



# VENOUS 2021

AMERICAN VENOUS FORUM



VIRTUAL MEETING  
MARCH 17-20, 2021



Educate



Collaborate



Innovate



Celebrate

# ATTENDEE GUIDE

**ON DEMAND**

FULL AGENDA AND CME AVAILABLE FOR 60 DAYS

LEARN MORE

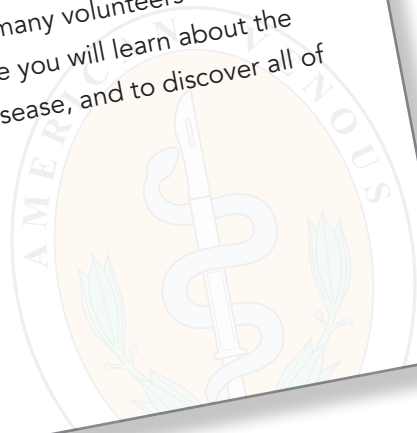
# Welcome

Dear AVF Members and Friends,  
Without a doubt, this past year has one of the most difficult in memory. Despite all the hardships, most of us have tried to have some reminders of normalcy. One of the normalcies will be an outstanding AVF Annual Meeting. Although most of us would prefer to be in warm San Antonio, virtual meetings are the 'norm' this year, and so our fantastic Program Committee, led by Chair Kathleen Ozsvath, has created for you the usual excellence typical of the AVF Annual Meeting. We welcome and thank our faculty, speakers, sister societies, sponsors, and exhibitors who have contributed in support of the AVF and our Foundation. Notwithstanding the difficult past year, the AVF has had a very successful '20-'21 thanks to the leadership of our Administration, Board of Directors, and the many volunteers who have served on our committees. We welcome you to our Annual Meeting, where you will learn about the latest developments in research, science, and insights related to venous disease, and to discover all of what the AVF has to offer you.



Looking forward to seeing you 'onscreen',

**Harold J. Welch, MD, FACS**  
President, American Venous Forum



# Welcome Attendees

It is with great pleasure that the Program Committee welcomes you to the American Venous Forum 2021 Annual Meeting, VENOUS2021. This has been a very tumultuous year with a global pandemic causing changes in the way we normally conduct our lives. Despite challenges, the program committee worked on a first ever virtual AVF meeting.

We are excited to present cutting edge research, interesting programming, and virtual comradery. We will have the Presidents session, the Day of Science, the Villavicencio program, the Strandness Lecture keynoted by Professor Andrew W. Bradbury, Late Breaking Trials, the Sumner Session, the International Session as examples of the programming that the AVF annual meeting is known for. Our colleagues from EVF, SVS, SVM, AVLS are joining us again in joint sessions, discussing interesting and relevant topics.

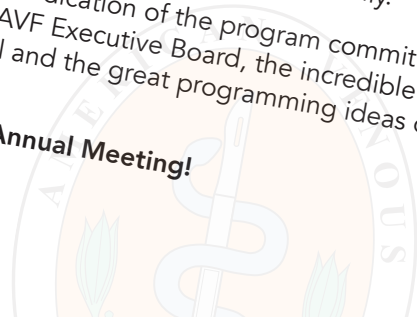
New this year will be the dedicated COVID session with research presented, as well as a keynote speaker, Dr. Geno Merli. Dr Merli is well known for his work and interest in thrombotic complications caused by COVID-19. Our panels will provide live, robust discussion-virtually. Posters will be found on the meeting website. Our industry partners will provide additional programming as well. We are most appreciative of their support. Don't miss the Gala where you will have the opportunity to relax with your AVF family.

There is no way we could have done this without the hard work and dedication of the program committee members, the support of the AVF President, Harold Welch and the AVF Executive Board, the incredible administrative team led by John Forbes, Laura Richards, Ashlynn Hill and the great programming ideas of Jeff Mendola. A heartfelt thank you to an AMAZING team!!!!!!



We cannot wait to present to you the 2021 AVF Annual Meeting!

**Kathleen Ozsvath, MD, FACS**  
Program Chair, 2021 AVF Annual Meeting





## **VENOUS2021 PROGRAM COMMITTEE**

**Chair:** Kathleen Ozsvath, MD

**Past Chair:** Patrick Muck, MD

**Chair Elect:** Makis Avgerinos, MD

**Members:** Steven Abramowitz, MD, Faisal Aziz, MD, Peggy Bush APRN, Rush Bush, MD, Kush Desai, MD, Steven Elias, MD, Anil Hingorani, MD, Arun Jayaraj, MD, Angela A. Kokkosis, MD, Raghu Kolluri MD RVT RPVI FSVM, M. Ashraf Mansour, MD, Elna Masuda, MD, Cassius Iyad Ochoa Chaar, MD, Mikel Sadek, MD, Julianne Stoughton, MD, Harold Welch, MD

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# SCHEDULE AT A GLANCE

All times are Eastern Daylight Time (UTC-4)		<b>WEDNESDAY, MARCH 17</b>	
9:30am - 9:55am	<b>LIVE NETWORKING:</b> Meet the AVF		
10:00am - 11:10am	<b>SCIENTIFIC SESSION 1:</b> COVID-19 and Venous Disease		
11:15am - 11:45am	<b>INDUSTRY SYMPOSIA A</b>	<b>DAY OF SCIENCE / SESSION 1:</b> Basic Science Abstracts	
11:50am - 11:55am	<b>SCIENTIFIC SESSION 2:</b> Quick Shots		
12:00pm - 12:25pm	<b>TOP ABSTRACTS &amp; LATE BREAKING TRIALS</b>		
12:30pm - 12:45pm		<b>DAY OF SCIENCE: / SESSION 2:</b> COVID-19 Lessons Learned from the Pandemic	
12:50pm - 1:45pm		<b>DAY OF SCIENCE / SESSION 3:</b> Latest Innovations in the Treatment of Venous Disease and VTE Research Priorities	
1:50pm - 2:20pm	<b>INDUSTRY SYMPOSIA B</b>	<b>DAY OF SCIENCE / SESSION 4:</b> Writing and Reviewing a Scientific Manuscript – JVS	
2:25pm - 2:35pm			
2:40pm - 3:35pm			
		<b>DAY OF SCIENCE / SESSION 5:</b> Clinical Trials Design–Results–Conclusion: DOS+RC	

		<b>THURSDAY, MARCH 18</b>	
9:30am - 9:55am	<b>LIVE NETWORKING:</b> 60-Second Exhibitors		
10:00am - 11:30am	<b>SUMNER SESSION:</b> The State of the AVF – The Future is Bright		
11:35am - 12:35pm	<b>SCIENTIFIC SESSION 3:</b> Deep Venous Disease I		
12:40pm - 1:10pm	<b>INDUSTRY SYMPOSIA C</b>		
1:15pm - 2:45pm	<b>INTERNATIONAL SESSION:</b> Sharing Excellence in Global Venous Science		
2:50pm - 3:20pm	<b>INDUSTRY SYMPOSIA D</b>		

		<b>FRIDAY, MARCH 19</b>	
9:30am - 9:55am	<b>LIVE NETWORKING:</b> VENOUS2021 Attendees		
10:00am - 11:00am	<b>SCIENTIFIC SESSION 4:</b> Deep Venous Disease II		
11:05am - 11:40am	<b>D. EUGENE STRANDNESS JR, MD:</b> Keynote Speaker		
11:45am - 12:15pm	<b>INDUSTRY SYMPOSIA E</b>		
12:20pm - 1:50pm	<b>PRESIDENT'S SESSION</b>		
1:55pm - 2:55pm	<b>AVF MEMBER BUSINESS MEETING</b>		
3:00pm - 3:30pm	<b>INDUSTRY SYMPOSIA F</b>		

		<b>SATURDAY, MARCH 20</b>	
9:30am - 9:55am	<b>LIVE NETWORKING:</b> Meet the Experts in the Exhibit Hall		
10:00am - 11:00am	<b>VILLIAVICENCIO SYMPOSIUM</b>		
11:05am - 11:50am	<b>SCIENTIFIC SESSION 5:</b> Superficial Venous Disease	<b>CONCURRENT SESSION:</b> EVF	
11:50am - 12:05pm			
12:10pm - 12:40pm	<b>INDUSTRY SYMPOSIA G</b>		
12:45pm - 1:30pm	<b>SCIENTIFIC SESSION 6:</b> Lymphedema & Contemporary Venous Care	<b>CONCURRENT SESSION:</b> SVM	
1:35pm - 1:45pm			
1:45pm - 1:50pm		<b>CONCURRENT SESSION:</b> SVS / VQI	
1:50pm - 2:20pm	<b>SCIENTIFIC SESSION 7:</b> VTE	<b>CONCURRENT SESSION:</b> AVLS	
2:20pm - 2:25pm			
2:25pm - 2:50pm			
2:50pm - 3:10pm			





## WEDNESDAY, MARCH 17TH

- 9:30am LIVE: Coffee Connections - Bring a cup of your favorite beverage, reunite with friends & colleagues and meet new ones.
- 10:00am COVID Session featuring Dr. Geno Merli
- 11:15am SIGVARIS Symposia
- 12:30pm Top Abstracts & Late-Breaking Trials
- 1:50pm Cook Medical Symposia

## THURSDAY, MARCH 18TH

- 9:30am LIVE: Meet the Exhibitors - A whirlwind tour of the exhibit hall featuring 1-minute introductions from each sponsor.
- 10:00am Sumner Session - State of the AVF
- 12:40pm Boston Scientific Symposia
- 1:15pm International Session
- 2:50pm BD Symposia

## FRIDAY, MARCH 19TH

- 9:30am LIVE: Coffee Connections - Bring a cup of your favorite beverage, reunite with friends & colleagues and meet new ones.
- 11:05am Strandness Keynote featuring Professor Andrew Bradbury
- 11:45am Medtronic Symposia
- 12:20pm President's Session
- 3:00pm Boston Scientific Symposia
- 7:00pm Remember the Alamo: Drinks-Dress-Drama (included with every VENOUS2021 registration)

## SATURDAY, MARCH 20TH

- 9:30am LIVE: Meet the Experts - Explore special presentations and demonstrations with sponsors in the exhibit hall.
- 11:50am European Venous Forum Session
- 12:10pm Inari Symposia
- 12:45pm SVM Session
- 1:35pm SVS/VQI Session
- 2:25pm AVLS Session



**Steven Abramowitz**, MedStar Washington Hospital Center/Georgetown University Hospital, Washington  
**Ahmad Alsheekh**, Total Vascular Care, Brooklyn, New York  
**Miguel Amore**, Military Hospital, Buenos Aires, Argentina  
**Diana Atashroo**, Stanford University, Redwood City, California  
**Robert Attaran**, Yale - New Haven Medical Center, Guilford, Connecticut  
**Christopher Audu**, Vascular Surgery/ University of Michigan, Ann Arbor, Michigan  
**Efthymios "Makis" Avgerinos**, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania  
**Faisal Aziz**, Penn State University, Hummelstown, Pennsylvania  
**Geoff Barnes**, University of Michigan, Ann Arbor, Michigan  
**Ugur Bengisun**, Ankara University, Ankara, Turkey  
**Patrick Beyer**, Naval Medical Center Portsmouth, Portsmouth, Virginia  
**Stephen Black**, Guy's and St Thomas' NHS Foundation Trust and King's College London, London, United Kingdom  
**John Blebea**, Central Michigan University, Saginaw, Michigan  
**Andrew Bradbury**, West Midland Vascular Ltd., Lapworth, United Kingdom  
**Anand Brahmandam**, Yale University School of Medicine, New Haven, Connecticut  
**Kellie Brown**, Medical College of Wisconsin, Milwaukee, Wisconsin  
**Ruth Bush**, University of Houston College of Medicine, Houston, Texas  
**Joseph Caprini**, University of Chicago Pritzker School of Medicine, Northbrook, Illinois  
**Linda Cardoso**, Universidad de los Andes, Bogota, Colombia  
**Ana Casanegra**, Mayo Clinic, Rochester, Minnesota  
**Shin Mei Chan**, Yale University School of Medicine, New Haven, Connecticut  
**Vishnu Chandra**, University of Virginia Health, Charlottesville, Virginia  
**John Charitable**, NYU Langone Health, Brooklyn, New York  
**Sebastian Cifuentes**, Universidad de los Andes, Bogota, Colombia  
**Rafael Cires-Drouet**, University of Maryland, Baltimore, Maryland  
**Anthony Comerota**, Inova Heart and Vascular Institute, Alexandria, Virginia  
**Zafer Coskun**, Universite of Health Sciences Istanbul, Istanbul, Turkey  
**Michael Dalsing**, Indiana University Medical School, Indianapolis, Indiana  
**Alan Dardik**, Yale University School of Medicine, New Haven, Connecticut  
**Steven Dean**, The Ohio State University, Columbus, Ohio  
**Kush Desai**, Northwestern University Feinberg School of Medicine, Chicago, Illinois  
**Jose Diaz**, Vanderbilt University Medical Center, Nashville, Tennessee  
**Ellen Dillavou**, Duke University Medical Center, Chapel Hill, North Carolina  
**Steve Elias**, Englewood Hospital & Medical Center, Englewood, New Jersey  
**Mary Farrell**, Intersocietal Accreditation Commission, Ellicott City, Maryland  
**Valentin Figueroa**, Universidad de los Andes, Bogota, Colombia  
**John Fish**, Jobst Vascular Institute, Perrysburg, Ohio  
**John Forbes**, American Venous Forum, Chicago, Illinois  
**Camila Franco Mesa**, Mayo Clinic, Jacksonville, Florida  
**Eri Fukaya**, Stanford University, Stanford, California  
**Mark Garcia**, Endovascular Consultants, Greenville, Delaware  
**Antonios Gasparis**, Stony Brook University Medical Center, Stony Brook, New York  
**Kathleen Gibson**, Lake Washington Vascular Surgeons, Kirkland, Washington  
**Manjit Gohel**, Consultant Vascular & Endovascular Surgeon, United Kingdom  
**Alejandro Gonzalez-Ochoa**, Instituto Mexicano Seguro social, San Luis R.C, Mexico





**David Gordon**, University of Michigan, Ann Arbor, Michigan  
**Anthony Grieff**, Rutgers Robert Wood Johnson, New Brunswick, New Jersey  
**Edgar Guzman**, Orlando Health Heart and Vascular Institute, Winter Park, Florida  
**Adam Gwozdz**, King's College London, London, United Kingdom  
**Eric Hager**, University of Pittsburgh Medical Center, Glenshaw, Pennsylvania  
**Ulf Hedin**, Karolinska Institutet, Stockholm, Sweden  
**Dominik Heim**, EVF, Frutigen, Switzerland  
**Mark Iafrati**, Tufts Medical Center, Boston, Massachusetts  
**Wissam Jaber**, Emory University, Atlanta, Georgia  
**Aleksandra Jaworucka-Kaczorowska**, Center of Phlebology and Aesthetic Medicine, Jaworuccy Surgery Center, Janczewo, Poland  
**Arjun Jayaraj**, THE RANE Center at St Dominic Hospital, Flowood, Mississippi  
**Lowell Kabnick**, Kabnick Vein Center, Far Hills, New Jersey  
**Stavros Kakkos**, University of Patras, Greece  
**Yogendra Kanthi**, University of Michigan, Ann Arbor, Michigan  
**Roxana Katsini**, Hospital Italiano de Buenos Aires - Sector Flebologia y Linfologia, Buenos Aires, Argentina  
**Neil Khilnani**, Weill Cornell Medicine- New York Presbyterian Hospital, New York, New York  
**Andrei Kindzelski**, NIH-NHLBI-Division of Blood Diseases & Resources, Potomac, Maryland  
**Angela Kokkosis**, Stony Brook University Medical Center, Stony Brook, New York  
**Brajesh Lal**, University of Maryland School of Medicine, Ellicott City, Maryland  
**Peter Lawrence**, UCLA Gonda Vascular Center, San Marino, California  
**Kirill Lobastov**, Pirogov Russian National Research Medical University, Moscow, Russian Federation  
**Joann Lohr**, William Jennings Bryan Dorn VA Medical Center, Columbia, South Carolina  
**Fedor Lurie**, Jobst Vascular Institute, Perrysburg, Ohio  
**Allison Mackenzie**, Tufts Medical Center, Medford, Massachusetts  
**William Marston**, University of North Carolina, Chapel Hill, North Carolina  
**Elna Masuda**, Straub Medical Center/ Hawaii Pacific Health, Honolulu, Hawaii  
**John Matson**, University of Virginia Health, Charlottesville, Virginia  
**Mark Meissner**, University of Washington Medical Center, Seattle, Washington  
**Geno Merli**, Thomas Jefferson University Hospital, Sewell, New Jersey  
**Rachael Morris**, King's College London, London, United Kingdom  
**Patrick Muck**, TriHealth-Good Samaritan Hospital, Cincinnati, Ohio  
**Neelam Muljii**, Prisma Health/University of South Carolina, Columbia, South Carolina  
**Takaya Murayama**, Kannai Medical Clinic, Yokohama, Japan  
**Erin Murphy**, Sanger Heart & Vascular Institute, Charlotte, North Carolina  
**Evan Neville**, Trihealth - Good Samaritan Hospital, Cincinnati, Ohio  
**Andrea Obi**, University of Michigan, Ann Arbor, Michigan  
**Thomas O'Donnell**, Tufts Medical Center, Boston, Massachusetts  
**Drew Oostr**, Jobst Vascular Institute, Perrysburg, Ohio  
**Alvaro Orrego**, University of San Salvador, Santiago, Chile  
**Nicholas Osborne**, University of Michigan, Canton, Michigan  
**Kathleen Ozsvath**, Vascular Associates, St Peters Health Partners, Loudonville, New York  
**Peter Pappas**, Center for Vascular Medicine, Greenbelt, Maryland  
**Sameer Parpia**, McMaster University, Etobicoke, Canada  
**Marc Passman**, University of Alabama at Birmingham, Birmingham, Alabama





**Matthew Pergamo**, New York University Langone Health, New York City, New York  
**Paula Pinto**, Universidad de los Andes, Bogota, Colombia  
**Alejandro Pizano**, Department of Cardiothoracic and Vascular Surgery, McGovern Medical School, Houston, Texas  
**Anna Pouncey**, Guy's and St Thomas' NHS Foundation Trust and King's College London, London, United Kingdom  
**Lori Pounds**, UT Health San Antonio, Boerne, Texas  
**Alessandra Puggioni**, Yourveins of AZ, Scottsdale, Arizona  
**Chris Ragg**, Angioclinic Vein Centers Germany, Berlin, Germany  
**Julio Ramos**, Vascular Surgery Department at Mount Sinai Hospital, New York, New York  
**Mahmood Razavi**, St Joseph, Orange, California  
**Brent Robertson**, TriHealth -Good Samaritan Hospital, Cincinnati, Ohio  
**Stanley Rockson**, Stanford University, Palo Alto, California  
**Fanny Rodriguez Santos**, Hospital Italiano de Buenos Aires, Buenos Aires, Argentina  
**Ulka Sachdev-Ost**, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania  
**Mike Sadek**, New York University Langone Health, Bronxville, New York  
**Naoki Sakakibara**, Edogawa Hospital, Tokyo, Japan  
**Gloria Salazar**, Massachusetts General Hospital - Harvard Medical School, Chestnut Hill, Massachusetts  
**Taimur Saleem**, The RANE Center at St Dominic Hospital, Brandon, Mississippi  
**Hanna Sams**, Prisma Health/University of South Carolina, Columbia, South Carolina  
**Maria Santa Cruz**, Total Vascular Care, Brooklyn, New York  
**Adrian Santini**, Charleston Area Medical Center, Integrated Vascular Surgery, Charleston, West Virginia  
**Maxim Shaydakov**, Central Michigan University, Midland, Michigan  
**Evgeny Shaydakov**, Petro Stat University Hospital Surgery Clinic, St. Petersburg, Russian Federation  
**William Sherk**, University of Michigan, Ann Arbor, Michigan  
**Maria Smetanina**, Institute of Chemical Biology and Fundamental Medicine (ICBFM) SB RAS, Russian Federation  
**Kirolus Sourial**, University Hospitals Cleveland Medical Center, Cleveland, Ohio  
**Giancarlo Speranza**, New York University Grossman School of Medicine, New York, New York  
**Marcus Stanbro**, PrismaHealth-Upstate Center for Vein and Lymphatic Medicine, Simpsonville, South Carolina  
**Julianne Stoughton**, Mass General Hospital/ Harvard Medical School, Andover, Massachusetts  
**Roman Tauraginskii**, International Institution of Health Care and Additional Education Research Institute of Clinical Medicine, Surgut, Russian Federation  
**Clinton Timmerman**, RowanSOM, Huntington Beach, California  
**Preston Tolbert**, University of Texas Health Science Center at San Antonio, San Antonio, Texas  
**Lillian Tran**, University of Pittsburgh Medical Center, Pittsburgh, Pennsylvania  
**Thomas Tu**, Inari Medical, Irvine, California  
**Jorge Ulloa**, Fundacion Santa Fe, Colombia  
**Suresh Vedantham**, Washington University in St. Louis, Clayton, Missouri  
**Gennady Vulakh**, Total Vascular Care, Brooklyn, New York  
**Andy Wang**, Lahey Hospital & Medical Center, Burlington, Massachusetts  
**Harold Welch**, Lahey Clinic, Boston, Massachusetts  
**Ronald Winokur**, Thomas Jefferson University Hospital, Penn Valley, Pennsylvania  
**Matthew Wise**, Center for Vascular Medicine, Greenbelt, Maryland  
**David Wright**, USA Therm, United Kingdom  
**Candance Wulff**, Prisma Health/University of South Carolina, Columbia, South Carolina  
**Mitsumi Yamashita**, Murayama Clinic, Yokohama, Japan  
**Qi Yan**, UT Health San Antonio, San Antonio, Texas







## ACCREDITATION STATEMENT



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In support of improving patient care, this activity has been planned and implemented by Amedco LLC and American Venous Forum (AVF). Amedco LLC is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

## PHYSICIANS (ACCME)

### WEDNESDAY, MARCH 17—DAY OF SCIENCE

Amedco LLC designates this live activity for a maximum of **3.75 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Amedco LLC designates this enduring activity for a maximum of **3.75 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

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# VENOUS 2021

AMERICAN VENOUS FORUM

MARCH 17 - 20, 2021

## BY THE NUMBERS

60  
DAYS

### ON-DEMAND ACCESS

Recorded Sessions, CME, Symposia, Exhibit Hall and Conference Functionalities

59

### ABSTRACT PRESENTATIONS

Groundbreaking Research from Around the Globe

18

### POSTER PRESENTATIONS

Pre-Recorded for Viewing Anytime

16

### AMA PRA CATEGORY 1

*Enduring Credits Available*

8

### SCIENTIFIC SESSIONS

COVID-19, Late-Breaking Trials, Deep & Superficial Venous Disease, Lymphedema & Contemporary Venous Care, and VTE

7

### INDUSTRY SYMPOSIA

Featuring Latest Technologies and Clinical Data

4  
DAYS

### LIVE EDUCATIONAL CONTENT

Pre-Recorded for Viewing Anytime

4

### FEATURED EDUCATIONAL SESSIONS

World's Leading Experts in Venous and Lymphatic Disease

4

### POSTER PRESENTATIONS

EVF, SVM, SVS/VQI, and AVLS

2

### KEYNOTE SPEAKERS

Pre-Recorded for Viewing Anytime

1

### GALA CELEBRATION

"Remember The Alamo" Drinks, Dress & Drama

[www.VENOUS2021.org](http://www.VENOUS2021.org)

LEARN  
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NOW

**WEDNESDAY, MARCH 17, 2021, 11:15-11:45AM - SIGVARIS**

**Overview of Lymphatic Surgery: How to Get Started with Supermicrosurgery**

*Dr. Wei F. Chen, MD, FACS*

Dr. Chen will explore methods of surgical intervention for lymphedema patients including regional reconstructive microsurgery and supermicrosurgery.

**SIGVARIS**

**WEDNESDAY, MARCH 17, 2021, 1:50-2:20PM – COOK MEDICAL**

**Zilver Vena; Durable Symptom Relief with a Conformable Venous Indicated Stent**

*Dr. Steven Elias, MD and Dr. Robert Mendes, MD, FACS*

Join Cook for a sponsored symposium at American Venous Forum. Doctors Mendes and Elias will participate in a data presentation as well as case reviews, followed by Q&A session with the audience.



**THURSDAY, MARCH 18, 2021, 12:40-1:10PM – BOSTON SCIENTIFIC**

**Enhancing Your Toolkit with Novel Technologies for Complex Venous Procedures - A Case Based Discussion**

*Dr. Michael Jaff, with additional faculty members Dr. Kush Desai and Dr. David Dexter.*

The AVF audience can learn more about new venous technologies from Boston Scientific that can address some of the challenging scenarios they face when treating their patients with thrombotic and obstructive venous disease.



**THURSDAY, MARCH 18, 2021, 2:50-3:20PM - BD**

**Real-World Clinical Strategies with the Venovo™ Venous Stent and Highlights from the VERNACULAR Study**

*Dr. Lowell Kabnick and Dr. Patrick Muck*

Learn about the Venovo™ Venous Stent system, key features, tips and tricks, case review, and VERNACULAR clinical data.



**FRIDAY, MARCH 19, 2021, 11:45AM-12:15PM - MEDTRONIC**

**Venous Leg Ulcers: A Clinical Challenge Featuring New Data**

Dr. Misaki Kiguchi (MedStar Washington Hospital Center, Washington, D.C.) and Dr. Leigh Ann O'Banion (UCSF, Fresno, CA)



**FRIDAY, MARCH 19, 2021, 3:00-3:30PM – BOSTON SCIENTIFIC**

**Varithena and My Practice**

*Parmjit "Romi" Chopra, MD*

Dr. Chopra will walk through a case and how Varithena fits in his practice. He will discuss where he uses it, why, and how his patients are reacting to Varithena.



**SATURDAY, MARCH 20, 2021, 12:10-12:40PM – INARI MEDICAL**

**Lighting the Way for Optimal VTE Treatment - Late Breaking FLASH and CLOUT data and starting FLAME enrollment**

*Thomas Tu, Venkat Tummala, Wissam Jaber and Steven Abramowitz*

30-day outcomes of CLOUT Chronic sub-analysis and intermediate and high-risk cut of FLASH data along with the official start of the FLAME registry.



Friday, March 19  
7:00pm ET

# Remember the Alamo



**Music**

**Socializing**

**Magic**

**Awards**

**Games**

**VENOUS 2021**

AMERICAN VENOUS FORUM





# Thank you

# INDUSTRY EXHIBITORS



angiodynamics



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medical

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Thrombectomy Catheter



WALK  
VASCULAR



# DAY OF SCIENCE

## WEDNESDAY, MARCH 17, 2021 (EDT/UTC-4)

9:30 am – 9:48 am	<b>LIVE NETWORKING: Morning Coffee Connection - Come See New and Old Friends</b>
9:50 am	<b>President's Welcome</b> <i>Harold Welch</i>
10:00 am – 11:10 am	<b>Scientific Session 1 - COVID-19 and Venous Disease</b> <i>Moderators: Harold Welch, Kathleen Ozsvath</i>
10:00 am	<b>Introduction</b>
10:01 am	(AVF5) COVID-19 Pandemic: Can We Adapt a System-wide Warfarin Monitoring Program and Maintain Safety <i>Kirolus Sourial, Theresa Kearns, Teresa Carman</i> <i>University Hospitals Cleveland Medical Center, Cleveland, OH, USA</i>
10:07 am	(AVF6) Sulodexide in the Treatment of Early Stages of COVID-19 <i>Alejandro Gonzalez-Ochoa<sup>1,2</sup>, Ana Hernandez<sup>2</sup>, Joseph Raffetto<sup>3</sup></i> <i><sup>1</sup>Instituto Mexicano Seguro social HGZ#12, San Luis R.C, Mexico, <sup>2</sup>Clinedem, San Luis R.C, Mexico, <sup>3</sup>Boston University, School Medicine, Boston, MA, USA</i>
10:13 am	(AVF7) Higher Incidence Of Deep Venous Thrombosis and Pulmonary Emboli Among Coronavirus Disease 2019 (COVID-19) Positive Patients: A Multi-Site Healthcare System Experience <i>Camila Franco Mesa<sup>1</sup>, Young Erben<sup>1</sup>, Michelle Lin<sup>1</sup>, Andrew Meltzer<sup>2</sup>, Melanie Greenway<sup>1</sup>, Osman Hamid<sup>1</sup>, Zlatko Devcic<sup>1</sup>, Beau Toskich<sup>1</sup>, Houssam Farres<sup>1</sup>, Manju Kalra<sup>3</sup>, Thomas Bower<sup>3</sup>, Randall De Martino<sup>3</sup>, Jason Siegel<sup>1</sup>, Albert Hakaim<sup>1</sup>, Devang Sanghavi<sup>1</sup>, Yupeng Li<sup>4</sup>, Candido Rivera<sup>1</sup>, Pablo Moreno-Franco<sup>1</sup>, Josephine Huang<sup>1</sup>, James Meschia<sup>1</sup></i> <i><sup>1</sup>Mayo Clinic Florida, Jacksonville, FL, USA, <sup>2</sup>Mayo Clinic, Phoenix, AZ, USA, <sup>3</sup>Mayo Clinic Minnesota, Rochester, MN, USA, <sup>4</sup>Rowan University, Glassboro, NJ, USA</i>
10:19 am	(AVF8) COVID-19 and the Vascular Lab: Decreasing Exposure Risk <i>Steve Elias, Sam Elias</i> <i>Englewood Health Network, Englewood, NJ, USA</i>
10:25 am	(AVF9) COVID-19 Patient Presenting with Symptomatic Iliocaval Thrombus: A Case Report <i>Clinton Timmerman<sup>1,2</sup>, Arthelma Tyson<sup>1</sup></i> <i><sup>1</sup>Atlanticare Regional Medical Center, Atlantic City, NJ, USA, <sup>2</sup>RowanSOM, Stratford, NJ, USA</i>
10:31 am	<b>LIVE Q&amp;A</b>
10:40 am	(AVF10) <b>INVITED SPEAKER</b> Thrombosis in the COVID-19 Population: Acute and Extended Risk <i>Geno Merli, Jefferson University</i>
11:00 am	<b>LIVE Q&amp;A</b>
11:10 am – 11:15 am	<b>BREAK</b>
11:15 am – 11:45 am	<b>Industry Symposia</b>



# DAY OF SCIENCE

## WEDNESDAY, MARCH 17, 2021 (EDT/UTC-4) *continued*

<b>11:15 am – 11:55 am</b>	<b>Basic Science Abstracts</b> <i>Moderators: Jose Diaz, Kathleen Ozsvath, Fedor Lurie</i>
<b>11:15 am</b>	<b>Introduction</b>
11:17 am	(AVF1) First Experience Of Using Russian Sulfacrylate Glue Clinical and Morphological Study (In Vivo) <b>Evgeny Shaydakov, II<sup>1</sup></b> , Vladimir Sannikov, III <sup>2</sup> , Vladimir Emelynenko, III <sup>3</sup> , Tatyana Tolstikova, II <sup>3</sup> <sup>1</sup> Peter State University, Petrozavodsk, Russian Federation, <sup>2</sup> Medical Center "Palitra", Vladimir, Russian Federation, <sup>3</sup> Novosibirsk Institute of Organic chemistry, Novosibirsk, Russian Federation
11:23 am	(AVF2) Genetic Factors Leading to Recurrent Varicose Veins after Surgical Treatment <b>Mariya Smetanina<sup>1,2</sup></b> , Valeria Korolenya <sup>1,2</sup> , Nikita Ershov <sup>3</sup> , Magomed Arslanbekov <sup>4</sup> , Igor Zolotukhin <sup>4</sup> , Maxim Filipenko <sup>1,2</sup> <sup>1</sup> Institute of Chemical Biology and Fundamental Medicine, Novosibirsk, Russian Federation, <sup>2</sup> Novosibirsk State University, Novosibirsk, Russian Federation, <sup>3</sup> Institute of Cytology and Genetics, Novosibirsk, Russian Federation, <sup>4</sup> Pirogov Russian National Research Medical University, Moscow, Russian Federation
11:29 am	(AVF3) The Importance of Hemodynamic Pressure for the Progression of Venous Insufficiency. Lessons from Physical Analysis of Veins and Waterfalls <b>Chris Ragg</b> Angioclinic Vein Centers Germany, Berlin, Germany
11:35 am	(AVF4) Interval Results of Totally Percutaneous Approach for Creation of Large Animal Long Segment Iliac Deep Venous Thrombosis <b>Andrea Obi<sup>1</sup></b> , David Williams <sup>1</sup> , Veronica Dunivant <sup>1</sup> , Laura Durham <sup>1</sup> , Andrea Poli <sup>1</sup> , Nathan Weidenhamer <sup>2</sup> , Patrick Lester <sup>1</sup> , Thomas Wakefield <sup>1</sup> , Daniel Myers <sup>1</sup> <sup>1</sup> University of Michigan, Ann Arbor, MI, USA, <sup>2</sup> Medtronic, Minneapolis, MN, USA
<b>11:41 am</b>	<b>LIVE Q&amp;A</b>
<b>11:55 am – 12:00 pm</b>	<b>BREAK</b>
<b>12:00 pm – 12:45 pm</b>	<b>COVID-19 Lessons Learned from the Pandemic</b> <i>Moderators: Fedor Lurie, Elna Masuda, Jose Diaz</i>
12:00 pm	TELEMEDICINE: The New Normal <b>Ruth Bush</b>
12:10 pm	COVID-19 and VTE: New Questions or All the Same But Worse? <b>Joseph Caprini</b>
12:20 pm	Did COVID-19 Affect the Lymphatic System? <b>Stanley Rockson</b>
<b>12:30 pm</b>	<b>LIVE Q&amp;A</b>
<b>12:45 am – 12:50 pm</b>	<b>BREAK</b>



# DAY OF SCIENCE

## WEDNESDAY, MARCH 17, 2021 (EDT/UTC-4) *continued*

<b>12:50 pm – 1:45 pm</b>	<b>Latest Innovations in the Treatment of Venous Disease and VTE Research Priorities</b> <i>Moderators: Joe Diaz, Ellen Dillavou, Fedor Lurie</i>
12:50 pm	Vein Valve Development – What are the Current Challenges? <i>Steve Elias</i>
1:00 pm	Venous Stenting What is Next in Development and Improvement What are the Current Challenges
1:10 pm	Thrombus Removal Devices – What are the Current Challenges? <i>Thomas Tu</i>
1:20 pm	Venous Thromboembolism Research Priorities: A Scientific Statement from the AHA and the ISTH <i>Geoff Barnes</i>
<b>1:30 pm</b>	<b>LIVE Q&amp;A</b>
<b>1:45 pm – 1:50 pm</b>	<b>BREAK</b>
<b>1:50 pm – 2:35 pm</b>	<b>Writing and Reviewing a Scientific Manuscript - JVS</b> <i>Moderators: Jose Diaz, Ulka Sachdev-Ost</i>
1:50 pm	How to Write a Scientific Manuscript <i>Alan Dardik</i>
2:00 pm	How to Be a Great Reviewer <i>Ulf Hedin</i>
2:10 pm	JVS – Early Career Reviewer Program <i>Ulka Sachdev-Ost</i>
<b>2:20 pm</b>	<b>LIVE Q&amp;A</b>
<b>2:35 pm – 2:40 pm</b>	<b>BREAK</b>
<b>2:40 pm – 3:40 pm</b>	<b>Clinical Trials Design - Results - Conclusion: Day of Science + Research Committee</b> <i>Moderators: Fedor Lurie, Jose Diaz, Maxim Shaydakov</i>
2:40 pm	How to Do It: Hypothesis and Challenges <i>Suresh Vedantham</i>
2:50 pm	Sample Size and Statistics <i>Sameer Parpia</i>
3:00 pm	The Value of Industry: The Good Guys or the Bad Guys in Clinical Trials <i>Mark Garcia</i>
3:10 pm	Understanding the Review Process. The NIH Vision <i>Andrei Kindzelski</i>
<b>3:20 pm</b>	<b>LIVE Q&amp;A</b>
<b>3:35 pm</b>	<b>LIVE Final Remarks: Fedor Lurie, Jose Diaz</b>







## DAY OF SCIENCE

### WEDNESDAY, MARCH 17, 2021

11:15 am – 11:45 am

**SIGVARIS**

1:50 pm – 2:20 pm



### THURSDAY, MARCH 18, 2021

12:40 pm – 1:10 pm



2:50 pm – 3:20 pm



### FRIDAY, MARCH 19, 2021

11:45 am – 12:15 pm

**Medtronic**

3:00 pm – 3:30 pm



### SATURDAY, MARCH 20, 2021

12:10 pm – 12:40 pm



**INDUSTRY**  
*Symposia*





# ANNUAL MEETING

## WEDNESDAY, MARCH 17, 2021 (EDT/UTC-4)

9:30am – 9:48am	<b>LIVE NETWORKING: Morning Coffee Connection - Come See New and Old Friends</b>
9:50 am	<b>President's Welcome</b> <i>Harold Welch</i>
10:00 am – 11:10 am	<b>Scientific Session 1 - COVID-19 and Venous Disease</b> <i>Moderators: Harold Welch, Kathleen Ozsvath</i>
10:00 am	<b>Introduction</b>
10:01 am	(AVF5) COVID-19 Pandemic: Can We Adapt a System-wide Warfarin Monitoring Program and Maintain Safety <i>Kirolus Sourial, Theresa Kearns, Teresa Carman</i> <i>University Hospitals Cleveland Medical Center, Cleveland, OH, USA</i>
10:07 am	(AVF6) Sulodexide in the Treatment of Early Stages of COVID-19 <i>Alejandro Gonzalez-Ochoa<sup>1,2</sup>, Ana Hernandez<sup>2</sup>, Joseph Raffetto<sup>3</sup></i> <i><sup>1</sup>Instituto Mexicano Seguro social HGZ#12, San Luis R.C, Mexico, <sup>2</sup>Clinedem, San Luis R.C, Mexico, <sup>3</sup>Boston University, School Medicine, Boston, MA, USA</i>
10:13 am	(AVF7) Higher Incidence Of Deep Venous Thrombosis and Pulmonary Emboli Among Coronavirus Disease 2019 (COVID-19) Positive Patients: A Multi-Site Healthcare System Experience <i>Camila Franco Mesa<sup>1</sup>, Young Erben<sup>1</sup>, Michelle Lin<sup>1</sup>, Andrew Meltzer<sup>2</sup>, Melanie Greenway<sup>1</sup>, Osman Hamid<sup>1</sup>, Zlatko Devcic<sup>1</sup>, Beau Toskich<sup>1</sup>, Houssam Farres<sup>1</sup>, Manju Kalra<sup>3</sup>, Thomas Bower<sup>3</sup>, Randall De Martino<sup>3</sup>, Jason Siegel<sup>1</sup>, Albert Hakaim<sup>1</sup>, Devang Sanghavi<sup>1</sup>, Yupeng Li<sup>4</sup>, Candido Rivera<sup>1</sup>, Pablo Moreno-Franco<sup>1</sup>, Josephine Huang<sup>1</sup>, James Meschia<sup>1</sup></i> <i><sup>1</sup>Mayo Clinic Florida, Jacksonville, FL, USA, <sup>2</sup>Mayo Clinic, Phoenix, AZ, USA, <sup>3</sup>Mayo Clinic Minnesota, Rochester, MN, USA, <sup>4</sup>Rowan University, Glassboro, NJ, USA</i>
10:19 am	(AVF8) COVID-19 and the Vascular Lab: Decreasing Exposure Risk <i>Steve Elias, Sam Elias</i> <i>Englewood Health Network, Englewood, NJ, USA</i>
10:25 am	(AVF9) COVID-19 Patient Presenting with Symptomatic Iliocaval Thrombus: A Case Report <i>Clinton Timmerman<sup>1,2</sup>, Arthelma Tyson<sup>1</sup></i> <i><sup>1</sup>Atlanticare Regional Medical Center, Atlantic City, NJ, USA, <sup>2</sup>RowanSOM, Stratford, NJ, USA</i>
10:31 am	<b>LIVE Q&amp;A</b>
10:40 am	(AVF10) <b>INVITED SPEAKER</b> Thrombosis in the COVID-19 Population: Acute and Extended Risk <i>Geno Merli, Jefferson University</i>
11:00 am	<b>LIVE Q&amp;A</b>
11:10 am – 11:15 am	<b>BREAK</b>
11:15 am – 11:45 am	<b>Industry Symposia</b>
11:45 am – 11:50 am	<b>BREAK</b>





# ANNUAL MEETING

## WEDNESDAY, MARCH 17, 2021 (EDT/UTC-4) *continued*

<b>11:50 am – 12:25 pm</b>		<b>Scientific Session 2 - Quick Shots</b> <i>Moderators: Faisal Aziz, Andrea Obi</i>
<b>11:50 am</b>	<b>Introduction</b>	
11:51 am	(AVF11) An Underconsidered Cause of Central Venous Occlusion <b>Neelam Muljii<sup>1</sup></b> , Joann Lohr <sup>2</sup> , Jonathan Sexton <sup>2</sup> , Fonda Wilkins <sup>2</sup> <sup>1</sup> Prisma Health/University of South Carolina, Columbia, SC, USA, <sup>2</sup> William Jennings Bryan Dorn VA Medical Center, Columbia, SC, USA	
11:54 am	(AVF12) Initial Experience with Inari Thrombectomy Systems for Single-Session Suction Thrombectomy of Iliocaval Thrombus <b>Vishnu Chandra</b> , David Dwyer, Rehan Quadri, Aditya Sharma, Minhaj Khaja, John Matson University of Virginia Health, Charlottesville, VA, USA	
11:57 pm	(AVF13) Use of Dual Antiplatelet Therapy Plus Anticoagulation Following Iliocaval and Iliofemoral Recanalization in Patients with Recurrent Stent Thrombosis <b>John Matson</b> , Randy Ramcharitar, Aditya Sharma, John Angle, Minhajuddin Khaja University of Virginia Health, Charlottesville, VA, USA	
12:00 pm	(AVF14) Quality and Educational Value of Procedural Videos for DVT lysis In the Public Domain <b>Qi Yan</b> , Mark Davies, UT Health San Antonio, San Antonio, TX, USA	
12:03 pm	(AVF15) Venous Stenting versus Venous Ablation <b>Ahmad Alsheekh</b> , Pavel Kibrik, Natalie Marks, Anil Hingorani, Enrico Ascher Total Vascular Care, Brooklyn, NY, USA	
12:06 pm	(AVF16) Common Iliac Vein Stenting for May-Thurner Syndrome and Subsequent Pregnancy: Patency and Outcomes <b>Giancarlo Speranza<sup>1</sup></b> , Mikel Sadek <sup>2</sup> , Karan Garg <sup>2</sup> , Todd Berland <sup>2</sup> , Michael Barfield <sup>2</sup> , Caron Rockman <sup>2</sup> , Neal Cayne <sup>2</sup> , Thomas Maldonado <sup>2</sup> , Glenn Jacobowitz <sup>2</sup> <sup>1</sup> New York University Grossman School of Medicine, New York, NY, USA, <sup>2</sup> New York University Langone Health, New York, NY, USA	
12:09 pm	(AVF17) Endovascular Treatment of Renal Vein Thrombosis in a Young Patient with Lung Transplant <b>Anand Brahmandam</b> , Alfred Lee, Cassius Iyad Ochoa Chaar Yale University School of Medicine, New Haven, CT, USA	
12:12 pm	(AVF18) Anticoagulation Management of DVT in Pregnancy: Anti-Xa Levels Matter <b>Joann Lohr<sup>1</sup></b> , Joseph Caprini <sup>2</sup> , Fonda Wilkins <sup>1</sup> <sup>1</sup> William Jennings, Bryan Dorn VA Medical Center, Columbia, SC, USA, <sup>2</sup> Pritzker School of Medicine at the University of Chicago, Chicago, IL, USA	
12:15 pm	(AVF19) Remember the Skin Biopsy!!! In The Differential Diagnosis of Warfarin-induced Skin Necrosis vs Calciphylaxis: Histopathology is King <b>Candance Wulff<sup>1</sup></b> , Joann Lohr <sup>2</sup> , Jenna Wilkening <sup>3</sup> , Fonda Wilkins <sup>2</sup> <sup>1</sup> Prisma Health/University of South Carolina, Columbia, SC, USA, <sup>2</sup> William Jennings Bryan Dorn VA Medical Center, Columbia, SC, USA, <sup>3</sup> Trihealth, Cincinnati, OH, USA	





# ANNUAL MEETING

## WEDNESDAY, MARCH 17, 2021 (EDT/UTC-4) *continued*

12:18 pm	(AVF20) Comparison of the Economic Benefits of a Proprietary Advanced Pneumatic Compression Device (APCD) over a Simple Pneumatic Compression Device (SPCD) in the Management of Lymphedema <b>Mark Iafrati</b> , <i>Thomas O'Donnell, Jr.</i> , Tufts Medical Center, Tufts School of Medicine, Boston, MA, USA
12:21 pm	Wrap up
<b>12:25 pm – 12:30 pm</b>	<b>BREAK</b>
<b>12:30 pm – 1:45 pm</b>	<b>Top Abstracts &amp; Late Breaking Trials</b> <i>Moderators: Angela Kokkosis, Edgar Guzman</i>
<b>12:30 pm</b>	<b>Introduction</b>
12:31 pm	(AVF21) Percutaneous Mechanical Thrombectomy in High-Risk and Intermediate-Risk Pulmonary Embolism – Results from the FLASH registry <b>Wissam Jaber</b> , <i>Emory University School of Medicine, Atlanta, GA, USA</i>
12:37 pm	(AVF22) Tranexamic Acid in the Treatment of post-Sclerotherapy Hyperpigmentation <b>Linda Cardoso</b> , <i>Jorge Ulloa, Juan Chalela</i> <i>Universidad de los Andes, Fundacion Santa Fe, Bogota, Colombia</i>
12:43 pm	(AVF23) Effective Removal of Chronic Thrombus with the ClotTrieve System: Results from the CLOUT Registry <b>Steven Abramowitz</b> <i>MedStar Washington Hospital Center/Georgetown University Hospital, Washington, DC, USA</i>
12:49 pm	(AVF24) 12-month Clinical Outcomes from the VIVO Clinical Study - A Multicenter Evaluation of the Zilver Vena Venous Stent in the Treatment of Symptomatic Iliofemoral Venous Outflow Obstruction <b>Anthony Comerota</b> <sup>1</sup> , <i>Lawrence Hofmann</i> <sup>2</sup> , <i>Jennifer McCann-Brown</i> <sup>3</sup> <sup>1</sup> <i>Inova Alexandria Hospital, Alexandria, VA, USA</i> , <sup>2</sup> <i>Stanford University, Stanford, CA, USA</i> , <sup>3</sup> <i>Cook Medical, West Lafayette, IN, USA</i>
<b>12:55 pm</b>	<b>LIVE Q&amp;A</b>
1:07 pm	(AVF25) C-Tract Update <b>Suresh Vedantham</b>
1:13 pm	(AVF26) VETEX Study: Outcomes of First in Human Study using REVENE DVT Thrombectomy Catheter <b>Stephen Black</b>
1:19 pm	(AVF27) VIRTUS: Long-Term Safety and Efficacy of the Vici Venous Stent System <b>Mahmood Razavi</b>
1:25 pm	(AVF28) ABRE STUDY 12-MONTH DATA: Results of the Abre™ Venous Self-Expanding Stent System by Initial Clinical Presentation <b>Erin Murphy</b>
<b>1:31 pm</b>	<b>LIVE Q&amp;A</b>
<b>1:45 pm – 1:50 pm</b>	<b>BREAK</b>
<b>1:50 pm – 2:20 pm</b>	<b>Industry Symposia</b>





# ANNUAL MEETING

## THURSDAY, MARCH 18, 2021 (EDT/UTC-4)

9:30am – 9:55am **LIVE NETWORKING: Meet the Exhibitors - Get a Live Tour of the Exhibit Hall**

10:00 am – 11:30 am **Sumner Session: The State of the AVF - The Future is Bright**  
*Moderator: Antonios Gasparis*

10:00 am Introduction *Antonios Gasparis*

10:01 am In Pursuit of the AVF Mission *John Forbes*

10:11 am Venous Education Series *Ellen Dillavou*

10:21 am Publications and Patient Education *John Blebea*

10:31 am AVF Communications *Steve Elias*

10:41 am Guidelines of the American Venous Forum *Elna Masuda*

10:51 am International Ambassador Program *Jorge Ulloa*

11:01 am Focused Practice Designation *Brajesh Lal*

11:11 am Venous Advisory Council *Harold Welch*

11:21 am **LIVE Q&A**

11:30 am – 11:35 am **BREAK**

11:35 am – 12:35 pm **Scientific Session 3 - Deep Venous Disease I**  
*Moderators: Ruth Bush, Robert Attaran*

11:35 am **Introduction**

11:36 am (AVF29) Iliofemoral Venous Stenting May Contribute to Improving Femoropopliteal Deep Vein Reflux

*Matthew Pergamo, Lowell Kabnick, Glenn Jacobowitz, Caron Rockman, Thomas Maldonado, Todd Berland, Sheila Blumberg, Mikel Sadek*  
New York University Langone Health, New York City, NY, USA

11:42 am (AVF30) Anticoagulation of Venous Stents for Non-Thrombotic Venous Lesions Does Not Increase Stent Patency

*Peter Pappas<sup>1,2</sup>, Sanjiv Lakhanpal<sup>1,2</sup>, Levan Sulakvelidze<sup>1</sup>, Maxwell Tran<sup>1</sup>, Arjun Shetty<sup>1</sup>, Rick Kennedy<sup>1</sup>, <sup>1</sup>Center for Vascular Medicine, Greenbelt, MD, USA, <sup>2</sup>Center for Vein Restoration, Greenbelt, MD, USA*

11:48 am (AVF31) Utility Of The 50% Stenosis Criterion In Patients Undergoing Stenting For Chronic Iliofemoral Venous Obstruction

*Arjun Jayaraj, Thomas Powell, Seshadri Raju*  
RANE Center Vein, Lymph and DVT Clinic, Jackson, MS, USA

11:54 am (AVF32) Sex Differences in Long-Term Outcomes of Patients with Deep Vein Thrombosis

*Shin Mei Chan<sup>2</sup>, Anand Brahmandam<sup>1</sup>, Marcus Aspegren-Valcarce<sup>2</sup>, Haoran Zhuo<sup>3</sup>, Yawei Zhang<sup>3</sup>, Britt Tonnessen<sup>1</sup>, Alfred Lee<sup>4</sup>, Cassius Iyad Ochoa Char<sup>1</sup>*  
<sup>1</sup>Division of Vascular Surgery, Department of Surgery, Yale University School of Medicine, New Haven, CT, USA, <sup>2</sup>Yale University School of Medicine, New Haven, CT, USA, <sup>3</sup>Department of Environmental Health Sciences, Yale University School of Public Health, New Haven, CT, USA, <sup>4</sup>Section of Hematology, Department of Internal Medicine, Yale University School of Medicine, New Haven, CT, USA





## ANNUAL MEETING

### THURSDAY, MARCH 18, 2021 (EDT/UTC-4) *continued*

12:00 pm (AVF33) Human Vein In-stent Restenosis: A Clinic-Pathologic Study  
**David Gordon**<sup>1</sup>, *David Williams*<sup>1</sup>, *John Nicklas*<sup>2</sup>  
<sup>1</sup>University of Michigan, Ann Arbor, MI, USA, <sup>2</sup>Brown University Medical School (Warren Alpert Medical School), Providence, RI, USA

12:06 pm (AVF34) Intravascular Ultrasound Improves Short-term Patency of Venous Stenting Interventions  
**Lillian Tran**, *Catherine Go*, *Mohamed Zaghloul*, *Othman Abdul Malak*, *Eric Hager*, *Mohammad Eslami*, *Rabih Chaer*, *Efthymios Avgerinos*, University of Pittsburgh Medical Center, Pittsburgh, PA, USA

12:12 pm **LIVE Q&A**

12:35 pm – 12:40 pm **BREAK**

12:40 pm – 1:10 pm **Industry Symposia**

1:10 pm – 1:15 pm **BREAK**

1:15 pm – 2:45 pm **International Session: Sharing Excellence in Global Venous Science**  
*Moderators: Lowell Kabnick, Jorge Ulloa*

1:15 pm Introduction

1:16 pm (AVF35) The Change of Venous Wall Tension During Prolonged Load of Physiologic Hydrostatic Pressure - A Pilot Ex-Vivo Study  
**Roman Tauraginskii**<sup>1,2</sup>, *Fedor Lurie*<sup>3,4</sup>, *Rishal Agalarov*<sup>2</sup>, *Nikita Kravchenko*<sup>5</sup>, *Denis Borsuk*<sup>6</sup> <sup>1</sup>International Institution of Health Care and Additional Education Research Institute of Clinical Medicine, Irkutsk, Russian Federation, <sup>2</sup>LLC Vein center "Antireflux", Surgut, Russian Federation, <sup>3</sup>Jobst Vascular Institute, Toledo, OH, USA, <sup>4</sup>University of Michigan, Ann Arbor, MI, USA, <sup>5</sup>"County Cardiology Dispanser" Center for Diagnostic and Cardiovascular surgery, Surgut, Russian Federation, <sup>6</sup>The Clinic of Phlebology and laser surgery "Vasculab" Ltd., Chelyabinsk, Russian Federation

1:22 pm (AVF36) Investigating a Role for Platelets in Venous In-Stent Stenosis in Patients with Post-Thrombotic Syndrome  
**Adam Gwozdz**<sup>1</sup>, *Stephen Black*<sup>1</sup>, *Rachael Morris*<sup>1</sup>, *Sophie Messiha*<sup>1</sup>, *Mohammed Ikram*<sup>1</sup>, *Alexander Bye*<sup>2</sup>, *Jonathan Gibbins*<sup>2</sup>, *Margaret Rand*<sup>3</sup>, *Ashish Patel*<sup>1</sup>, *Bijan Modarai*<sup>1</sup>, *Alberto Smith*<sup>1</sup>, *Prakash Saha*<sup>1</sup>  
<sup>1</sup>Guy's and St Thomas' NHS Foundation Trust and King's College London, London, United Kingdom, <sup>2</sup>University of Reading, Reading, United Kingdom, <sup>3</sup>The Hospital for Sick Children and University of Toronto, Toronto, ON, Canada

1:28 pm (AVF37) A Comparison of Open vs Closed Cell Dedicated Venous Stents for Treatment of Chronic Iliofemoral Venous Outflow Obstruction  
**Rachael Morris**<sup>1,2</sup>, *Nicholas Jackson*<sup>2</sup>, *Taha Khan*<sup>2</sup>, *Adam Gwozdz*<sup>1,2</sup>, *Narayanan Karunanithy*<sup>2</sup>, *Narayanan Thulasidasan*<sup>2</sup>, *Stephen Black*<sup>1,2</sup>, *Prakash Saha*<sup>1,2</sup>  
<sup>1</sup>King's College London, London, United Kingdom, <sup>2</sup>St Thomas' Hospital, London, United Kingdom

1:34 pm (AVF38) Serious and Uncommon Complications of Sclerotherapy  
**Jorge Ulloa**, *Sebastian Cifuentes*,  
Valentina Sierra Universidad de los Andes, Fundacion Santa Fe, Bogota, Colombia



## ANNUAL MEETING

### THURSDAY, MARCH 18, 2021 (EDT/UTC-4) *continued*

1:40 pm (AVF39) Endovenous Laser Ablation (EVLA) with Simultaneous Sclerotherapy as a Comprehensive Approach to the Treatment of Superficial Venous Incompetence  
**Aleksandra Jaworucka-Kaczorowska**  
*Center of Phlebology and Aesthetic Medicine, Gorzów Wlkp., Poland*

**1:46 pm LIVE Q&A**

2:05 pm (AVF40) Caprini Score In Venous Surgery: First Results From an Ongoing Registry Study  
**Kirill Lobastov<sup>1</sup>, Denis Borsuk<sup>2</sup>, Alexey Fokin<sup>3</sup>, Maria Shaldina<sup>3</sup>, Ilya Schastlivtsev<sup>1</sup>, Leonid Laberko<sup>1</sup>**, *<sup>1</sup>Pirogov Russian National Research Medical University, Moscow, Russian Federation, <sup>2</sup>Clinic of Phlebology and Laser Surgery "Vasculab" Ltd, Chelyabinsk, Russian Federation, <sup>3</sup>South Ural State Medical University, Chelyabinsk, Russian Federation*

2:11 pm (AVF41) PVP is Effective and Safe to Restore Valve Function, Best Suitable for Early Stages of Pressure-Induced Valve Decompensation  
**Chris Ragg,**  
*Angioclinic Vein Centers Germany, Berlin, Germany*

2:17 pm (AVF42) EVF PRIZE WINNER: Quantitative and Structural Characteristics of Mitochondrial DNA in Varicose Veins  
**Mariya A. Smetanina<sup>1</sup>, Kseniya S. Sevost'ianova<sup>1</sup>, Arina N. Shirshova<sup>2</sup>, Igor P., Oscorbin<sup>2</sup>, Natalya A. Oskina<sup>2</sup>, Igor A. Zolotukhin<sup>3</sup>, Maxim L. Filipenko<sup>1</sup>**  
*<sup>1</sup>Institute of Chemical Biology and Fundamental Medicine (ICBFM), Novosibirsk State University (NSU), Russia, <sup>2</sup>Institute of Chemical Biology and Fundamental Medicine (ICBFM), Russia, <sup>3</sup>Pirogov Russian National Research Medical University (RNRMU), Russia*

2:23 pm (AVF43) EVF PRIZE WINNER: Cost Utility Analysis of Modalities of Treatment for Iliofemoral Deep Venous Thrombosis in the United Kingdom  
**Anna Louise Pouncey<sup>1</sup>, Joseph B Babigumira<sup>2</sup>, Oscar W Johnson<sup>1</sup>, Jude Currier<sup>3</sup>, Stephen A Black<sup>1</sup>**  
*<sup>1</sup>Guy's and St Thomas' NHS Foundation Trust, UK, <sup>2</sup>University of Washington, USA, <sup>3</sup>Solidarity Health, USA*

**2:29 pm LIVE Q&A**

**2:45 pm – 2:50 pm BREAK**

**2:50 pm – 3:20 pm Industry Symposia**



# ANNUAL MEETING

## FRIDAY, MARCH 19, 2021 (EDT/UTC-4)

9:30am – 9:55am **LIVE NETWORKING: Coffee with Colleagues - Come See New and Old Friends**

10:00 am – 11:00 am **Scientific Session 4 - Deep Venous Disease II**  
*Moderators: Patrick Muck, Alessandra Puggioni*

10:00 am Introduction

10:01 am (AVF44) Deciphering the Enigma of Renal Vein Compression (Nutcracker Syndrome)  
**Allison Mackenzie<sup>1</sup>**, Harold Waller<sup>2</sup>, Julianne Stoughton<sup>2</sup>  
<sup>1</sup>Tufts University, Medford, MA, USA, <sup>2</sup>Massachusetts General Hospital, Boston, MA, USA

10:07 am (AVF45) Pregnancy After Iliac Vein Stenting for Pelvic Venous Insufficiency  
**Matthew Wise<sup>1,2</sup>**, Gaurav Lakhanpal<sup>1</sup>, Theresa Soto<sup>1,2</sup>, Zoe Deol<sup>1,2</sup>, Rick Kennedy<sup>1</sup>, Sanjiv Lakhanpal<sup>1,2</sup>, Peter Pappas<sup>1,2</sup>  
<sup>1</sup>Center for Vascular Medicine, Greenbelt, MD, USA, <sup>2</sup>Center for Vein Restoration, Greenbelt, MD, USA

10:13 am (AVF46) Technical Considerations of Iliocaval Venous Anomalies During Vein Stenting  
**Julio Ramos**, Akila Pai, Halbert Bai, Scott Safir, Sung Kim, Michael Marin, Peter Faries, Windsor Ting, Vascular Surgery Department at Mount Sinai Hospital, New York, NY, USA

10:19 am (AVF47) Early Thrombosis After Iliac Stenting for Venous Outflow Occlusion is Related to Disease Severity and Type of Post-stenting Anticoagulation  
**William Marston**, Kathleen Iles, Sydney Browder, Anna Griffith  
University of North Carolina School of Medicine, Chapel Hill, NC, USA

10:25 am (AVF48) Novel Therapy for Recanalization of Chronic Iliocaval Venous Occlusion Using Radiofrequency  
**Evan Neville**, Brent Robertson, L. Graham Rucker, Brian Kuhn, Aaron Kulwicki, Mark Broering, Matthew Recht, Patrick Muck Trihealth - Good Samaritan and Bethesda North Hospital, Cincinnati, OH, USA

10:31 am (AVF49) Initial Experiences with Venovo Dedicated Venous Stent: Post Market Approval Findings and Results in a Tertiary Referral Center  
**Brent Robertson**, Evan Neville, Louis Rucker, Joshua Hernandez, Josh Meredith, Angie Fellner, Mark Broering, Brian Kuhn, Aaron Kulwicki, Matthew Recht, Patrick Muck Trihealth Inc – Good Samaritan and Bethesda North Hospitals, Cincinnati, OH, USA

10:37 am **LIVE Q&A**

11:00 am – 11:05 am **BREAK**

11:05 am – 11:40 am **D. Eugene Strandness, Jr, MD Lecture: The Rise, Fall, and Rise Again of Ultrasound Guided Foam Sclerotherapy (UGFS) for the Treatment of Lower Limb Superficial Venous Disease** *Professor Andrew W Bradbury - University of Birmingham, UK*

11:40 am – 11:45 am **BREAK**

11:45 am – 12:15 pm **Industry Symposia**



# ANNUAL MEETING

## FRIDAY, MARCH 19, 2021 (EDT/UTC-4) *continued*

12:15 pm – 12:20 pm **BREAK**

**12:20 pm – 1:50 pm President's Session** *Chair: Harold Welch*

12:20 pm Introduction

12:21 pm 2019 JOBST Grant Presentation *Andrea Obi*

12:27 pm 2020 JOBST Grant Presentation *Eri Fukaya*

12:33 pm Distinguished Fellows Award *Harold Welch*

12:38 pm Founders Award *Harold Welch*

12:43 pm Update on the Journal of Vascular Surgery – Venous and Lymphatic Disorders  
*Peter Lawrence*

12:47 pm VQI Report *Michael Dalsing*

12:52 pm Health Policy Update *Mark lafrati*

1:00 pm The American Venous Forum, American Vein and Lymphatic Society and the Society for Vascular Medicine Delphi Consensus on Lymphedema *Fedor Lurie*

1:10 pm President's Introduction *Antonios Gasparis*

1:20 pm LIVE Presidential Address *Harold Welch*

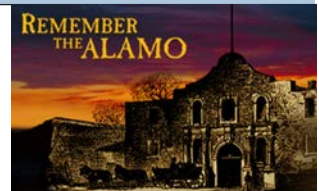
**1:50 pm – 1:55 pm BREAK**

**1:55 pm – 2:55 pm LIVE AVF Member Business Meeting**

**3:00 pm – 3:30 pm Industry Symposia**

**7:00 pm – 8:00 pm REMEMBER THE ALAMO**  
**DRINKS • DRESS • DRAMA**

Join your fellow members with a drink,  
western dress and drama we have planned







# ANNUAL MEETING

## SATURDAY, MARCH 20, 2021 (EDT/UTC-4)

**9:30am – 9:55am** **LIVE NETWORKING:** Meet the Experts in the Exhibit Hall

**10:00 am – 11:00 am** **Villavicencio Symposium: Horizons of Venous Disease Management: What Critical Therapies Do We Need to Take Patient Care to the Next Level?**  
*Moderator: William Marston*

10:00 am Introduction of Dr. Villavicencio *William Marston*

10:05 am Superficial Venous Disease  
*Panelists: Steve Elias, Kellie Brown, Thomas O'Donnell*

10:20 am Pelvic Venous Reflux and Obstruction  
*Panelists: Anthony Gasparis, Ron Winokur, Gloria Salazar, Kush Desai*

10:35 am Lower Extremity Deep Venous Reflux and Obstruction  
*Panelists: William Marston, Tony Comerota, Erin Murphy*

**10:50 am** **LIVE Q&A**

**11:00 am – 11:05 am** **BREAK**

**11:05 am – 12:05 pm** **Scientific Session 5 – Superficial Venous Disease**  
*Moderators: Julianne Stoughton, Eric Hager*

11:05 am Introduction

11:06 am (AVF50) Correlation Between Great Saphenous Vein Diameter, Length of Treatment Zone with Improvement in Symptoms Post-Ablation  
*Robert Attaran, Aneil Bhalla, Carlos Mena-Hurtado, Cassius Ochoa-Chaar*  
*Yale School of Medicine, New Haven, CT, USA*

11:12 am (AVF51) Role of the Dermal-Subdermal Plexus in Venous Leg Ulcer  
*Alvaro Orrego<sup>1,2</sup>*  
*<sup>1</sup>University of San Salvador, Santiago, Chile, <sup>2</sup>Laser&Veins, Vina del Mar, Chile*

11:18 am (AVF52) Sclerotherapy as a Safe and Valuable Method of Treatment of Incompetent Veins on Foot and Ankle  
*Aleksandra Jaworucka-Kaczorowska, Center of Phlebology and Aesthetic Medicine, Gorzów Wlkp, Poland*

11:24 am (AVF53) Recanalization in Older Patients with Endovenous Thermal Ablation  
*Ahmad Alsheekh, Taqwa Ahmed, Pavel Kibrik, Anil Hingorani, Enrico Ascher,*  
*Total Vascular Care, Brooklyn, NY, USA*

11:30 am (AVF54) Percutaneous Cyanoacrylate Sandwich Technique Combined With Segmental Sclerotherapy for Very Superficial Vein Treatments  
*Naoki Sakakibara<sup>1</sup>, Rie Yagi<sup>1,2</sup>, Tomohiro IMAI<sup>3</sup>, Kan Kajimoto<sup>2</sup>, Atsushi Amano<sup>2</sup>*  
*<sup>1</sup>Edogawa Hospital-Tokyo, Edogawa Ward, Japan, <sup>2</sup>Juntendo University-Tokyo, Bunkyo Ward, Japan, <sup>3</sup>Tokyo Vascular & Vein Clinic-Tokyo, Bunkyo Ward, Japan*

11:36 am (AVF55) Safety Issues Identified During IAC Vein Center Site Visits  
*Laura Humphries<sup>1</sup>, Mary Farrell<sup>1</sup>, Mark Meissner<sup>2</sup>*  
*<sup>1</sup>Intersocietal Accreditation Commission, Ellicott City, MD, USA, <sup>2</sup>University of Washington, Seattle, WA, USA*



# ANNUAL MEETING

## SATURDAY, MARCH 20, 2021 (EDT/UTC-4) *continued*

11:42 am **LIVE Q&A**

11:05 am - 11:50 am **Concurrent Session: EVF/AVF Joint Session**  
*Moderator: Brajesh Lal, Dominik Heim*

11:05 am Anticoagulation For Venous Thrombosis: State-Of-The-Art In 2021 *Stavros Kakkos*

11:12 am Latest Perspectives on Early Thrombus Removal for Lower and Upper Extremity DVT  
*Manjit Gohel*

11:19 am Duplex Scan Criteria at the Groin for Detecting Proximal Iliac Venous Obstruction  
*Elna Masuda*

11:26 am Updated 2021 Protocol for Comprehensive Evaluation and Treatment of Venous Disease in CEAP Clinical Class 6 Patients *William Marston*

11:33 am **LIVE Q&A**

12:05 pm – 12:10 pm **BREAK**

12:10 pm – 12:40 pm **Industry Symposia**

12:40 pm – 12:45 pm **BREAK**

12:45 pm – 1:45 pm **Scientific Session 6 – Lymphedema and Contemporary Venous Care**  
*Moderators: Mikel Sadek, Lori Pounds*

12:45 pm Introduction

12:46 pm (AVF56) Seasonal Variation in Swelling of Lower Extremities in Patients with CVI  
*Maria Santa Cruz, Anil Hingorani, Natalie Marks, Enrico Ascher, Elona Poltiyelova, Nikita Singh*  
*Total Vascular Care, Brooklyn, NY, USA*

12:52 pm (AVF58) Evaluation the Subclinical Stage (stage 0) of Secondary Lymphedema after Axillary Lymph Node Dissection Using Near Infrared Fluorescent Imaging  
*Miguel Amore, Fernando Dip, Sofia Salvia, Military Hospital, Buenos Aires, Argentina*

12:58 pm (AVF59) Ultrasound Guided Foam Sclerotherapy of Insufficient Perforator Veins In Patients With Severe Chronic Venous Disease  
*Fanny Rodriguez Santos, Victoria Loson, Agustin Coria, Mariana Dotta, Carolina Marque Fosser, Roxana Katsini, Hernan Bauza Moreno, Hugo Martinez*  
*Phlebology Unit, General Surgery Department. Hospital Italiano de Buenos Aires, Buenos Aires, Argentina*

1:04 pm (AVF60) A Single-Center Experience of Anterior Accessory Saphenous Vein Endothermal Ablation Demonstrates Safety and Efficacy  
*John Charitable<sup>1</sup>, Giancarlo Speranza<sup>2</sup>, Caron Rockman<sup>1</sup>, Glenn Jacobowitz<sup>1</sup>, Lowell Kabnick<sup>3</sup>, Karan Garg<sup>1</sup>, Michael Barfield<sup>1</sup>, Thomas Maldonado<sup>1</sup>, Todd Berland<sup>1</sup>, Neal Cayne<sup>1</sup>, Mikel Sadek<sup>1</sup>*  
*<sup>1</sup>NYU Langone Health, New York, NY, USA, <sup>2</sup>New York University Grossman School of Medicine, New York, NY, USA, <sup>3</sup>Kabnick Vein Center, Morristown, NJ, USA*

1:10 pm (AVF61) Qualitative Assessment of Online Patient Resources for Pulmonary Embolism and Deep Vein Thrombosis  
*Preston Tolbert<sup>1</sup>, Zachary Harbin<sup>1</sup>, Wesley Clothier<sup>1</sup>, John Treffalls<sup>1</sup>, Qi Yan<sup>1,2</sup>, Mark, Davies<sup>1,2</sup>*  
*<sup>1</sup>University of Texas Health Science Center at San Antonio, San Antonio, TX, USA, <sup>2</sup>South Texas Medical Center, San Antonio, TX, USA*





# ANNUAL MEETING

## SATURDAY, MARCH 20, 2021 (EDT/UTC-4) *continued*

**1:16 pm LIVE Q&A**

**12:45 pm - 1:30 pm Concurrent Session: SVM/AVF Joint Session Moderator: John Fish**

12:45 pm COVID-19 Related Venous Thrombosis *Yogendra Kanthi*

12:51 pm Obesity and Phlebolympheidema: What's the Connection? *Steven Dean*

12:57 pm Challenges in Cancer-Associated Thrombosis *Ana Casanegra*

1:03 pm Non-Vascular Causes of Extremity Edema *Marcus Stanbro*

1:09 pm Thrombosis Prophylaxis in COVID-19 Positive Patients *John Fish*

1:15 pm Who, What and When? The Basics of Thrombophilia Workup *Drew Oostra*

**1:21 pm LIVE Q&A**

**1:30 pm - 1:35 pm BREAK**

**1:35 pm - 2:20 pm Concurrent Session: The National Venous Registry and Quality Control SVS/AVF Joint Session Moderator: Marc Passman**

1:35 pm SVS/AVF Venous VQI and Quality Update *Marc Passman*

1:40 pm Varicose Vein Registry Update *Nicholas Osborne*

1:47 pm IVC Filter Update *Antonios Gasparis*

1:54 pm Venous Stent Registry Update *William Marston*

2:00 pm Venous RAC Update and Research Priorities *Nicholas Osborne*

**2:10 pm LIVE Q&A**

**1:45 pm - 1:50 pm BREAK**

**1:50 pm - 2:50 pm Scientific Session 7 - VTE**  
*Moderators: Antonios Gasparis, Efthymios "Makis" Avgerinos*

1:50 pm Introduction

1:51 pm (AVF62) Risk of Deep Venous Thrombosis with the Use of Foamed Sclerosant for Symptomatic Superficial Venous Insufficiency  
*Patrick Beyer<sup>1</sup>, Thekla Bacharach<sup>2</sup>, Anand Dayama<sup>2</sup>, Jean Panneton<sup>2</sup>, David Dexter<sup>2</sup>*  
<sup>1</sup>Naval Medical Center Portsmouth, Portsmouth, VA, USA, <sup>2</sup>Eastern Virginia Medical School, Norfolk, VA, USA

1:57 pm (AVF63) Elevated Plasma Factor VIII Levels in Patients with Venous Thromboembolism  
*Taimur Saleem, Brandi Burr, Jerad Robinson, Kristen Degelman, Jenna Stokes*  
The Rane Center for Venous and Lymphatic Diseases, Jackson, MS, USA

2:03 pm (AVF64) Advanced Age is an Independent Predictor of Inferior Vena Cava Filter Non-Retrieval  
*Anthony Grieff, Charles Hamilton, Alexander Malanowski, Huong Truong, John Noshier, William Beckerman*, Rutgers Robert Wood Johnson School of Medicine, New Brunswick, NJ, USA

2:09 pm (AVF65) Pulsatile Phlebitis Due to Micro Arteriovenous Communications  
*Takaya Murayama*  
Kannai Medical Clinic, Yokohama, Japan



# ANNUAL MEETING

## SATURDAY, MARCH 20, 2021 (EDT/UTC-4) *continued*

2:15 pm (AVF66) Discordant aPTT and Anti-Xa Values More Common than Realized in Hospitalized Patients Treated with Intravenous Unfractionated Heparin  
**Hanna Sams<sup>1</sup>**, Joann Lohr<sup>2</sup>, Fonda Wilkins<sup>2</sup>, Jonathan Sexton<sup>2</sup>  
<sup>1</sup>Prisma Health/University of South Carolina, Columbia, SC, USA, <sup>2</sup>William Jennings Bryan Dorn VA Medical Center, Columbia, SC, USA

2:21 pm (AVF67) Radiation-related Iliofemoral Venous Obstruction: Recanalize with Caution  
**William Sherk**, Minhaj Khaja, Xhorlina Marko, David Williams  
University of Michigan-Michigan Medicine, Ann Arbor, MI, USA

**2:27 pm LIVE Q&A**

**2:25 pm - 3:10 pm Concurrent Session: AVLS Session: Rethinking Pelvic Venous Disorders**  
Moderator: **Mark Meissner**

2:25 pm Pelvic Venous Disorders: Clinical Presentation, Anatomy and Hemodynamics  
**Mark Meissner**

2:32 pm The SVP Instrument for Classification of Pelvic Venous Disorders  
**Kathleen Gibson**

2:39 pm Pelvic Venous Reflux - Why Isolated Left Ovarian Embolization is Often Not Enough  
**Ronald Winokur**

2:46 pm Neuropsychological Aspects of Chronic Pelvic Pain: An Explanation for the Confusing Clinical Presentation **Neil Khilnani**

2:53 pm Venous Origin Pelvic Pain: The Pelvic Pain Specialists View **Diana Atashroo**

**3:00 pm LIVE Q&A**





## POSTERS

- POSTER 01** **Right-Sided Heart Function and Venous Leg Ulcers; An Ultrasound Single Center Study**  
*Alejandro Pizano, Hunter Ray, Rendy Shaw, Quan Ma, Stuart Harlin*  
Department of Cardiothoracic and Vascular Surgery, McGovern Medical School, University of Texas Health Science Center at Houston, Houston, TX, USA
- 
- POSTER 02** **Prevention of Thromboembolic Events in Phlebology**  
*Roxana Katsini, Sr., Carolina Marquez Fosser, Sr., Agustin Coria, Jr., Fanny Rodriguez Santos, Sr., Maria Victoria Loson, Jr., Mariana Dotta, Sr., Hernan Bauza Moreno, Sr., Carlos Pared, Sr., Hugo Martinez, Sr.*  
Hospital Italiano de Buenos Aires, CABA, Argentina
- 
- POSTER 03** **Early Results with a New Endovenous Radio-Frequency Ablation Catheter**  
*Gennady Vulakh, Anil Hingorani, Enrico Ascher, Natalie Marks*  
Total Vascular Care, Brooklyn, NY, USA
- 
- POSTER 04** **Moving-Shot Radiofrequency Ablation of Peripheral Vascular Malformations**  
*Zafer Coskun, Üniversite of Health Sciences Istanbul, Istanbul, Turkey*
- 
- POSTER 05** **Occlusion Rate of Great Saphenous Vein after Hybrid Treatment with Endovascular Laser Ablation and Foam Sclerotherapy**  
*Valentin Figueroa, Jorge H. Ulloa, Nevianni Velez, Nicolas Suarez*  
Universidad de los Andes, Fundacion Santa Fe, Bogota, Colombia
- 
- POSTER 06** **Pulmonary Embolism or in situ Pulmonary Thrombosis After Hybrid Treatment with Endovascular Laser Ablation and Foam Sclerotherapy: Case Report.**  
*Sebastian Cifuentes, Valentin Figueroa, Jorge Ulloa, Jose Ordoñez, Ana Montenegro, Universidad de los Andes, Fundacion Santa Fe, Bogota, Colombia*
- 
- POSTER 07** **Takotsubo Syndrome induced by Sclerotherapy with Polidocanol: A Case Report**  
*Paula Pinto, Sebastian Cifuentes, Jorge Ulloa, Ana Montenegro*  
Universidad de los Andes, Fundacion Santa Fe, Bogota, Colombia
- 
- POSTER 08** **A Case of Allergic Reaction of Venaseal Closure for the Treatment of Superficial Venous Insufficiency**  
*Mitsumi Yamashita*  
Murayama Clinic, Yokohama, Japan
- 
- POSTER 09** **Venous Thromboembolism in a Patient with an Uncommon Etiology of May-Thurner Syndrome**  
*Giancarlo Speranza<sup>1</sup>, Eric Hager<sup>2</sup>*  
<sup>1</sup>New York University Grossman School of Medicine, New York, NY, USA, <sup>2</sup> University of Pittsburgh Medical Center, Pittsburgh, PA, USA
- 
- POSTER 10** **Femoral Vein Excision Without Reconstruction: A Case Report**  
*Ugur Bengisun, Yusuf Yildiz, Arda Cetinkaya*  
University of Ankara, Ankara, Turkey
- 
- POSTER 11** **Repair of Common Femoral Artery to Femoral Vein Arteriovenous Fistula with Pseudoaneurysm In a Patient with Chronic Heart Failure**  
*Andy Wang<sup>1,2</sup>, Ali Al Jabri<sup>1</sup>, Edward Jewell<sup>1</sup>, Angela Jellison<sup>1</sup>*  
<sup>1</sup>Lahey Hospital & Medical Center, Burlington, MA, USA, <sup>2</sup>Tufts University School of Medicine, Boston, MA, USA





## POSTERS

- POSTER 12** **Outcomes of Catheter-based Interventions in Acute Pulmonary Embolism**  
*Rafael Cires-Drouet, Khanjan Nagarsheth, Shahab Toursavadkahi, David Kaczorowski, Ronson Madathil, Kevin Jones, Steven Liskov, Jeffrey Fitch, Michelle Sayad, Chetan Pasrija, Minerva Mayorga-Carlin, Daniel Herr, John Sorkin, Barthley Griffith, James Gammie, Brajesh Lal*  
University of Maryland - Baltimore, Baltimore, MD, USA
- 
- POSTER 13** **Sensitivity and Specificity of Thermal Imaging used to Detect Superficial Venous Incompetence**  
*David Wright<sup>1</sup>, Ariel Soffer<sup>2</sup>* <sup>1</sup>USA Therm Inc, Henley on Thames, United Kingdom, <sup>2</sup>Soffer Health, Aventura, FL, USA
- 
- POSTER 14** **True Right Sided May Thurner's Does Exist**  
*Hanna Sams<sup>1</sup>, Joann Lohr<sup>2</sup>*  
<sup>1</sup>Prisma Health/University of South Carolina, Columbia, SC, USA, <sup>2</sup>William Jennings Bryan Dorn VA Medical Center, Columbia, SC, USA
- 
- POSTER 15** Withdrawn
- 
- POSTER 16** **Management of Venous Thoracic Outlet Syndrome**  
*Adrian Santini<sup>1</sup>, Mike Broce<sup>2</sup>, Albeir Mousa<sup>3</sup>*  
<sup>1</sup>Charleston Area Medical Center, Integrated Vascular Surgery, Charleston, WV, USA, <sup>2</sup>Charleston Area Medical Center Center for Health Education and Research Institute, Charleston, WV, USA, <sup>3</sup>Robert C. Byrd Health Sciences Center/West Virginia University Charleston Area Medical Center, Vascular Center of Excellence, Charleston, WV, USA
- 
- POSTER 17** **Iatrogenic Central Venous Occlusion**  
*Hanna Sams<sup>1</sup>, Joann Lohr<sup>2</sup>, Amitesh Verma<sup>3</sup>, Anil Verma<sup>4</sup>*  
<sup>1</sup>Prisma Health/University of South Carolina, Columbia, SC, USA, <sup>2</sup>William Jennings Bryan Dorn VA Medical Center, Columbia, SC, USA, <sup>3</sup>Indian Hill High School, Cincinnati, OH, USA, <sup>4</sup>Mercy Health, Cincinnati, OH, USA
- 
- POSTER 18** **Elevated Inflammatory Markers May Inform Extent of Intervention in Venous Thoracic Outlet Syndrome Patients**  
*Christopher Audu<sup>1</sup>, Xhorlina Marko<sup>2</sup>, Minhajuddin Khaja<sup>3</sup>, Chandu Vemuri<sup>1</sup>*  
<sup>1</sup>Section of Vascular Surgery, University of Michigan, Ann Arbor, MI, USA, <sup>2</sup>Section of Vascular Interventional Radiology, University of Michigan, Ann Arbor, MI, USA, <sup>3</sup>Vascular and Interventional Radiology, University of Virginia, Charlottesville, VA, USA
- 
- POSTER 19** **Cyst – Venous Anastomosis for the Treatment of Recurrent Cervical Chylous Cyst**  
*Miguel Amore, Fernando Dip, Sofia Salvia*  
Military Central Hospital, Buenos Aires, Argentina
- 
- POSTER 20** **Long-term Mortality of TrapEase Filter versus Greenfield Filter**  
*Ahmad Alsheekh, Alice Wang, Pavel Kibrik, Anil Hingorani, Enrico Ascher*  
Total Vascular Care, Brooklyn, NY, USA



## *Distinguished Fellows*

Dr. Jose Almeida  
Dr. John Blebea  
Dr. Ruth L Bush  
Dr. Patrick Carpentier  
Dr. Rabih Chaer  
Dr. Anthony James Comerota  
Dr. Michael C. Dalsing  
Dr. Alun Davies  
Dr. Jose Antonio Diaz  
Dr. Steve Elias  
Dr. Antonios Gasparis  
Dr. Kathleen Gibson  
Dr. Monika Gloviczki  
Dr. Peter Gloviczki  
Dr. Edmund John Harris, Jr.  
Dr. Anil Hingorani  
Dr. Glenn Jacobowitz  
Dr. Lowell Kabnick  
Dr. Manju Kalra  
Dr. Lois Killewich  
Dr. Soohyun Kim  
Dr. Brajesh Lal  
Dr. Joann Lohr  
Dr. Fedor Lurie  
Dr. William Marston  
Dr. Elna Masuda  
Dr. Robert McLafferty  
Dr. Mark Meissner  
Dr. Robert F. Merchant  
Dr. Daniel Monahan\*  
Dr. Gregory Moneta  
Dr. Nick Morrison  
Dr. Patrick Muck  
Dr. Daniel Myers, Jr.  
Dr. Thomas Francis O'Donnell, Jr.  
Dr. Alvaro Orrego  
Dr. Kathleen Ozsvath\*  
Dr. Peter James Pappas  
Dr. Marc Passman  
Dr. Lori Pounds\*  
Dr. Alessandra Puggioni  
Dr. Joseph Raffetto  
Dr. Seshadri Raju  
Dr. Viktor Rapovka  
Dr. John E. Rectenwald  
Dr. Michael Ricci  
Dr. Thom Rooke  
Dr. Marlin Schul  
Dr. Julianne Stoughton\*  
Dr. Windsor Ting\*  
Dr. Ramesh Tripathi  
Dr. Jorge H. Ulloa  
Dr. Andre M. van Rij\*  
Dr. Michael Vasquez  
Dr. Suresh Vedantham  
Dr. Thomas Wakefield  
Dr. Harold J. Welch  
Dr. Takashi Yamaki

*\* Distinguished Fellow Bestowed in 2021*





## PHYSICIAN - NATIONAL

Ramsey Al-Hakim  
Laith Alsayegh  
Rachel Anolik  
Chompunut Asavaaree  
Ulises Baltazar  
Simpledeep Banipal  
Christina Boyd  
John Braun  
Blaze Cook  
Paul Corcoran  
Brian Davison  
Angela Diamond  
Jennifer Engle  
Jason Gilster  
Samuel Goldhaber  
Jessica Green  
Todd Hansen  
Brian Hoang  
James Holzheuer  
Angela Jellison  
Minhaj Khaja  
Raffi Krikorian  
Julie Lahiri  
Michael Levy  
Kristyn Mannoia  
Thomas McCrorey  
Jamil Muasher  
Zack Nash  
Jerald Ostvig  
Christopher Paprzycki  
Bruce Rank  
Gloria Salazar Salazar  
Natalie Sridharan  
John Taggert  
Daniel Tarver  
Son Ha Yu  
Barry Zadeh

## PHYSICIAN - INTERNATIONAL

Aljabriyah Alfutais  
Yuji Hoshino  
Hector Pietravallo  
Matthew Rochon

## ALLIED HEALTH

Lisa Anderson  
Ali Baghaie  
Allison Bailey  
Chandrika Lotwala  
Rachelle Ramirez

## MEMBER-IN-TRAINING

Tom Alsaigh  
Viswanath Atreyapurapu  
Constanasa Azevedo  
Lenka Bajuzikova  
Leonor Baldaia  
Joedd Biggs  
Anand Brahmandam  
Daniel Carregal  
Vishnu Chandra  
Heepeel Chang  
Mohsin Chowdhury  
Hanaa Dakour Aridi  
D Temesgen Andualem Desta  
Antonio Duarte  
Fayazuddin Fayazuddin  
Valentin Figueroa  
Carlos Flores  
Diego Flores  
Simon Fraser  
Ritesh Gaikawad  
Eric Goldschmidt  
Anthony Grieff  
Henrique Guedes da Rocha  
Poonam Gupta  
Paul Hanna  
Mickael Henriques  
Joel John  
Elston Johnson  
Lily Johnston  
Joicy Jojo  
Humberto Juarez  
Ahmad Kattan  
Sai Kottapalli  
Lucia Kubikova  
Arun Kumar





**MEMBER-IN-TRAINING** *Continued*

Ranjith Kumar  
Angela Lee  
Maria victoria Loson  
Charles Lucas  
Luv Luthra  
Daniela Machado  
Narelle Magloire  
Reid Mahoney  
Sriram Manchikanti  
Roberto Meza Aguilar  
Nivedita Mitta  
Fernando Motta  
Hermiton Moura  
Stefan Munka  
Arnab Nandy  
Sindiswa Ntloko  
Celso Nunes  
Adharsh Kumar Maruthu Pandian  
Ahmed Pasha  
Ronak Patel  
Matthew Pergamo  
Jordan Pollack  
Jathin Rai  
Harishankar Ramachandran Nair  
Ricardo Ribeiro  
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David Ritz  
Limael Rodriguez  
Sebastián Saavedra  
Nupur Sarkar  
Nazish Sayed  
Kristin Schafer  
Jithin Sebastian  
Pratiksha Shah  
Sawan Sharma  
Sriganesh Sharma  
Katherine Shreyder  
Eduardo Silva  
Devendra Singh  
Raghvendra Singh  
Edvard Skripochnik

Kirolus Sourial  
A Srinivasan  
Pramod Theetha Kariyanna  
Georval Victorin  
Harold Waller  
Yang Yang  
Christopher Yeisley  
Enming Yong

**MEDICAL STUDENTS**

Shahnur Ahmed  
Zaid Ahmed  
Mark Awad  
Kirthi Bellamkonda  
Javier Bravo  
Shin Mei Chan  
Jaineet Chhabra  
Juan Cifuentes  
Magdelyn German  
Volodymyr Herasymov  
Kathleen Hibler  
Amrit Hingorani  
Jordan Icton  
Shivam Kaushik  
Aoi Ogawa  
Jose Ordonez  
Julio Ramos  
Hayley Reddington  
Nikita Singh  
Giancarlo Speranza



# BENEFITS OF MEMBERSHIP

LEARN MORE



**American Venous Forum**  
Promoting venous and lymphatic health



AMERICAN VENOUS FORUM  
FOUNDATION  
Healthy Veins for Healthy Life

## EDUCATION

<b>Annual Meeting</b>	Receive substantial registration discounts and CME credits
<b>Journal of Vascular Surgery – Venous and Lymphatic Disorders</b>	Receive the AVF journal in print (US only) and online
<b>Fellows and Early Career Courses</b>	Attend didactic and hands on workshops to improve knowledge and skills
<b>Patient Education Materials</b>	Provide up-to-date educational materials to patients and families
<b>Annual Meeting Video Library</b>	Access the latest content from world-renowned venous practitioners

## LEADERSHIP AND PROFESSIONAL DEVELOPMENT

<b>Committees, Writing Groups and Editorial</b>	Serve as leaders of the AVF and have a voice in the advancement of the profession
<b>Career Center</b>	Find practice opportunities and post job openings

## RESEARCH, QUALITY AND CLINICAL PRACTICE IMPROVEMENT

<b>Clinical Practice Guidelines</b>	Help develop and access the latest guidelines
<b>AVF EXCHANGE</b>	Access an exclusive online community to exchange technical and clinical information to advance knowledge and practice
<b>AVF-Jobst Research Award</b>	Eligibility for the largest vascular research grant available to young researchers in the field
<b>AVF-NIH/NHLBI Research Award</b>	A unique research collaboration available to early researchers in venous and lymphatic disease
<b>Vascular Quality Improvement (VQI)</b>	Provide quality improvement data and access a national registry in venous stents, IVC filters and varicose veins
<b>C-TRACT Trial</b>	Participate as an investigator and enroll patients in a national clinical trial

## PUBLICATIONS AND NEWS

<b>VEIN SPECIALIST – the Monthly Electronic Newsletter of the AVF</b>	Written by AVF members, receive timely and relevant news about the AVF
<b>Website</b>	Access information and resources to support your practice and patients

## ADVOCACY

<b>Inter-society Collaboration</b>	Represent the AVF with organizations to help advance the brand and mission of the AVF
<b>Find a Vein Specialist</b>	Remain visible to patients, the public and health care practitioners in search of venous experts

## NETWORKING AND SOCIALIZATION

<b>Annual Meeting, Fellows Courses, Receptions</b>	Network and establish lifelong friendships with your peers and leaders in the field
--	---

## AVF FOUNDATION

<b>Investments in Research, Education, and Clinical Practice</b>	Contribute your time and treasures to advance the field of venous and lymphatic disease
--	---





# Healthy Veins for Healthy Life

AMERICAN VENOUS FORUM FOUNDATION

## The 4 Pillars of Healthy Veins for Healthy Life

To Educate is to Empower

New Knowledge Improves Lives

Advocate for Access

Empower and Enable Vein Care to Improve  
Quality of Life and Reduce Disability

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

*We applaud these Vision Partners who have demonstrated their commitment to venous and lymphatic health through their generous support of Healthy Veins for Healthy Life and the AVF Foundation!*

### Advocate

**Engineered  
for Venous**

**Boston Scientific**  
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**EKOS™**  
Endovascular  
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System

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(Polidocanol  
Injectable Foam) 1%

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**Tactile**  
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# VENOUS 2021

AMERICAN VENOUS FORUM

MARCH 17-20, 2021 (EDT/UTC-4)  
MONTHLY DIGITAL NEWSLETTER

**American Venous Forum**  
Promoting venous and lymphatic health

**VEIN SPECIALIST NEWSLETTER**  
Hands-Off Issue

January 2020 | [veinforum.org](http://veinforum.org)

**American Venous Forum**  
Promoting venous and lymphatic health

**VEIN SPECIALIST NEWSLETTER**  
Compression Issue

February 2020 | [veinforum.org](http://veinforum.org)

**American Venous Forum**  
Promoting venous and lymphatic health

**VEIN SPECIALIST NEWSLETTER**  
Annual Meeting Highlights Issue

March 2020 | [veinforum.org](http://veinforum.org)

**American Venous Forum**  
Promoting venous and lymphatic health

**VEIN SPECIALIST NEWSLETTER**  
Annual Meeting Highlights Issue Part II

April 2020 | [veinforum.org](http://veinforum.org)

**American Venous Forum**  
Promoting venous and lymphatic health

**VEIN SPECIALIST NEWSLETTER**  
Pandemic Perspectives: Personal Stories from your AVF Colleagues

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**VEIN SPECIALIST NEWSLETTER**

**VEIN SPECIALIST NEWSLETTER**  
Advocacy Issue

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**VEIN SPECIALIST NEWSLETTER**

**VEIN SPECIALIST NEWSLETTER**  
Partners in care

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How to get paid for what you do

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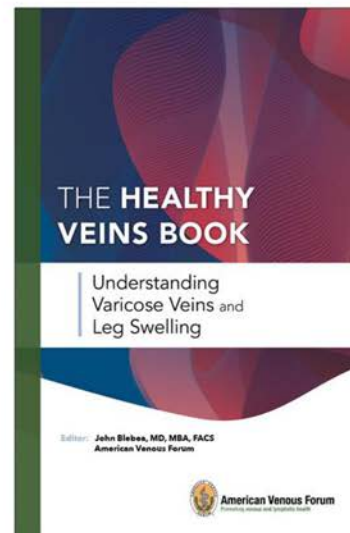
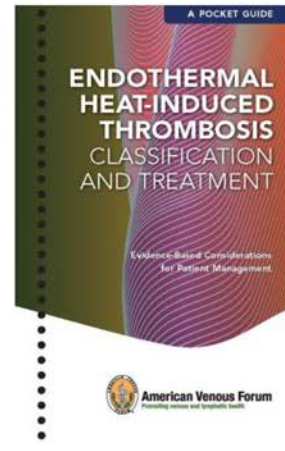
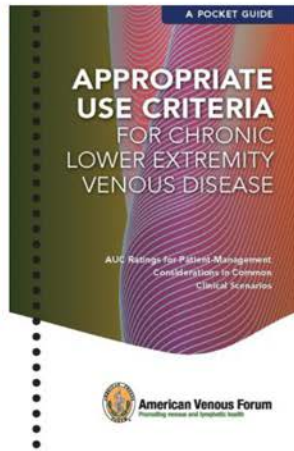
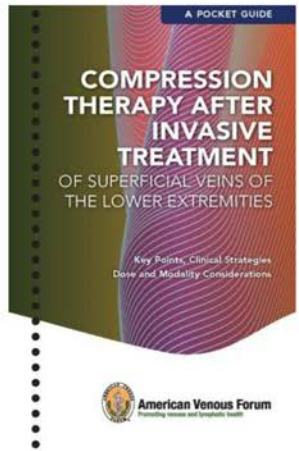


American Venous Forum



veinforum.org





3 pocket guides, 5 patients brochures, 6 informed consent forms and The Healthy Veins Book for patients.



## ADVOCACY

The American Venous Forum is committed to promoting evidence-based best practices to ensure that patients have access to the highest quality care – especially the underserved. We believe that vigorous advocacy in venous and lymphatic disease is critical to this commitment.

## AVF MEMBERSHIP

Members of the AVF contribute their time and expertise to further scientific and clinical research, educate physicians and fellows, create unique public awareness programs and provide state-of-the-art patient care for people with venous disease. Membership is open to all healthcare professionals who treat venous disease.

## MEMBERSHIP BENEFITS

## MEMBERSHIP APPLICATION CRITERIA

## CLINICAL PRACTICE GUIDELINES

Library of guidelines including recently added: EHIT, Classification of PVD, Appropriate Use Criteria, Revised CEAP, and Compression (in both English and Spanish).

## COVID-19

Late-breaking research and resources.

## FIND A VEIN SPECIALIST

Quickly search for a doctor, view a complete listing of all Vein Specialists or, if you are an AVF member physicians, activate your listing on Find a Vein Specialist.

## VEIN SPECIALIST NEWSLETTER

Complimentary, monthly digital newsletter of the American Venous Forum featuring venous and lymphatic news and information.



**94.6%**  
closure rate at 5 years<sup>1</sup>



### Cyanoacrylate Closure

#### The VenaSeal™ Closure System

delivers immediate and lasting vein closure with its proprietary medical adhesive formula.<sup>1-3</sup>

**91.9%**  
closure rate at 5 years<sup>4</sup>



### Radiofrequency Energy Closure

#### The ClosureFast™ RFA system

delivers uniform heat for lasting vein closure and is the only RFA system with published long-term clinical data demonstrating safety and efficacy, with a 91.9% closure rate at 5 years.<sup>4</sup>

# EXPERIENCE OUR CVI PORTFOLIO ADVANTAGE

**Our comprehensive CVI toolkit** empowers you to select the best approach for each patient.

Learn more at  
[Medtronic.com/CVIadvantage](https://www.Medtronic.com/CVIadvantage)



**Medtronic**  
Further. Together

## References

- <sup>1</sup> Morrison N, Gibson K, Vasquez M, et al. 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. *J Vasc Surg Venous Lymphat Disord*. March 2020;8(6):978-989.
- <sup>2</sup> Proebstle T, Alm J, Dimitri S, et al. Three-year follow-up results of the prospective European Multicenter Cohort Study on Cyanoacrylate Embolization for treatment of refluxing great saphenous veins. *J Vas Surg Venous Lymphat Disord*. Published online June 26, 2020.
- <sup>3</sup> Almeida JI, Javier JJ, Mackay EG, Bautista C, Cher DJ, Proebstle TM. Thirty-sixth-month follow-up of first-in-human use of cyanoacrylate adhesive for treatment of saphenous vein incompetence. *J Vasc Surg Venous Lymphat Disord*. September 2017;5(5):658-666.
- <sup>4</sup> Proebstle TM, Alm BJ, Göckeritz O, et al. Five-year results from the prospective European multicentre cohort study on radiofrequency segmental thermal ablation for incompetent great saphenous veins. *Br J Surg*. February 2015;102(3):212-218.

## Brief Statements

### VenaSeal™ Closure System

**Intended Use/Indications:** The VenaSeal™ closure system (VenaSeal™ system) is indicated for use in the permanent closure of lower extremity superficial truncal veins, such as the great saphenous vein (GSV), through endovascular embolization with coaptation. The VenaSeal system is intended for use in adults with clinically symptomatic venous reflux as diagnosed by duplex ultrasound (DUS).

**Contraindications:** Separate use of the individual components of the VenaSeal closure system is contraindicated. These components must be used as a system. The use of the VenaSeal system is contraindicated when any of the following conditions exist: previous hypersensitivity reactions to the VenaSeal™ adhesive or cyanoacrylates, acute superficial thrombophlebitis, thrombophlebitis migrans, acute sepsis.

**Potential Adverse Effects of the Device on Health:** The potential adverse effects (e.g., complications) associated with the use of the VenaSeal system include, but are not limited to, adverse reactions to a foreign body (including, but not limited to, nonspecific mild inflammation of the cutaneous and subcutaneous tissue), arteriovenous fistula, bleeding from the access site, deep vein thrombosis (DVT), edema in the treated leg, embolization, including pulmonary embolism (PE), hematoma, hyperpigmentation, hypersensitivity or allergic reactions to cyanoacrylates, such as urticaria, shortness of breath, and anaphylactic shock, infection at the access site, pain, paresthesia, phlebitis, superficial thrombophlebitis, urticaria, erythema, or ulceration may occur at the injection site, vascular rupture and perforation, visible scarring.

**Warnings, precautions, and instructions for use can be found in the product labeling at** <http://manuals.medtronic.com>.

**CAUTION:** Federal (USA) law restricts this device to sale by or on the order of a physician.

### ClosureFast™ RFA system Reference Statement

**IMPORTANT:** Please reference the Instructions For Use (IFU) for a complete listing of indications, contraindications, warnings and precautions, adverse effects and suggested procedure.

**CAUTION:** Federal (USA) law restricts this device to sale by or on the order of a physician.

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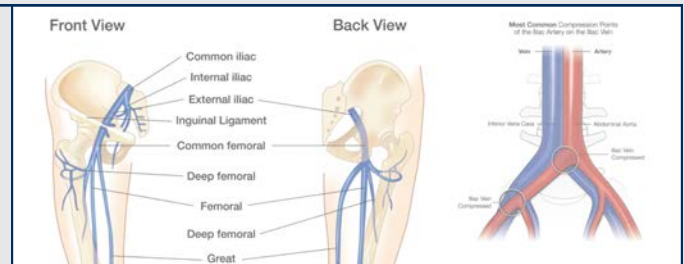
# Medtronic

# Your One-Stop Shop for Venous Disease Resources

Explaining deep venous disease to patients can be challenging. That is why BD has developed a comprehensive venous education website dedicated to venous disease with resources for patient education, including brochures, articles, videos, and other helpful items for physicians and patients.

Visit [www.bd.com/en-us/offerings/integrated-solutions/venous-technology](http://www.bd.com/en-us/offerings/integrated-solutions/venous-technology) to explore our resource center today.

## Venovo™ Venous Stent System





100% Placement Accuracy\*

0% Stent Migration\*

In the VERNACULAR Clinical Study

The Venovo™ Venous Stent is designed for optimal placement accuracy with its tri-axial delivery system and with flared ends for migration resistance.

**Venovo™**  
Venous Stent System

\* The Venovo™ Venous Stent System was studied in the global VERNACULAR clinical trial, which was a prospective, multi-center, non-randomized, single-arm study of 170 patients. The primary effectiveness endpoint of the study was primary patency (PP) at 12 months post-index procedure. The primary safety endpoint was freedom from major adverse events (MAE) through 30 days post-index procedure including embolization/migration of stent. Freedom from MAE was 93.5%, demonstrating a statistically significant difference from a literature-derived PG of 89 and zero percent stent migration. Secondary endpoints included acute technical success. Results demonstrated 100% acute technical success, defined as successful deployment of stent(s) to intended target with adequate lesion coverage as assessed by the Investigator at the time of the index procedure. VERNACULAR Clinical Study. Data on File. Bard Peripheral Vascular Inc., Tempe, AZ.

The Venovo™ Venous Stent System is indicated for the treatment of symptomatic iliofemoral venous outflow obstruction. The Venovo Venous Stent is not designed for repositioning or recapturing. **Please consult product labels and instructions for the use of indications, contraindications, hazards, warnings, and precautions.** © 2021 BD. BD, the BD logo, and Venovo are property of Becton, Dickinson and Company or its affiliates. Illustrations by Mike Austin. All Rights Reserved. Becton, Dickinson and Co. | [www.bd.com](http://www.bd.com) | 1 800 321 4254 | 1625 W. 3rd Street Tempe, AZ 85281 BD-15049





# New patterns for success

sigvaris Style MICROFIBER PATTERNS 20-30mmHg

SIGVARIS WELL BEING MICROFIBER SHADES 15-20mmHg

Sigvaris Microfiber Stripes, Argyles, Heathers, and Mini-Stripes have been best-sellers since their introduction, and we now have three new patterns for your customers: Mariner Stripe, Grey Plaid, and Black Plaid. Don't forget, all of our Style Microfiber Pattern socks are available in 20-30mmHg (six measured sizes) and our Well Being Microfiber Shades are available in 15-20mmHg (three easy-to-shop sizes). With these new pattern additions, Sigvaris is breaking out of the mold with fashionable, functional compression!

## FEATURES

- 100% microfiber next to skin for softness and excellent moisture management
- Double-covered inlay yarns for easy donning and doffing

## BEST SUITED FOR

- Management of venous insufficiency
- Long-distance travel
- Tired, heavy, restless, aching legs

## AVAILABLE COLORS & PATTERNS



## NEW PATTERNS



## sigvaris Style MICROFIBER PATTERNS

Compression Level 20-30mmHg

Sizing Chart Charte de mesures Tabla de tallas	Small Petit Pequeño	Medium Moyen Mediano	Large Grand Grande
Ankle Circumference Tour de cheville Circunferencia del tobillo	7"-8.5" (18-21.5cm)	8.5"-10" (21.5-25.5cm)	10"-11.5" (25.5-29cm)
Calf Circumference Tour du mollet Circunferencia de la pantorrilla	11"-15.5" (28-39cm)	12.5"-17.5" (31.5-45cm)	14"-20" (35.5-51cm)
Calf Length Longueur de mollet Tamaño del largo de la pantorrilla	Short Court Corto	Long Long Largo	Short Court Corto
	Long Long Largo	Short Court Corto	Long Long Largo
	≤16" (41cm)	>16" (41cm)	≤16" (41cm)
Size / Taille / Talla	SS	SL	MS
			ML
			LS
			LL

Men's Shoe Sizes | Pointure de chaussure pour hommes | Talla de zapato para hombres  
Short | Court | Corto 7-11 Long | Long | Largo 9.5-14

Product Code Example: 832CMLW48

Serie	mmHg Level	Style	Size	Gender	Color
83	2	C	ML	W	48



NEW  
MICROFIBER  
MARINER STRIPE  
&  
MICROFIBER  
BLACK PLAID

# Color Outside the Lines

## SIGVARIS WELL BEING MICROFIBER SHADES

Compression Level 15-20mmHg

Sizing Chart   Système de mesure   Tabla de medidas	Women's Shoe Pointure / Talla de zapato	Men's Shoe Pointure / Talla de zapato
143	5-7	6.5-8.5
183	7.5-9.5	9-11
	10-12	11.5-14
	Ankle Circumference Tour de la cheville / Tamaño del tobillo	Ankle Circumference Tour de la cheville / Tamaño del tobillo
	7"-9" (18-23cm)	7.5"-10" (19-25cm)
	7.5"-10" (19-25cm)	8"-10.5" (20-27cm)
	8"-10.5" (20-27cm)	8.5"-11.5" (21-29cm)
	Size / Grandeur / Talla	Size / Grandeur / Talla
	A	B
		C

Product Code Example: 143CB49

Serie	Style	Size	Color
143	C	B	49

87% Nylon, 13% Spandex

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LIT-83055 08.20

Graduated Compression  
for Men & Women





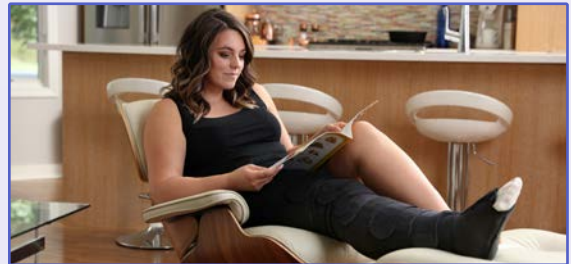


## Comfortable Day or Night

Custom Chipflow is a breathable, easy-to-apply, garment for the management of lymphedema, lipedema, and general edema. This product is patent pending.

## Features

- Custom sized Foam Liner and adjustable velcro wrap combine to form a garment that can be worn day or night
- Low profile, comfortable, channeled Foam Liner contains Chip Foam to encourage lymph fluid movement
- Unique split-ankle donning zone in Foam Liner makes slipping the Foam Liner on simple, even for patients with dexterity issues
- Stretch panel holds the velcro wrap in place over the Foam Liner while the straps are adjusted as desired
- Washable, durable, and comes with a pair of liners for skin hygiene



Channel design creates a pressure gradient to assist with lymph fluid movement



Chipflow™ Calf & Foot or Full Leg  
**LYMPHEDEMA WEAR**

# Durable symptom relief requires balance<sup>1</sup>

No longer a choice between conformability or lumen expansion<sup>1</sup>

## Zilver<sup>®</sup> Vena<sup>™</sup> VENOUS SELF-EXPANDING STENT

### Zilver<sup>®</sup> Vena<sup>™</sup> Venous Self-Expanding Stent

**CAUTION:** U.S. federal law restricts this device to sale by or on the order of a physician (or properly licensed practitioner).

**INDICATIONS FOR USE:** The Zilver<sup>®</sup> Vena<sup>™</sup> Venous Stent is indicated for improving luminal diameter in the iliofemoral veins for the treatment of symptomatic iliofemoral venous outflow obstruction.

**CONTRAINDICATIONS:** The Zilver Vena Venous Self-Expanding Stent System is contraindicated for use in:  
• Patients who are judged to have a lesion that prevents complete inflation of a balloon dilatation catheter or proper placement of the stent or the stent delivery system.  
• Patients who cannot receive intraprocedural anti-coagulation therapy.

**WARNINGS:** Nitinol (nickel-titanium) may cause allergic reactions in some patients. • The device is designed for single use only. Attempts to reprocess, re-sterilize, and/or reuse may lead to device failure and/or transmission of disease. This may also increase the risk of contamination. • Sterile if package is unopened or undamaged. Do not use the product if there is doubt as to whether the product is sterile. Inspect the product to ensure no damage has occurred. • This device is a permanent implant.

**PRECAUTIONS:** This product should only be used by physicians trained and experienced in diagnostic and interventional vascular techniques. Standard techniques for interventional vascular procedures should be employed. • Manipulation of the Zilver Vena Venous Stent requires high-resolution fluoroscopic control. • Do not use power injection systems with the delivery system. • Prior to the procedure, the patient's underlying condition should be assessed for compatibility with anticipated procedural and post-procedural antiplatelet/anticoagulation therapy. • Use in patients with a history of contrast sensitivity is not recommended unless the patient can be adequately premedicated. • Safety and effectiveness of the Zilver Vena Venous Stent for use in the arterial system has not been established. • When more than one stent is required, resulting in stent-to-stent contact, stent materials should be of similar composition to avoid the possibility of dissimilar metal corrosion. • The potential effects of phthalates on pregnant/nursing women or children have not been fully characterized and there may be concern for reproductive and developmental effects. **Stent Handling** • Do not attempt to remove the stent from the delivery system

before use. • Do not expose any part of the delivery system to organic solvents (e.g., alcohol). • Use the stent system prior to the expiration date specified on the package. **Stent Placement** • Ensure that the safety lock is not inadvertently removed prior to stent release. • Do not rotate any part of the system during deployment. • Repositioning of the device once deployment has begun (i.e., the stent markers begin to flower) is not possible because the outer sheath cannot be re-advanced over the stent. • Repositioning of the delivery system to the intended deployment location can be carried out up until the stent markers begin to flower. • If excessive resistance is felt when beginning deployment, do not force deployment. Remove the delivery system without deploying the stent and replace with a new device. • Ensure the handle remains in a stabilized position while deploying the stent. Tension to remove the slack outside the patient's body should be applied; however, do not apply excessive tension on the system as stretching of the stent may occur. • Once stent deployment has begun, the stent must be fully deployed. **Stent/System Removal** • Do not advance outer sheath after stent has been deployed. Delivery system can be removed without the need to recapture tip. **Post Implant** • Antiplatelet/anticoagulant therapy should be administered during and after procedure according to institutional standard of care. • Use caution when re-crossing a stent to avoid stent damage or migration (i.e., the use of a balloon has the potential to get caught).

**POTENTIAL ADVERSE EVENTS:** Potential adverse events that may occur include, but are not limited to, the following: • Abdominal or back pain • Abrupt stent closure • Allergic reaction to anticoagulant and/or antithrombotic therapy or contrast medium • Allergic reaction to nitinol (nickel-titanium) • Amputation • Aneurysm • Arrhythmia • Arteriovenous fistula • Bleeding associated with anticoagulation • Death • Embolism • Fever • Hematoma/hemorrhage at access site • Hypersensitivity reactions • Hypertension • Hypotension, nausea or symptoms of a vasovagal response • Infection/abscess formation at access site • Intimal injury/dissection • Myocardial infarction (MI) • Pseudoaneurysm formation • Pulmonary embolism • Renal failure • Restenosis, occlusion, or thrombosis of the stented vein • Sepsis/bacteremia • Stent malapposition • Stent migration or embolization • Stent strut fracture • Stroke • Tissue necrosis • Vasospasm • Vessel perforation/rupture • Worsened pain

See instructions for use for full product information.

AB\_IFU0091\_REV1



1. Shamimi-Noori SM, Clark TWI. (2018). Venous Stents: Current Status and Future Directions. *Tech Vasc Interv Radiol.* 2018;21(2):113-116.

EXPECT MORE.

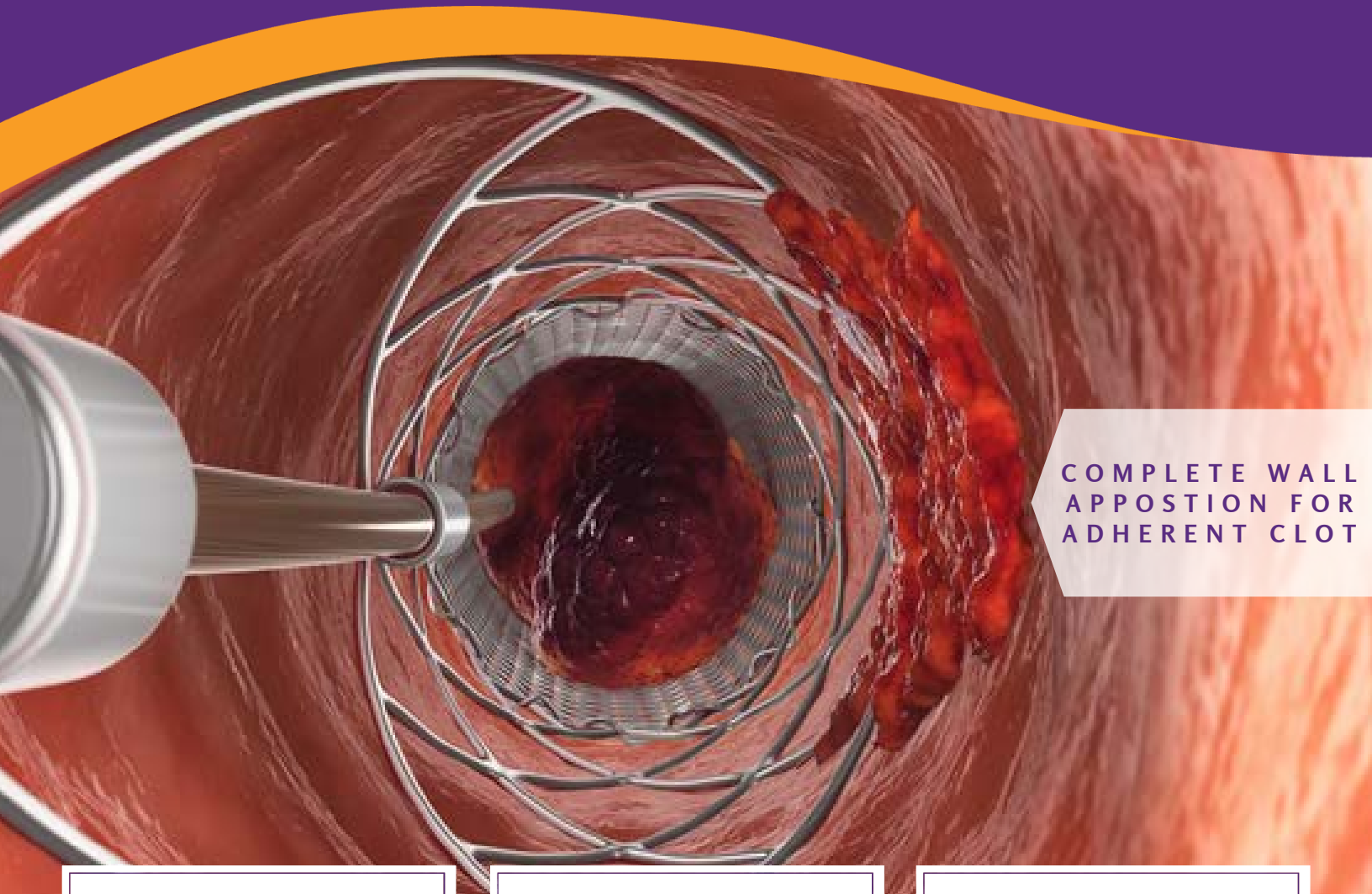
Read more about a new stent for your venous toolkit.  
[cookmedical.com/ZVenaVN](http://cookmedical.com/ZVenaVN)



# ClotTriever<sup>®</sup>

Thrombectomy System

Extracting Large Clots From Large Vessels  
without the Need for Thrombolytics



COMPLETE WALL  
APPPOSITION FOR  
ADHERENT CLOT

## CORE

Atraumatic nitinol coring element designed to lift and separate clot from the vessel wall

## COLLECT

Braided nitinol collection bag provides embolic protection

## RESTORE

90% median Marder score improvement in patients >6 week symptoms\*

### Learn more at the American Venous Forum 2021!

Saturday, March 20  
12:10pm - 12:40pm ET

Lighting the Way for Optimal VTE Treatment - TWO Late  
Breaking FLASH and CLOUT Data Releases

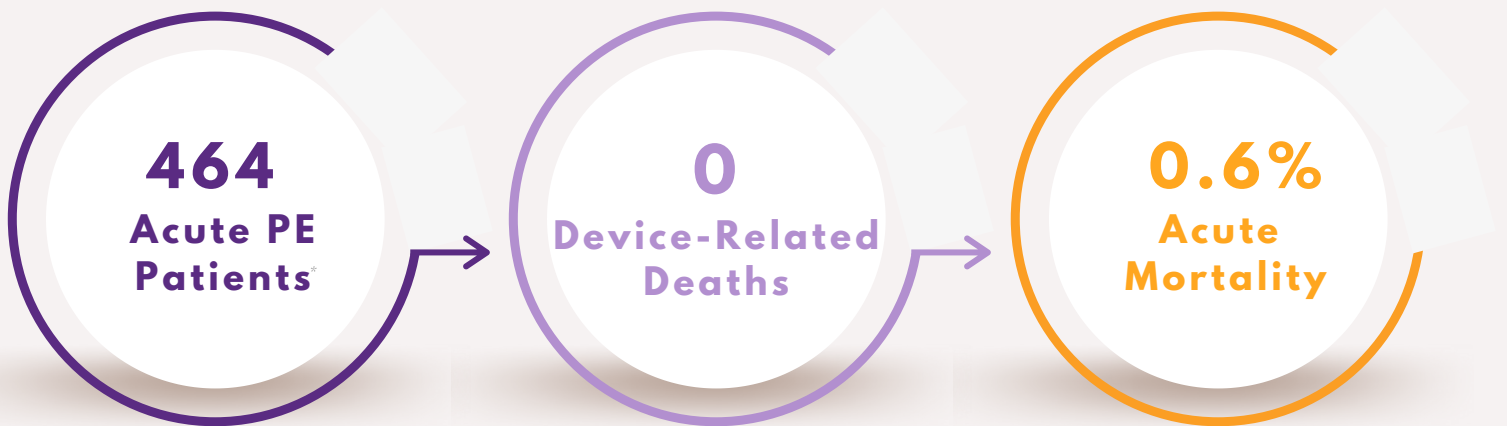
Dr. Wissam Jaber | Emory University School of Medicine  
Dr. Steven D. Abramowitz | MedStar Health

\*Abramowitz, S. (2021). Mechanical Thrombectomy for the Treatment of Chronic DVT: A Sub-Analysis of the CLOUT Registry. Presentation, LINC 2021.



# INDUSTRY LEADING CLINICAL RESEARCH

The FlowTriever system has been studied more than any other mechanical thrombectomy device for the treatment of pulmonary embolism\*



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*Dr. Steven D. Ambramowitz | MedStar Health*

\*Patients studied in peer reviewed papers and conference presentations

1. Tu T., Toma C., Tapson V.F., et al. A prospective, single-arm, multi-center trial of catheter-directed mechanical thrombectomy for intermediate-risk acute pulmonary embolism: the FLARE study. JACC Cardiovasc Interv. 2019; 12: 859-869  
2. Wible B.C., Buckley J.R., Cho K.H., Bunte M.C., Saucier N.A., Borsa J.J., Safety and efficacy of acute pulmonary embolism treated via large-bore aspiration on mechanical thrombectomy using the Inari FlowTriever device. J Vasc Interv Radiol. 2019; 30: 1370-1375  
3. Toma C, Toma C, Khandhar S, Zalewski AM, D'Auria SJ, Tu TM, Jaber WA. Percutaneous thrombectomy in patients with massive and very high-risk submassive acute pulmonary embolism. Catheter Cardiovasc Interv. 2020;1-6  
4. Graif, A., Patel, K.D., Wimmer, N.J., Upparapalli, D., Kaneria, A., Leung, D. et al. Large-Bore Aspiration on Thrombectomy versus Catheter-Directed Thrombolysis for Acute Pulmonary Embolism: A Propensity Score-Matched Comparison JVIR volume 31, issue 12, p2052-2059, Dec 1 2020. Nezami, N., Chockalingam, A., Cornman-Homonoff, J. et al. Mechanical thrombectomy for pulmonary embolism in patients with patent foramen Ovale. CVIR Endovasc 3, 89 (2020).  
6. Markovitz M, Lambert N, Dawson L, Hoots G. Safety of the Inari FlowTriever device for mechanical thrombectomy in patients with acute submassive and massive pulmonary embolism and contraindication to thrombolysis. Am J Interv Radiol 2020;4:18  
7. Toma, C. FLASH registry Transcatheter Cardiovascular Therapeutics scientific symposium of the Cardiovascular Research Foundation on held online October 14-16, 2020.

#### Indications:

The FlowTriever System is indicated for (1) The non-surgical removal of emboli and thrombi from blood vessels (2) Injection, infusion and/or aspiration of contrast media and other fluids into or from a blood vessel. The FlowTriever System is intended for use in the peripheral vasculature and for the treatment of pulmonary embolism. The Triever Catheters are intended for use in peripheral vasculature and for the treatment of pulmonary embolism. Triever Catheters are also intended for use in treating clot in transit in the right atrium.

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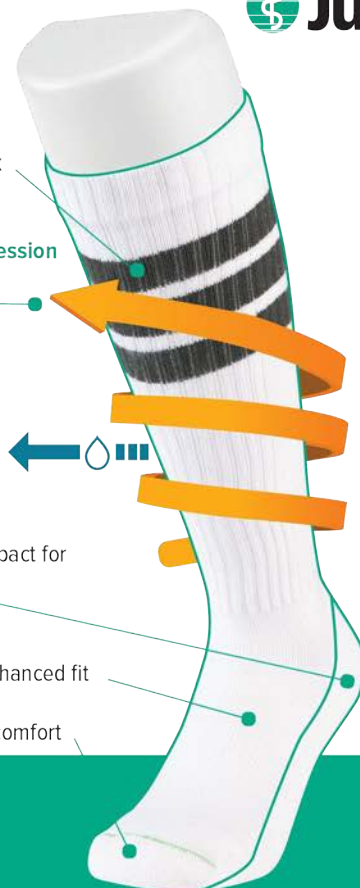
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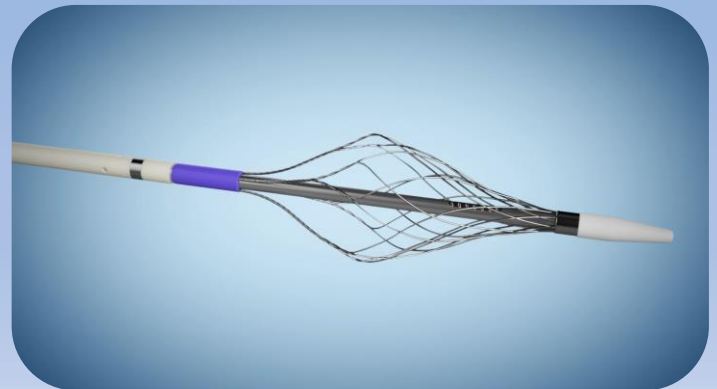
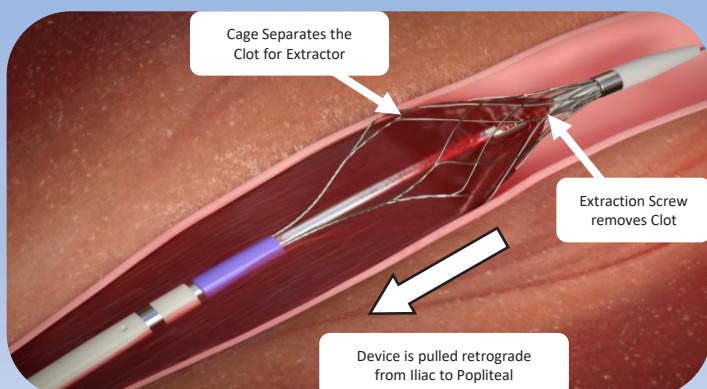
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