

# AVID

Advances in *Vascular Imaging and Diagnosis*™

Friday and Saturday, November 16-17, 2012

## 23<sup>rd</sup> Symposium & Workshops on Management and Clinical Issues



Symposium Chairman  
**George L. Berdejo, BA, RVT, FSVU**

Symposium Co-Chairmen  
**Nicos Labropoulos, BSc (Med), PhD, DIC, RVT**  
**Sergio X. Salles-Cunha, PhD, RVT, FSVU**  
**Frank J. Veith, MD**

Honorary Chair  
**Anne M. Jones, RN, BSN, RVT, RDMS, FSVU, FSDMS**

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[www.AVIDsymposium.org](http://www.AVIDsymposium.org)

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*Seattle, Washington*

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*Lebanon, New Hampshire*



Advances in Vascular Imaging and Diagnosis™

## 23<sup>RD</sup> SYMPOSIUM AND WORKSHOPS ON MANAGEMENT AND CLINICAL ISSUES

FRIDAY - SATURDAY  
NOVEMBER 16 - 17, 2012

### SYMPOSIUM CHAIRMAN

George L. Berdejo, BA, RVT, FSVU

### SYMPOSIUM CO-CHAIRMEN

Nicos Labropoulos, BSc (Med), PhD, DIC, RVT

Sergio X. Salles-Cunha, PhD, RVT, FSVU

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### HONORARY CHAIR

Anne M. Jones, RN, BSN, RVT, RDMS, FSVU,  
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Jacqueline M. Simpson

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William D. Carey, MD

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# GENERAL INFORMATION

## NEEDS ASSESSMENT

Peripheral Vascular Disease (PVD) in the U.S. affects approximately 8 million to 12 million patients a year; some experts in the field believe this may be underestimated. The disease is associated with significant cardiovascular morbidity and mortality, with a high rate of fatal and non-fatal cardiovascular events such as myocardial infarction, stroke, renal failure, limb amputations, abdominal aortic aneurysms, pulmonary embolus and progressive ischemic end-organ dysfunction.

Since atherosclerosis is the most common cause of PVD, patients with PVD have a rate of cardiovascular mortality that is 3 to 4 times higher than age-matched controls. The cardiac mortality in symptomatic PVD is estimated to be 50% at 10 years. The reduction in quality of life from global vasculopathy in many patients can thus be significant.

Prompt and accurate diagnosis of these disease processes is of utmost importance. The AVIDsymposium is designed to address this need by providing the vascular community with continuing medical education in this area. The latest pharmacologic, radiologic, surgical and endovascular techniques and technologies will be presented, along with discussions of when these treatments are justified and indicated and when they are not. Updates on clinical trials and opportunities for dialogue with experts in the field provide insight along with the latest data on the results of the various diagnostic and treatment modalities.

## EDUCATIONAL OBJECTIVES

Advances in Vascular Imaging and Diagnosis™ 23rd Symposium and Workshops on Management and Clinical Issues is an intensive two-day course designed to provide a comprehensive update on the diagnosis of vascular disease using real time B-mode imaging, color and spectral Doppler and other noninvasive techniques. The course will also address important issues in the area of Vascular Laboratory management, vascular ultrasound education, reimbursement and laboratory accreditation. An internationally renowned faculty has been assembled to provide the latest in their respective areas of expertise. This will be accomplished via didactic lectures and will be enhanced by ample time for faculty panel discussions designed to provide interaction with the audience. In addition, live scanning demonstrations and hands-on workshops will be supervised by known experts in their fields and will utilize leading edge equipment.

## TARGET AUDIENCE

This course is intended for:

Vascular Technologists ■ Sonographers ■ Vascular Surgeons  
■ Radiologists ■ Neurologists ■ Vascular Nurses ■ Vascular  
Interventionalists ■ Medical and Ultrasound Students ■ and other  
physicians and allied health professionals with an interest in the diagnosis and  
treatment of vascular disease.

Following this continuing medical education activity, the participants will:

- Describe recent developments in vascular ultrasound technology
- Incorporate the Vascular Laboratory into the management of patients with vascular disease
- Identify and compare noninvasive tests that are available to aid in the diagnosis of vascular disease
- Identify current therapy and their roles for the effective management of peripheral arterial/venous disease; and carotid artery disease
- Utilize duplex ultrasound prior to, during and after endovascular procedures
- Apply issues regarding Vascular Laboratory management, reimbursement and accreditation to their practice.

## ACCREDITATION STATEMENT

The Cleveland Clinic Foundation Center for Continuing Education is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Cleveland Clinic Foundation Center for Continuing Education designates this live activity for a maximum of 15.25 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Participants claiming CME credit from this activity may submit the credit hours to the American Osteopathic Association for Category 2 credit.

# GENERAL INFORMATION

## SOCIETY FOR VASCULAR ULTRASOUND CME CREDITS

For Vascular Technologists and Sonographers, Society for Vascular Ultrasound-Continuing Medical Education (SVU-CME) credit hours are available on an hour-for-hour basis and may be used to fulfill the continuing medical education requirements necessary to retain certification with the American Registry for Diagnostic Medical Sonography (ARDMS) or for accreditation with the Intersocietal Accreditation Commission (IAC).

## CME CERTIFICATES AND COURSE EVALUATION FORMS

Your CME certificate will be available online at [www.avidSYMposium.org](http://www.avidSYMposium.org). An e-mail will be sent to all registered attendees immediately following the meeting with a unique password and instructions on how to obtain the certificate and complete a brief, optional course evaluation. Please note that the e-mail will be sent to the e-mail address that was used to register the attendee.

## FACULTY DISCLOSURE

The Cleveland Clinic Foundation Center for Continuing Education has implemented a policy to comply with the current Accreditation Council for Continuing Medical Education Standards for Commercial Support requiring resolution of all faculty conflicts of interest. Faculty declaring a relevant commercial interest will be identified in the activity syllabus.

## ADA STATEMENT

The Cleveland Clinic Foundation Center for Continuing Education complies with the legal requirements of the Americans with Disability Act. If any participant of the AVIDSYMposium requires special assistance, please send written request at least one month prior to the activity to [admin@avidSYMposium.org](mailto:admin@avidSYMposium.org), or by fax to (845) 368-2324.

## ONLINE ACCESS TO ABSTRACTS

All conference attendees will receive instructions on how to access and print out available meeting abstracts prior to the meeting. These abstracts will be available on the program page of the AVIDSYMposium web site at [www.avidSYMposium.org](http://www.avidSYMposium.org). Abstracts will be available on the web site for one full year.

# HOTEL AND TRAVEL

A block of rooms has been reserved at the conference rate of \$389 plus taxes per night. This rate is available until the block is filled or until October 19, 2012. *Please request the VEITH rate when reserving your accommodations.*

### **Hilton New York (Symposium Site)**

1335 Avenue of the Americas  
New York, NY 10019  
(212) 586-7000 or  
1-800-HILTONS (toll free U.S. only)

### **American Express Business Travel at The Cleveland Clinic Foundation**

9500 Euclid Avenue, P83  
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Phone: (800) 955-6111 (U.S. toll free)  
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Fax: (216) 444-2500  
E-mail: [Diane.M.Geneva@aexp.com](mailto:Diane.M.Geneva@aexp.com)

## FRIDAY, NOVEMBER 16, 2012

7:00 A.M. General Registration – 2nd Floor Promenade  
Faculty Registration – Morgan Suite, 2nd Floor

7:50 – 8:00 Welcome And Opening Remarks  
*George L. Berdejo, BA, RVT*

### SESSION 1

#### WAVEFORMS, PRESSURE AND FLOW

**Moderator:** *Laurence Needleman, MD*

8:00 – 8:10 The Ankle Brachial Index: Systolic vs Diastolic, Highest vs Lowest Tibial ABI, Surgery vs Screening Decisions  
*Sergio X. Salles-Cunha, PhD, RVT*

8:10 – 8:20 Effects Of Cardiac Conditions On Arterial And Venous Waveforms Of The Upper And Lower Extremities  
*Frank Miele, MSEE*

8:20 – 8:30 Carotid Duplex Waveform Analysis In Normal And Abnormal Conditions  
*Cindy A. Owen, RVT, RDMS*

8:30 – 8:40 Carotid Duplex Waveforms As An Indicator Of Cardiovascular Disease  
*Terrence D. Case, EdM, RVT*

8:40 – 8:50 The Physiology Of The Steal Syndrome  
*Billy A. Zang, BS, RVT, RDMS*

8:50 – 9:00 Panel Discussion

9:00 – 9:30 Break

Visit Exhibits and Pavilions (2nd and 3rd Floors)

### SESSION 2

#### VISCERAL VASCULAR, AORTA AND ENDOLEAK DETECTION

**Moderator:** *Evan C. Lipsitz, MD*

9:30 – 9:42 AAA Screening: Who Should Be Screened And How To Do It  
*Laurence Needleman, MD*

9:42 – 9:54 Kidney Transplant Rejection: Do Tissue Changes Precede Hemodynamic Changes And Symptoms?  
*Sergio X. Salles-Cunha, PhD, RVT*

9:54 – 10:06 Abdominal Vascular Related Pathology Not Commonly Encountered By The Vascular Sonographer  
*Leslie M. Scoutt, MD*

10:06 – 10:18 Non-Vascular Pathology For The RVT: What's Worrisome And What's Probably Not  
*Robert De Jong, RDMS, RVT*

10:18 – 10:30 My 5 Top Tips To Enhance Endoleak Detection With Duplex Ultrasound  
*Kathleen A. Carter, BSN, RN, RVT*

10:30 – 10:40 Panel Discussion

10:40 – 10:45 Transition to Workshops (Americas Hall 2, 3rd Floor)

### SESSION 3 (Americas Hall 2, 3rd Floor)

#### 10:45 – 11:55 WORKSHOP ROTATION 1

ROOM 1

Advanced Carotid Artery Duplex Imaging And Interpretation

*Phillip J. Bendick, PhD, RVT*  
*Cindy A. Owen, RVT, RDMS*

- ROOM 2** Tips For Arterial Mapping Of The Lower Extremity  
*Patricia (Tish) A. Poe, BA, RVT*  
*Natalie A. Marks, MD, RVT*
- ROOM 3** Transcranial Doppler  
*Joseph P. Hughes, RVS, RVT*
- ROOM 4** Advance Venous, Arterial And Physiologic Testing Interpretation  
*Mark A. Oliver, MD, RVT, RPVI*  
*Laurence Needleman, MD*  
*Leslie M. Scoutt, MD*
- ROOM 5** Lower Extremity Venous And Reflux Testing (Protocols And Techniques)  
*Nicos Labropoulos, BSc (Med), PhD, DIC, RVT*
- ROOM 6** Technical Tips For Visceral Vascular, Aorta And EVAR Imaging And Interpretation  
*Robert De Jong, RDMS, RVT*  
*Billy A. Zang, BS, RVT, RDMS*  
*Kathleen A. Carter BSN, RN, RVT*
- ROOM 7** Hemodialysis Access: Preoperative Mapping And Post Placement Assessment  
*Larry A. Scher, MD*
- ROOM 8** Critical Thinking And Leadership Skills: How Do I Acquire And Apply It In The Management Of The Vascular Laboratory?  
*Anne M. Jones, RN, BSN, RVT, RDMS*  
*George L. Berdejo, BA, RVT*
- 11:55 – 1:10** Lunch On Your Own

SESSION 4 (Americas Hall 2, 3rd Floor)

- 1:10 – 2:10**  
**ROOM 1** **WORKSHOP ROTATION 2**  
Advanced Carotid Artery Duplex Imaging And Interpretation  
*Phillip J. Bendick, PhD, RVT*  
*Cindy A. Owen, RVT, RDMS*
- ROOM 2** Tips For Arterial Mapping Of The Lower Extremity  
*Patricia (Tish) A. Poe, BA, RVT*  
*Natalie A. Marks, MD, RVT*
- ROOM 3** Transcranial Doppler  
*Joseph P. Hughes, RVS, RVT*
- ROOM 4** Advance Venous, Arterial And Physiologic Testing Interpretation  
*Mark A. Oliver, MD, RVT, RPVI*  
*Laurence Needleman, MD*  
*Leslie M. Scoutt, MD*
- ROOM 5** Lower Extremity Venous And Reflux Testing (Protocols And Techniques)  
*Nicos Labropoulos, BSc (Med), PhD, DIC, RVT*
- ROOM 6** Technical Tips For Visceral Vascular, Aorta And EVAR Imaging And Interpretation  
*Robert De Jong, RDMS, RVT*  
*Billy A. Zang, BS, RVT, RDMS*  
*Kathleen A. Carter, BSN, RN, RVT*
- ROOM 7** Hemodialysis Access: Preoperative Mapping And Post Placement Assessment  
*Larry A. Scher, MD*
- ROOM 8** Critical Thinking And Leadership Skills: How Do I Acquire And Apply It In The Management Of The Vascular Laboratory?  
*Anne M. Jones, RN, BSN, RVT, RDMS*  
*George L. Berdejo, BA, RVT*
- 2:10 – 2:15** Transition to Trianon Ballroom (3rd Floor)

SESSION 5

**NOVEL TECHNOLOGIES AND CUTTING EDGE TECHNIQUES**

**Moderator:** *Phillip J. Bendick, PhD, RVT*

- |             |  |
|-------------|--|
| 2:15 – 2:24 | Ultrasound Fusion Imaging For Aortic Endograft Evaluation<br><i>Phillip J. Bendick, PhD, RVT</i> |
| 2:24 – 2:33 | Musculoskeletal Mimics Of Vascular Disease Processes<br><i>Lauren Lown, BS, RDMS, RVT</i>        |
| 2:33 – 2:42 | IMT And Brachial Artery Flow Mediated Dilatation<br><i>Billy A. Zang, BS, RVT, RDMS</i>          |
| 2:42 – 2:51 | Virtual Histology Of Atherosclerotic Plaque Using IVUS<br><i>Phillip J. Bendick, PhD, RVT</i>    |
| 2:51 – 3:00 | Panel Discussion   |
| 3:00 – 3:05 | Break  |

SESSION 6

**PRACTICE ENHANCEMENTS - PART I: LAB MANAGEMENT, PERSONNEL, TRAINING AND QUALITY OF LIFE ISSUES**

**Moderators:** *George L. Berdejo, BA, RVT*  
*Michael W. Schwebler, MBA, RVT*

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|-------------|--|
| 3:05 – 3:14 | Leadership Defined: A Review Of The Basic Concepts Of Leadership In Healthcare<br><i>Anne M. Jones, RN, BSN, RVT, RDMS</i>   |
| 3:14 – 3:23 | Managing Your Career: Mentors, Marketing Yourself, Changing Jobs / Getting Promoted<br><i>Michael W. Schwebler, MBA, RVT</i> |
| 3:23 – 3:32 | Staff Development And Competency Assessment Strategies<br><i>Joseph P. Hughes, RVS, RVT</i>                                  |
| 3:32 – 3:41 | Work / Life Balance: Does It Matter? Achieving Flow And Happiness In The Workplace<br><i>Michael W. Schwebler, MBA, RVT</i>  |
| 3:41 – 3:50 | Panel Discussion   |
| 3:50 – 4:20 | Break<br>Visit Exhibits and Pavilions (2nd and 3rd Floors)   |

SESSION 7

**DIAGNOSIS AND MANAGEMENT OF CHRONIC VENOUS DISEASE**

*This important session is tailored to the everyday need in terms of chronic venous disease diagnosis and treatment. It is balanced for technologists, physicians and other health professionals with an interest in the diagnosis, treatment and follow-up of chronic venous disease. The faculty includes internationally recognized experts in the field and key members of the American Venous Forum and the American College of Phlebology. All have a great interest in vein disease, are well published in the specialty and lecture both nationally and internationally.*

**Moderator:** *Nicos Labropoulos, BSc (Med), PhD, DIC, RVT*

- |             |   |
|-------------|---|
| 4:20 – 4:28 | From The Clinical Diagnosis To Ultrasound: Clinical Case<br><i>Peter J. Pappas, MD</i>          |
| 4:28 – 4:36 | Patterns Of Reflux In The Saphenous Veins<br><i>Nicos Labropoulos, BSc (Med), PhD, DIC, RVT</i> |
| 4:36 – 4:44 | Recurrent Vein Reflux<br><i>Nicos Labropoulos, BSc (Med), PhD, DIC, RVT</i>                     |

4:44 – 4:52	Clinical Importance Of Identifying Postthrombotic Changes <i>Mark H. Meissner, MD</i>
4:52 – 5:00	Diagnosis Of Pelvic Vein Pathology <i>Antonios P. Gasparis, MD</i>
5:00 – 5:08	Role Of Ultrasound During Endovenous Therapy <i>Jose I. Almeida, MD, RVT</i>
5:08 – 5:19	Presentation And Diagnosis Of Complex Vein Disease <i>Robert B. McLafferty, MD</i>
5:19 – 5:27	Lack Of Ultrasound Training On Chronic Venous Disease: How To Bridge The Gap <i>George L. Berdejo, BA, RVT</i>
5:27 – 5:45	Panel Discussion

## SATURDAY, NOVEMBER 17, 2012

**7:00 A.M. General Registration – 2nd Floor Promenade**  
**Faculty Registration – Morgan Suite, 2nd Floor**

### SESSION 8

## VASCULAR ULTRASOUND: “CURVEBALLS AND CONTROVERSIES”

**Moderator:** *Ann Marie Kupinski, PhD, RVT*

7:40 – 7:48	Arterial Ultrasound Imaging Is Overused: Strategic Use Of Duplex Scanning For Patients With Arterial Occlusive Disease <i>Nicos Labropoulos, BSc (Med), PhD, DIC, RVT</i>
7:48 – 7:56	After-Hours Vascular Testing: Results Of The 2011 American Registry for Diagnostic Medical Sonography (ARDMS) Survey <i>R. Eugene Zierler, MD</i>
7:56 – 8:04	Cardiovascular Resonance: A New Technology To Detect Carotid Stenosis <i>Phillip J. Bendick, PhD, RVT</i>
8:04 – 8:12	Carotid And Subclavian Artery Findings With Hybrid Thoracic Endovascular Procedures <i>Douglas L. Wooster, MD</i>
8:12 – 8:20	Iatrogenic May-Thurner Syndrome Following EVAR: Something You Should Be Aware Of <i>Alan M. Dietzek, MD, RPVI</i>
8:20 – 8:28	Screening For Asymptomatic Carotid Stenosis And Renal Artery Stenosis In Patients Undergoing Long-Term Tunneled Dialysis Catheter Placement <i>Anil P. Hingorani, MD</i>
8:28 – 8:35	Panel Discussion
8:35 – 8:40	Break

### SESSION 9

## CURRENT CRITICAL GOVERNMENTAL, INTERSOCIETAL AND REIMBURSEMENT ISSUES

**Moderator:** *Anne M. Jones, RN, BSN, RVT, RDMS*

8:40 – 8:50	SVU/SVS Collaboration: How Does This Impact Vascular Laboratories? <i>Anne M. Jones, RN, BSN, RVT, RDMS</i>
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- 8:50 – 8:57 Impact Of 2012 Physician's Fee Schedule On The Vascular Lab  
*Robert M. Zwolak, MD, PhD*
- 8:57 – 9:04 How The PEAC And RUC Impact Vascular Lab Reimbursement  
*Sean P. Roddy, MD*
- 9:04 – 9:11 How Can Vascular Labs Keep Up With Changing LCDs?  
*Robert M. Zwolak, MD, PhD*

**Accreditation And Certification Issues, Updates And Future Initiatives**

- 9:11 – 9:18 The Real Impact Of The CARE Bill  
*Anne M. Jones, RN, BSN, RVT, RDMS*
- 9:18 – 9:25 Mandatory Accreditation In The Vascular Lab: Is That Our Future?  
*Sandra L. Katanick, RN, RVT, CAE*
- 9:25 – 9:32 Certification: Will Specialty Credentials And Recertification Strengthen Or Undermine Vascular Technology?  
*R. Eugene Zierler, MD*
- 9:32 – 9:45 Panel Discussion

SESSION 10

**CEREBROVASCULAR IMAGING**

**Moderator:** *Richard C. Pennell, MD*

- 9:45 – 9:55 Practical Technical Tips To Facilitate The Carotid Duplex Examination  
*Kathleen A. Carter, BSN, RN, RVT*
- 9:55 – 10:05 Should The Standard Duplex Velocity Criteria For The Diagnosis Of Carotid Stenosis Be Changed After Carotid Endarterectomy With Patch Closure: Results From Randomized Carotid Trial  
*Ali F. AbuRahma, MD*
- 10:05 – 10:15 Key Factors Influencing Quality And Accuracy Of A Carotid Duplex Exam: Testing, Interpretation And Accreditation  
*Patricia (Tish) A. Poe, BA, RVT*
- 10:15 – 10:25 Duplex For Follow-up After Carotid Stenting: Techniques And Interpretation Criteria  
*Ann Marie Kupinski, PhD, RVT*
- 10:25 – 10:35 Practical Approach For The Diagnosis And Planning For Treatment Of Carotid Stenosis: CDU, CTA, MRA, CA: Which Is Best, When And Why  
*Richard C. Pennell, MD*
- 10:35 – 10:45 Panel Discussion
- 10:45 – 10:50 Transition to Workshops (4th Floor)

SESSION 11

- 10:50 – 11:50 **WORKSHOP ROTATION 3**  
**HOLLAND SUITE** Exactly Who Is IAC Vascular Testing And What Have They Done With ICAVL?  
*Sandra L. Katanick, RN, RVT, CAE*
- HUDSON SUITE** Doppler Tips And Techniques: Technical Issues That Can Cause A Misdiagnosis  
*Robert De Jong, RDMS, RVT*
- EAST SUITE** Lessons Learned From Interesting And Unusual Cases From High Volume Labs  
*Patricia (Tish) A. Poe, BA, RVT*  
*R. Eugene Zierler, MD*

<b>HARLEM SUITE</b>	Tricks And Tips For Improving Vascular Duplex <i>Ann Marie Kupinski, PhD, RVT</i> <i>Cindy A. Owen, RVT, RDMS</i>
<b>NEW YORK SUITE</b>	Musculoskeletal Mimics Of Vascular Disease <i>Lauren Lown, BS, RDMS, RVT</i>
<b>LINCOLN SUITE</b>	Identifying And Managing Ultrasound Artifacts <i>Frank Miele, MSEE</i>
<b>MIDTOWN SUITE</b>	More On Report Writing <i>Laurence Needleman, MD</i> <i>Leslie M. Scoutt, MD</i>
<b>11:50 – 1:00</b>	Lunch On Your Own

SESSION 12

**PRACTICE ENHANCEMENTS II: ISSUES RELATED TO TRAINING, EDUCATION, COST, EFFICIENCY, AND OTHER IMPORTANT CONCEPTS IN VASCULAR ULTRASOUND**

**Moderators:** *Terrence D. Case, EdM, RVT*  
*Michael W. Schwebler, MBA, RVT*

<b>1:00 – 1:10</b>	How Can We Standardize Clinical Education In Vascular Ultrasound: Focus On The Clinical Site <i>Joseph P. Hughes, RVS, RVT</i>
<b>1:10 – 1:20</b>	Imaging The World: A New Paradigm For Ultrasound <i>Frank Miele, MSEE</i>
<b>1:20 – 1:30</b>	Use Of A Site-Visit Peer-Assessment Of Ultrasound Facilities For Quality Improvement <i>Douglas L. Wooster, MD</i>
<b>1:30 – 1:40</b>	Cost-Effectiveness Of A Health System Vascular Screening Program: Benefits And How To <i>John Blebea, MD, MBA</i>
<b>1:40 – 1:50</b>	Key Words At Key Times: Report Writing Strategies: What's The Best Way To Say What Needs To Be Said: 4 Case Study Presentations <i>Laurence Needleman, MD</i>
<b>1:50 – 2:00</b>	Panel Discussion
<b>2:00 – 2:10</b>	Break

SESSION 13

**BACKGROUND, TECHNIQUES FOR DIAGNOSIS AND TREATMENT OF VENOUS DISEASE OF THE LOWER EXTREMITIES**

**Moderator:** *Mark A. Oliver, MD, RVT, RPVI*

<b>2:10 – 2:20</b>	Venous Thrombo-Embolic Disease: Scope Of The Problem, Incidence Of DVT And Pulmonary Embolism: Implications For The Vascular Ultrasound Professional <i>Mark A. Oliver, MD, RVT, RPVI</i>
<b>2:20 – 2:30</b>	<b>Evidence</b> Based Venous Ultrasound <i>Laurence Needleman, MD</i>
<b>2:30 – 2:40</b>	Practical Technical Tips To Facilitate The LE Venous Duplex Examination <i>Cindy A. Owen, RVT, RDMS</i>
<b>2:40 – 2:50</b>	Venous Thrombosis: Acute, Chronic, Recurrent <i>Laurence Needleman, MD</i>
<b>2:50 – 3:00</b>	Grey Scale Median (GSM) Of Leg DVT: Thrombus Characterization <i>Sergio X. Salles-Cunha, PhD, RVT</i>

- 3:00 – 3:10** CTA, CTV And Ultrasound In The Diagnosis Of Venous Thromboembolism Related To Pulmonary Embolism: Is Duplex Overused? What Is The Optimal Approach?  
*R. Eugene Zierler, MD*
- 3:10 – 3:20** The Role Of D-Dimer And Ultrasound In The Follow-up Management Of Patients With Deep Vein Thrombosis  
*Dennis F. Bandyk, MD*
- 3:20 – 3:30** Panel Discussion
- 3:30 – 3:35** Break

SESSION 14

**ARTERIAL IMAGING**

**Moderator:** *Patricia (Tish) A. Poe, BA, RVT*

- 3:35 – 3:45** Practical Duplex Arterial Evaluation Of The Lower Extremity: My Top Take Home Tips  
*Patricia (Tish) A. Poe, BA, RVT*
- 3:45 – 3:55** Iatrogenic Injuries Of The Common Femoral And External Iliac Artery During Endograft Placement: An Underdiagnosed Entity  
*Anil P. Hingorani, MD*
- 3:55 – 4:05** GSM Of Femoral Atheromas Facilitate Assessment Of Intimal Dissection Technique Reentry  
*Natalie A. Marks, MD, RVT*
- 4:05 – 4:15** Panel Discussion

SESSION 15

**DIALYSIS ACCESS**

**Moderator:** *Clifford M. Sales, MD, MBA*

- 4:15 – 4:25** Ultrasound For AVF Planning And Surveillance: What Is The Information That Is Needed? How Is It Acquired? Proposal For A Standard Technique  
*Patricia (Tish) A. Poe, BA, RVT*
- 4:25 – 4:35** Tips For Duplex Evaluation Of The Suspected Failing Dialysis Access  
*Kathleen A. Carter, BSN, RN, RVT*
- 4:35 – 4:45** Dialysis Access Outcomes In The Era Of The Fistula First Initiative  
*Clifford M. Sales, MD, MBA*
- 4:45 – 4:55** Vascular Lab Criteria For Dialysis Access Maturation And Dysfunction  
*Dennis F. Bandyk, MD*
- 4:55 – 5:05** 5 Tips For Duplex Guided AV Access Intervention  
*David Fox, MD*
- 5:05 – 5:15** Panel Discussion
- 5:15** Raffle Drawing - Must Be Present To Win
- 5:15** Symposium Ends

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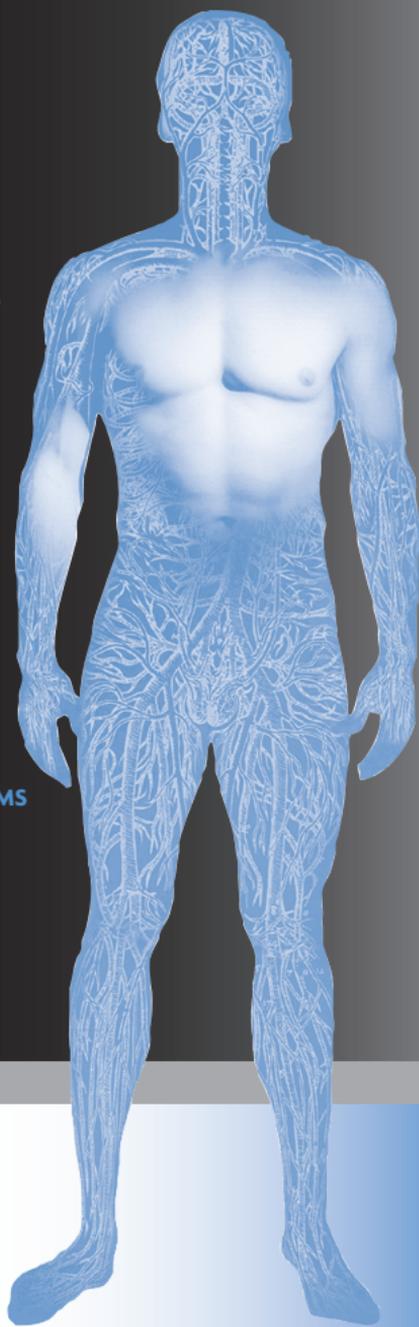
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