamaoka1, A. Amano2; 1Edogawa Hospital, Edogawa-Ku, Tokyo, Japan, 2Juntendo University School of Medicine, Bunkyo-Ku, Tokyo, Japan

1:10 pm – 4:10 pm

SPECIALTY SYMPOSIA
(E) Allied Health Session
Chairs: Linda Antonucci, RPhS, RVT, RDCC; Jean White-Melendez, RVT, RPhS, FSVU

Introduction and Welcome
Linda Antonucci, RPhS, RVT, RDCC

The Complexities of Venous Anatomy & Physiology Unraveled
Jean White-Melendez, RVT, RPhS

Thorough Evaluation of the DEEP System
Gail Size, BS, RVT, RVS, RPhS, FSVU

Generating an Accurate and Comprehensive Vein Mapping
Jean White-Melendez, RVT, RPhS

Correlating the Ultrasound Findings with the Clinical Picture and Creating a Well-Defined Treatment Plan
Cindy Felty, RN-CNP, FCCWS
Meeting Program — Friday, February 27

Treating the Patient NOT the Diagnostic Findings
Cindy Felty, RN-CNP, FCCWS

Non-saphenous Superficial Vein Reflux: Typical Patterns, What and When to Treat, Complications, Treatment Modalities, and Outcomes
Kandy Hammond, RN, BSN, MBA/HCM

Post Intervention Evaluation: Unearthing the Source of Recurrence
Linda Antonucci, RPhS, RVT, RDCS

Perioperative Duplex Ultrasound Following Endothermal Ablation of the Saphenous Vein: Is it Worthless?
Lowell S. Kabnick, MD, RPhS, FACS, FACPh

Managing Patient Expectations and Improving Patient Outcomes
Cindy Felty, RN-CNP, FCCWS

Perioperative Anticoagulation Management and Outcomes for Endothermal Ablative Surgery
Glenn R. Jacobowitz, MD, FACS, RVT

(F) Wound Care, Lymphedema & Compression
Chairs: Joseph Caprini, MD; Alessandra Puggioni, MD

Develop a Rational Approach to the Evaluation and Treatment of a Variety of Wounds
William Marston, MD

Cutaneous Manifestations of Vascular Disease
Thom Rooke, MD

An Overview of Lymphedema for the Vascular Surgeon
Caroline Fife, MD

Describe the Pathophysiology of Mixed Arterial and Deep Venous Insufficiency of the Lower Extremity and the Approach to Treatment
Alessandra Puggioni, MD

Review the Indications, Benefits and Discuss Different Compression Modalities for Venous and Lymphatic Disorders
Joseph Caprini, MD

Understand the Approach to Superficial Vein Ablation in the Face of Manifestations of Venous Insufficiency
Thomas O’Donnell, MD

(G) Superficial Venous Disease
Chairs: Ellen Dillavou, MD; Steven Elias, MD

RF Ablation
Kathleen J. Ozsvath, MD

Laser Ablation
Jose Almeida, MD

Visual Sclero
Jennifer Heller, MD

Foam
Kathleen Gibson, MD

Cyanoacrylate Glue
Nick Morrison, MD

Phlebectomy – All Types
Mark Passman, MD

Mechanical Occlusion Chemically Assisted/MOCA 1
Anthony Carabasi, MD
Meeting Program — Friday, February 27

(H) Animal Models in Venous Research
Chair: Jose Diaz, MD

- Introduction, Animal Models of VT, Where We Are
  Jose Diaz, MD
- The Use of Flow-mediated Thrombus Resolution Using a Modified IVC Thrombosis Model in Venous Research
  Brajesh Lal, MD
- The Use of Femoral Vein Electrolytic Injury with Intravital Fluorescence Imaging in Venous Thrombosis Research
  Brian C. Cooley, PhD
- The Use of a New IVC Recurrence Model in Venous Research
  Peter Henke, MD
- The Use of a New IVC Stenosis Model in Venous Research
  Julia Geddings
- The Use of EIM to Create New Models in Venous Research
  Jose Diaz, MD

3:10 pm – 3:40 pm
Coffee Break

3:40 pm – 5:10 pm
SCIENTIFIC SESSION 6
Diagnostic Testing/Imaging
Moderators: Nicos Labropoulos, PhD; Colleen Moore, MD

3:40 pm – 4:00 pm
6-25 Real Time Visualization of Lymphatic Dysfunction in Venous Ulcer Patients
E. Sevick-Muraca¹, E. A. Maus², R. Guilliod⁴, J. C. Rasmussen¹, I. Tan¹, M. B. Aldrich¹, C. E. Fife⁵; ¹University of Texas Health Science Center, Montgomery, TX, ²Memorial Hermann Hospital, Houston, TX, ³University of Texas Health Science Center, Houston, TX

3:40 pm – 4:20 pm
6-26 Creation and Validation of a Condition-specific Venous Thromboembolism Risk Assessment Tool for Open Ventral Hernia Repair Patients
C. J. Pannucci¹, M. N. Basta², J. F. Fischer², S. J. Kovach²; ¹University of Utah, Salt Lake City, UT, ²University of Pennsylvania, Philadelphia, PA

3:40 pm – 4:40 pm
6-27 Increasing the Diagnostic Sensitivity of Non-Invasive Imaging Techniques Before and After Iliac Vein Stenting
E. Murphy, D. Nguyen, E. Varney, C. Stears, S. Raju; The Rane Center at St. Dominic Hospital, Jackson, MS

3:40 pm – 5:00 pm
6-28 The Bull’s Eye Sign and Other Femoral and Supra-inguinal Venographic Findings in Patients with Chronic Venous Stasis: A New Classification to Limit the Use of Intravascular Ultrasound (IVUS)
E. Ascher¹, N. J. Bauer², J. Eisenberg², A. Hingorani², N. Marks²; ¹Vascular Institute of New York, New York, NY, ²Vascular Institute of New York, Brooklyn, NY

3:40 pm – 5:10 pm
Q6-11 Patterns of Pediatric Venous Insufficiency
E. A. Andraska, D. Horne, D. Campbell, J. Eliason, T. W. Wakefield, D. M. Coleman; University of Michigan, Ann Arbor, MI

5:05 pm – 5:10 pm
Q6-12 Quantifying Saphenous Recirculation in Patients with Superficial Venous Insufficiency
C. R. Lattimer, M. Azzam, E. Kalodiki, G. Geroulakis; Ealing Hospital & Imperial College, Middlesex, United Kingdom

6:30 pm – 10:00 pm
FORUM FINALE
The Forum Finale will feature a reception, awards presentation, dinner, live music and an exclusive silent auction.
POSTER DISPLAYS

PD1 Diagnosis And Treatment Difficulties In The Association Of The Sapheno-popliteal Valve Insufficiency With The Insufficiency Of The Oblique Communicating Vein Of The Calf
V. Ciubotaru; Flebestet Medical Clinic, Bucharest, Romania

PD2 Mechanochemical Ablation For Endovenous Occlusion: The Hungarian Experience
A. Szabo; VP-Med Health and Education Center, Budapest, Hungary

PD3 Potential Clinical Applications For Electrical Muscle Stimulation In Venous Disease
R. Ravikumar¹, A. H. Davies²; ¹Imperial College London, London, United Kingdom, ²Academic Section of Vascular Surgery, Imperial College London, London, United Kingdom

PD4 Pre-operative Cardiovascular Comorbidities Are Independent Predictors Of Venous Thromboembolism Following Total Knee Arthroscopy
K. H. Nagarsheth, J. Schor, J. Deitch; Staten Island University Hospital, Staten Island, NY

PD5 Changes In The Rate Of Prophylactic Vena Cava Filter Insertion At A University Hospital
A. H. Smith, D. Adrahtas, D. Elitharp, A. P. Gasparis, N. Labropoulos, A. K. Tassiopoulos; SUNY Stony Brook School of Medicine, Stony Brook, NY

PD6 Clinical Correlation With Results Of Endovenous Therapy For Leg Swelling
D. Rybitskiy¹, A. Alsheekh², A. Hingorani¹, E. Ascher¹, N. Marks²; ¹Lutheran Medical Center, Brooklyn, NY, ²Vascular Institute of New York, Brooklyn, NY

PD7 Modulation Of Matrix Metalloproteinases In Arthroplasty Patients And Their Relevance In Inflammatory And Thrombotic Activation
K. Alexander, A. Banos, D. Hoppensteadt, J. Fareed, W. Hopkinson; Loyola University Medical Center, Maywood, IL

PD8 Treatment Of Perforator Vein: Impact On Venous Clinical Severity Score And Clinical Etiology Anatomy Pathophysiology
U. N. Onyeachom¹, S. Sujana²; ¹Heart and Vascular Outcomes Research Institute, Beverly, MA, ²Boston University School of Public Health, Boston, MA

PD9 Long-term Venous Ulcer Healing And Recurrence After Ultrasound-guided Foam Sclerotherapy
K. Darvall, H. Davies, G. Bate, A. Bradbury; Birmingham University Department of Vascular Surgery, Solihull, United Kingdom

PD10 Effect Of Sulodexida In The Treatment Of Venous Ulcer
A. J. Gonzalez, Sr.; Isstesston, San Luis Rio Colorado, Mexico

PD11 Hybrid Intervention For Treatment Of Nutcracker Syndrome
A. Jayaraj, P. Gloviczki; Mayo Clinic, Rochester, MN

PD12 Monocentric Propective Not Randomized Study For Treatment Of The Reflux Of The Short Saphenous Vein (ssv) By Crosssection And Stripping Versus Thermal Ablation By Radiofrequency (rf): Short And Medium Results P. H. R. Nicolini; Clinique du Parc, Lyon, France

PD13 Comparison Of Dedicated Venous Stent Performance In Deep Venous Reconstructions
R. de Graaf, M. de Wolf, R. Kurstjens, C. Wittens; European Venous Centre, Maastricht, Netherlands

PD14 The Staged Treatment Of Varicose Veins After Saphenous Ablation: Late Term Patient Reported Outcomes Does Not Solve The Debate
H. J. Welch¹, D. L. Monahan¹; ¹Lahey Clinic, Burlington, MA, ²Monahan Vein Clinic, Roseville, CA

PD15 Air Embolism Following Sclerotherapy
D. A. Hill; The Vein Treatment Centre, Calgary, AB, Canada

PD16 Osseous Origin Of Superficial Calf Varices
W. S. Gradman; Beverly Hills Vein Center, Los Angeles, CA

PD17 Is The Reintroduction Of Bovine Heparin Justified Based On Its Biosimilarity To Porcine Heparin?
J. Fareed¹, E. Kalodiki¹, W. Jeske¹, J. M. Walenga¹, D. Hoppensteadt¹, R. Wahl¹; ¹Thrombosis and Hemostasis Research Laboratory, Maywood, IL, ²Thoracic and Cardiovascular Surgery, Maywood, IL, ³Center for Vascular Medicine, Greenbelt, MD
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PD18  Radical Nephrectomy And Thrombectomy For Tumor Thrombus Of Inferior Vena Cava In Renal Cell Carcinoma Patients - Single Institutional Experience  
R. Dodla; Northshore Long Island Jewish Health System, Manhasset, NY

PD19  Ambulatory Selective Varices Ablation Under Local Anesthesia In Patients With Active Ulcer  
S. Chastanet, P. Pittaluga; Riviera Veine Institut, Monaco, Monaco

PD20  Surgical Treatment Of Varicose Veins In Elderly Patients: Is It Safe For Cosmetic Or Functional Indications  
P. Pittaluga, S. Chastanet; Riviera Veine Institut, Monaco, Monaco
Registration Information

How to Register
Register online at www.veinforum.org. Please note: AVF members should use the email address that AVF has on file when registering online. Alternately, you can mail or fax the Meeting Registration Form available on the AVF website.

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Dates to Remember
• Registration Cancellation Deadline: January 24, 2015
• Hotel Reservation Deadline: February 2, 2015
• Pre-Registration Deadline: February 11, 2015

Registration Fees
To receive the discounted rate registration must be received by the deadlines listed under Dates to Remember. All registrations received after Tuesday, February 11, 2015 will be subject to the onsite rates. An email address must be provided in order to receive a registration confirmation.

Member and Non-member registration includes all scientific sessions, industry sponsored symposia, Thursday lunch buffet, continental breakfasts, coffee breaks, and the Welcome Reception.

The half-day David S. Sumner Venous Summit is by separate subscription and includes a continental breakfast and coffee break.

Spouse/Guest registration is by separate subscription and includes daily breakfasts in the Hospitality Suite, admittance to the Welcome Reception, and access to the Exhibit Hall.

Accepted Forms of Payment
Acceptable forms of payment include: MasterCard, VISA, American Express, Discover, check or money order drawn on a U.S. bank made payable to the American Venous Forum. Cash will not be accepted onsite.

Cancellation Policy
If written notice of cancellation is received by Friday, January 24, 2015 any registration fees paid, less a $50.00 administrative fee, will be refunded after the meeting. No refunds will be issued after this date.

On-Site Registration Hours
Tuesday 4:00 pm – 8:00 pm
Wednesday 6:30 am – 6:30 pm
Thursday 6:00 am – 7:00 pm
Friday 6:00 am – 5:30 pm
Hotel and Travel Information

Hotel Information
The Westin Mission Hills
71333 Dinah Shore Drive
Rancho Mirage, CA 92270 United States
Phone: 760-328-5955
Hotel Reservations: 877-253-0041

Reservations
On behalf of meeting participants, the American Venous Forum has reserved rooms at The Westin Mission Hills. The group rate is $209.00 per night plus 13.065% taxes. The daily hotel fee is reduced to $11.00 plus tax. Once the room block is full, the group rate cannot be guaranteed. Rates are guaranteed 3 days before and 3 days after event.

Please reserve your room as soon as possible by contacting The Westin Mission Hills directly at 877-253-0041 or online. Please identify yourself as a participant of the AVF meeting for the best available rate.

Palm Springs
Set in the heart of the Palm Springs valley, The Westin Mission Hills is centrally located to the best Palm Springs attractions. From Rancho Mirage to La Quinta and Palm Springs, there are museums, restaurants and adventures awaiting you. Enjoy some of the finest views of the Palm Springs valley on the Aerial Tramway or immerse yourself in all of the fine art and culture the area has to offer.

Transportation
The Westin Mission Hills is located only 6 miles from the Palm Springs International Airport (PSP). Major airlines including Alaska Airlines, American Airlines, Delta Airlines, Frontier Airlines, United Airlines, US Airways and Virgin America fly into Palm Springs International Airport. Non-stop routes include Calgary, Chicago, Dallas/Fort Worth, Denver, New York (JFK), Seattle and others across the U.S. and Canada. To arrange transportation to the hotel, please call 760-328-5955 and The Westin Mission Hills will assist you.

Weather
In Palm Springs you can expect steady sunshine and a mild, sunny, and dry climate all year round. In the winter months of February and March the average daily high temperatures in Palm Springs are in the mid-to-high 70s and 80s. The evening and night time temperatures can be pleasingly cool and slightly chilly, even brisk, with temperatures dipping quickly when the sun sets behind the mountain range.

Foreign Visas
Travelers without a US Passport may need to apply for a visitor visa. For additional information regarding obtaining a visa, visit the U.S. government website at: http://travel.state.gov/visa/index.html. Travelers entering the United States from all countries (including Canada, Mexico and the Caribbean) must present a passport. If you need a letter of invitation for the Annual Meeting, please send an email to info@veinforum.org.