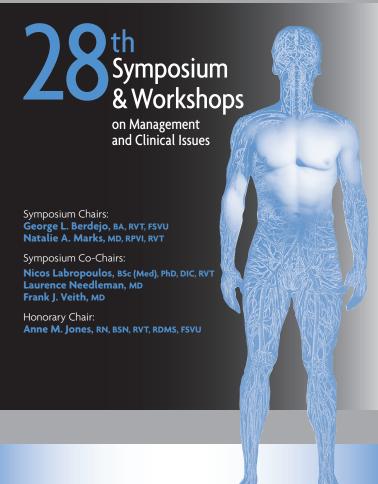


Friday and Saturday, November 17-18, 2017



Sponsored by







28TH SYMPOSIUM AND WORKSHOPS ON MANAGEMENT AND CLINICAL ISSUES

FRIDAY AND SATURDAY NOVEMBER 17 – 18, 2017

SYMPOSIUM CHAIRS

George L. Berdejo, BA, RVT, FSVU Natalie A. Marks, MD, RPVI, RVT

SYMPOSIUM CO-CHAIRS

Nicos Labropoulos, BSc (Med), PhD, DIC, RVT Laurence Needleman, MD Frank J. Veith, MD

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SYMPOSIUM ASSOCIATE DIRECTOR

Steven J. Feld, MSW

WORKSHOP COORDINATORS

Fernando Amador, RVT Richard Dubin, AAS-DMS, RVT, RDMS Kelvin Portalatin, AA, RVT

CENTER FOR CONTINUING MEDICAL EDUCATION

Steven M. Kawczak, PhD

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GENERAL INFORMATION

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

Plenary Sessions will be held in the Murray Hill Suites on the 2nd floor.

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 agematched 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 28th 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 NursesVascular Interventionalists
- Medical and Ultrasound Students
- and other physicians and allied health professionals with an interest in the diagnosis and treatment of vascular disease.

GENERAL INFORMATION

ONLINE ACCESS TO ABSTRACTS

Presentation slides will be used as abstracts and will be available on the program page of the AVIDsymposium website at www.AVIDsymposium.org after the meeting. Abstracts will be available on the website for one full year.

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 18.25 *AMA PRA Category 1 Credits*TM. 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.

FOR ARDMS AND CCI CREDENTIALED VASCULAR TECHNOLOGISTS AND SONOGRAPHERS

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) ¹ and Cardiovascular Credentialing International (CCI) ² or for accreditation with the Intersocietal Accreditation Commission (IAC).

- http://www.ardms.org/registrant_resources/cme_general_information/ cme_general_information
- 2. http://www.cci-online.org/content/ceu-providers

CME CERTIFICATES AND COURSE EVALUATION FORMS

CME certificates will be available online at www.AVIDsymposium.org. An e-mail with a unique password and instructions on how to obtain the certificate and complete a brief, optional course evaluation will be sent to all registered attendees after the meeting. The e-mail will be sent to the e-mail address that was used to register the attendee. Please note that CME Certificates must be claimed by February 28, 2018.

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, or by fax to (845) 368-2324.

HOTEL AND TRAVEL

A block of rooms has been reserved at the conference rate of \$399 plus taxes per night. This rate is available until the block is filled or until October 8, 2017. 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 Global Business Travel at The Cleveland Clinic

Phone: (800) 955-6111, prompt #5 (U.S. toll free) (602) 734-9150 (U.S. and International)

E-mail: Diane.M.Geneva@aexp.com

SOCIAL EVENTS

FIRST HAND TICKETS

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For more information or to arrange your social events while at AVIDsymposium, please contact:

Warren Schreiber at wschreiber@firsthandtickets.com

Phone: 516-376-8092 or (866) 375-7591

FRIDAY, NOVEMBER 17, 2017

	FRIDAT, NUVEMBER 17, ZUIT
7:50 — 8:00	Welcome And Opening Remarks Navigating The Meeting And Optimizing Your Experience George L. Berdejo, BA, RVT Natalie A. Marks, MD, RPVI, RVT
SESSION 1	
HEMODY	NAMICS, DOPPLER AND ARTIFACTS
Moderator:	George L. Berdejo, BA, RVT
8:00 — 8:12	Recognizing The Effect Of Cardiac Pathologies On Peripheral Vessel Disease Evaluation David M. Williams, MS, RDCS, RVT
8:12 — 8:24	Characteristics Of Pressure And Flow In The Arterial System: Applications In Noninvasive Testing Sergio X. Salles-Cunha, PhD, RVT
8:24 — 8:36	Venous Hemodynamics: Effects Of Valve Incompetence And Obstruction In The Lower Extremities Anne Marie Kupinski, PhD, RVT
8:36 — 8:48	Hemodynamics Of Cerebrovascular Flow In Normal, Stenotic And Occluded Vessels Phillip J. Bendick, PhD, RVT
8:48 — 9:00	Recognizing And Correcting Common Color And Spectral Doppler Flow Artifacts In Vascular Ultrasound Frank Miele, MSEE
9:00 - 9:15	Panel Discussion
9:15 - 9:35	Break - Visit Exhibits (2nd Floor)
SESSION 2	
ULTRASO	UND GUIDED VEIN PROCEDURES: FROM
	SIS THROUGH PLANNING, PERFORMANCE AND
FOLLOW-	UP
Moderator:	Natalie A. Marks, MD, RPVI, RVT
9:35 - 9:45	Anatomy Of The Great, Small, Accessory And Non-Saphenous Veins Of The Lower Extremity: What It Looks Like Sonographically <i>Phillip J. Bendick, PhD, RVT</i>
9:45 - 9:55	"Technical" Protocol For The Detection Of Reflux: Optimizing The Ultrasound Exam To Detect Reflux And Generate The Venous Map Joseph Zygmunt, RVT, RPhS
9:55 —10:05	Reflux Evaluation: Supine, Sitting, Reverse Trendelenburg Or Standing: What Are The Differences; Does It Really Matter? Nicos Labropoulos, BSc (Med), PhD, DIC, RVT
10:05 —10:15	Complications Of US Guided Vein Procedures: What To Look For Peri And Post-Procedurally From A Technologist's Perspective
	Diana L. Neuhardt, RVT, RPhS
10:15 -10:25	Avoiding And Treating Post-Procedure Complications: EHIT, DVT, Ulceration, And Staining: The Physician's Viewpoint
10.05 10.40	Natalie A. Marks, MD, RPVI, RVT
10:25 —10:40	Panel Discussion
10:40 —10:50	Break - Visit Exhibits (2nd Floor)
	Transition to Workshops (Americas Hall 2, 3 rd Floor)

SESSION 3 WORKSHOP ROTATION 1

10:50 -12:00

ROOM 1

Challenging Vascular Ultrasound Cases

Laurence Needleman, MD Richard C. Pennell, MD R. Eugene Zierler, MD, RPVI

This workshop will discuss the step-by-step protocol for interpreting the vascular ultrasound study with attention to potential pitfalls in a variety of basic and difficult vascular cases.

ROOM 2

"What's Wrong With This Picture?"

Angela A. Kokkosis, MD, RPVI Sareh Rajaee, MD, MPH

Case Studies highlighting an experience in real-world practice. With the high variability in ultrasound operators, practices often typically have to "repeat" studies from other facilities. This workshop will focus on "commonly reported mistakes" in vascular ultrasound and how to recognize them.

ROOM 3

More On What Every Sonographer Needs To Know About Optimizing The Vascular Image: Case Study Presentations

Richard Dubin, AAS-DMS, RVT, RDMS Mani Montazemi, RDMS

MURRAY HILL SUITE

More On Cardiac Effects On Peripheral Vein And Arterial Disease Evaluation: Case Study Workshop

Heather L. Gornik, MD David M. Williams, MS, RDCS, RVT

ROOM 4

Transmitting And Receiving On The Future's Edge *Frank Miele, MSEE*

At the heart of cutting edge changes in vascular ultrasound are at least four major factors: improvements in signal processing, new techniques such as contrast imaging and the use of nanoparticles, etc., improvements in signal acquisition, and the use of ultrasound for disease treatment. Over the last few years there have been significant advancements in the technology which fundamentally change signal acquisition, processing, and even the focus of ultrasound from diagnostic tool only to medical treatment tool, including promising applications of ultrasound for conditions such as brain tumors and Alzheimer's. This didactic workshop will focus on the technology changes and what they mean to the future of ultrasound.

ROOM 5

Practicing Proper Ergonomic Posture

Matthew P. Hernandez, BSc, DPT, CSCS

Learn how to recognize high risk behaviors and manage your posture. This workshop will provide tips and tricks to decrease your potential for injury during scanning.

12:00-12:10

Pick up Lunch in the South Corridor Exhibit Area (2nd Floor) and return to the Murray Hill Suites for the Luncheon Program.

SESSION 4

LUNCHEON PROGRAM: ERADICATING PARADIGMS IN VASCULAR ULTRASOUND

Moderator:	George L. Berdejo, BA, RVT
12:10 -12:30	Historic Baggage In Vascular Testing <i>Phillip J. Bendick, PhD, RVT</i>
12:30 —12:50	Doppler Facts And Misconceptions Laurence Needleman, MD
12:50 — 1:00	Panel Discussion
1:00 - 1:15	Break - Visit Exhibits (2nd Floor)

SESSION 5

LOWER EXTREMITY ARTERIAL EVALUATION

Moderator:	Anne Marie Kupinski, PhD, RVT
1:15 - 1:27	"Equivocal ABI Results: What Next?" David M. Williams, MS, RDCS, RVT
1:27 - 1:37	Practical Time Smart Approaches To Duplex Arterial Mapping Of The Lower Extremities Natalie A. Marks, MD, RPVI, RVT
1:37 - 1:47	Tibial Artery Duplex Derived Peak Systolic Velocities To Evaluate The Effectiveness Of Endovascular Treatments Gregory L. Moneta, MD
1:47 — 1:57	Evaluation Of Non-Atherosclerotic Arterial Disease Processes Anne Marie Kupinski, PhD, RVT
1:57 — 2:07	"When Abnormal Is Normal": 3 Case Studies In Patients After Peripheral Arterial Interventions Angela A. Kokkosis, MD, RPVI
2:07 — 2:17	The SVS Guidelines For Follow-Up After Vascular Surgery Procedures R. Eugene Zierler, MD, RPVI
2:17 - 2:30	Panel Discussion

SESSION 6

PRACTICE ENHANCEMENTS 1: PHILOSOPHICAL ISSUES

Moderator:	Laurence Needleman, MD
2:30 — 2:40	Managing The Sonographer-Physician Relationship Laurence Needleman, MD
2:40 — 2:50	How Much Patient/Physician To Sonographer Communication Is Enough Or Too Much Laurence Needleman, MD
2:50 — 3:00	Just Ask, Just Tell – The Power Of Communication In Achieving Quality Vascular Ultrasound John E. Gocke, MD, MPH, RPVI, RVT
3:00 — 3:10	Appropriate Use Criteria: Practicality And Implications For The Vascular Lab <i>Joseph P. Hughes, RVT, RVS</i>
3:10 - 3:25	Break - Visit Exhibits (2nd Floor)

SESSION 7

PRACTICE ENHANCEMENTS 2: ISSUES RELATED TO EDUCATION, TRAINING, SONOGRAPHER HEALTH AND QUALITY

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

3.25 – 3.35 Training Pathways For The Vascular Laboratory Physician R. Eugene Zierler, MD, RPVI 3.35 – 3.45 Vascular Lab Reports: Essential Components And What Is Not Needed John E. Gocke, MD, MPH, RPVI, RVT 3.45 – 3.55 Simulation In Vascular Ultrasound Training And Assessment R. Eugene Zierler, MD, RPVI 3.55 – 4.05 Industry Guidelines For Prevention Of Work Related Musculoskeletal Injuries In Sonography Matthew P. Hernandez, BSc, DPT, CSCS 4.05 – 4.25 Panel Discussion (Combined Sessions 6 and 7) SESSION 8 THE SWOLLEN EXTREMITY: IT'S NOT ALWAYS DVT Moderator: Deepak G. Nair, MD, MS, RVT 4.25 – 4.35 Evaluation Of The Post-Thrombotic Limb Nicos Labropoulos, BSc (Med), PhD, DIC, RVT The Swollen Lower Extremity: Venous, Arterial Or Lymphedema Fedor Lurie, MD, PhD 4.45 – 4.55 Understanding Lymphedema And The Role Of The Vascular Lab In Its Treatment Deepak G. Nair, MD, MS, RVT 4.55 – 5.05 Lymphovenous Networks In Patients With Chronic Venous Disease Nicos Labropoulos, BSc (Med), PhD, DIC, RVT 5.05 – 5.15 Upper Extremity Swelling In The Hemodialysis Patient Clifford M. Sales, MD, MBA 5.15 – 5.27 Panel Discussion SATURDAY, NOVEMBER 18, 2017 SESSION 9 PRINCIPLES TUNE-UP: HOW SHARP ARE YOU: PART 1 Moderator: George L. Berdejo, BA, RVT 7.00 – 7.50 Principles Tune-Up Frederick Kremkau, PhD SESSION 10 VENOUS PATHOLOGY OF THE ABDOMEN AND PELVIS Moderator: Nicos Labropoulos, BSc (Med), PhD, DIC, RVT 7.50 – 7.58 Clinical Presentation Of Patients With Pelvic Pathology Steve Elias, MD Detection Of Pelvic Venous Reflux Antonios P. Gasparis, MD 8.06 – 8.14 Pelvic Reflux Pathways Mark H. Meissner, MD 8.14 – 8.22 Uncommon Causes Of Obstruction Nicos Labropoulos, MD		
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8:30 — 8:38	Nutcracker Syndrome Thomas S. Maldonado, MD
8:38 — 8:46	Follow-Up Of Venous Interventions Neil M. Khilnani, MD
8:46 — 8:54	Aneurysms Of The IVC And Iliac Veins Sareh Rajaee, MD, MPH
8:54 — 9:00	Panel Discussion
9:00 — 9:15	Break - Visit Exhibits (2nd Floor)

SESSION 11

CHALLENGING ISSUES IN THE CURRENT HEALTH CARE ENVIRONMENT AND IN THE SPECIALTY OF VASCULAR ULTRASOUND: WHERE IT'S GOING, REIMBURSEMENT, CERTIFICATION AND LICENSURE, ACCREDITATION

Moderator:	Anne M. Jones, RN, BSN, RVT, RDMS
9:15 — 9:24	State Licensure Updates And Concerns Anne M. Jones, RN, BSN, RVT, RDMS
9:24 — 9:33	Breaking News On Vascular Lab Reimbursement: What Has Changed And Why? Sean P. Roddy, MD
9:33 — 9:42	Is There Any Hope For A Standalone Code For Venous Insufficiency Testing? Robert M. Zwolak, MD, PhD
9:42 — 9:51	The IAC Quality Improvement Program: How It Can Help Laurence Needleman, MD
9:51 — 10:00	Update On ARDMS Sonographer And Physician Credentialing And Expansion Of Credential To Other Specialties R. Eugene Zierler, MD, RPVI
10:00 — 10:09	Update On CCI Sonographer Credentialing And Other Activities Diana L. Neuhardt, RVT, RPhS
10:09 — 10:20	Panel Discussion

SESSION 12

ABDOMINAL IMAGING

Moderator:	Leslie M. Scoutt, MD
10:20 — 10:30	Incidental Findings On Liver Doppler: What Is Worrisome And What Is Not Robert De Jong, RDMS, RVT
10:30 — 10:40	5 Top Tips On Hepato-Portal Imaging Mani Montazemi, RDMS
10:40 — 10:50	Duplex Follow-Up Of Renal And Mesenteric Stents After Fenestrated EVAR R. Eugene Zierler, MD, RPVI
10:50 — 11:00	Imaging Of Endoleaks After EVAR Leslie M. Scoutt, MD
11:00 — 11:10	Break – Visit Exhibits (2nd Floor) Transition to Workshops (2nd Floor)

SESSION 13

WORKSHOP ROTATION 2

11:10 — 12:00	
MURRAY HILL Suite	1. Principles Tune-Up: How Sharp Are You: Part 2 Frederick Kremkau, PhD

IMAGING ESSENTIALS - GUIDANCE FROM THE GUIDELINES AND STANDARDS: PROTOCOLS IN VASCULAR IMAGING

These workshops will instruct practitioners on techniques of assessment and imaging in a variety of common and uncommon disease states. In addition, these practical workshops will discuss workflow and quality that you can incorporate into your laboratory practice when you return home.

REGENT PARLOR

2. Upper Extremity Vessel Mapping Prior To Hemodialysis Access Surgery

Richard Dubin, AAS-DMS, RVT, RDMS

Richara Duoin, AAS-DMS, RV I, RDMS Angela Rodriguez-Wong, MD, RPVI, RVT

MADISON SUITE

3. Physiologic Testing In Arterial Disease

Anne Marie Kupinski, PhD, RVT

SUTTON PARLOR CENTER 4. Vein Reflux Evaluation

Joseph Zygmunt, RVT, RPhS

5. Carotid Duplex Evaluation

5. Carotid Duplex Evaluation William N. Del Valle, RVT Kelvin Portalatin, AA, RVT

NASSAU SUITE EAST 6. Hemodialysis Access

Joseph P. Hughes, RVT, RVS Fernando Amador, RVT

SUTTON PARLOR SOUTH 7. Renal Artery And Mesenteric Evaluation

Mani Montazemi, RDMS

GIBSON SUITE 8. Vein Reflux Evaluation

Diana L. Neuhardt, RVT, RPhS

12:00 – 12:15 Pick up Lunch in the South Corridor Exhibit Area (2nd Floor) and return to the Murray Hill Suites for

the Luncheon Program.

SESSION 14

LUNCHEON PROGRAM: HEMODIALYSIS ACCESS: ROLE OF ULTRASOUND IN PLANNING, EVALUATION AFTER CREATION AND INTERVENTION MANAGEMENT

Moderator: Clifford M. Sales, MD, MBA

12:15 — 12:27	Important Factors Affecting AV Fistula Maturation And How Ultrasound Can Help: Use Of Ultrasound For Preoperative Planning Ann Marie Kupinski, PhD, RVT
12:27 — 12:39	Postoperative Assessment Of Complications In Hemodialysis Access Surgery Leslie M. Scoutt, MD
12:39 — 12:51	Using Ultrasound To Plan And Perform The Intervention In Patients With Hemodialysis Access Complications: How I Use The Information William D. Suggs, MD
10 E1 1 00	Dala Of DUIC In Dialoria Access Intermediana

12:51 – 1:03 Role Of IVUS In Dialysis Access Interventions

David Fox. MD. RPVI

1:03 - 1:10 Panel Discussion

1:10 - 1:20 Break - Visit Exhibits (2nd Floor)

Transition to Workshops (2nd Floor)

SESSION 15

WORKSHOP ROTATION 3

1:20 - 2:30MURRAY HILL

1. Transmitting And Receiving On The Future's Edge Frank Miele, MSEE

At the heart of cutting edge changes in vascular ultrasound are at least four major factors: improvements in signal processing, new techniques such as contrast imaging and the use of nanoparticles, etc., improvements in signal acquisition, and the use of ultrasound for disease treatment. Over the last few years there have been significant advancements in the technology which fundamentally change signal acquisition, processing, and even the focus of ultrasound from diagnostic tool only to medical treatment tool, including promising applications of ultrasound for conditions such as brain tumors and Alzheimer's. This didactic workshop will focus on the technology changes and what they mean to the future of ultrasound.

GRAMERCY SUITE EAST

2. Quality Matters - Manage It Well

Richard Dubin, AAS-DMS, RVT, RDMS

This workshop will discuss basic and advanced setup of presets for Venous, Arterial and Carotid Duplex examinations. What are the common B-Mode, Spectral and Color Doppler and basic dynamic optimization parameters and how to quickly adjust them for maximum performance. The setup for more advanced needs - Visceral, Dialysis Access, TCD/Duplex and EVAR Duplex will also be covered.

IMAGING ESSENTIALS - GUIDANCE FROM THE SOCIETY GUIDELINES AND STANDARDS: PROTOCOLS IN VASCULAR IMAGING

These workshops will instruct practitioners on techniques of assessment and imaging in a variety of common and uncommon disease states. In addition, these practical workshops will discuss workflow and quality that you can incorporate into your laboratory practice when you return home.

REGENT PARLOR

3. Lower Extremity Arterial Imaging Angela Rodriguez-Wong, MD, RPVI, RVT

MADISON SUITE

4. Physiologic Testing In Arterial Disease

SUTTON PARLOR CENTER

Anne Marie Kupinski, PhD, RVT

5. Vein Reflux Evaluation

NASSAU SUITE WEST

Joseph Zygmunt, RVT, RPhS 6. Carotid Duplex Examination

NASSAU SUITE EAST

William N. Del Valle, RVT 7. Transcranial Doppler

Joseph P. Hughes, RVT, RVS

SUTTON PARLOR SOUTH

8. Renal Artery And Mesenteric Evaluation

Robert De Jong, RDMS, RVT 9. Vein Reflux Evaluation

GIBSON SUITE

Diana L. Neuhardt, RVT, RPhS

2:30 - 2:40

Transition to Plenary Sessions (Murray Hill Suites, 2nd Floor)

SESSION 16

VENOUS THROMBOEMBOLIC DISEASE

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

2:40 — 2:50	Evidence Based Venous Ultrasound: Does The Evidence Support Your Lab's Policies? Laurence Needleman, MD		
2:50 — 3:00	Is A Routine Full (Groin To Ankle) Examination Necessary In All Patients Suspected Of DVT Or Is A Limited Examination And D-Dimer Safe In Selected Patients Mark A. Oliver, MD, RPVI, RVT		
3:00 — 3:10	Role Of The Vascular Lab In Diagnosis And Treatment Of Venous Thoracic Outlet Compression Syndrome <i>Richard C. Pennell, MD</i>		
3:10 — 3:20	Management Of Iliac Venous Compression In The Young, The Old And The Very Old Patients Anil P. Hingorani, MD		
3:20 - 3:30	Panel Discussion		
SESSION 17			
	LLS AND CONTROVERSIES		
Moderator:	Sergio X. Salles-Cunha, PhD, RVT		
3:30 — 3:40	Review Of The 2016 And 2017 Vascular Ultrasound Literature: What's New, What Matters Phillip J. Bendick, PhD, RVT		
3:40 — 3:50	What Every Sonographer Needs To Know About Optimizing The Vascular Image: How To And Why It Makes A Difference: 5 Case Studies Mani Montazemi, RDMS		
3:50 — 4:00	New Paradigm For Sonographic Principles: One-Year Progress Report Frederick Kremkau, PhD		
4:00 — 4:10	Ultrasonographic Tissue Characterization Of Kidneys In Patients With Unilateral Renal Artery Stenosis Sergio X. Salles-Cunha, PhD, RVT		
4:10 — 4:20	Break		
SESSION 18 CEREBRO	VASCULAR TESTING ISSUES		
Moderator:	Richard C. Pennell, MD		
4:20 — 4:31	Update On The IAC Carotid Consensus Project Heather L. Gornik, MD		
4:31 — 4:42	A Single Center's Experience In Search Of The Holy Grail Of Carotid Stenosis Criteria Richard C. Pennell, MD		
4:42 — 4:53	Evaluation Of The Aortic Arch Vessels Nicos Labropoulos, BSc (Med), PhD, DIC, RVT		
4:53 — 5:04	Vertebral Artery Evaluation Is About More Than Just Flow Direction <i>Laurence Needleman, MD</i>		
5:04 — 5:15	Non-Atherosclerotic Carotid Disease Processes Sergio X. Salles-Cunha, PhD, RVT		
5:15 — 5:30	Panel Discussion (Combined Sessions 17 and 18)		
5:30 — 5:35	Closing Remarks George L. Berdejo, BA, RVT Natalie A. Marks, MD, RPVI, RVT		
5:35 — 5:40	Raffle Drawing – You Must Be Present To Win		
	Symposium Ends		

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George L. Berdejo, BA, RVT, FSVU

White Plains, New York

Robert De Jong, RDMS, RVT, FSDMS

Baltimore, Maryland

William N. Del Valle, RVT

Summit, New Jersey

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