

AVID symposium®

Advances in Vascular Imaging and Diagnosis

Friday and Saturday, November 18-19, 2016

27th Symposium & Workshops on Management and Clinical Issues

Symposium Chairs:

George L. Berdejo, BA, RVT, FSVU

Natalie A. Marks, MD, RPVI, RVT

Symposium Co-Chairmen:

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

Laurence Needleman, MD

Frank J. Veith, MD

Honorary Chair:

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



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AVID symposium®

Advances in Vascular Imaging and Diagnosis

27TH SYMPOSIUM AND WORKSHOPS ON MANAGEMENT AND CLINICAL ISSUES

FRIDAY AND SATURDAY
NOVEMBER 18 – 19, 2016

SYMPOSIUM CHAIRS

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Laurence Needleman, MD
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HONORARY CHAIR

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

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Jacqueline M. Simpson, BBA

SYMPOSIUM ASSOCIATE DIRECTOR

Steven J. Feld, MSW

WORKSHOP COORDINATORS

Fernando Amador, RVT
Joshua Cruz, BS, RVT
Kelvin Portalatin, AA, RVT

CENTER FOR CONTINUING MEDICAL EDUCATION

Steven M. Kawczak, PhD

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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 27th 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.

ONLINE ACCESS TO ABSTRACTS

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

GENERAL INFORMATION

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 17.75 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.

FOR ARDMS AND CCI CREDENTIALLED 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).

1. 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, 2017.**

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 9, 2016. *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

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

Warren Schreiber at wschreiber@firsthandtickets.com

Zach Schreiber at zschreiber@firsthandtickets.com,

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

FRIDAY, NOVEMBER 18, 2016

- 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

CASE-BASED LEARNING

During this session, the practice of clinical vascular sonography and its relationship to patient management will be highlighted and stressed by experts. This session will cover patient-centered care, time efficiency and “complex disease patterns in difficult” vascular disease patients. This will be an excellent learning opportunity facilitated by the presentation of pertinent clinical cases to set the stage for specific questions related to imaging and management.

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

- 8:00 – 8:12** Lower Extremity Arterial
George L. Berdejo, BA, RVT
- 8:12 – 8:24** Lower Extremity Venous
Anne Marie Kupinski, PhD, RVT
- 8:24 – 8:36** Cerebrovascular
David M. Williams, MS, RDCS, RVT
- 8:36 – 8:48** Hemodialysis Access
Steven J. Knight, BSc
- 8:48 – 9:00** Abdominal Imaging
Mani Montazemi, RDMS
- 9:00 – 9:15** Panel Discussion
- 9:15 – 9:35** Break – Visit Exhibits (2nd Floor)

SESSION 2

VENOUS: THROMBO-EMBOLIC DISEASE

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

- 9:35 – 9:45** Use Of D-Dimer And Ultrasound For DVT Evaluation
John Blebea, MD, MBA
- 9:45 – 9:55** Calf Vein Imaging: Always, Never, It Depends: What Do The Society Guidelines And Standards Recommend And My Own Philosophy
Laurence Needleman, MD
- 9:55 – 10:05** Management Of Calf Vein Thrombosis After Venous Interventional Procedures
Neil M. Khilnani, MD
- 10:05 – 10:15** Isolated Soleal And Gastrocnemius Vein Thrombosis
Clifford M. Sales, MD, MBA
- 10:15 – 10:25** Duplex US Follow-Up Of DVT: How And Why, When Should And Should Not Do It
R. Eugene Zierler, MD, RPVI
- 10:25 – 10:40** Panel Discussion
- 10:40 – 10:50** Break - Visit Exhibits (2nd Floor)
 Transition to Workshops (Americas Hall 2, 3rd Floor)

SESSION 3

WORKSHOP ROTATION 1

10:50 – 12:00

ROOM 1

5.1 Color Optimization

Frank Miele, MSEE

Color Doppler has some similarities to spectral Doppler, some similarities to B-mode imaging, and some unique characteristics. As such, optimizing color and understanding color artifacts is somewhat different than understanding imaging or spectral Doppler. In this lecture (workshop) you will be shown color situations and then asked how to best improve the image or eliminate the artifact(s).

ROOM 2

Quality Matters – Manage It Well

Rick Dubin, AAS-DMS, RVT, RDMS

This lecture/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, Transcranial Doppler Duplex and EVAR Duplex will also be covered.

ROOM 3

Cardiac Effects

David M. Williams, MS, RDMS, RVT

Steven J. Knight, BSc

The effect of cardiac pathologies on flow patterns in the venous and arterial circulations and their impact of the peripheral duplex examination and interpretation will be discussed. This will be a case study lecture/workshop.

MURRAY HILL SUITE

Principles Of Duplex Diagnosis

Laurence Needleman, MD

Richard C. Pennell, MD

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 4

The Writer’s “Block” (10-Minute Presentations And 24-Minute Discussion)

Moderator: Terence N. Needham, RVT

5.1 The Process: From Concept To Final Product
George L. Berdejo, BA, RVT

5.2 The Abstract And Manuscript
Anne Marie Kupinski, PhD, RVT

5.3 An Analysis Of The 2016 SVU Submissions
Terence N. Needham, RVT

Discussion

ROOM 5

Ergonomics

Matthew Hernandez, B.Sc, DPT, CSCS

Work postures are the one solution over which sonographers have the most control. Regardless of the work schedule or the work station equipment, if sonographers fail to make changes in how they perform exams, they will continue to be at risk for occupational

injuries. This workshop will provide practical solutions and advice for maximizing your ergonomic experience in order to reduce the long-term negative effects of WRMSDs.

12:00–12:10

Pick Up Lunch In South Corridor Exhibit Area (2nd Floor) and Return to Murray Hill Suites for Luncheon Program.

SESSION 4

LUNCHEON PROGRAM: VENOUS - ILIO-FEMORAL VENOUS DISEASE

Moderators: *George L. Berdejo, BA, RVT*
Nicos Labropoulos, BSc (Med), PhD, DIC, RVT

12:10 –12:19

Presentation And Clinical Indications/Manifestations For Evaluating Pelvic Congestion
Mark H. Meissner, MD

12:20 –12:29

Technical Protocol And Tips For Evaluating Pelvic Pathologies
Nicos Labropoulos, BSc (Med), PhD, DIC, RVT

12:30 –12:39

IVUS For Iliac Vein Compression
Paul J. Gagne, MD

12:40 –12:49

Duplex Ultrasound For Iliofemoral Venous Obstruction And Follow-Up After Stenting
Michael R. Jaff, DO

12:49 – 1:00

Panel Discussion

1:00 – 1:20

Break – Visit Exhibits (2nd Floor)

SESSION 5

ARTERIAL

Moderator: *Natalie A. Marks, MD, RPVI, RVT*

1:20 – 1:32

A Discussion Of Arterial Doppler Waveforms: The Confusion Continues
Steven J. Knight, BSc

1:32 – 1:44

Characterization Of Tibial Velocities By Duplex Ultrasound In Severe Peripheral Arterial Disease And Controls
Gregory L. Moneta, MD

1:44 – 1:56

Value Of Ultrasound In The Planning, Access And Control Of Angioplasty Above And Below The Knee
Natalie A. Marks, MD, RPVI, RVT

1:56 – 2:08

Criteria For Duplex Follow-Up Of Lower Extremity Endovascular Interventions
R. Eugene Zierler, MD, RPVI

SESSION 6

PRACTICE ENHANCEMENTS I: ISSUES RELATED TO EDUCATION, PRODUCTIVITY AND QUALITY

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

2:08 – 2:20

Development Of A Duplex Ultrasound Simulator For Training And Assessment
R. Eugene Zierler, MD, RPVI

2:20 – 2:32

The Ergonomically Correct Examination Room
Matthew P. Hernandez, B.Sc, DPT, CSCS

2:32 – 2:34

The New Paradigm For Understanding And Teaching Sonographic Principles Required By The Massive Post-Processing In Contemporary Sonographic Instruments
Frederick Kremkau, PhD

- 2:34 – 2:56** Moving The Lab From Paper To Digital
Josh D. Lee, BS
- 2:56 – 3:15** Panel Discussion – Combined Sessions 5 And 6
- 3:15 – 3:45** Break – Visit Exhibits (2nd Floor)

SESSION 7

TEST YOUR VENOUS KNOWLEDGE

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

- 3:45 – 3:54** Anatomic Relations In The Thoracic Outlet
David L. Gillespie, MD
- 3:54 – 4:03** Venous Thrombosis Facts
Mark H. Meissner, MD
- 4:03 – 4:12** Is It Or Is It Not What Appears To Be
Steve Elias, MD
- 4:12 – 4:21** How Well Do You Know The Pelvic Veins
Antonios P. Gasparis, MD
- 4:21 – 4:30** Venous Images: What Is The Correct Answer
Nicos Labropoulos, BSc (Med), PhD, DIC, RVT
- 4:30 – 4:39** How Well Do You Know The Central Veins
Luis R. Leon, MD, RVT
- 4:39 – 4:48** Get The Clinical Picture?
Angela Kokkosis, MD, RPVI
- 4:48 – 4:57** What Kind Of Swelling Is This
Thomas S. Maldonado, MD
- 4:57 – 5:06** Extraluminal Pathology
Apostolos K. Tassiopoulos, MD
- 5:06 – 5:25** Panel Discussion
- 5:25 – 5:30** Summary Of The Day

SATURDAY, NOVEMBER 19, 2016

SESSION 8

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

Moderator: *Joshua Cruz, BS, RVT*

- 7:00 – 7:55** Principles Tune-Up
Frederick Kremkau, PhD

SESSION 9

MORE ON VENOUS: CHRONIC VENOUS DISEASE

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

- 7:55 – 8:00** Introduction To The Day
George L. Berdejo, BA, RVT
- 8:00 – 8:10** The Vernacular Of Chronic Venous Disease: From The Presentation To The Diagnostic Workup To Follow-Up
Nicos Labropoulos, BSc (Med), PhD, DIC, RVT
- 8:10 – 8:20** The Physical Examination Of The CVI Patient Guides The Ultrasound Examination
Natalie A. Marks, MD, RPVI, RVT
- 8:20 – 8:30** Simplifying Venous Reflux Studies: What I Really Want To Know
Richard C. Pennell, MD
- 8:30 – 8:40** Non-Thermal Saphenous Vein Ablation: The Role For Duplex Ultrasound
Michael J. Singh, MD

- 8:40 – 8:50** The Argument Against Routine Duplex Ultrasound After Truncal Ablation: An Evidence-Based Cost-Benefit Analysis
Thomas F. O'Donnell, Jr., MD
- 8:50 – 9:00** Panel Discussion
- 9:00 – 9:15** Break – Visit Exhibits (2nd Floor)

SESSION 10

THE CURRENT HEALTH CARE ENVIRONMENT EVOLVES: REIMBURSEMENT; IMPACT OF OBAMACARE (ACA), ACOs, ETC. AND THE IMPACT ON VASCULAR ULTRASOUND

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

- 9:15 – 9:24** Critical Issues For The Vascular Ultrasound Professional And Introduction To The Session
Anne M. Jones, RN, BSN, RVT, RDMS
- 9:24 – 9:33** CMS Consolidation Of APCs: The Good, The Bad And The Ugly
Robert M. Zwolak, MD, PhD
- 9:33 – 9:42** Major Changes Impacting Vascular Lab Reimbursement
Sean P. Roddy, MD
- 9:42 – 9:51** IAC-Vascular: What The ACCs Departure Forebodes And Other Updates
Laurence Needleman, MD
- 9:51 – 10:00** The “New” ARDMS – What Does It Mean To You As A Physician And/Or Sonographer
R. Eugene Zierler, MD, RPVI

SESSION 11

PRACTICE ENHANCEMENTS II

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

- 10:00 – 10:09** The CCI Advanced Cardiac Sonographer Credential: Implications For Vascular Ultrasound Professional
Anne M. Jones, RN, BSN, RVT, RDMS
- 10:09 – 10:18** A Single Laboratory's Experience With Task Analysis: Variances Between National Benchmarks And Local Practices
Richard C. Pennell, MD
- 10:18 – 10:27** Focus On Quality Assurance And Appropriate Use Criteria
Bettina McAlister, RVT
- 10:27 – 10:36** What Is The Duty, If Any Of The Sonography Professional To Report Unethical/Routinely Inaccurate Or Overuse Of Procedures: Why It Does Not Happen And What To Do If Such Reporting Does No Good
John Blebea, MD, MBA
- 10:36 – 10:50** Panel Discussion – Combined Sessions 10 And 11
- 10:50 – 11:00** Transition to Workshops (2nd Floor)

SESSION 12

WORKSHOP ROTATION 2

11:00 – 12:00

MURRAY HILL SUITE

1. Great Vibrations Or Artifact And Am I Moving In The Right Direction: Challenging And Unusual Cases

Frank Miele, MSEE

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

These workshop sessions will instruct practitioners on techniques of assessment and imaging in a variety of common and uncommon disease states. In addition, this practical session will discuss workflow and quality that you can incorporate into your lab when you return home.

REGENT PARLOR

2. Cerebrovascular Ultrasound

Natalie A. Marks, MD, RPVI, RVT

MADISON SUITE

3. Upper Extremity Vein Imaging

William N. Del Valle, RVT

Fernando Amador, RVT

SUTTON PARLOR CENTER

4. The Hemodialysis Access Examination

Anne Marie Kupinski, PhD, RVT

NASSAU SUITE WEST

5. The Mesenteric Evaluation

Mani Montazemi, RDMS

NASSAU SUITE EAST

6. The Reflux Examination

Joshua Cruz, BS, RVT

SUTTON PARLOR SOUTH

7. The Kidney And Renal Artery Examination

Robert De Jong, RDMS, RVT

12:00 – 12:10

Pick Up Lunch In South Corridor Exhibit Area (2nd Floor) and Return to Murray Hill Suites for Luncheon Program.

SESSION 13

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

Moderators: *Joshua Cruz, BS, RVT*

George L. Berdejo, BA, RVT

12:10 – 1:00

Principles Tune-Up II: How Sharp Are You

Frederick Kremkau, PhD

1:00 – 1:10

Break – Visit Exhibits (2nd Floor)

Transition to Workshops (2nd Floor)

SESSION 14

WORKSHOP ROTATION 3

1:10 – 2:10

MURRAY HILL SUITE

1. Interpretation Of Vascular Studies: When It Does Not Make Sense: Putting The Pieces Together

Laurence Needleman, MD

R. Eugene Zierler, MD, RPVI

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

These workshop sessions will instruct practitioners on techniques of assessment and imaging in a variety of common and uncommon disease states. In addition, this practical session will discuss workflow and quality that you can incorporate into your lab when you return home.

REGENT PARLOR	2. The Carotid Duplex Examination <i>Steven J. Knight, BSc</i> <i>Kelvin Portalatin, AA, RVT</i>
MADISON SUITE	3. Upper Extremity Vein Imaging <i>Terence N. Needham, RVT</i> <i>Josh D. Lee, BS</i>
SUTTON PARLOR CENTER	4. The Hemodialysis Access Examination <i>Anne Marie Kupinski, PhD, RVT</i> <i>Bettina McAlister, RVT</i>
NASSAU SUITE WEST	5. The Mesenteric Evaluation <i>Mani Montazemi, RDMS</i>
NASSAU SUITE EAST	6. The Reflux Examination <i>Joshua Cruz, BS, RVT</i>
SUTTON PARLOR SOUTH	7. The Kidney And Renal Artery Examination <i>Robert De Jong, RDMS, RVT</i>
2:10 – 2:15	Transition to Plenary Sessions (Murray Hill Suites, 2nd Floor)

SESSION 15

CURVEBALLS AND CONTROVERSIES

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

2:15 – 2:24	Medial Wall Calcinosi Development And Accurate Blood Flow Measurement: When To Start Relying Solely On Duplex For Flow Assessment <i>David M. Williams, MS, RDMS, RVT</i>
2:24 – 2:33	Point-Of-Care Ultrasound And The Vascular Lab <i>R. Eugene Zierler, MD, RPVI</i>
2:33 – 2:42	Cardiovascular Risk Assessment In The Vascular Laboratory <i>Sheila N. Blumberg, MD</i>
2:42 – 2:51	Improving Visualization Of Needles (And Vessels) For Duplex Guided Interventions In Large And Small Vessel Access <i>Frank Miele, MSEE</i>

SESSION 16

ABDOMINAL

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

2:51 – 3:00	5 Top Tips On Renal Artery Imaging <i>Robert De Jong, RDMS, RVT</i>
3:00 – 3:09	5 Top Tips On Liver And TIPS Evaluation <i>Mani Monazemi, RDMS</i>
3:09 – 3:18	Characterization Of Endoleak, Especially Type 2 Endoleak By Duplex Ultrasound <i>Nicos Labropoulos, BSc (Med), PhD, DIC, RVT</i>
3:18 – 3:30	Panel Discussion – Combined Sessions 15 And 16
3:30 – 3:42	Break – Visit Exhibits (2nd Floor)

SESSION 17

MISCELLANEOUS TOPICS IN VASCULAR ULTRASOUND

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

3:42 – 3:54	Evaluation Of The Aortic Arch Vessels <i>David M. Williams, MS, RDMS, RVT</i>
3:54 – 4:06	Hemodialysis Access Evaluation Flow Velocity And Use Of Volume Flow Measurements <i>Anne Marie Kupinski, PhD, RVT</i>

- 4:06 – 4:18** Steal Syndrome Following Dialysis Access Creation:
Expected Duplex Findings Before And After Intervention
Michael J. Singh, MD
- 4:18 – 4:30** The Value Of Ultrasound Screening Of Femoral And
Carotid Arteries To Predict Atherosclerotic Risk And
What To Do About It
Andrew N. Nicolaides, MS

SESSION 18

CEREBROVASCULAR

Moderator: *Laurence Needleman, MD*

- 4:30 – 4:40** Update On The IAC Carotid Criteria Project: What Is
It And Is This Any Closer To Reality
Laurence Needleman, MD
- 4:40 – 4:50** One Lab's Quest For The Optimal Carotid Duplex
Criteria: Challenges Faced Adapting The Consensus
And Other Criteria In Search Of "The Holy Grail"
Richard C. Pennell, MD
- 4:50 – 5:00** When Duplex Ultrasound Alone Is Not Enough Prior
To Carotid Endarterectomy
Glenn M. LaMuraglia, MD
- 5:00 – 5:10** Clinical Significance Of Duplex Detected Reversal Of
Flow In A Vertebral Artery
Thomas S. Maldonado, MD
- 5:10 – 5:25** Panel Discussion – Combined Sessions 17 And 18
- 5:25 – 5:30** Closing Remarks
George L. Berdejo, BA, RVT
Natalie A. Marks, MD, RPVI, RVT
- 5:30** Raffle Drawing – You Must Be Present To Win

Symposium Ends

FACULTY

A

Fernando Amador, RVT
Bronx, New York

B

George L. Berdejo, BA, RVT, FSVU
White Plains, New York

John Blebea, MD, MBA
Tulsa, Oklahoma

Sheila N. Blumberg, MD
Brooklyn, New York

D

**Robert De Jong, RDMS, RVT,
FSDMS**
Baltimore, Maryland

William N. Del Valle, RVT
New York, New York

**Richard Dubin, AAS-DMS, RVT,
RDMS**
Bronx, New York

E

Steve Elias, MD
Englewood, New Jersey

G

Paul J. Gagne, MD
Darien, Connecticut

Antonios P. Gasparis, MD
Stony Brook, New York

David L. Gillespie, MD
Fall River, Massachusetts

F

**Matthew P. Hernandez, B.Sc, DPT,
CSCS**
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Frederick Kremkau, PhD
Winston-Salem, North Carolina

**Ann Marie Kupinski, PhD, RVT,
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Albany, New York

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Josh D. Lee, BS
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Luis R. Leon, MD, RVT, FACS
Tucson, Arizona

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Bettina McAlister, RVT
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N

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O

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Boston, Massachusetts

**Mark A. Oliver, MD, RPVI, RVT,
FSVU**
Morristown, New Jersey

P

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