## SCIENTIFIC PROGRAM

### Tuesday, April 6

- Pre congress hands-on workshop for physicians  
- Pre congress hands-on workshop for nurses

### Wednesday, April 7

- Virtual Hall A
- Virtual Hall B

### Thursday, April 8

- Virtual Hall A
- Virtual Hall B

### Friday, April 9

- Virtual Hall A
- Virtual Hall B

## INDUSTRY SPONSORED SYMPOSIA

## PARTNERS
WELCOME ADDRESS

Dear Colleagues, Dear Friends,

Welcome to the 12th Congress of the Vascular Access Society which is going to be held virtual form April 6–9, 2021.

Almost 100 years ago Prof. Georg Haas performed the first successful hemodialysis in Gießen (Germany). Since then renal replacement therapies have improved substantially and the development continues steadily.

The Vascular Access Society (VAS) is a multidisciplinary society of vascular access experts driving continuous improvement in the field of vascular access. The biannually VAS Congress is bringing together the international community of clinicians, vascular technologists, nurses, and researchers, devoted to the important issue of vascular access.

The scientific program will provide a three-day meeting with state-of-the-art lectures about new developments in clinical practice, basic research as well as the latest results from clinical trials. Within the scientific program you will also find sessions dedicated with nursing related topics.

The scientific program is preceded by virtual workshop for physicians and nurses.

We would like to express our thanks to partners and exhibitors for their support.

With best regards and looking forward to meeting you during our virtual congress!

Christian Hohl
Congress Chairman
SCIENTIFIC PROGRAM COMMITTEE

Christian Hohl, Chairman of the organizing committee

Michael Burbelko
Matthias Eikelmann
Maurizio Gallieni
James Gilbert
Markus Hollenbeck
Jose Ibeas
Ruben Iglesias
Tamara Jemcov

Jan Malik
Vladimir Matoussevitch
Norton de Matos
Kathleen Rickert
Joris Rotmans
Robert Shahverdyan
David Shemesh
Matteo Tozzi
SCIENTIFIC PROGRAM

All times in the congress program are in Central European Summer Time – CEST (UTC + 2)

Notice:  
(X + Y min) → X min lecture itself and Y min discussion follows immediately after the lecture  
(X min) → X min lecture itself and discussion at the end of the session, after the last lecture

TUESDAY, APRIL 6

Pre congress hands-on workshop for physicians

15:30–17:00 Ultrasound  
Chair: David Shemesh, Markus Hollenbeck

1. Introduction presentation  
Surendra Shenoy (18 min)

2. Virtual 3D demonstration  
Jose Ibeas (7 min)

3. 4 case presentations  
David Shemesh (50 min)

4. Discussion  
David Shemesh, Surendra Shenoy, Jose Ibeas, William Jennings, Markus Hollenbeck (15 min)

17:00–17:15 Break

17:15–18:45 Interventional procedures including Fistula creation  
Chair: Michael Burbelko

1. Endovascular fistula creation  
Robert Shahverdyan (20 min)

2. Endovascular access thrombectomy  
Michael Burbelko (20 min)

3. Endovascular techniques for central venous occlusive disease  
Gürkan Sengölge (20 min)

4. Discussion  
Robert Shahverdyan, Michael Burbelko, Gürkan Sengölge (30 min)

18:45–19:00 Break
19:00–20:30 Surgical procedures
Chair: Antonio Norton de Matos

1. Surgical procedures
   Antonio Norton de Matos (75 min)

2. Discussion
   Antonio Norton de Matos (15 min)

20:30–20:45 Break

20:45–22:15 Catheters
Chair: Jose Ibeas, Maurizio Gallieni

Minilectures:
1. The Hemodialysis cateter: from basics to latest advances
   Maria Guedes (10 min)

2. How to prevent the catheter placement complications
   Mariusz Kusztal (10 min)

3. How to approach CVC malfunction due to fibrin sheath
   Jernej Pajek (10 min)

Simulations:
   Jose Ibeas (15 min)

5. Non-tunnelled catheter insertion
   Maurizio Gallieni (15 min)

6. Tunnelled catheter insertion
   Jose Ibeas (15 min)

7. Discussion
   Jose Ibeas, Maurizio Gallieni, Jernek Pajek, Mariusz Kusztal, Maria Guedes
TUESDAY, APRIL 6

Pre congress hands-on workshop for nurses

15:30–17:00  Physical Examination

Chair: David Hernan

1. Theoretical presentation
   David Hernan (35 min)
2. Virtual reality demonstration
   Ruben Iglesias (10 min)
3. Routine physical examination
   David Hernan (10 min)
4. Clinical cases
   David Hernan, Mari Luz Sanchez (25 min)
5. Discussion
   David Hernan, Ruben Iglesias (live 10 min)

17:00–17:15 Break

17:15–18:45 Central venous catheters

Chair: Kathleen Rickert

1. Theoretical presentation
   Ralf Jungmann, Beate Spindler (20 min)
2. Virtual 3D demonstration
   Kathleen Rickert, Klaus-Ulrich Behrendt, Oliver Perkovic, Robert Shahverdyan (50 min)
3. Discussion
   Ralf Jungmann, Beate Spindler, Kathleen Rickert, Klaus-Ulrich Behrendt, Oliver Perkovic, Robert Shahverdyan (20 min)

18:45–19:00 Break
19:00–20:30 Ultrasound of Vascular Access for nurses  
Chair: Ruben Iglesias

1. Theoretical presentation  
   Ruben Iglesias (35 min)
2. Virtual reality demonstration  
   Ruben Iglesias (10 min)
3. Routine physical examination  
   Ruben Iglesias (30 min)
4. Discussion Ruben Iglesias (live 15 min)

20:30–20:45 Break

20:45–22:15 Workshop US guided Cannulation  
Chair: Carolina Rubiella

1. Theoretical presentation  
   Carolina Rubiella (35 min)
2. Virtual 3D demonstration  
   Ruben Iglesias (15 min)
3. Demonstration of US guided cannulation with anatomical simulation models  
   Ruben Iglesias (20 min)
4. Discussion  
   Ruben Iglesias, Carolina Rubiella (15 min)
WEDNESDAY, APRIL 7

16:00–16:15 Opening ceremony
Virtual Hall A

16:15–17:45 Vascular access overview
(Fundamental course 1)
Chair: Joris Rotmans, Jan Malik

1. Epidemiology of renal replacement therapy and vascular access
   Wolfgang Meichelboeck (20 + 2 min)

   Current state of Vascular Access

2. from the perspective of Interventional Radiology
   Günther Wittenberg (15 + 2 min)

3. from the perspective of Nephrology
   Maurizio Gallieni (15 + 2 min)

4. from the perspective of Vascular Surgery
   Richard Kellersmann (15 + 2 min)

5. from the perspective of Nursing
   Matthias Eikelmann (15 + 2 min)

17:45–18:15 Break

18:15–19:00 Industry sponsored symposium 1

19:00–19:15 Break
19:15–20:45 Recent clinical trials
(Focus session 1)
Chair: James Gilbert, Paul Gibbs

1. Drug-Coated Balloons for Dysfunctional Dialysis Arteriovenous Fistulas
   Robert Lookstein (15 + 5 min)
2. Ultrasound-based cannulation of vascular access for hemodialysis
   George Smith (15 + 5 min)
3. An Implanted Blood Vessel Support Device for Arteriovenous Fistulas
   Nikolaos Karydis (15 + 5 min)
   Mariana Murea (submitted abstract) (7 + 2 min)
5. Outcome of long-term follow-up comparing one- vs. two-stage transposition in brachiobasilic fistulae. Data from the Swedish Renal Registry
   Gunilla Welander (submitted abstract) (7 + 2 min)
6. AV-fistulas created with the help of personalised blood flow simulations: clinical outcomes of a randomised control trial
   Letty van Vliet (submitted abstract) (7 + 2 min)

20:45–21:00 Break

21:00–22:30 Update on guidelines
(Focus session 2)
Chair: Robert Shahverdyan

1. Prevention and treatment of CVC dysfunction
   Charmaine Lok (15 min)
2. Peri-operative management to optimize arteriovenous fistula maturation
   Koen van der Bogt (15 min)
3. Are guidelines contradicting an individualized access creation?
   Matthias K Widmer (15 min)
4. Implementation and validation of a triage system of vascular access performance in hemodialysis patients
   Silverio Rotondi (submitted abstract) (7 min)
5. Round Table Discussion
   (15 min)
WEDNESDAY, APRIL 7

Virtual Hall B

16:15–17:45  Endovascular vs. Surgical fistula creation
(Controversy session 1)
Chair: Dheraj Rajan, Jeff Hull

1. Endovascular AV-Fistula Creation: preoperative examination and planing
   N. Mawla (10 + 5 min)
2. Updates on Ellipsys vascular access system
   A. Mallios (10 + 5 min)
3. Updates on WavelinQ vascular access system
   P. Kitrou (10 + 5 min)
4. Comparison of endovascular versus surgical proximal forearm AV-Fistulae
   R. Shahverdyan (10 + 5 min)
5. Secondary Interventions after endovascular AV-Fistula creation:
   the US experience
   Karl Illig (10 + 5 min)
6. Secondary Interventions after endovascular AV-Fistula creation:
   the European experience
   Robert Jones (10 + 5 min)

17:45–19:15  Break
19:15–20:45  Endovascular techniques  
(Scientific session 1)  
Chair: Panagiotis Kitrou, Matteo Tozzi

1. DCB for vascular access. Does it work? Does it harm?  
   *Panagiotis Kitrou* (10 + 5 min)

2. Helical stent (SUPERA) and drug-coated balloon (Passeo-18 Lux)  
   for recurrent cephalic arch stenosis  
   *Tjun Yip Tang* (7 + 3 min)

3. Treatment of juxta-anastomotic stenoses for failing distal radiocephalic  
   arteriovenous fistulas: Drug-coated balloons versus angioplasty  
   *Giovanni Failla* (7 + 3 min)

4. Efficacy of Paclitaxel Balloon for Hemodialysis Stenosis Fistulae After One  
   Year Compared to High-Pressure Balloons  
   *Manuela Moreno-Ramírez* (7 + 3 min)

5. Transjugular percutaneous endovascular treatment of dysfunctional  
   hemodialysis access  
   *Sung Bum Cho* (7 + 3 min)

6. Early Results of Duplex-Guided Transradial Artery Fistuloplasties  
   *Ahmad Alsheekh* (7 + 3 min)

7. Balloon assisted access for occluded central veins  
   *Hessam Salehi Nia* (7 + 3 min)

8. Safety and efficacy of balloon angioplasty for maturation of av-fistulae for  
   hemodialysis  
   *Leonardo Harduin* (submitted abstract) (7 + 3 min)

20:45–21:00  Break
21:00–22:30  Cardiovascular effects of hemodialysis access
(Scientific session 2)
Chair: Jan Malik

1. Hemodynamic principles in hemodialysis patients with arteriovenous access
   Carlo Lomonte (18 + 2 min)
2. The effects of high-flow fistulas on the heart and on hemodynamics
   Anna Valerianova (18 + 2 min)
3. Heart failure and vascular access – review and examples
   Jan Malik (18 + 2 min)
4. Interrogating the hemodynamic effects of hemodialysis av-fistula on cardiac
   structure and function
   Sokratis Stoumpos (submitted abstract) (8 + 2 min)
5. Longitudinal MRI-based 3D geometric model and CFD analysis reveals flow
   instability that can be limited by an external support device
   Andrea Remuzzi (submitted abstract) (8 + 2 min)
6. AV-fistula for hemodialysis: can turbulent-like flow phenotype induce wall
   vibrations?
   Michaela Bozzetto (submitted abstract) (8 + 2 min)
THURSDAY, APRIL 8

13:30–14:45  VAS General Assembly

15:15–16:00  Industry sponsored symposium 2

Virtual Hall A

16:00–17:30  Vascular Access Centers: From assistance to training
(Focus session 3)
Chair: José Ibeas

Introduction by the chair
(3 min)

1. VASA
Surendra Shenoy (12 minutes)

2. JSDA
Hideki Kawanishi (12 minutes)

3. VAS
José Ibeas (12 minutes)

4. Germany
Markus Hollenbeck (12 minutes)

5. Italy
Maurizio Gallieni (12 minutes)

6. Spain
Ramon Roca (12 minutes)
Discussion
(15 minutes)

17:30–18:00  Break

18:00–18:45  Industry sponsored symposium 3

18:45–19:00  Break
19:00–20:30 Video session
(Video session)
Chair: William C. Jennings, David Shemesh, Surendra Shenoy

1. Extra-anatomic endovascular bypass for central vein occlusion
   Adam Farkash (12 + 3 min)
2. Brachial and Basilic Elevation Transpositions
   William C. Jennings (12 + 3 min)
3. Surgical proximal radial artery fistula creation
   Alexandros Mallios (12 + 3 min)
4. Medial claviculectomy for the treatment of recalcitrant central venous
   stenosis of hemodialysis patients
   Eric K Peden (12 + 3 min)
5. Technique of radio cephalic fistula creation using totally calcific radial artery
   Surendra Shenoy (12 + 3 min)
6. Brachial vein transposition fistula creation
   David Shemesh (12 + 3 min)

20:30–20:45 Break

20:45–21:15 The vascular access handbook for people with kidney disease:
   presentation
Chair: Jose Ibeas, Christian Hohl

   Introduction
   (1 min)
1. The Vascular Access Handbook: a need has finally been met
   Ramon Roca-Tey, President in GEMAV (8 min)
2. Vascular access management: not without the patients
   Daniel Gallego, President in EKPFEKPF (European Kidney Patients’ Federation)
   and ALCER (8 min)
3. The importance of educational tools
   Antonio Tombas: President in ADER (8 min)
   Discussion
   (5 min)
21:15–22:15 Free paper session
(Expert case discussion 1)
Chair: José Ibeas, Christian Hohl

1. New 3D morphological and functional assessment-based method for surgical education of vascular anastomosis
   Alexandra Bálint (submitted abstract) (7 + 2 min)

2. Long-term patency rate of autologous saphenous vein vs. prosthetic graft in vascular access surgery for hemodialysis and parenteral nutrition
   Wouter Driessen (submitted abstract) (7 + 2 min)

3. A comparative analysis for endovascular intervention in radio-cephalic vs. Brachio-cephalic fistulae
   John Fallon (submitted abstract) (7 + 2 min)

4. Creating reverse flow av-fistulas with forearm cannulation target
   Hyein Kim (submitted abstract) (7 + 2 min)

5. AV-shunt Indonesia: the new concept of digital telehealth platform for hemodialysis vascular access health in Indonesia
   Niko Azhari Hidayat (submitted abstract) (7 + 2 min)

   Christopher Seet (submitted abstract) (7 + 2 min)

   Robert Shahverdyan (submitted abstract) (7 + 2 min)
THURSDAY, APRIL 8

Virtual Hall B

16:00–17:30  Dedicated devices for vascular access
(Fundamental course 2)
Chair: A. Norton de Matos

1. Arteriovenous fistulas with an external support device
   Vladimir Matoussevitch (9 + 5 min)
2. The Hemodialysis Reliable Outflow Graft in Hemodialysis
   Nick Inston (9 + 5 min)
3. The actual benefits of the early cannulation graft
   David Kingsmore (9 + 5 min)
4. WavelinQ created arteriovenous fistulas
   Robert Jones (9 + 5 min)
5. The Oxford HeRO (Hemodialysis Reliable Outflow) graft experience
   Nainika Menon (submitted abstract) (7 + 2 min)
6. DeVA (Drug eluting balloon venoplasty in AV fistula stenosis) trial: preliminary results
   Robert Jones (submitted abstract) (7 + 2 min)
7. Comparison between HeRO grafts and THL with SVC stent for patients with central venous stenosis
   Prashanth Chowdary (submitted abstract) (7 + 2 min)

17:30–19:00  Break
19:00–20:30 Video session
(Video session)
Chair: William C. Jennings, David Shemesh, Surendra Shenoy

1. Extra-anatomic endovascular bypass for central vein occlusion
   Adam Farkash (12 + 3 min)
2. Brachial and Basilic Elevation Transpositions
   William C. Jennings (12 + 3 min)
3. Surgical proximal radial artery fistula creation
   Alexandros Mallios (12 + 3 min)
4. Medial claviculectomy for the treatment of recalcitrant central venous stenosis of hemodialysis patients
   Eric K Peden (12 + 3 min)
5. Technique of radio cephalic fistula creation using totally calcific radial artery
   Surendra Shenoy (12 + 3 min)
6. Brachial vein transposition fistula creation
   David Shemesh (12 + 3 min)

20:30–20:45 Break

20:45–22:15 Central vein occlusive disease
(Fundamental course 3)
Chair: Anthony Verstanding, David Shemesh

1. Etiology and prevention of central vein occlusive disease
   Claude Renaud (12 + 2 min)
2. Surgical management of central vein occlusive disease
   Eric K Peden (12 + 2 min)
3. Unusual aspects of central vein occlusive disease
   Anthony Verstanding (12 + 2 min)
4. Endovascular Techniques for Thoracic Central Vein complete occlusion
   Anil Agarwal (12 + 2 min)
5. Endovascular Extraanatomic Bypass in of central vein occlusive disease
   Adam Farkash (12 + 2 min)
6. Role of central venogram in planning of av-fistula in suspected central venous stenosis
   Deepesh Benjamin Kenwar (submitted abstract) (7 + 2 minutes)
7. Development and Validation of a Machine Learning algorithm informing referral to Intensified AV-Fistula Monitoring
   Luca Neri (submitted abstract) (7 + 2 minutes)
FRIDAY, APRIL 9

16:00–16:30  VAS honorary award and lecture

Introduction
Jose Ibeas

VAS Honorary lecture
Multidisciplinary care is the core principle and the strength of the Vascular Access Society: a personal recollection
Maurizio Gallieni

Virtual Hall A

16:30–18:00  Outcomes and Quality Indicators in vascular access (Scientific session 3)
Chair: José Ibeas

Introduction by chair (3 min)
1. VASA
Prabir Chaudhury (10 min)
2. China Chapter
Lihua Wang (10 min)
3. VAS
Nick Inston (10 min)
4. Japan
Masato Tsuboi (10 min)
5. Surgical
James Gilbert (10 min)
6. Interventional
Christian Hohl (10 min)
7. QoL
Charmaine Lok (10 min)
Discussion (17 min)

18:00–18:30  Break

18:30–19:15  Industry sponsored symposium 4

19:15–19:30  Break
19:30–21:00 Central venous catheters for hemodialysis access
(Scientific session 4)
Chair: Maurizio Gallieni

1. Prevention of infection of CVC
   Anil Agarwal (12 + 3 min)
2. Management of infection of CVC
   Charmaine Lok (12 + 3 min)
3. Prevention of malfunction of CVC
   Rauri Clark (12 + 3 min)
4. Treatment of malfunction
   Gürkan Sengölge (12 + 3 min)
5. Clinical results of different CVC
   Joris Rotmans (12 + 3 min)
6. Reduced CVC-related infection rate during the COVID-19 pandemic
   Gianmarco Sabiu (submitted abstract) (4 + 3 min)

21:00–21:15 Break

21:15–22:45 Maturation – Expert case discussion
(Expert case discussion 2)
Chair: Jan Tordoir, Tamara Jemcov

1. Mechanism of AVF maturation extra-anatomic
   Jernej Pajek (10 + 2 min)
2. Why don’t fistulas mature?
   Joris Rotmans (10 + 2 min)
3. Failure to mature – the viewpoint of surgeon and his ability to prevent it
   Branko Fila (10 + 2 min)
4. Failure to mature – interventional procedures in its correction
   Matteo Tozzi (10 + 2 min)
5. Maturation vs. functionality vs adequacy. Whether these are different terms for the same meaning?
   Tamara Jemcov (10 + 2 min)
6. Can we (doctor and patient) somehow influence on maturation?
   Ignes Aragoncillo (10 + 2 min)
7. Interventions for maturation in newly created av-fistulas in the Shunt Simulation Study cohort
   Letty van Vliet (submitted abstract) (7 + 2 min)
8. AV fistula maturation delay – PTA knows the way
   Rui Filipe Nogueira (submitted abstract) (7 + 2 min)
FRIDAY, APRIL 9

Virtual Hall B

16:30–18:00 Nursing Session 1 (Focus session 4)
Chair: Kathleen Rickert, Sabine Nipshagen

1. CVC – Literature Update, Care Recommendations and Indications
   Maria Teresa Parisotto (12 + 3 min)
2. Metal vs. Plastic Cannula – Indication and Application
   Sabine Nipshagen (12 + 3 min)
3. Endovascular vs. Surgical Fistula – What is the difference in handling
   Kathleen Rickert (12 + 3 min)
4. Nursing role in the vascular access team through Doppler ultrasound
   Carolina Rubiella (12 + 3 min)
5. Which cannulation technique causes the least complications? A national survey on Swedish Renal Registry
   Karin Staaf (submitted abstract) (8 + 2 min)
6. Efficacy of Dialysis in palindrome venous catheter in regular vs. Reversed lines
   Nuria Sánchez (submitted abstract) (8 + 2 min)
7. A predictive model for measurement of recirculation in hemodialysis monitors without specific Biosensors
   Sebastian Ponce Fernandez (submitted abstract) (8 + 2 min)

18:00–19:30 Break
19:30–21:00  ‘Round the Campfire with VASBI’ – Which Access do we think is best!
(Controversy session 2)
Chair: James Gilbert

Welcome and Intro
James Gilbert (Pre-recorded)

Part 1 – Lines are definitely best!
Chair – Paul Gibbs
a. Nephrology View
Jennifer Hanko
b. Interventional Radiology View
Rob Jones
c. Surgical View
James Gilbert
d. Discussion

Part 2 – No Fistulas are way better!
Chair – Rob Jones
a. Nephrology View
Sarah Lawman
b. Interventional Radiology View
Kate Steiner
c. Surgical View
Paul Gibbs
d. Discussion

Part 3 – Surely Grafts are best?
Chair – Sarah Lawman
a. Nephrology View
Jennifer Hanko
b. Interventional Radiology View
Kate Steiner
c. Surgical View
James Gilbert
d. Discussion

Making sense of these views
Entire Panel

Panel and Audience Q & A

Vascular Access University Challenge
Quiz show host – Rob

Each viewpoint to be 5 mins max to enable 5 min round table discussion
10–15 min Q&A to make sense of it all
15 min for the quiz

21:00–21:15  Break
21:15–22:45 Nursing Session 2
(Focus session 5)
Chair: Ruben Iglesias, Maria Teresa Parisotto

1. A survey on haemodialysis nurses’ experiences and opinions regarding venous needle dislodgement incident reporting
   Tai Mooi Ho Wong (12 + 2 min)
2. Ultrasound guided cannulation – That is possible!
   Monica Schoch (12 + 2 min)
3. Care Protocol of a fistula – Our responsibility of a better outcome
   Monika Wagner (12 + 2 min)
4. Buttonhole Technique – State of the art
   Laura Labriola (12 + 2 min)
5. Coordination of VA on dialysis centers, monitoring and vigilance concepts and how we see the future on managing VA in dialysis centers
   Telmo De Carvalho (12 + 2 min)
6. Can we use frailty scoring to improve decision making in vascular access?
   Kulli Kuningas (submitted abstract) (8 + 2 min)
7. Implementing an access multidisciplinary team meetings to improve vascular access service single center experience from the UK
   Heidi Jimenez (submitted abstract) (8 + 2 min)

22:45–23:00 Closing ceremony
INDUSTRY SPONSORED SYMPOSIA

All times are in Central European Summer Time – CEST (UTC + 2)

WEDNESDAY, APRIL 7

18:15–19:00 Industry sponsored symposium 1
Medtronic
Opening remarks
Tobias Steinke, MD
Strategies for Optimal Fistula Maintenance: vessel preparation and drug coated therapy as key factors

THURSDAY, APRIL 8

15:15–16:00 Industry sponsored symposium 2
Laminate Medical
Introduction by the moderator
Dr. Nikolaos Karydis, Israel
A New Standard of Care?
Creating Arteriovenous Fistulas Using VasQ™ Extneral Support

18:00–18:45 Industry sponsored symposium 3
Gore & Associates
Introduction by the moderator
I. Hernández-Lahoz, Vigo, Spain
Dialysis tomorrow: the individual patient approach

FRIDAY, APRIL 9

18:30–19:15 Industry sponsored symposium 4
Medtronic
Opening remarks
José Ibeas, MD
Interdisciplinary Team Approach to Hemodialysis Access: Percutaneous Fistula Creation
PARTNERS

We would like to thank our congress partners for their support.

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HEMODIALYSIS
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A New Standard of Care?
Creating Arteriovenous Fistulas
Using **VasQ™** External Support

Virtual Symposium

**Moderator:**
Dr. Nikolaos Karydis

**Panelists:**
Dr. Alexandros Mallios, Dr. Robert Shahverdyan, and Dr. Paola Tabbi

15:15 – 16:00 on Thursday, April 8
Industry Sponsored Symposium 2

Discuss with experts how VasQ promotes fistula maturation and the use of the device as a new standard of care for access creation

**Content:**
- Presentation on hemodynamics at the arteriovenous anastomosis using MRI-based computational modeling
- Prerecorded video of VasQ™ External Support implantation
- Presentation of evidence on VasQ™ External Support
- Panel discussion of tips and tricks with audience participation
624 hours of hemodialysis yearly

312 needle sticks¹

1 durable AV access graft²,³,⁴

Flixene AV access graft: Premium performance for dialysis access