

# AVID

Advances in *Vascular Imaging and Diagnosis*™

Thursday and Friday, November 21-22, 2013

## 24<sup>th</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**

**Laurence Needleman, MD**

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

**Frank J. Veith, MD**

Honorary Chair

**Anne M. Jones, RN, BSN, RVT, RDMS, FSVU**

Sponsored by



**Cleveland Clinic**



**Hilton**

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

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Advances in Vascular Imaging and Diagnosis™

## SAVE THE DATE!

Thursday - Friday, November 20-21, 2014

# 25<sup>th</sup> Symposium & Workshops

on Management and Clinical Issues

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Advances in Vascular Imaging and Diagnosis™

## 24<sup>TH</sup> SYMPOSIUM AND WORKSHOPS ON MANAGEMENT AND CLINICAL ISSUES

THURSDAY - FRIDAY  
NOVEMBER 21 - 22, 2013

### SYMPOSIUM CHAIRMAN

George L. Berdejo, BA, RVT, FSVU

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Frank J. Veith, MD

### HONORARY CHAIR

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

### SCIENTIFIC COMMITTEE

Fernando Amador, RVT

Joshua Cruz, RVT

Kelvin Portalatin, AA, RVT

### ADMINISTRATIVE COMMITTEE

Jacqueline M. Simpson, BBA

### THE CENTER FOR CONTINUING EDUCATION

Steven M. Kawczak, PhD

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™ 24th 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.

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.

## 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.

## 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 17 *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

## FOR ARDMS AND CCI CREDENTIALLED SONOGRAPHERS/ TECHNOLOGISTS

For Vascular Technologists and Sonographers, Continuing Medical Education 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) <sup>1</sup> and Cardiovascular Credentialing International (CCI) <sup>2</sup> or for accreditation with the Intersocietal Accreditation Commission (IAC).

1. [http://www.ardms.org/regisrtrant\\_resources/cme\\_general\\_information/cme\\_general\\_information](http://www.ardms.org/regisrtrant_resources/cme_general_information/cme_general_information)
2. <http://www.cci-online.org/content/ceu-providers>

## CME CERTIFICATES AND COURSE EVALUATION FORMS

Your CME certificate will be available online at [www.avidssymposium.org](http://www.avidssymposium.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@avidssymposium.org](mailto:admin@avidssymposium.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.avidssymposium.org](http://www.avidssymposium.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 \$392 plus taxes per night. This rate is available until the block is filled or until October 18, 2013. *Please request the VEITH rate when reserving your accommodations.*

### **New York Hilton-Midtown (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  
Cleveland, OH 44195  
Phone: (800) 955-6111 (U.S. toll free)  
(216) 444-2564 (U.S. and International)  
Fax: (216) 444-2500  
E-mail: [Diane.M.Geneva@aexp.com](mailto:Diane.M.Geneva@aexp.com)

## THURSDAY, NOVEMBER 21, 2013

### SESSION 1

#### PRINCIPLES TUNE-UP: HOW SHARP ARE YOU – PART I

**Moderator:** *George L. Berdejo, BA, RVT*

- 7:00 – 7:55** Principles Tune-Up  
*Frederick Kremhau, PhD*
- 7:55 – 8:10** Welcome And Opening Remarks  
*George L. Berdejo, BA, RVT*

### SESSION 2

#### CASE STUDIES I: CASES TO DEMONSTRATE COMMON TECHNICAL CHALLENGES ENCOUNTERED DURING VASCULAR ULTRASOUND PROCEDURES

**Moderators:** *George L. Berdejo, BA, RVT*  
*Evan C. Lipsitz, MD*

- 8:10 – 8:22** Cerebrovascular Cases  
*Phillip J. Bendick, PhD, RVT*
- 8:22 – 8:34** Upper And Lower Extremity Arterial Cases  
*Ann Marie Kupinski, PhD, RVT*
- 8:34 – 8:46** Upper And Lower Extremity Venous  
*Nicos Labropoulos, BSc (Med), PhD, DIC, RVT*
- 8:46 – 8:58** Abdominal Imaging  
*Cindy A. Owen, RVT, RDMS*
- 8:58 – 9:10** Ultrasound Physics  
*Frederick Kremkau, PhD*
- 9:10 – 9:20** Panel Discussion
- 9:20 – 9:45** Break - Visit Exhibits and Pavilions (2nd and 3rd Floors)

### SESSION 3

#### VASCULAR ULTRASOUND: CURVEBALLS AND CONTROVERSIES

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

- 9:45 – 9:53** Are The Ultrasound Organizations Contributing To A Lack Of Standardization In Vascular Ultrasound?  
*Laurence Needleman, MD*
- 9:53 – 10:01** “Point Of Care” Vascular Ultrasound: Will It Change The Vascular Lab?  
*R. Eugene Zierler, MD*
- 10:01 – 10:09** It’s Been 10 Years Since The SRU Carotid Consensus Criteria: Has It Helped, Should It Be Utilized Across The Board?  
*Gregory L. Moneta, MD*
- 10:09 – 10:17** Preoperative Mapping: Should Payment To Vascular Labs That Avoid Other Imaging Modalities Prior To Vascular Interventions Be Increased?  
*Sergio X. Salles-Cunha, PhD, RVT*

### SESSION 4

#### NOVEL TECHNOLOGIES AND CUTTING EDGE TECHNIQUES

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

- 10:17 – 10:25** Deep Venous Thrombosis: Thrombus Characterization May Predict Severity Of Pulmonary Embolism  
*Sergio X. Salles-Cunha, PhD, RVT*

- 10:25 – 10:33** Diagnosis Of Flow-Limiting Stenosis And Plaque Vulnerability In One Noninvasive Test: It Will Be Possible And Clinically Useful For Evaluating Peripheral Arterial Stenoses  
*Christopher K. Zarins, MD*
- 10:34 – 10:41** Ultrasonic Elastography: Present And Future Applications  
*Sergio X. Salles-Cunha, PhD, RVT*
- 10:41 – 10:50** Panel Discussion (Combined Session 3 and Session 4)
- 10:50 – 10:55** Transition to Workshops (Americas Hall 2, 3rd Floor)

SESSION 5 (Americas Hall 2, 3rd Floor)

- 10:55 – 11:55**  
MURRAY HILL SUITE **WORKSHOP ROTATION I**  
Basic Vascular Ultrasound For The General Ultrasonographer And Echocardiographer:  
Part I: Physiology And Hemodynamics  
*Ann Marie Kupinski, PhD, RVT*
- ROOM 2** Basic Cardiac Ultrasound For The RVT  
*Steven J. Knight, BSc, RVT, RDMS*
- ROOM 3** Basic General Ultrasound For The RVT: Differential Diagnoses, Leg Pain, Masses, Etc.  
*Robert De Jong, RDMS, RVT*
- ROOM 4** Imaging The Technically Difficult Patient: Tips And Tricks For Scanning The Abdomen  
*Cindy A. Owen, RVT, RDMS*
- ROOM 5** Transcranial Doppler/Imaging  
*Zsolt Garami, MD*
- ROOM 6** Testing For Chronic Venous Insufficiency  
*Nicos Labropoulos, BSc (Med), PhD, DIC, RVT*
- ROOM 7** Musculoskeletal Imaging  
*Lauren Lown, BS, RDMS, RVT*
- 11:55 – 1:10** Lunch Break - Rhinelander Gallery (2nd Floor)  
Visit Exhibits and Pavilions (2nd and 3rd Floors)

SESSION 6 (Americas Hall 2, 3rd Floor)

- 1:10 – 2:10**  
MURRAY HILL SUITE **WORKSHOP ROTATION II**  
Basic Vascular Ultrasound For The General Ultrasonographer And Echocardiographer:  
Part II: Protocols And Techniques  
*Phillip J. Bendick, PhD, RVT*
- ROOM 2** Hemodialysis Access  
*Joseph P. Hughes, RVS, RVT*
- ROOM 3** Basic General Ultrasound For The RVT: Differential Diagnoses, Leg Pain, Masses, Etc.  
*Robert De Jong, RDMS, RVT*
- ROOM 4** Imaging The Technically Difficult Patient: Tips And Tricks For Scanning The Periphery  
*Cindy A. Owen, RVT, RDMS*
- ROOM 5** Transcranial Doppler/Imaging  
*Zsolt Garami, MD*
- ROOM 6** Testing For Chronic Venous Insufficiency  
*Nicos Labropoulos, BSc (Med), PhD, DIC, RVT*
- ROOM 7** Musculoskeletal Imaging  
*Lauren Lown, BS, RDMS, RVT*
- 2:10 – 2:15** Transition to General Sessions  
(Murray Hill Suites, 2nd Floor)

SESSION 7

**CTA AND MRA FUNDAMENTALS AND MORE**

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

- 2:15 – 2:23** Introduction To The Session And Discussion Of Principles And Comparative Pluses And Minuses Of CTA And MRA  
*Laurence Needleman, MD*
- 2:23 – 2:31** Intracranial Cerebrovascular Evaluation  
*Allan L. Brook, MD*
- 2:31 – 2:39** Extracranial Cerebrovascular Evaluation  
*John S. Pellerito, MD*
- 2:39 – 2:47** Abdominal Aorta: Pre And Post Intervention Imaging  
*Laurence Needleman, MD*
- 2:47 – 2:55** Pelvic And Peripheral Arterial Imaging  
*John S. Pellerito, MD*
- 2:55 – 3:03** Pelvic And Peripheral Venous Imaging  
*Barry Stein, MD*
- 3:03 – 3:10** Panel Discussion
- 3:10 – 3:30** Break - Visit Exhibits and Pavilions (2nd and 3rd Floors)

SESSION 8

**HANDS-ON REAL TIME IMAGING WITH THE EXPERTS – EXTRACRANIAL CEREBROVASCULAR**

*This will be a live scanning session designed to allow the audience to pose questions and interact with the speaker while the patient is being scanned.*

**Moderator:** *George L. Berdejo, BA, RVT*

- 3:30 – 3:42** The Carotid Duplex Examination: Basic Protocols Through Carotid Mapping  
*Phillip J. Bendick, PhD, RVT*

SESSION 9

**CEREBROVASCULAR I: PHILOSOPHICAL ISSUES**

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

- 3:42 – 3:49** Ultrasound Derived Velocities Overestimate Severity Of Disease: Are We Operating On Too Many Carotids?  
*Gregory L. Moneta, MD*

**CLASH OF THE TITANS – PART I  
DEBATE I: CAROTID STENOSIS CRITERIA**

- 3:49 – 3:54** A Standardized Criteria For The Estimation Of Carotid Stenosis Is Possible And Recommended  
*George H. Meier III, MD*
- 3:54 – 3:59** Standardization Does Not Work For All Labs: Each Lab Should Have Their Own Validated And Clinically Relevant Criteria  
*John S. Pellerito, MD*

**DEBATE II: EVALUATION OF CAROTID DISEASE**

- 3:59 – 4:04** Duplex Derived Velocities Will Define The Patient Suited For Carotid Intervention...Or Not Suited  
*R. Eugene Zierler, MD*
- 4:04 – 4:09** Carotid Ultrasound Is No Longer A Velocity/Surgical Thing, It Is An Atheroma/Medical Thing: Stenosis, Plaque Characterization And Intima-Media Thickness  
*Sergio X. Salles-Cunha, PhD, RVT*
- 4:09 – 4:15** Panel Discussion And Poll The Audience
- 4:15 – 4:20** Break – Visit Exhibits and Pavilions (2nd and 3rd Floors)

SESSION 10

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

**Moderators:** *George L. Berdejo, BA, RVT*  
*Anne M. Jones, BSN, RDMS, RVT*

- 4:20 – 4:27** Advanced Practice In Sonography: What Does The Future Hold; How Do We Define This?  
*Anne M. Jones, BSN, RDMS, RVT*
- 4:27 – 4:34** ARDMS Physician Credentialing: The First 5 Years Of The RPVI  
*R. Eugene Zierler, MD*
- 4:34 – 4:41** Use Of Guidelines And Standards In Vascular Ultrasound Practice: What Is The Verdict?  
*Douglas L. Wooster, MD*
- 4:41 – 4:48** The American College Of Cardiology (ACC) Appropriate Use Criteria For Vascular And Its Potential Impact On Reimbursement And Practice  
*Joseph P. Hughes, RVS, RVT*
- 4:48 – 4:55** Panel Discussion

SESSION 11

**VENOUS DISEASE AND TREATMENT**

**Moderators:** *George L. Berdejo, BA, RVT*  
*Mark A. Oliver, MD, RVT, RPVI*

- 4:55 – 5:05** Clinical Practice Guidelines For Management Of Acute DVT  
*Mark A. Oliver, MD, RVT, RPVI*
- 5:05 – 5:15** Non-Vascular Pathologies Masquerading As Deep Vein Thrombosis: The MSK Perspective  
*Lauren Lown, BS, RDMS, RVT*

SESSION 12

**HANDS-ON REAL TIME IMAGING WITH THE EXPERTS – VEIN IMAGING**

*This will be a live scanning session designed to allow the audience to pose questions and interact with the speaker while the patient is being scanned.*

**Moderators:** *George L. Berdejo, BA, RVT*  
*Mark A. Oliver, MD, RVT, RPVI*

- 5:15 – 5:27** Sonographic Anatomy Of The Saphenous, Non-Saphenous And Perforating Veins  
*Nicos Labropoulos, BSc (Med), PhD, DIC, RVT*
- 5:27 – 5:39** How To Perform The Examination For CVI  
*Diana L. Neuhardt, RVT, RPhS*
- 5:39 – 5:45** Questions For The Faculty And Summary Of The Day  
*George L. Berdejo, BA, RVT*

## FRIDAY, NOVEMBER 22, 2013

### SESSION 13

#### PRINCIPLES TUNE-UP: HOW SHARP ARE YOU – PART II

**Moderator:** *George L. Berdejo, BA, RVT*

**7:00 – 7:45** Principles Tune-Up  
*Frederick Kremkau, PhD*

### SESSION 14

#### 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 is comprised of 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*

**7:45 – 7:52** Understanding The Ultrasound Venous Anatomy  
*Nick Morrison, MD*

**7:52 – 7:59** Role Of Ultrasound During Endovenous Therapy  
*Steve Elias, MD*

**7:59 – 8:06** Impact Of Venous Reflux And Obstruction  
*Peter J. Pappas, MD*

**8:06 – 8:13** Patterns Of Saphenous And Nonsaphenous Vein Reflux  
*Nicos Labropoulos, BSc (Med), PhD, DIC, RVT*

**8:13 – 8:20** Diagnosis Of Pelvic Vein Reflux  
*Antonios P. Gasparis, MD*

**8:20 – 8:27** Evaluation Of The Perforator Veins  
*Nicos Labropoulos, BSc (Med), PhD, DIC, RVT*

**8:27 – 8:34** Accreditation Of Vein Centers – IAC Vein Center  
*Diana L. Neuhardt, RVT, RPhS*

**8:34 – 8:41** What The Curriculum On Venous Training Should Include And How To Become An Expert In This Field  
*George L. Berdejo, BA, RVT*

**8:41 – 8:50** Panel Discussion

**8:50 – 9:00** Break – Visit Exhibits and Pavilions (2nd and 3rd Floors)

### SESSION 15

#### CASE STUDIES II: CASES TO DEMONSTRATE COMMON INTERPRETATION CHALLENGES ENCOUNTERED DURING VASCULAR ULTRASOUND PROCEDURES

**Moderators:** *Ann Marie Kupinski, PhD, RVT*  
*R. Eugene Zierler, MD*

**9:00 – 9:12** Cerebrovascular Cases  
*Phillip J. Bendick, PhD, RVT*

**9:12 – 9:24** Upper And Lower Extremity Arterial  
*Ann Marie Kupinski, PhD, RVT*

**9:24 – 9:36** Upper And Lower Extremity Venous  
*Nicos Labropoulos, BSc (Med), PhD, DIC, RVT*

**9:36 – 9:48** Abdominal Imaging  
*Leslie M. Scoutt, MD*

**9:48 – 10:00** Hemodynamics  
*Steven J. Knight, BSc, RVT, RDCS*

SESSION 16

**CEREBROVASCULAR II: CLINICAL ISSUES**

**Moderators:** *Ann Marie Kupinski, PhD, RVT*  
*R. Eugene Zierler, MD*

- 10:00 – 10:10** Ignorance Of Crucial Information During CAS And CEA: Patient Selection For CAS/CEA And How TCD Can Help  
*Zsolt Garami, MD*
- 10:10 – 10:20** New Insights Into Selecting Asymptomatic Carotid Stenosis Patients At High Stroke Risk Who Should Have CAS Or CEA: The Importance Of Juxtaluminar Black Areas (Jbas)  
*Andrew N. Nicolaidis, MS*
- 10:20 – 10:30** Is There A Role For TCD In Evaluation Of The Patient With Asymptomatic Carotid Stenosis?  
*Zsolt Garami, MD*
- 10:30 – 10:40** Non-Atherosclerotic Carotid Pathology  
*Leslie M. Scoutt, MD*
- 10:40 – 10:50** Panel Discussion (Combined Session 15 and Session 16)
- 10:50 – 10:55** Transition to Workshops (Americas Hall 2, 3rd Floor)

SESSION 17

- 10:55 – 12:00** **WORKSHOP ROTATION III**  
*MURRAY HILL SUITE* Interpreting With The Masters: Potpourri Of Cases  
*Leslie M. Scoutt, MD*  
*R. Eugene Zierler, MD*
- ROOM 2** Basic Statistics For The Vascular Lab Personnel: Publication And Accreditation Data Analysis  
*Sergio X. Salles-Cunha, PhD, RVT*
- ROOM 3** Cardiac Influence On Peripheral Vascular Studies: Arterial And Venous  
*Frank Miele, MSEE*
- ROOM 4** Understanding Vascular Hemodynamics  
*Steven J. Knight, BSc, RVT, RDCS*
- ROOM 5** 5 Common EMR Mistakes That Can Destroy Your Compliance And Reimbursement  
*Joseph P. Hughes, RVS, RVT*
- ROOM 6** Evaluating And Using Diagnostic Criteria  
*Laurence Needleman, MD*
- 12:00 – 1:15** Lunch Break - Rhinelander Gallery (2nd Floor)  
Visit Exhibits and Pavilions (2nd and 3rd Floors)

SESSION 18

**EFFECTS OF THE CHANGING HEALTHCARE ENVIRONMENT ON VASCULAR ULTRASOUND**

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

- 1:15 – 1:25** SVU Issues – Comment Letters, Advanced Practice, The Care Bill, State Licensure, Etc.  
*Anne M. Jones, BSN, RDMS, RVT*
- 1:25 – 1:35** Impact Of Obamacare On Vascular Ultrasound: A Government Relations Leader's Point Of View  
*Robert M. Zwolak, MD, PhD*
- 1:35 – 1:45** Accreditation And The Recent GAO Study On Accrediting Organizations And Practice Management  
*Sandra L. Katanick, RN, RVT, CAE*
- 1:45 – 1:55** Up To The Minute Changes In Rules And Regulations Related To Vascular LCDs  
*Joseph P. Hughes, RVS, RVT*
- 1:55 – 2:20** Panel Discussion

2:20 – 2:40 Break – Visit Exhibits and Pavilions (2nd and 3rd Floors)

SESSION 19

**DIAGNOSTIC DILEMMAS DECONSTRUCTED**

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

**CLASH OF THE TITANS – PART II  
DEBATE III: THE DOPPLER/CURSOR  
ANGLE DILEMMA**

2:40 – 2:45 60 Degrees And Parallels To The Vessel Wall  
Is The ONLY Way To Do It  
*R. Eugene Zierler, MD*

2:45 – 2:50 Anything Between 45-60 Degrees However You  
Can Get It Is Fine  
*Frank Miele, MSEE*

**DEBATE IV: EVALUATION OF PERIPHERAL  
ARTERIAL OCCLUSIVE DISEASE**

2:50 – 2:55 Duplex Rules: You Don't Need Anything Else  
*Sergio X. Salles-Cunha, PhD, RVT*

2:55 – 3:00 Physiologic Testing Still Plays An Important Role  
*Patricia (Tish) Poe, RVT, RDCS*

3:00 – 3:10 Panel Discussion And Poll The Audience

3:10 – 3:25 Break – Visit Exhibits and Pavilions (2nd and 3rd Floors)

SESSION 20

**HANDS-ON REAL TIME IMAGING WITH THE EXPERTS –  
ABDOMINAL IMAGING**

*This will be a live scanning session designed to allow the audience to pose questions and interact with the speaker while the patient is being scanned.*

**Moderator:** *George L. Berdejo, BA, RVT*

3:25 – 3:37 Navigating The Abdomen And Pelvis For The Novice  
*Cindy A. Owen, RDMS, RVT*

3:37 – 3:49 Tips And Tricks For The Renal Artery Examination  
*Robert De Jong, RDMS, RVT*

SESSION 21

**ABDOMINAL**

**Moderator:** *Leslie M. Scoutt, MD*

3:49 – 3:58 Indications For Renal Duplex Scanning:  
Hypertension vs. Renal Failure  
*R. Eugene Zierler, MD*

3:58 – 4:07 Unusual Intra-Abdominal Vascular Pathology  
*Leslie M. Scoutt, MD*

4:07 – 4:16 Non-Vascular Pathologies Encountered During  
Abdominal Scanning  
*Robert De Jong, RDMS, RVT*

4:16 – 4:25 Panel Discussion (Combined Session 20 and Session 21)

SESSION 22

**HANDS-ON REAL TIME IMAGING WITH THE  
EXPERTS – DIALYSIS ACCESS AND LOWER  
EXTREMITY ARTERIAL IMAGING**

*This will be a live scanning session designed to allow the audience to pose questions and interact with the speaker while the patient is being scanned.*

**Moderators:** *Joshua Cruz, RVT*  
*Patricia (Tish) A. Poe, RDCS, RVT*

4:25 – 4:37 Arterial Imaging Of The Lower Extremities  
*Joshua Cruz, RVT*

4:37 – 4:49 Dialysis Access Scanning  
*Patricia (Tish) A. Poe, RDCS, RVT*

SESSION 23

**LOWER EXTREMITY ARTERIAL AND DIALYSIS ACCESS**

**Moderators:** *Joshua Cruz, RVT*

*Patricia (Tish) A. Poe, RDCS, RVT*

**4:49 – 4:58**

Arterial Vascular Ultrasound For Cardiac Surgery  
Procedures: Techniques And Protocols  
*Ann Marie Kupinski, PhD, RVT*

**4:58 – 5:07**

Assessing The Deep Femoral Artery: How Important Is It:  
Review In A Variety Of Different Pathology Settings  
*Douglas L. Wooster, MD*

**5:07 – 5:16**

Lessons Learned From Over Five Years Experience  
In Duplex Guided Interventions  
*David Fox, MD*

**5:16 – 5:23**

Vascular And Non-Vascular Complications Associated  
With Hemodialysis Access  
*Leslie M. Scoutt, MD*

**5:23 – 5:30**

Panel Discussion (Combined Session 22 and Session 23)  
Symposium Ends

**5:30**

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