

WELCOME TO

Phoenix, Arizona | November 7-10, 2019

AVLS 2019

33RD ANNUAL CONGRESS



AMERICAN VEIN &
LYMPHATIC SOCIETY



SPECIAL THANKS

PROGRAM PLANNING COMMITTEE

Steven Elias, MD, FACS, FAVLS
Congress

**Ellen Dillavou, MD, FACS &
Steven Elias, MD, FACS, FAVLS**
AVLS: Live

Antonios Gasparis, MD & Peter Pappas, MD
AVLS: Interactive

Joseph Raffetto, MD, FACS, FSVM
AVLS: Emerging Science

Sarah Whitehead, ARNP
Allied Health Program

Carl Black, MD & Antonios Gasparis, MD
Deep Veins Program

**Steven Dean DO, FACP, RPVI &
Heather Hettrick PT, PhD, CWS, CLT, LANA, CLWT,
CORE, AWCC**
Lymphedema Program

Kathleen Gibson, MD & Mark Meissner, MD
Pelvic & Women's Veins Program

Neil Khilnani, MD, FSIR, FAVLS & Nicos Labropoulos, PhD
Superficial Veins Program

**John Bartholomew, MD &
Yung-Wei Chi, DO, FAHA, FSVM, FAVLS**
Vascular Medicine Program

Sara Skjonsberg, RVT, RPhS
Vascular Ultrasound Program

William Marston, MD
Wound Program



ABSTRACT SELECTION COMMITTEE

Joseph Raffetto, MD, FACS, FSVM - Chair

Faisal Aziz, MD

John Blebea, MD, MBA, FACS

Dawn Coleman, MD

William Marston, MD

Andrea Obi, MD

Kathleen Ozvath, MD

Julianne Stoughton, MD, FACS

Michael Vasquez, MD, FACS, RVT

Keep Up with AVLS Congress
Updates while on the Go

DOWNLOAD
the mobile app

To download search:
AVLS Events



FVLD GOLF OUTING*

11:00 AM - 5:30 PM

Wildfire Golf Course

FVLD EXPEDITION*

2:30 PM - 4:30 PM

Sunset Lawn

Sponsored by Center for Vein Restoration

WELCOME DROP-IN RECEPTION*

5:00 PM - 8:00 PM

Ballroom Lawn

Hosted by AngioDynamics

FELLOWS DINNER*

7:00 PM - 9:30 PM

Hosted by JOBST • Capri Private Dining • Invite Only

7:00 AM - 8:00 AM - Continental Breakfast* - Sunset Lawn
CONCURRENT SESSIONS: PRACTICAL
**8:00 AM - 10:30 AM - Superficial Venous Disease & Treatment
Grand Saguario North & South**
Moderators: Neil Khilnani, MD, FSIR, FAVLS & Nicos Labropoulos, PhD
8:00 AM - 8:15 AM

 Patterns of Superficial Vein Reflux • *Ignacio Escotto, MD*
8:15 AM - 8:30 AM

What Do You Say to the Patient About Progression of the Disease?

 • *Neil Khilnani, MD, FSIR, FAVLS*
8:30 AM - 8:45 AM

 Interactive Clinical Case of Great Saphenous Vein Reflux • *Nicos Labropoulos, PhD*
8:45 AM - 9:00 AM

 Setting the Patient's Expectations About Treatment • *Lowell Kabnick, MD, RPhS, FACS, FAVLS*
9:00 AM - 9:15 AM

 Long Term Clinical Outcomes of Thermal Ablation • *Alun Davies, MD*
9:15 AM - 9:30 AM

 Interactive Clinical Case of Small Saphenous Vein Reflux • *Neil Khilnani, MD, FSIR, FAVLS*
9:30 AM - 9:45 AM

Latest Data on NTNT Ablation - Is There Enough or Do We Need More?

 • *Steve Elias, MD, FACS, FAVLS*
9:45 AM - 10:00 AM

 Management of Recurrent Reflux • *Kathleen Gibson, MD*
10:00 AM - 10:30 AM

 How Should These Patients Be Managed • *Neil Khilnani, MD, FSIR, FAVLS & Nicos Labropoulos, PhD*
**8:00 AM - 10:30 AM - Venous Diagnostics & Acute VTE Management
Grand Sonoran G**
Moderators: Carl Black, MD & Mark Meissner, MD
8:00 AM - 8:05 AM

 Welcome & Introduction • *Carl Black, MD*
8:05 AM - 8:15 AM

 Deep Disease: History, Physical, Imaging - What to Think About • *Steve Elias, MD, FACS, FAVLS*
8:15 AM - 8:25 AM

 Functional Venous Assessment: Role in Deep Venous Disease • *Tomasz Urbanek, MD, PhD*
8:25 AM - 8:35 AM

 Comprehensive Central Deep Venous Duplex • *Stephen Black, MD, FRCS(Ed), FEBVS*
8:35 AM - 8:45 AM

 IVUS/Venography: As a Diagnostic Tool - Maximizing Information • *Carl Fastabend, MD*
8:45 AM - 8:55 AM

 When is Axial Imaging Necessary • *TBD*
8:55 AM - 9:10 AM

 Panel Discussion • *All Faculty*
9:10 AM - 9:20 AM

Break

9:20 AM - 9:25 AM

 Welcome & Introduction • *Mark Meissner, MD*
9:25 AM - 9:35 AM

 DVT: When to Lyse or When to Anticoagulate • *Stephen Black, MD, FRCS(Ed), FEBVS*
9:35 AM - 9:45 AM

 Iliofemoral DVT Lysis - Technical Pearls • *Carl Black, MD*
9:45 AM - 9:55 AM

 PE Thoughts: Who Needs a Procedure & Which One? • *Stephen Black, MD, FRCS(Ed), FEBVS*
9:55 AM - 10:05 AM

 Management of Axillo-Subclavian Vein Thrombosis • *TBD*

* Indicates activity is not a part of the CME program

10:05 AM – 10:15 AM

What to Tell Patient to Expect After Deep Venous Interventions • *Steve Elias, MD, FACS, FAVLS*

10:15 AM – 10:30 AM

Panel Discussion • *All Faculty*

8:00 AM · 10:30 AM · Wound Care · Grand Sonoran F

Moderator: William Marston, MD

8:00 AM – 8:15 AM

What Causes VLU's & Why Does it Matter for Treating Them • *Joseph Raffetto, MD, FACS, FSVM*

8:15 AM – 8:35 AM

Other Things that Masquerade as Venous Ulcers – How to Recognize Them & What to do About Them • *Margaret Mann, MD, FAAD, FAVLS*

8:35 AM – 8:45 AM

How to Evaluate the Patient with a Leg Ulcer - When Should I Biopsy, Culture, Test? • *William Marston, MD*

8:45 AM – 9:00 AM

Cell/Tissue Products: Which Ones Are Useful and When Should I Use Them • *Joseph Raffetto, MD, FACS, FSVM*

9:00 AM – 9:15 AM

Panel Discussion • *All Faculty*

9:15 AM – 9:30 AM

Compression Options for Ulcer Patients • *Robert McLafferty, MD*

9:30 AM – 9:45 AM

Wound Bed Preparation & Management Of Biofilm in Wound Beds • *William Marston, MD*

9:45 AM – 9:55 AM

An Overall Management Plan for VLU's • *William Marston, MD*

9:55 AM – 10:15 AM

Case Reports • *Robert McLafferty, MD*

10:15 AM – 10:30 AM

Panel Discussion • *All Faculty*

**8:00 AM · 10:30 AM · American Venous Forum (AVF) Symposium:
How “We” Do It – Tips From Us, Feedback From You
Grand Sonoran E**

Moderator: Harold Welch, MD

8:00 AM – 8:20 AM

Integrating National Registries Into Your Practice & Making Them Work For You • *Brajesh Lal, MD*

8:20 AM – 8:40 AM

Overuse of Ablation for the Wrong Indications: A Growing Problem? • *Elna Masuda, MD*

8:40 AM – 9:00 AM

Endovenous Ablation & Phlebectomy • *Harold Welch, MD*

9:00 AM – 9:20 AM

Treatment Protocol for Pelvic Venous Reflux • *Antonios Gasparis, MD*

9:20 AM – 9:40 AM

Deep Venous Intervention for Post-Thrombotic Iliac Vein Occlusion: How I Do It • *Patricia Thorpe, MD, FSIR*

9:40 AM – 10:00 AM

Practical Venous Leg Ulcer Wound Care & Treatments • *Joseph Raffetto, MD, FACS, FSVM*

10:00 AM – 10:30 AM

Panel Discussion • *All Faculty*

10:30 AM · 10:45 AM · Break* · Grand Canyon Foyer

**10:45 AM · 12:00 PM · AVLS Live & One Big Thing
Grand Saguaro North & South**

Moderators: Ellen Dillavou, MD & Steve Elias, MD, FACS, FAVLS

10:45 AM – 11:05 AM

What Are We Not Learning From Industry Sponsored Trials? Can We Make a Difference? • *Mark Meissner, MD*

11:05 AM - 12:00 PM

AVLS Live Patient Evaluation

• Nick Morrison, MD, FACS, FAVLS, RPhS & Nicos Labropoulos, PhD

12:00 PM - 3:00 PM - Exhibit Hall Open***12:00 PM - 1:30 PM - Lunch* - Exhibit Hall**
12:15 PM - 1:15 PM - BTG/Boston Scientific Satellite Symposium*
Grand Saguario East
CONCURRENT SESSIONS: PRACTICAL
2:30 PM - 4:25 PM - Emerging Science Oral Abstract Session:
Superficial Venous Disease, Treatment & Implications
Grand Saguario North & South

Moderators: Joseph Raffetto, MD, FACS, FSVN & Lowell Kabnick, MD, RPhS, FACS, FAVLS

2:30 PM - 2:35 PM

Welcome • Joseph Raffetto, MD, FACS, FSVN

2:35 PM - 2:44 PM

Five-year extension study of patients from a randomized clinical trial (VeClose) comparing cyanoacrylate closure versus radiofrequency ablation for the treatment of incompetent great saphenous veins • Nick Morrison, MD, FACS, FAVLS, RPhS

2:44 PM - 2:53 PM

Reducing hyperpigmentation After Sclerotherapy (RHAS): Preliminary results of a randomized, controlled, clinical trial • Alejandro González Ochoa, MD

2:53 PM - 3:02 PM

90 ways to a lesion-specific saphenous vein therapy • Johann Ragg, MD

3:02 PM - 3:11 PM

VenaSeal versus Ablation with Endothermal Laser or Radiofrequency for Saphenous Vein Incompetence: a Comparison of Utilization of Adjunctive Phlebectomy (VenaSeal Value) • Kathleen Gibson, MD

3:11 PM - 3:20 PM

Safety of ultrasound guided foam sclerotherapy utilizing sclerosant from a 503b pharmacy compounded with room air to treat venous insufficiency: Post-procedure complication rates and medication errors • Satish Vayuvegula, MD, MS, FAVLS

3:20 PM - 3:29 PM

Percutaneous injection of cyanoacrylate filler glue with difficult patients for transcatheter cyanoacrylate adhesive closure • Naoki Sakakibara, MD, PhD

3:29 PM - 3:38 PM

Long term evaluation of the superficial vein reflux below the knee after varicose vein surgery • Beatrix Cucuruz, MD

3:38 PM - 3:47 PM

A Comparison of the Efficacy and Safety of Polidocanol Foam with 1:2 Polidocanol to air ratio versus 1:4 ratio for the treatment of Reticular Veins of the Lower Extremities • Erika Hoss, MD

3:47 PM - 3:56 PM

Potential relationship between Venous insufficiency and Orthostatic Hypotension • Arman Raz, MD

3:56 PM - 4:05 PM

Improper Potency and Impurities in Compounded Polidocanol • Jennifer LoBrailco

4:05 PM - 4:14 PM

Relevance of Cosmetic or Functional Surgery for Varicose Veins in Elderly Patients • Paul Pittaluga, MD

4:14 PM - 4:23 PM

Low Concentration Sclerotherapy (Casoni's Method) and Systemic Effects on Cytokines and Immunoglobulins • Ferdinando Mannello, PhD

4:23 PM - 4:25 PM

Conclusion

**2:30 PM · 4:25 PM · Lymphedema Therapy Session:
Compression for Treatment · Grand Sonoran G**

Moderator: Heather Hettrick, PT, PhD, CWS, CLT-LANA, CLWT, CORE, AWCC

2:30 PM – 4:25 PM

Compression Options for Lymphedema & Lipedema

• Robyn Bjork, PT, CLWT, CWS, CLT-LANA & Suzie Ehmann, PT, DPT, CWS, CLT-LANA

**2:30 PM · 4:25 PM · Venous Ultrasound, Not Just the Basics
Grand Sonoran E**

Moderator: Linda Antonucci, RPhS, RVT, RDCS

2:30 PM – 2:35 PM

Welcome & Announcements • Sara Skjonsberg, RVT, RPhS

2:35 PM – 2:50 PM

Ride the Wave – Venous Hemodynamics • Donna Kelly, RVT, RPhS, RDMS

2:50 PM – 3:05 PM

Clinical Examination – Putting the Pieces Together • Marresa Houle, BS, RVT, RPhS, RDMS

3:05 PM – 3:20 PM

Standing v. Reverse Trendelenburg Venous Reflux Examinations • Sara Skjonsberg, RVT, RPhS

3:20 PM – 3:30 PM

Ergonomics for the Vascular Sonographer • Carolyn Coffin, MPH, RDMS, RDCS, RVT

3:30 PM – 4:05 PM

Ergonomics Demo & Discussion • Carolyn Coffin, MPH, RDMS, RDCS, RVT

3:30 PM – 4:05 PM

Lower Extremity Superficial Venous Reflux Live Scanning with Commentary

• Marresa Houle, BS, RVT, RPhS, RDMS & Sara Skjonsberg, RVT, RPhS & Mariah Elliott, RVT, RPhS

4:05 PM – 4:25 PM

Panel Discussion • All Faculty

**2:30 PM · 4:25 PM · Allied Health Session:
Injections, Ingestion & Compression · Grand Sonoran F**

Moderator: Sarah Whitehead, ARNP

2:30 PM – 2:55 PM

Sclerotherapy Tips & Tricks • Terri Harper, MSN, APRN, FNP-C

2:55 PM – 3:00 PM

Question & Answer

3:00 PM – 3:20 PM

Sclerotherapy Complications • Jessica Ochs, PA-C

3:20 PM – 3:25 PM

Question & Answer

3:25 PM – 3:40 PM

Venotonic Drugs • Kristan Probeck, ANP-C

3:40 PM – 3:45 PM

Question & Answer

3:45 PM – 4:00 PM

Venous & Lymphatic Wound Care Updates • Mary Sieggreen, MSN, RN, CS, NP, CVN

4:00 PM – 4:05 PM

Question & Answer

4:05 PM – 4:20 PM

Compression, Compression, Compression • Terri Morrison, RN, BS, Voc Ed

4:20 PM – 4:25 PM

Question & Answer

4:25 PM · 4:35 PM · Break* · Grand Canyon Foyer
**4:35 PM · 5:30 PM · AVLS: INTERACTIVE
Grand Saguaro North & South**
Moderators: Marlin Schul, MD, MBA, RVT, FAVLS & William Marston, MD
**5:30 PM · 6:30 PM · ABSTRACT POSTER SESSION
Grand Saguaro North & South**
Moderators: Joseph Raffetto, MD, FACS, FSVM & Mark Iafrafi, MD

Endovenous microwave ablation (EMWA). An early report of in-vitro optimization in the porcine liver model followed by clinical use in incompetent saphenous and perforating veins.

• Mark Whiteley, MS, FRCS(Gen)

The Effect of Body Mass Index on CEAP and VCSS Score using the AVLS PRO Venous Registry Ablation Module • Yung-Wei Chi, DO, FAHA, FSVM, FAVLS

Abstract Poster Session • Terri Morrison, RN, BS, Voc Ed

Diagnosed: Now What? • Andrea Brennan, OTR/L, CLT-LANA, WCC, CI-CS

Safety and Efficiency of Endothermal ablation of great saphenous veins of big diameter • Paul Pittaluga, MD

Oral Anticoagulant Use: Is There Consensus or Chaos? • Douglas Wooster, MD, FACS, FRCSC, RVT

Compression, Compression, Compression • Terri Morrison, RN, BS, Voc Ed

5 year follow-up of venous leg ulcers comparing recurrence rate when the etiology of venous hypertension was effectively treated • Alejandro González Ochoa, MD

Relationship Between Strahler Ordering and Fractal Dimension of the Drainage Patterns of Human Extremity Varicosities and Their Response to Treatment • Ashish Thakur

Venous bifurcations: fractal geometric quantitative analysis by ultrasonography • Ashish Thakur

Fractal Analysis Reveals Diffusion Limited Formation of Human Extremity Superficial Varicosities • Ashish Thakur, MD

Novel octyl cyanoacrylate adhesive closure for perforators and superficial tributaries with varicose veins • Naoki Sakakibara, MD, PhD

Simulator for Flebectomy Training • Luis Nakano

Initial experience of operative treatment of patients with combined left renal vein compression, left ovarian vein and pelvic vein incompetence • Andrew Seiwert, MD, FACS

Can a differential diagnosis of lipoedema be made using high-resolution ultrasonography? • Tobias Hirsch, MD

Treatment of tributaries of the saphenous trunks: delayed or concomitant treatment? sclerotherapy or phlebectomy? Recommendations and review of the literature. • Matthieu Josnin, MD

Phlebology, standardization of its teaching on the European level • Matthieu Josnin, MD

How to effectively manage operational planning in an Interventional Phlebology Center, which performs all thermal ablations • Nicolas Neaume

Description of a new technique for the treatment of recurrent varicose veins and incompetent perforator veins by direct puncture using Venaseal glue • Nicolas Neaume, MD

Prevalence of lipedema in women in Honduras • Marco Moreno

Five Year Experience of Comprehensive Ultrasound-guided foam sclerotherapy in varicose veins treatment • Boris Bergus, MD, RVS

Superior Clinical, Quality of Life, Functional, and Health Economic Outcomes with Pneumatic Compression Therapy for Lymphedema • Sapan Desai, MD, PhD

Venclose versus ClosureFast: Comparative analysis of efficacy, short-term outcomes, and procedure time • Michael Shao, MD

Lymphedema: Clinical Diagnosis and patient evaluation • Emily Iker, MD

Lipedema: From Diagnosis to Management • Emily Iker, MD

Innovations in Compression Therapy • Angelo Karunaratne, PhD

Endovenous Radial Laser Therapy – Are There Limitations? • Thomas Weiler, MD

Clinical Outcomes of The Treatment of Portal Vein System Thrombosis via the Transjugular Intrahepatic Route • Chong Li, MD

Sclerosing Foam and Honey Wound Dressing for the Treatment of Venous Leg Ulcers: Our Experience • *Edoardo Cervi, MD*

Varicose Veins and Thyroid Pathology: Often Present Never Seen • *Paolo Casoni, MD*

Lipedema Reduction Surgery: Anatomy and Technique • *Jaime Schwartz, MD*

Venous Thromboembolism in Athletes • *Scott Darling, DO, RVT, RPVI*

Cyanoacrylate Treatment of Recurrent Varicose Veins: Challenges and solutions
• *Alexander Matz, MD, FRCSC, FACS*

Practice of French Vascular Surgeons for the Treatment of Venous insufficiency in 2017: Results of a Representative Survey • *Paul Pittaluga, MD*

The Survey of Venous Aneurysm : Japanese Vein Study XX by Japanese Society of Phlebology
• *Makoto Ma, MD, PhD*

Leaky Vessels in the Thighs of Women With Lipedema • *Marisol Allen*

6:30 PM · 7:30 PM ·
RAISE YOUR GLASS FOUNDATION TOAST* (TICKETED)
Sunset Lawn · Hosted by MD Connect

7:00 PM · 9:00 PM · OPENING RECEPTION* · Exhibit Hall

7:00 AM - 8:00 AM - Continental Breakfast* - Sunset Lawn
7:00 AM - 8:00 AM - LymphaPress Satellite Symposium*
Grand Saguaro East
CONCURRENT SESSIONS: PRACTICAL
8:00 AM - 10:30 AM - Emerging Science: Oral Abstract Session
Venous Thrombosis, Venous Insufficiency Extremity & Pelvic,
and Interesting Venous Findings & Practices
Grand Saguaro North & South
Moderators: Alun Davies, MD & Julianne Stoughton, MD, FACS
8:00 AM - 8:09 AM

Pharmaco-mechanical prophylaxis for postoperative venous thromboembolism in extremely-high-risk patients: the results of the IPC SUPER study • Kiril Lobastov, MD, PhD

8:09 AM - 8:18 AM

The Changing Face of Vascular Procedural Volume From a Venous Perspective • Mark Iafrati, MD

8:18 AM - 8:27 AM

Natural History of Calf Vein Thrombosis • Kelsi Hirai, MD

8:27 AM - 8:36 AM

Iliac Vein Stenting is Safe in an Office-Based Lab (OBL) Setting • Levan Sulakvelidze

8:36 AM - 8:45 AM

 Early Experience Using a Novel Metallic Tip Crossing Catheter for Venous Obstruction
 • Robert Dunlea, MD, MS

8:45 AM - 8:54 AM

Association Between Clinical Anatomical Presentation and Venous Reflux Characteristics in Patients with Chronic Venous Insufficiency in Northwest China • Qian Yang, MD

8:54 AM - 9:03 AM

Iliac vein stenting - do we have a problem for the solution? Real world data from a German vein centre • Tobias Hirsch, MD

9:03 AM - 9:12 AM

Presentation patterns in women with pelvic venous insufficiency differ based on age of presentation • Peter Pappas, MD

9:12 AM - 9:21 AM

Imaging findings of Pelvic Venous Insufficiency in a Postural Orthostatic Tachycardia Syndrome Patient Population • Martha-Gracia Knutinen, MD, PhD

9:21 AM - 9:30 AM

Venous Disease and Total Mortality: The San Diego Population Study • Jonathan Unkart

9:30 AM - 9:39 AM

 Thromboprophylaxis for varicose vein surgery - A Brazilian national survey
 • Alcides José Ribeiro, MD, MSC

9:39 AM - 9:48 AM

Sclerotherapy of Gluteal Venous Malformations for the Treatment of Sciatic Neuropathy: A Case Series • Jordan Wells

9:48 AM - 9:57 AM

 Comparison of iontronic sensor to PicoPress in in-vitro interface pressure measurement
 • Yung-Wei Chi, DO, FAHA, FSVM, FAVLS

10:00 AM - 10:10 AM

AVF Abstract Award Presentation: A Pathologic Perforator May Predict the Presence of an Ipsilateral Central Venous Stenosis • Mikel Sadek, MD

10:10 AM - 10:20 AM

EVF Abstract Award Presentation: Compression Following Endothermal Ablation - A Randomized Controlled Trial • Roshan Bootun, BSc, MBBS, MRCS

10:20 AM - 10:30 AM

RSMVF Abstract Award Presentation

8:00 AM - 10:30 AM - Lymphedema Therapy Session:
Compression for Maintenance (Hands-On Session) - Grand Sonoran G
Moderator: Heather Hettrick, PT, PhD, CWS, CLT-LANA, CLWT, CORE
8:00 AM - 10:30 AM

Measuring, Donning & Matching Compression to the Patient

• Robyn Bjork, PT, CLWT, CWS, CLT-LANA & Suzie Ehmann, PT, DPT, CWS, CLT-LANA

**8:00 AM · 10:30 AM · Allied Health Session:
Complex Venous Management · Grand Sonoran F**

Moderator: Sarah Whitehead, ARNP

8:00 AM – 8:15 AM

Vascular Malformations · Catherine Burdge, APRN

8:15 AM – 8:45 AM

Pelvic Venous Disease · Sandra French, NP

8:45 AM – 9:15 AM

Lymphedema Management · Andrea Brennan, OTR/L, CLT-LANA, WCC, CI-CS

9:15 AM – 9:30 AM

Break

9:30 AM – 9:45 AM

SVT/DVT Management · Heidi Atkins, PA, RPhS

9:45 AM – 9:50 AM

Question & Answer · All Faculty

9:50 AM – 10:05 AM

DVT Research Update · Kristen Probeck, ANP-C

10:05 AM – 10:10 AM

Question & Answer · All Faculty

10:10 AM – 10:25 AM

Venous Ulcer Case Studies · Mary Farnham, ARNP

10:25 AM – 10:30 AM

Question & Answer · All Faculty

**8:00 AM · 10:30 AM · Advanced Venous Ultrasound
Grand Saguaro West**

Moderator: Donna Kelly, RVT, RPhS, RDMS

8:00 AM – 8:15 AM

Pelvic Venous Pathophysiology · Mark Meissner, MD

8:15 AM – 8:25 AM

Ultrasound for Pelvic Venous Disorders · Sara Skjonsberg, RVT, RPhS

8:25 AM – 8:40 AM

Chronic Iliacaval Obstruction · Marresa Houle, BS, RVT, RPhS, RDMS

8:40 AM – 8:55 AM

Ultrasound for the Post-Thrombotic Patient · Mariah Elliott, RVT, RPhS

8:55 AM – 9:10 AM

Perforators: Pathologic vs. Non-Pathologic · Jessica Farris, MHS, RVT, RPhS

9:10 AM – 9:45 AM

Live Scanning with Commentary: Post-Thrombotic · Mariah Elliott, RVT, RPhS

9:45 AM – 10:20 AM

Live Scanning with Commentary: Pelvic Venous · Donna Kelly, RVT, RPhS, RDMS

10:20 AM – 10:30 AM

Discussion · All Faculty

10:30 AM · 10:45 AM · Break* · Grand Canyon Foyer

**10:45 AM · 12:00 PM · AVLS Live & One Big Thing
Grand Saguaro North & South**

Moderators: Ellen Dillavou, MD & Steve Elias, MD, FACS, FAVLS

10:45 AM – 11:05 AM

Lymphedema or Lipedema: Plastic Surgeons Are Our Friends
· Peter Neligan, MB, FRCS, FRCS, FACS

11:05 AM – 12:00 PM

AVLS Live Patient Evaluation · Nick Morrison, MD, FACS, FAVLS, RPhS & Nicos Labropoulos, PhD

12:00 PM · 3:00 PM · Exhibit Hall Open
12:00 PM · 1:30 PM · Lunch · *Exhibit Hall*
12:15 PM · 1:15 PM · Medtronic Satellite Symposium*
Grand Saguaro East
1:30 PM · 2:30 PM · Ultrasound Specialty Section Meeting*
Grand Saguaro West
CONCURRENT SESSIONS: PRACTICAL
2:30 PM · 4:25 PM · Superficial Venous Disease & Treatment
Grand Saguaro North & South
Moderator: Neil Khilnani, MD, FSIR, FAVLS & Nicos Labropoulos, PhD
2:30 PM – 2:45 PM

 What You Should Know About Non-Saphenous Vein Reflux • *Nicos Labropoulos, PhD*
2:45 PM – 3:00 PM

 How Do I Decide When NOT to Treat a Refluxing GSV/SSV or ASV? • *Steve Elias, MD, FACS, FAVLS*
3:00 PM – 3:15 PM

 Treatment of Superficial Reflux in Patients with Deep Vein Disease • *Antonios Gasparis, MD*
3:15 PM – 3:30 PM

 Dealing with Complications in Interventions for Superficial Disease • *Tomasz Urbanek, MD, PhD*
3:30 PM – 3:45 PM

 Important Things to Consider in Patients with Swelling and Reflux • *Alun Davies, MD*
3:45 PM – 4:00 PM

 Is There Any Role of Compression in Patients with Superficial Vein Disease? • *Fedor Lurie, MD, PhD*
4:00 PM – 4:25 PM

 How Should These Patients Be Managed • *Neil Khilnani, MD, FSIR, FAVLS & Nicos Labropoulos, PhD*
2:30 PM · 4:25 PM · Pelvic & Women's Veins · *Grand Sonoran G*
Moderator: Kathleen Gibson, MD & Mark Meissner, MD
2:30 PM – 2:45 PM

 Debate: Primary Iliac Stenting v. Pelvic Venous Embolization for Venous Origin Pelvic Pain
 • *Mark Meissner, MD v. Peter Pappas, MD*
2:45 PM – 2:55 PM

 Nutcracker Syndrome - Do We Have This All Wrong? • *Manju Kalra, MD, MBBS*
2:55 PM – 3:05 PM

 Women, Hormones, and DVT & SVT • *Julianne Stoughton, MD, FACS*
3:05 PM – 3:15 PM

 Educational or Dangerous? Online Resources for Patients with PeVD – What is the Role of the Medical Professional? • *Kathleen Gibson, MD*
3:15 PM – 3:25 PM

 Imaging in PeVD • *Ronald Winokur, MD, FSIR, RPVI*
3:25 PM – 3:40 PM

 Debate: Pelvic-Derived Vulvar & Leg Varicose Veins – Treat From the Top or Treat From Below
 • *Kathleen Gibson, MD & Julianne Stoughton, MD, FACS*
3:40 PM – 3:50 PM

 Varicose Veins in Pregnancy • *Julianne Stoughton, MD, FACS*
3:50 PM – 4:00 PM

 Varicoceles – How They Are Similar & How They Differ From Pelvic Reflux in Women
 • *Ronald Winokur, MD, FSIR, RPVI*
4:00 PM – 4:10 PM

 Comparative Effectiveness: Coils v. Sclerotherapy v. Sclerotherapy & Coils for PeVD
 • *Gloria Salazar, MD*
4:10 PM – 4:25 PM

 Wrap-Up and Question & Answer • *All Faculty*

2:30 PM - 4:25 PM - Vascular Medicine - Grand Sonoran F

Moderator: Yung-Wei Chi, DO, FAHA, FSVM, FAVLS & Eri Fukaya, MD, PhD

2:30 PM - 2:50 PM

Diagnosis & Management of Venous Ulcer with Concomitant PAD - What NOT to Do
• Joseph Raffetto, MD, FACS, FSVM

2:50 PM - 3:10 PM

Which DOACs Should I Use Based on Clinical Scenarios • Eri Fukaya, MD, PhD

3:10 PM - 3:30 PM

What Type of Leg Edema is This? Lipedema, Lymphedema, or Others?
• Steven Dean, DO, FACP, RPVI

3:30 PM - 3:50 PM

My Patient Has Painful Superficial Thrombophlebitis - Should I Leave It Alone?
• Yung-Wei Chi, DO, FAHA, FSVM, FAVLS

3:50 PM - 4:10 PM

Permanent IVC Filter: What Do I Do? Take It Out, Anticoagulate, or None of the Above?
• Marc Passman, MD

4:10 PM - 4:25 PM

Question & Answer • All Faculty

2:30 PM - 4:25 PM - Society for Vascular Ultrasound (SVU) Symposium - Grand Sonoran E

Moderator: Paula Heggerick, RVT, RPhS, FSVU

2:30 PM - 2:35 PM

Welcome • Paula Heggerick, RVT, RPhS, FSVU

2:35 PM - 2:45 PM

Grand Challenge to Stop Work-Related Musculoskeletal Disorders in Ultrasound
• James Wilkenson, Executive Director, SVU

2:45 PM - 3:05 PM

Advanced Practice- What is it and Why would I be interested? • Gail Size, BS, RVT, RVS, RPhS, FSVU

3:05 PM - 3:25 PM

Incidental Findings When Performing Ultrasound Exams • Karen Garby, MD, RPhS

3:25 PM - 3:45 PM

Pitfalls When Applying for Vascular Lab Accreditation • Marge Hutchinson, BS, RVT, RDCS, RPhS

3:45 PM - 4:05 PM

Is it Arterial or Venous- if Arterial, What Next? • Paula Heggerick, RVT, RPhS, FSVU

4:05 PM - 4:30 PM

Arterial Intervention in the Presence of Small Vessel Disease and Arterial Ulcers
• David Lopresti, MD

4:30 PM - 4:45 PM

Questions and Answers

4:25 PM - 4:35 PM - Break* - Grand Canyon Foyer

**4:35 PM - 5:30 PM - AVLS: INTERACTIVE
Grand Saguario North & South**

Moderators: Antonios Gasparis, MD & Peter Pappas, MD,
Margaret Mann, MD, FAAD, FAVLS, & Stephen Black, MD, FRCS(Ed), FEBVS

**5:30 PM - 6:30 PM - AVLS Business Meeting
Grand Saguario North & South**

**6:30 PM - 7:30 PM - New Horizon Reception (New Members & Donors)
Sunset Lawn - Hosted by medi USA**

6:00 AM · 8:00 AM · FVLD Fun Run & Walk* (Ticketed)
Sunset Lawn · Sponsored by BTG

7:00 AM · 8:00 AM · Center for Vein Restoration Satellite Symposium*
Grand Saguaro East

7:00 AM · 8:00 AM · Continental Breakfast* · Sunset Lawn

CONCURRENT SESSIONS: PRACTICAL

8:00 AM · 10:30 AM · Iliocaval Interventions & PTS and Chronic Venous Occlusive Disease · Grand Saguaro North & South

Moderator: Mark Garcia, MD & Antonios Gasparis, MD

8:00 AM – 8:05 AM

Welcome & Introduction • *Antonios Gasparis, MD*

8:05 AM – 8:15 AM

Dedicated Venous Stents: Which One to Use When? • *William Marston, MD*

8:15 AM – 8:25 AM

IVC Revascularization: Acute & Chronic - Technical Pearls • *Kush Desai, MD*

8:25 AM – 8:35 AM

Optimizing Stent Patency: Before, During, and After Placement • *Antonios Gasparis, MD*

8:35 AM – 8:45 AM

Difficult IVC Filter Removal - Technical Pearls • *Kush Desai, MD*

8:45 AM – 8:55 AM

Potential Complications of Deep Venous Treatments & How to Avoid Them
 • *Mark Garcia, MD, FSIR, FACR*

8:55 AM – 9:10 AM

Panel Discussion • *All Faculty*

9:10 AM · 9:20 AM

BREAK

9:20 AM – 9:25 AM

Welcome & Introduction • *Mark Garcia, MD, FSIR, FACR*

9:25 AM – 9:35 AM

Patient Selection: Who Benefits from Treatment of Chronic Disease?
 • *Mark Garcia, MD, FSIR, FACR*

9:35 AM – 9:45 AM

Chronic Infrainguinal Deep Disease - Femoral/Popliteal • *Antonios Gasparis, MD*

9:45 AM – 9:55 AM

Chronic Suprainguinal Deep Disease - Iliac/IVC • *Stephen Black, MD, FRCS(Ed), FEBVS*

9:55 AM – 10:05 AM

C5/C6 Disease: Treat Reflux or Obstruction First? • *William Marston, MD*

10:05 AM – 10:15 AM

Post-Intervention Anticoagulation: Acute & Chronic Disease • *Alun Davies, MD*

10:15 AM – 10:30 AM

Panel Discussion • *All Faculty*

8:00 AM · 10:30 AM · Lymphedema & Lipedema Symposium
Grand Sonoran G

Moderator: Steven Dean, DO, FACP, RPVI

8:00 AM – 8:15 AM

"Myth Busters" - Lymphedema Edition • *Stanley Rockson, MD*

8:15 AM – 8:30 AM

Cutaneous Manifestations of Phlebo-Lymphedema - Lumper v. Splitter Approach
 • *Steven Dean, DO, FACP, RPVI*

8:30 AM – 8:40 AM

Recurrent Cellulitis in Lymphedema: What to Do? • *Mark Melin, MD*

8:40 AM – 8:55 AM

Lymphoscintigraphy & ICG Interpretation: A Primer • *Stanley Rockson, MD*

8:55 AM – 9:15 AM

Is My Patient a Candidate for Lymphatic Surgery? If So, Which One?

• Peter Neligan, MB, FRCS, FRCSC, FACS

9:15 AM – 9:35 AM

Lipedema History & Physical Exam: How I Do It [live patient examination] • Karen Herbst, MD, PhD

9:35 AM – 9:50 AM

Lipedema, Lymphedema, and Chronic Venous Disease – Causal, Coincidental [or both]

Association • Mark Melin, MD

9:50 AM – 10:05 AM

Is My Patient a Candidate for Liposuction? If So, Will Insurance Remunerate?

• Peter Neligan, MB, FRCS, FRCSC, FACS

10:05 AM – 10:30 AM

Practical Case Reports • Steven Dean, DO, FACP, RPVI, Paula Donahue, DPT, CLT-LANA, MBA, Karen Herbst, MD, PhD, Mark Melin, MD, Peter Neligan, MB, FRCS, FRCSC, FACS, Stanley Rockson, MD, Thomas Wright, MD

8:00 AM · 10:30 AM · Multidisciplinary Management of Chronic Pelvic Pain – What the Vein Specialist Needs to Know · Grand Sonoran F

Moderators: Stephen Daugherty, MD, FACS, FAVLS, RVT, RPhS

8:00 AM – 8:15 AM

The Evaluation of Chronic Pelvic Pain - The Gynecologic Perspective • TBD

8:15 AM – 8:45 AM

The Neuropsychological Aspects of Chronic Pelvic Pain - The IPPS Perspective

• TBD

8:45 AM – 9:00 AM

The Management of Chronic Pelvic Pain - The Gynecologic Perspective • TBD

9:00 AM – 9:15 AM

The Management of Chronic Pelvic Pain - Views of a Pain Specialist • Rajni Jutla, MD

9:15 AM – 9:30 AM

Panel Discussion & Break • All Faculty

9:30 AM – 9:40 AM

Multiple Dimensions of Abdominal & Pelvic Disorders • TBD

9:40 AM – 9:50 AM

SVP Classification System • Mark Meissner, MD

9:50 AM – 10:00 AM

Outcome Instruments for PeVD • Stephen Daugherty, MD, FACS, FAVLS, RVT, RPhS

10:00 AM – 10:10 AM

Mimics of PeVD – Other Sources of Pelvic Pain That the Vein MD Should Be Aware Of

• TBD

10:10 AM – 10:20 AM

Role of Imaging in the Evaluation of Chronic Pelvic Pain • Gloria Salazar, MD

10:20 AM – 10:30 AM

Wrap-Up and Question & Answer • All Faculty

10:30 AM · 10:45 AM · Break* · Grand Canyon Foyer

**10:45 AM · 12:00 · PM · AVLS Live & One Big Thing
Grand Saguaro North & South**

Moderators: Ellen Dillavou, MD & Steve Elias, MD, FACS, FAVLS

10:45 AM – 10:55 AM

Grey Zones in Venous Disease – What Are They & Can We Make Them Black or White? – Superficial • Alun Davies, MD

10:55 AM – 11:05 PM

Grey Zones in Venous Disease - What Are They & Can We Make Them Black or White? - Deep

• William Marston, MD

11:05 AM – 12:00 PM

AVLS Live Patient Evaluation • Patricia Thorpe, MD, FSIR, Linda Antonucci, RPhS, RVT, RDMS, Donna Kelly, RVT, RPhS, RDMS

12:00 PM · 3:00 PM · Exhibit Hall Open*
12:00 PM · 1:30 PM · Lunch* · Exhibit Hall
12:15 PM · 2:30 PM · US Compression Alliance Satellite Symposium*
Grand Saguaro East
1:30 PM · 2:30 PM · Lymphedema Specialty Section Meeting*
Grand Saguaro West · Sponsored by LE&RN
CONCURRENT SESSIONS: PRACTICAL
2:30 PM · 4:25 PM · Emerging Science: Oral Abstract Session
Registry, Reviews, Lymphatic and Lipidema, Innovations,
Compression, Education and Training
Grand Saguaro North & South
Moderators: Joseph Raffetto, MD, FACS, John Blebea, MD, MBA, FACS & Lisa Amatangelo, MD
2:30 PM - 2:39 PM

 The Anterior Accessory Great Saphenous Vein presents with significant morbidity and is not a red headed step child • *Marlin Schul, MD, MBA, RVT, FAVLS*
2:39 PM - 2:48 PM

 Reflux Patterns in Chronic Venous Disease - A Systematic Review • *Matthew Tan, MBBS, BSc (Hons)*
2:48 PM - 2:57 PM

 High intensity focused ultrasound (HIFU) in the treatment of incompetent superficial veins and perforating veins - a report of our early experience • *Mark Whiteley, MS, FRCS(Gen)*
2:57 PM - 3:06 PM

 The global prevalence of Chronic Venous Disease (CVD) • *Sara Onida, MD, BSc, MBBS, MRCS*
3:06 PM - 3:15 PM

 Compression Following Sclerotherapy - A Systematic Review • *Matthew Tan, MBBS, BSc (Hons)*
3:15 PM - 3:24 PM

 A Bibliometric Survey of Journals Relevant to Venous Disease Management
 • *Douglas Wooster, MD, FACS, FRCSC, RVT*
3:24 PM - 3:33 PM

 The Role of Visualization of The Lymphatic System in the Diagnostics and Treatment of the Lower Limb Lymphedema • *Tatiana Apkhanova, PhD*
3:33 PM - 3:42 PM

 Effect of Weight Loss on Body Composition, Metabolic Function and Immune Expression in Women with Lipedema • *Thomas Wright, MD*
3:42 PM - 3:51 PM

 Women with stage 3 lipedema experience abnormal venoarterial reflex and neuropathy
 • *Kiana Burnett*
3:51 PM - 4:00 PM

 Economic advantages of an advanced pneumatic compression device in a population of high-risk lymphedema patients with ≥ 2 infections • *Andrea Stone*
4:00 PM - 4:09 PM

 Ultrasound Guided Foam Sclerotherapy: Are Advanced Practice Providers as Safe as Physicians?
 • *Robert Worthington-Kirsch, MD, FSIR, FCIRSE, FAVLS, RVT, RPVI*
4:10 PM - 4:25 PM

Poster Abstract Awardee Presentations

2:30 PM · 4:25 PM · Lymphedema Therapy Session:
And the Evidence Says....? · Grand Sonoran G
Moderator: Heather Hettrick, PT, PhD, CWS, CLT-LANA, CLWT, CORE
2:30 PM - 2:45 PM

 Current State of the Evidence for MLD • *Robyn Bjork, PT, CLWT, CWS, CLT-LANA*
2:45 PM - 3:00 PM

 Limb at Risk, Exercise & Air Travel • *Andrea Brennan, OTR/L, CLT-LANA, WCC, CI-CS*
3:00 PM - 3:15 PM

 Imaging & Surgical Interventions • *Peter Neligan, MB, FRCS, FRCSC, FACS*

3:15 PM – 3:30 PM

Compression & Pumps • *Mark Melin, MD*

3:30 PM – 3:45 PM

Biophysical Agents & Cooling • *Paula Donahue, PT, DPT, MBA, CLT-LANA*

3:45 PM – 4:00 PM

Yoga, Vibration, Skin Brushing • *Andrea Brennan, OTR/L, CLT-LANA, WCC, CI-CS*

4:00 PM – 4:15 PM

Lipedema Update • *Karen Herbst, MD, PhD*

4:15 PM – 4:25 PM

Question & Answer • *All Faculty*

**2:30 PM – 4:25 PM • Allied Health Session:
Protect & Promote Your Business • Grand Sonoran F**

Moderator: Sarah Whitehead, ARNP

2:30 PM – 2:55 PM

OSHA Policy • *Michelle McEvoy, MSN/Ed, RN-BC*

2:55 PM – 3:00 PM

Question & Answer • *All Faculty*

3:00 PM – 3:10 PM

Marketing & Branding Clinics • *Terri Harper, MSN, APRN, FNP-C*

3:10 PM – 3:15 PM

Question & Answer • *All Faculty*

3:15 PM – 3:25 PM

Getting RPhS Credentials • *Heidi Atkins, PA, RPhS*

3:25 PM – 3:30 PM

Question & Answer • *All Faculty*

3:30 PM – 4:20 PM

Anatomy of Medical Malpractice Claims: How to Avoid Them & How to Survive Them
• *Rhianna Fronapfel, JD*

4:20 PM – 4:25 PM

Question & Answer • *All Faculty*

**2:30 PM – 4:25 PM • A Practical Guide to Vascular Lab Management
Grand Sonoran E**

Moderator: Diana Neuhardt, RVT, RPhS, FSVU

2:30 PM – 2:45 PM

Case Study Examples of Why QI Is Important • *Diana Neuhardt, RVT, RPhS, FSVU*

2:45 PM – 2:55 PM

Procedure Guidance – Will New Techniques Change What We Already Know?
• *Chrissy Lanpher, RVT, RDMS, RPhS, BSRT(R)*

2:55 PM – 3:10 PM

New Sterilization Techniques for the Vascular Sonographer • *Linda Antonucci, RPhS, RVT, RDMS*

3:10 PM – 3:25 PM

RPhS & Other Credentialing • *Jessica Farris, MHS, RVT, RPhS*

3:25 PM – 3:40 PM

Vein Center Accreditation • *Paula Heggerick, BS, RVT, RPhS*

3:40 PM – 3:55 PM

Interesting Case Studies • *Sarah Brisson, BS, RVT*

3:55 PM – 4:00 PM

Closing Remarks • *Sara Skjonsberg, RVT, RPhS*

4:00 PM – 4:25 PM

The Impossible Game – Venous Edition • *Diana Neuhardt, RVT, RPhS, FSVU*

4:25 PM · 4:35 PM · Break* · *Grand Canyon Foyer*

4:35 PM · 5:30 PM · AVLS: INTERACTIVE
Grand Saguaro North & South

Moderators: Steve Elias, MD, FACS, FAVLS & Antonios Gasparis, MD & Peter Pappas, MD
Chris Pittman, MD, FAVLS, & Kathleen Gibson, MD

5:30 PM · 6:00 PM · PRESIDENTIAL ADDRESS*
Grand Saguaro North & South

Moderator: Steve Elias, MD, FACS, FAVLS

6:30 PM · 7:30 PM · PRESIDENT'S RECEPTION* (INVITE ONLY)
Isla Del Sol · Hosted by Center for Vein Restoration

8:00 PM · 12:00 AM · BONNIE & CLYDE'S NIGHT OUT* (TICKETED)
Sunset Lawn/The Vehicle Vault · Hosted by SIGVARIS GROUP

7:00 AM · 8:00 AM · Continental Breakfast* · Sunset Lawn

8:00 AM · 12:00 PM · Field of Dreams: Successfully Incorporating Lymphedema Into Your Clinical Practice · Grand Sonoran E

Moderator: Heather Hettrick, PT, PhD, CWS, CLT-LANA, CLWT, CORE

8:00 AM – 9:00 AM

Creating a Collaborative Practice Model: Diagnosis, Assessment, Imaging & Referrals

• Christina Hankins, PT, CLT, CWS, Justin Smith, MD

9:00 AM – 10:00 AM

Managing & Treatment: How to Make it Work/Flow • Christina Hankins, PT, CLT, CWS, Kenneth Harper, MD, FACS, RPhS, Brandy McKeown, OTR/L, CLT-LANA, Justin Smith, MD

10:00 AM – 11:00 AM

Billing, Coding, and Reimbursement

• Kenneth Harper, MD, FACS, RPhS, Brandy McKeown, OTR/L, CLT-LANA

11:00 AM – 12:00 PM

Making a Successful Practice: Examples & Clases • Kenneth Harper, MD, FACS, RPhS, Christina Hankins, PT, CLT, CWS, Brandy McKeown, OTR/L, CLT-LANA, & Justin Smith, MD

8:00 AM · 12:00 PM · Fundamentals of Superficial Venous Disease & Treatment · Grand Sonoran C/D

Moderator: Vineet Mishra, MD, FAAD, FAVLS

8:00 AM – 8:10 AM

Welcome & Introduction • Vineet Mishra, MD, FAAD, FAVLS

8:10 AM – 8:25 AM

Anatomy • Daniel Friedmann, MD, FAAD

8:25 AM – 8:40 AM

Reflux • Joseph Raffetto, MD, FACS, FSVM

8:40 AM – 9:00 AM

Diagnosis of Venous Reflux & Thrombosis • Sara Skjonsberg, RVT, RPhS

9:00 AM – 9:20 AM

Management of Deep & Superficial Vein Thrombosis • Andrea Obi, MD

9:20 AM – 9:35 AM

Lymphedema & Swollen Leg • Andrea Brennan, OTR/L, CLT-LANA, WCC, CI-CS

9:35 AM – 9:50 AM

Phlebectomy • Mark Forrestal, MD, FAVLS

9:50 AM – 10:00 AM

Question & Answer • All Faculty

10:00 AM · 10:10 AM

Break

10:10 AM – 10:40 AM

Sclerotherapy • Margaret Mann, MD, FAVLS

10:40 AM – 10:50 AM

Conservative Therapy: Compression & Pharmacology • Vineet Mishra, MD, FAAD, FAVLS

10:50 AM – 11:10 AM

Thermal Ablation • Mark Forrestal, MD, FAVLS

11:10 – 11:25 AM

Non-Thermal Ablation • Kathleen Gibson, MD

11:25 AM – 11:35 AM

Cutaneous Laser Principles & Surgery • Vineet Mishra, MD, FAAD, FAVLS

11:35 AM – 12:00 PM

Question & Answer • All Faculty

8:00 AM · 12:00 PM · Fundamentals of Deep Venous Disease & Treatment · Grand Sonoran A/B

Moderator: Julianne Stoughton, MD, FACS

8:00 AM – 8:05 AM

Welcome & Introduction • Julianne Stoughton, MD, FACS

8:05 AM – 8:35 AMAnatomy, Physiology & Pathophysiology • *Julianne Stoughton, MD, FACS***8:35 AM – 9:05 AM**Imaging (Ultrasound, CTV, MRV, Venography, IVUS, Etc.) • *Gloria Salazar, MD***9:05 AM – 9:35 AM**DVT – Acute & Chronic Thrombosis • *Mark Garcia, MD, FSIR, FACR***9:35 AM – 10:05 AM**Deep Venous Reflux – Management & Treatment Options • *John Blebea, MD, MBA, FACS***10:05 AM – 10:15 AM**

BREAK

10:15 AM – 10:45 AMIVC Filters – Indications, Outcomes, Timing & Retrieval • *Carl Black, MD***10:45 AM – 11:15 AM**Pelvic Venous Disorders – Obstruction & Reflux, Diagnosis, Management & Outcomes
• *Kathleen Gibson, MD***11:15 AM – 12:00 PM**Wrap-Up: How Do the Deep & Superficial Veins Affect Each Other • *All Faculty***8:00 AM · 12:00 PM · RPhS Mock Exam · Grand Sonoran F****Moderator: Linda Antonucci, RPhS, RVT, RDCS****8:00 AM – 8:15 AM**Welcome and Opening Remarks • *Linda Antonucci, RPhS, RVT, RDCS***8:15 AM – 8:45 AM**LEV Anatomy/H&P/CEAP • *Linda Antonucci, RPhS, RVT, RDCS***8:45 AM – 9:15 AM**Thrombosis & Hemodynamics/Physics & Principles/Indirect Testing
• *Maressa Houle, RPhS, RVT, RDMS, BS***9:15 AM – 9:30 AM**Case Study & Discussion • *Maressa Houle, RPhS, RVT, RDMS, BS***9:30 AM – 10:00 AM**Pelvic Anatomy & Pathophysiology/Performance of LEV/Treatment Options
• *Sara Skjonsberg, BS, RVT, RPhS***10:00 AM – 10:15 AM**Case Study & Discussion • *Sara Skjonsberg, BS, RVT, RPhS***10:15 AM – 10:30 AM**Tips on How to Take an Exam • *Linda Antonucci, RPhS, RVT, RDCS***10:30 AM – 11:30 AM**

Mock Examination

11:30 AM – 12:00 PM

Question and Answer

**8:00 AM · 12:00 PM · Practice Management Seminar
Grand Sonoran G****Moderator: Nick Morrison, MD, FACS, FAVLS, RPhS****8:00 AM – 8:20 AM**General Office Risk / Compliance • *Michelle McEvoy, MSN/Ed, RN-BC***8:20 AM – 8:40 AM**Team Building in a Vein Practice • *Sanjiv Lakhanpal, MD***8:40 AM – 9:00 AM**Using Your Practice Management Data in the Best Way Possible • *Neil Collier***9:00 AM – 9:20 AM**Service Recovery: Surviving an Angry Patient • *Clarence Fisher***9:20 AM – 9:40 AM**Service Recovery: Surviving an Angry Patient • *Mary Shores***9:40 AM – 10:00 AM**

Coffee Break

10:00 AM – 10:20 AMHow Can the AVLS Help Your Practice? • *Dean Bender***10:20 AM – 10:40 AM**A Physician Liaison - Direct Referral Office Marketing • *Jessica Homicki & Adam Bassett*

10:40 AM - 11:00 AM

Branding a Vein Practice- Digital Marketing and Website Development
• Kelly Lorenzen & Terri Morrison, RN, BS, Voc ED

11:00 AM - 11:20 AM

ABC's of SEO's and On-line Reviews • Rob Huisingh

11:20 AM - 11:40 AM

AVLS Registry- Myths and Practice Barriers • Marlin Schul, MD, MBA, RVT, FAVLS

11:40 AM - 12:00 PM

Question and Answer

**8:00 AM - 11:00 AM - Connecting the Continent,
Welcoming the World - Grand Sonoran J/K**

Moderators: Sergio Giancesini, MD, PhD, FACP, Yung-Wei Chi, DO, FAHA, FSVS, FAVLS,
Pauline Raymond-Martimbeau, MD, FAVLS, Marlin Schul, MD, MBA, RVT, FAVLS, Javier Serralde, MD

8:00 AM - 8:05 AM

Welcome • Sergio Giancesini, MD, PhD, FACS

8:05 AM - 8:15 AM

Reversible Vein Valve Damage: Classification & Methods • Johann Ragg, MD

8:15 AM - 8:25 AM

Timing in Post-Thrombotic Syndrome Management • Lorena Grillo, MD

8:25 AM - 8:35 AM

Selective Embolization in Pelvic Congestion Syndrome • Ignacio Escotto, MD

8:35 AM - 8:45 AM

The Role of Autoimmune Conditions in Non-Healing Ulcers: A Case Study and Brief Review
• Janna Bentley, MD, RVT

8:45 AM - 8:55 AM

Endovenous Treatment of Varicose Veins by Radiofrequency, Laser and Sclerotherapy in Patients
Undergoing Anticoagulant and Antiaggregant Treatments • Matthieu Josnin, MD

8:55 AM - 9:05 AM

Percutaneous Ultrasound-Guided Sclerotherapy with Polidocanol Microfoam for Lymphatic
Malformation • Takashi Yamaki, MD

9:05 AM - 9:30 AM

Discussion

9:30 AM - 10:00 AM

Coffee Break & Round Table Discussion

10:00 AM - 10:15 AM

Narrowed Band Intense Pulsed Light As An Alternative for Port-Wine Stains Treatment
• Anelise Rodrigues

10:15 AM - 10:25 AM

High Volume - Low Concentration Foam Sclerotherapy for Symptomatic Varicose Veins in
Resource Restricted Settings - Safety, Efficacy & Histology Analysis • Chavan Dhanraj, MD

10:25 AM - 10:35 AM

Venous Leg Ulcers: The Importance of Ulcer Location for Healing and Recurrence
• Alejandro González Ochoa, MD

10:35 AM - 10:45 AM

Pilot Project for the Use of Shear Wave Elastography in Patients with Chronic Venous
Insufficiency • Felipe Mamprim, MD

10:45 AM - 11:00 AM

Discussion

ABSTRACT POSTERS

**Abstract posters will be open for review at anytime
in the Grand Saguario Foyer.**

TARGET AUDIENCE

The Annual Congress sets the standard in vein care education for practitioners who diagnose, treat and manage venous and lymphatic disease. The primary target audience of the 33rd Annual Congress includes physicians, physician assistants, advanced registered nurse practitioners, ultrasound technologists, practice administrators, lymphedema therapists, and all other healthcare professionals currently or planning to care for patients with venous and lymphatic disease. Specialists in phlebology, cardiology, dermatology, dermatologic surgery, family practice, general surgery, internal medicine, interventional cardiology, interventional radiology, obstetrics and gynecology, vascular medicine, and vascular surgery are invited to enhance their knowledge and skills specific to the evaluation and treatment of venous and lymphatic disorders.

OBJECTIVES

At the conclusion of this activity, participants will be able to:

- **Use selective testing modalities to diagnose chronic and acute venous disease and insufficiency of the abdomen, pelvis, and extremities or other venous pathology including deep vein thrombosis and vascular malformations.**
- **Describe and demonstrate the various techniques for treating venous disease.**
- **Distinguish indications and contraindications for different treatment modalities.**
- **Measure and compare the outcome of the various techniques in treating venous disease.**
- **Describe the evaluation and modern management of lymphedema.**

EVALUATIONS AND CERTIFICATES

At the conclusion of Congress, please complete an evaluation to document your attendance, provide the American Vein & Lymphatic Society (AVLS) with crucial outcome measurement data, and receive your certificate for the Annual Congress. This will permit the American Vein & Lymphatic Society (AVLS) to continue to enhance your personalized professional development and plan the next Annual Congress. You will be able to access your certificate after the evaluation.

ACCREDITATION AND CREDIT STATEMENTS

AMERICAN MEDICAL ASSOCIATION (AMA)

The American Vein & Lymphatic Society is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

The American Vein & Lymphatic Society designates this live activity for 23.75 *AMA PRA Category 1 Credits™*. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

AMERICAN OSTEOPATHIC ASSOCIATION (AOA)

The program has been approved for a maximum of 23.75 credits of AOA Category 2-A.

SOCIETY FOR VASCULAR ULTRASOUND (SVU)

This program meets the criteria for up to 23.75 SVU-CMEs, which are accepted by the American Registry of Diagnostic Medical Sonographers (ARDMS), the American Registry of Radiologic Technologists (ARRT) for Category A credit, Cardiovascular Credentialing International (CCI), and the Intersocietal Accreditation Commission (IAC) for laboratory accreditation.

NURSING CREDITS

The American Vein & Lymphatic Society is an approved Continuing Education Provider by the California Board of Registered Nursing – Provider Number CEP 15857.

The American Vein & Lymphatic Society designates this live activity for a maximum of 23.75 contact hours. Nurses should claim only the contact hours commensurate with the extent of their participation in the activity.

In order to claim credit for any given session nurses must participate in the entire session; credit for partial participation cannot be issued. Note that select sessions are approved for nursing contact hours. Check the program schedule to confirm sessions of interest are approved.

OTHER

Cardiovascular Credentialing International (CCI) accepts *AMA PRA Category 1 Credits™* toward credential renewal for Registered Phlebology Sonographers (RPhS) and Registered Vascular Specialists (RVS).

For the purpose of recertification, the American Nurses Credentialing Center (ANCC) accepts *AMA PRA Category 1 Credits™* from organizations accredited by the ACCME. Similarly, the American Academy of Nurse Practitioners (AANP) accepts *AMA PRA Category 1 Credits™* from organizations accredited by the ACCME.

The American Academy of Physician Assistants (AAPA) accepts certificates of participation for educational activities certified for *AMA PRA Category 1 Credits™* from organizations accredited by the ACCME. Physician assistants can request a certificate of participation indicating that the activity was certified for 23.75 *AMA PRA Category 1 Credits™*.

DISCLOSURE

Note that relevant faculty financial relationships and commercial support of the ACP's 33rd Annual Congress are disclosed within the conference mobile app.



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