

LEIPZIG
INTERVENTIONAL
COURSE
2022

LINIC

6 – 9 June 2022

Trade Fair Leipzig, Hall 2
Messe-Allee 1
Leipzig, Germany
and virtual

PRELIMINARY PROGRAMME

Welcome to LINC 2022

The Leipzig Interventional Course is committed to advancing the scientific and clinical evaluation and treatment of patients with complex vascular disease through an interdisciplinary discussion of novel endovascular techniques.

LINC is a comprehensive and international live course designed to foster collaboration between colleagues of differing specialities and to promote the understanding and development of endovascular therapies that can be incorporated into daily clinical practice.

The involvement of leading interventional centers from around the globe as live transmission sites will provide a broad coverage of different interventional approaches and techniques.

The organisers of the course and the members of the faculty would like to welcome you to the LEIPZIG INTERVENTIONAL COURSE 2022.



13:00 – 14:15

New solutions for complex aortoiliac obstructions*Moderator: Dierk Scheinert**Panel: Patrice Mwipatayi, Maria Antonella Ruffino, Peter Goverde, E. Secemsky*

13:00 – 13:15

■ *Live case transmission from Leipzig – part I*

13:15 – 13:20

Use and effectiveness of Pioneer re-entry device for subintimal true lumen re-entry:

Single-centre data and a review of the literature *Mohamad Hamady*

13:20 – 13:25

Initial interim results from the post-market registry of the GORE® VIABAHN® VBX balloon expandable endoprosthesis implanted in peripheral vessels

Mauro Gargiulo

13:25 – 13:30

Following up patients with iliac occlusive disease treated with the GORE® VIABAHN® VBX balloon expandable endoprosthesis – FLEX clinical study

Jean Bismuth

13:30 – 13:35

Outcomes of self-expanding e-PTFE covered stent when treating chronic iliac artery occlusions – a multi-centre experience *Michele Piazza*

13:35 – 13:45

■ *Live case transmission from Leipzig – part II*

13:45 – 13:50

Versatility of covered stents in complex aorto-iliac POD lesions and FEVAR/BEVAR

Markus Steinbauer

13:50 – 13:55

FIRST TIME DATA RELEASE:BELSTREAM – 12-month results of study *Koen Deloose*

13:55 – 14:00

5-year follow-up of CERAB reconstructions: Single-center experience

from the Netherlands *Wilbert Fritschy*

14:00 – 14:05

Multicentre experience on CERAB technique for the treatment option of AIOD –

Polish experiences *Zbigniew Krasinski*

14:05 – 14:10

Improving outcomes of vascular interventions with AI *Kak Khee Yeung*

14:10 – 14:15

Advances in intravascular imaging: Real world evidence and expert consensus

E. Secemsky

14:15 – 15:15

OPENING SYMPOSIUM:**Focus on the lower limb: Novel treatment options from SFA to BTK**

supported by Abbott

*Moderator: Dierk Scheinert*Welcome *Dierk Scheinert*

14:15 – 14:17

14:17 – 14:29

Late breaker: 2 years follow-up of SUPERSUB II *Luis Palena*

14:29 – 14:34

Discussion

Thrombectomy: The benefits of mechanical thrombectomy for lower limb treatment

14:34 – 14:39

Treating acute limb ischemia with mechanical thrombectomy – case presentation

Michael Lichtenberg

14:39 – 14:46

Mechanical thrombectomy for venous thromboembolism: A pathway to consider ?

Houman Jalaie

14:46 – 14:51

Treating deep venous thrombosis with mechanical thrombectomy – case presentation

Michael Lichtenberg

14:51 – 14:58

Discussion

14:58 – 15:08

Tomorrow's BTK treatment options – drug eluting resorbable scaffolds *TBC*

15:08 – 15:13

Discussion

15:13 – 15:15

Take-home message *Dierk Scheinert*

- 15:15 – 16:30** **Novel approaches and insights for treatment of complex femoropopliteal disease – part I**
Moderators: Thomas Zeller, Peter Schneider
Panel: Gary Ansel, Koen Deloose, Robert Beasley, Erwin Blessing
 Serration angioplasty technique for better lumen gain *Christian Wissgott*
 ■ *Recorded case presentation: Serrator Serration balloon as primary therapy for CLTI disease Michael Lichtenberg*
- 15:15 – 15:20**
15:20 – 15:30 ■ **FIRST TIME DATA RELEASE:**
 UltraScore – final results of a multi-center study *Robert Beasley*
- 15:30 – 15:35** **FIRST TIME DATA RELEASE:**
 Long-term evidence of directional atherectomy and DCB:
 3-year clinical experience from Australia *Vikram Puttaswamy*
- 15:35 – 15:40** Clinical outcomes with drug-coated balloon alone vs. drug-coated balloon plus provisional stenting: An analysis from the IN.PACT global study 5-year data
Gary Ansel
- 15:40 – 15:45** Drug-eluting stents vs. DCB + BMS combination therapy: Created equal?
Koen Deloose
- 15:45 – 15:50** ■ *Live case transmission from Bad Krozingen*
- 15:50 – 16:05** **FIRST TIME DATA RELEASE:**
 Cost-effectiveness of urea excipient-based drug-coated balloons for chronic limb-threatening ischemia from femoropopliteal disease *Michel Reijnen*
- 16:05 – 16:15** 5-year results from the Lutonix trial *Nicolas Shammas*
- 16:15 – 16:20** IN.PACT global study 5-year diabetic and gender subgroup outcomes
Marianne Brodmann
- 16:20 – 16:25** Recent data outcomes in complex femoropopliteal occlusive disease with the GORE® VIABAHN® Endoprosthesis *Osamu Iida*
- 16:25 – 16:30**
- 16:30 – 17:15** **Status of the SFA treatment paradigm**
 supported by COOK Medical
Moderator: Koen Deloose
Panel: Alope Finn, Thomas Zeller, Osamu Iida, Marc Bosiers, E. Sebastian Debus
Polymer-coated DES: Learn about the evidence
 Pre-clinical experience *Alope Finn*
 Clinical experience *Thomas Zeller*
 Clinical experience *Osamu Iida*
 Q&A, discussion
- 16:30 – 16:36** **Additional benefits of endovascular treatment over bypass – ready to move on?**
 Silverpass – 36-month update and health economic snapshot *Marc Bosiers*
- 16:36 – 16:42** Should the endovascular approach be the new frontier? *E. Sebastian Debus*
- 16:42 – 16:48** Q&A, discussion, and conclusion
- 16:48 – 16:55**
- 16:55 – 17:01**
- 17:01 – 17:07**
- 17:07 – 17:15**



- 17:15 – 19:00 **Novel approaches and insights for treatment of complex femoropopliteal disease – part II**
Moderators: Koen Deloose, Yann Gouëffic
Panel: Michael Lichtenberg, Marianne Brodmann, Antonio Micari, John Laird
- 17:15 – 17:20 Optimizing PTA following atherectomy in complex lower limb lesions:
 12-month results of the DISSECT study *Michael Lichtenberg*
- 17:20 – 17:25 **FIRST TIME DATA RELEASE:**
 Treating common femoral artery steno-occlusive lesions with an endovascular approach using DA+DCB: 3-year follow-up in 75 patients *Angelo Cioppa*
- 17:25 – 17:45 ■ *Live case transmission from Leipzig*
- 17:45 – 17:50 Safety, effectiveness, and mid-term follow-up in 400 consecutive patients with moderate to severely calcified lesions undergoing phoenix atherectomy
Sorin Giusca
- 17:50 – 17:55 Directional atherectomy (DA) followed by DCB to treat long, calcified femoropopliteal artery lesions: The REALITY study *Thomas Zeller*
- 17:55 – 18:00 EMINENT RCT (Eluvia vs. BMS): 12-month primary endpoint data and subset analysis
Yann Gouëffic
- 18:00 – 18:05 MIMICS-3D 3-year results: Compelling clinical outcomes with BioMimics 3D in complex patients and lesions *Michael Lichtenberg*
- 18:05 – 18:10 TINTIN trial 3-year follow-up *Koen Deloose*
- 18:10 – 18:40 ■ *Live case transmission from Münster*
- 18:40 – 18:45 **FIRST TIME DATA RELEASE:**
 Predictors of drug-coated balloon efficacy in femoropopliteal intervention: Insights from a patient-level pooled analysis *Prakash Krishnan*
- 18:45 – 18:50 5-year results from the IN.PACT global study pre-specified cohorts:
 In-stent restenosis, chronic total occlusions, and long lesions *Antonio Micari*
- 18:50 – 18:55 Safety and efficacy of Passeo-18 Lux in long lesions: Pooled results from the BIOLUX P-III and BIOLUX P-III Spain studies *Marianne Brodmann*
- 18:55 – 19:00 Stellarex complex lesion subset analysis from the SAVER real world registry
Konstantinos Stavroulakis

- 13:00 – 14:00 **Carotid revascularisation – what is new in 2022?**
Moderators: Marc van Sambeek, Horst Sievert
Panel: Alberto Cremonesi, Alison Halliday, Piero Montorsi, Frans Moll
 Quality assessment of carotid reconstruction – anything new from the German registry? *Martin Storck*
- 13:00 – 13:05 ACST II-trial: Update on latest data and clinical implications *Alison Halliday*
- 13:05 – 13:10 Proximal vs. distal protection for carotid artery stenting:
 A review of the data *Alberto Cremonesi*
- 13:10 – 13:15 Proximal protection for carotid artery stenting:
 A preferred solution for all-comers *Piero Montorsi*
- 13:15 – 13:20 Improving your safety profile through proximal protection:
 Experiences from a high volume carotid artery stenting center *Horst Sievert*
- 13:20 – 13:25 **Live case transmission from Milan**
 TCAR: Patient selection, technique, and role in contemporary practice
Peter Schneider
- 13:25 – 13:50 CAS in patients with bovine and Type III arch – a single-center experience
Arne Schwandt



14:00 – 15:15

Carotid stenosis treatment: Is the puzzle complete?

supported by Terumo

*Moderator: Stefan Müller-Hülsbeck**Panel: Richard Bulbulia, Zsolt Vajda, Koen Deloose*

14:00 – 14:05

Introduction *Stefan Müller-Hülsbeck*

14:05 – 14:10

Asymptomatic carotid stenosis treatment: Lessons from > 6000 randomized patients in ACST 1 and 2 *Richard Bulbulia*

14:10 – 14:35

■ *Live case transmission from Münster*

14:35 – 14:43

ROADSAVER study outcomes: Real-world evidence from a large carotid stenting cohort treated with a dual-layer micromesh stent *Zsolt Vajda*

14:43 – 14:53

■ *Recorded case presentation*

14:53 – 15:01

Pieces of puzzle coming together, building a new carotid treatment algorithm *Koen Deloose*

15:01 – 15:15

Q&A, discussion, and conclusion

15:15 – 16:00

Innovative options for patients with end-stage renal disease:**Percutaneous creation of AV-access***Moderators: Arne Schwindt, Aurangzaib Khawaja**Panel: Jeffrey Hull, Robert Shahverdyan, Jackie Ho*

15:15 – 15:20

Multi-center experience with WavelinQ™ 4F in 120 patients *Todd Berland*

15:20 – 15:25

Patient perspective of EndoAVF – insights from a multi-center analysis *Aurangzaib Khawaja*

15:25 – 15:30

Single-center experience with WavelinQ™ 4F *Dimitrios Karnabatidis*

15:30 – 15:35

Implications of anatomic variations for EndoAVF *Ounali Jaffer*

15:35 – 15:40

AVF creation using Ellipsys: Long-term evidence to date *Jeffrey Hull*

15:40 – 15:45

AVF creation: Comparing surgical and percutaneous outcomes

Alexandros Mallios

15:45 – 15:50

FIRST TIME DATA RELEASE:

Arteriovenous access creation: Updates from the Hamburg experience

Robert Shahverdyan

15:50 – 15:55

Starting a pAVF practice: My experience *TBD*

15:55 – 16:00

Discussion and conclusion

16:00 – 17:15

Are we stenting too little, too late? An introduction to the WRAPSODY™ cell-impermeable endoprosthesis and 12-month data

supported by Merit Medical

*Moderator: Fabrizio Fanelli**Panel: Dheeraj Rajan, Katarzyna Kolasa*

16:00 – 16:03

Introduction by the moderator

16:03 – 16:14

The evolution of covered stents *Tobias Steinke*

16:14 – 16:26

■ *Live case transmission from Varese*

16:26 – 16:37

Clinical trials: WRAPSODY™ FIRST, IDE, and registry *Dheeraj Rajan*

16:37 – 16:49

■ *Recorded case presentation*

16:49 – 17:00

The algorithm for covered stent treatment *Ounali Jaffer*

17:00 – 17:10

Health economics in covered stent management: An overview *Katarzyna Kolasa*

17:10 – 17:15

Final Q&A and wrap up

- 17:15 – 19:00 **Advances in endovascular therapy of deep venous obstructions**
Moderators: Michael Lichtenberg, Stephen Black
- Part I: Advanced imaging modalities and first European experience with Opticross IVUS in complex venous disease**
 partially supported by Boston Scientific
Panel: Rutger Brans, Gerard O'Sullivan, Mahmood Razavi, Rick de Graaf
 Pelvic vein anatomy and the use of ultrasound to classify the disease according to the 2021 SVP classification *Tobias Hirsch*
 17:15 – 17:20 The significance of accurate MR-venography before the treatment of iliofemoral thrombosis *Rick de Graaf*
 17:20 – 17:25 Patient selection in NIVL and tips to prevent migration *Kush Desai*
 17:25 – 17:30 ■ *Live case transmission from Modena*
 17:30 – 18:00
- Part II: Latest scientific data and new horizons**
Panel: Rutger Brans, Gerard O'Sullivan, Kenneth Rosenfield, Rick de Graaf
 18:00 – 18:05 ABRE 24-month study outcomes *Erin Murphy*
 18:05 – 18:10 VIVO 3-year data *Paul Gagne*
 18:10 – 18:15 VERNACULAR (Venovo) 3-year data *Michael Dake*
 18:15 – 18:20 Venovo venous registry: 36-month data report from a real world registry
Michael Lichtenberg
 18:20 – 18:25 Preliminary data of multi-center RCT comparing venous stenting with conservative treatment in patients with deep venous obstructions *Houman Jalaie*
 18:25 – 18:30 Anti-inflammation treatment for DVT *David Dexter*
 18:30 – 18:40 ■ *Recorded case presentation Gerard O'Sullivan*
 18:40 – 18:45 Cost of venous leg ulcers related to deep venous disease and its implications
Raghu Kolluri
 18:45 – 18:50 Deep venous obstruction and superficial reflux *Ronald Winokur*
 18:50 – 18:55 Endovascular solutions in complex massive pulmonary embolism:
 When and how *Bruno Freitas*
 18:55 – 19:00 Best practice for treatment of PE in 2022 – the role of endovascular therapy
Kenneth Rosenfield

16:00 – 17:15	Latest results from clinical trials and innovations: Carotid/ Venous/ AV
	<i>Moderators:</i>
16:00 – 16:05	30-day safety outcomes of patients treated with the Roadsaver dual-layer micromesh carotid artery stent via radial or femoral access route: Evidence from a large multicentre European study (ROADSAVER) <i>Sasko Kedev</i>
16:05 – 16:10	Intravascular lithotripsy (IVL) as new tool in calcified carotid arteries stenosis. Single center experience – LITO–ARCH registry <i>Marcin Misztal</i>
16:10 – 16:15	30-day safety outcomes of patients <75 and ≥75 years of age treated with the Roadsaver dual-layer micromesh carotid artery stent: Evidence from a large multicentre European study (ROADSAVER) <i>Ralf Langhoff</i>
16:15 – 16:20	Randomized controlled trial of a first-generation carotid stent vs. the micronet-covered stent: 12-month outcomes <i>Pavel Ignatenko</i>
16:20 – 16:25	Mechanical thrombectomy for deep vein thrombosis in real-world patients: 6-month outcomes from the CLOUT registry <i>David Dexter</i>
16:25 – 16:30	Prospective post-market clinical follow-up study of the endovascular thrombectomy system Aspirex®S in the treatment of acute venous occlusions <i>Michael Lichtenberg</i>
16:30 – 16:35	Abdominal Vascular Compression Syndromes (AVCS): Comprehensive evaluation of Median Arcuate Ligament, Nutcracker, May-Thurner, Superior Mesenteric Artery, and Pelvic Venous Congestion Syndromes and intervention algorithm based on interconnectivity of these syndromes <i>Kurtis Kim</i>
16:35 – 16:40	Conversion of arterio-venous access of hemodialysis to arterio-arterial access for treatment of ve-nous hypertension with central venous occlusion <i>Tamer Khafagy</i>
16:40 – 16:45	Microwave ablation of varicose veins – early Egyptian experience <i>Sohiel Nagib</i>
16:45 – 16:50	Will great saphenous vein crosssectionomy laser ablation be safer and more effective compared to the standard 2 cm distance from the valve laser ablation in management of primary varicose veins in Egypt? <i>Sohiel Nagib</i>
16:50 – 16:55	The WavelinQ ArterioVenous Endovascular Fistula (WAVE-GLOBAL) investigation: a prospective, global, post-market, single-arm study <i>Panagiotis Kitrou</i>
16:55 – 17:00	SiroliMus coated angioplasty vs. plain balloon angioplasty in the tREatment of dialySis acceSs dysfunction (IMPRESSION) <i>Chee Wooi Tan</i>
17:00 – 17:15	Discussion and conclusion

08:00 – 09:15

CONNECT THE WORLD JAPAN: Pioneering approaches for CTO treatment in peripheral arteries

partially supported by Boston Scientific

*Moderators: Dierk Scheinert, Hiroyoshi Yokoi**Panel: Osamu Iida, Daizo Kawasaki, Koen Deloose, Ralf Langhoff*■ *with Tatsuya Nakama live from Tokyo*■ *with Andrej Schmidt live from Leipzig*

FLASH PRESENTATIONS:

The results from CAPSICUM multi-center registry of Eluvia DES in Japan

Osamu Iida

IVUS for peripheral interventions: Basic knowledge and tips and tricks

Daizo Kawasaki

09:15 – 10:30

First time right! Optimizing acute to long-term outcomes in lower limb revascularisation

supported by Philips

*Moderators: Mark Portou, Michael Lichtenberg**Panel: Konstantinos Stavroulakis, Ashish Patel, Marco Manzi*

09:15 – 09:22

Accurate assessment – see better to treat better *Konstantinos Stavroulakis*

09:22 – 09:29

Optimized vessel preparation – plaque disruption, ablation, and removal

Ashish Patel

09:29 – 09:36

Definitive therapy – the importance of focal dissection repair *Marco Manzi*

09:36 – 09:56

■ *Live case transmission from Münster*

09:56 – 10:30

Discussion and conclusion

10:30 – 11:15

Real-world catheter-based reperfusion strategies for the treatment of acute DVT and PE

supported by Boston Scientific

Moderator: Andrew Sharp Panel: Stefano Barco, Nils Kucher

10:30 – 10:32

Welcome and introduction *Andrew Sharp*

10:32 – 10:44

How I treat a patient presenting with iliofemoral DVT – rethru data on

EKOS Angiojet *Stefano Barco*

10:44 – 10:56

How I treat a patient presenting with pulmonary embolism – Zurich pathway

Nils Kucher

10:56 – 11:08

Present and future EKOS clinical data – KNOCOUT PE data and HiPeitho trial

Andrew Sharp

11:08 – 11:15

Q&A, discussion, and conclusion

11:15 – 12:30

Endoluminal bypass for the treatment of complex lower limb disease

supported by Gore & Associates

Moderator: Michel Reijnen Panel: Michele Piazza, Christian Habermann

11:15 – 11:20

Introduction from the moderator

11:20 – 11:35

Iliac: Your TASC II C&D patients – the value of covered stents in treating AIOD

Michele Piazza

11:35 – 11:45

■ *Live case transmission from Leipzig*

11:45 – 12:15

SFA: Strengthening clinical performance in your most challenging patients

a. The treatment options and the data *Michel Reijnen*b. Case presentation *Christian Habermann*

12:15 – 12:25

■ *Live case revisited*

12:25 – 12:30

Q&A, discussion, and conclusion



- 12:30 – 13:15** **LUNCH SYMPOSIUM: BTK controversies – how would you treat?**
supported by Abbott
Moderator: Koen Deloose
Panel: Lieven Maene, Tobias Koppara
- 12:30 – 12:33 Opening/session objectives *Koen Deloose*
12:33 – 12:43 Below-the-knee: Access and vessel preparation – how would you do it?
Lieven Maene
12:43 – 12:48 Discussion
12:48 – 12:58 Below-the-knee: How intravascular imaging could make a difference
Tobias Koppara
12:58 – 13:03 Discussion
13:03 – 13:13 Below-the-knee: Optimal treatment now and in the future? *Koen Deloose*
13:13 – 13:15 Discussion and conclusion
- 13:30 – 14:45** **SYMPOSIUM: Directional atherectomy plus drug-coated balloons to treat long, calcified femoropopliteal artery lesions: Current data and a live case**
supported by Medtronic
Moderator: Dierk Scheinert
Panel: Thomas Zeller, Antonio Micari
- 13:30 – 13:40 IN.PACT Admiral DCB for the treatment of long/complex lesions *Antonio Micari*
13:40 – 13:50 The REALITY study 12-month results *Thomas Zeller*
13:50 – 14:40 ■ *Live case transmission from Leipzig*
14:40 – 14:45 Q&A, discussion, and conclusion
- 14:45 – 15:30** **Low-profile access and new access routes for peripheral arterial procedures**
Moderator: Jos van den Berg
Panel: Yann Gouëffic, Eugenio Stabile, Marcus Thieme, Lieven Maene, Luis Palena
- 14:45 – 14:50 The cost savings and avoided complications of low-profile 4F interventions
Yann Gouëffic
14:50 – 15:25 ■ *Live case transmission from Münster*
15:25 – 15:30 Are we ready for a new approach to iliac lesions? Benefits and limitations to radial access for iliac stenting *Eugenio Stabile*
- 15:30 – 16:00** **FOCUS SESSION: The emerging value of out-of-hospital sites of care**
supported by Philips
Moderator: Dierk Scheinert
Panel: Foluso Fakorede, Janice Tsui
- 15:30 – 15:40 Lessons learned in providing out of hospital care in a remote, underserved region of Mississippi *Foluso Fakorede*
15:40 – 16:00 Panel discussion

16:00 – 16:45	<p>Save a limb to save a life – new horizons with Sirolimus eluting balloons in treating CLI patients – global experience</p> <p>A case based discussion, supported by Medalliance <i>Moderator: Michael Lichtenberg</i> <i>Panel: Bella Huasen, Tjun Tang, Luis Palena, Erin Armstrong</i></p>
16:00 – 16:10	<p>SELUTION SLR Sirolimus eluting balloon technology: Why does it matter to our patients? <i>Bella Huasen</i></p>
16:10 – 16:20	<p>Case 1: A CLI/BTK patient from Singapore – Asian experience <i>Tjun Tang</i></p>
16:20 – 16:30	<p>Case 2: A CLI/BTK patient from Italy – European experience <i>Luis Palena</i></p>
16:30 – 16:40	<p>Next stop USA – latest update on the SELUTION4BTK IDE clinical trial <i>Erin Armstrong</i></p>
16:40 – 16:45	<p>Discussion and conclusion</p>
16:45 – 18:00	<p>The challenge of calcification in BTK interventions <i>Moderators: Luis Palena, Thomas Zeller</i> <i>Panel: Sean Lyden, Miguel Montero-Baker, Erin Armstrong</i></p>
16:45 – 16:50	<p>Calcium definitions in endovascular clinical trials: Is the struggle real? <i>Ralf Langhoff</i></p>
16:50 – 16:55	<p>Small artery disease and medial artery calcification: The silent killer of the leg <i>Roberto Ferraresi</i></p>
16:55 – 17:00	<p>Ultrasound based Calcium score for the identification of no option CLTI <i>Miguel Montero-Baker</i></p>
17:00 – 17:20	<p>■ <i>Live case transmission from Leipzig</i></p>
17:20 – 17:25	<p>FIRST TIME DATA RELEASE: Prestige pilot study: IVUS guided Phoenix atherectomy and Stellarex DCB angioplasty in BTK interventions. 12-month final data presentation <i>Michael Lichtenberg</i></p>
17:25 – 17:30	<p>LIBERTY real world evidence on CLI and diabetic patients <i>George Adams</i></p>
17:30 – 17:35	<p>OCT guided atherectomy for BTK-disease, clinical outcome in a prospective analysed patient cohort <i>Arne Schwindt</i></p>
17:35 – 17:40	<p>Initial 100 patient experience with the Phoenix 1.5 mm atherectomy system <i>Arun Kumarasamy</i></p>
17:40 – 17:45	<p>Orbital atherectomy in the foot arteries: Clinical results <i>Luis Palena</i></p>
17:45 – 17:50	<p>What is the role of intravascular lithotripsy for infrapopliteal vessels? <i>Erin Armstrong</i></p>
17:50 – 18:00	<p>Discussion and conclusion</p>

- 08:00 – 09:15** **Interventional oncology: Hepatic interventions I**
Moderators: Ulf Teichgräber, Thomas J. Vogl
Panel: Bernhard Gebauer, Maciej Pech, Michael Moche
- 08:00 – 08:07 Portal vein embolisation *René Aschenbach*
- 08:07 – 08:14 Double venous embolization liver – interims results DRAGON 1 trial
Bernhard Gebauer
- 08:14 – 08:21 Combined TACE and irreversible electroporation *Michael Moche*
- 08:21 – 08:28 Various products of radioembolization and its indications *Maciej Pech*
- 08:28 – 08:48 ■ *Live case transmission from Jena*
- 08:48 – 09:55 Diagnostic lymphography: Indications and techniques *Moritz Wildgruber*
- 08:55 – 09:02 Interventional lymphography: Techniques and results *Claus C. Pieper*
- 09:02 – 09:15 Discussion and conclusion
- 09:15 – 10:00** **FOCUS SESSION: How should you approach patients with a vasculogenic erectile dysfunction?**
 supported by Concept Medical
- 10:00 – 11:45** **Endovascular procedures for the deep veins**
Moderators: Houman Jalaie, Thomas Zeller
Panel: Michael Lichtenberg, Gerard O'Sullivan, Marzia Lugli, Narayan Karunanithy
- 10:00 – 10:27 ■ *Live case transmission from Zurich*
- 10:27 – 10:34 Armamentarium of imaging techniques for guiding interventions in the deep veins *Rick de Graaf*
- 10:34 – 10:41 A randomized controlled trial comparing venous stenting with conservative treatment in patients with deep venous obstruction (STEVECO)
Houman Jalaie
- 10:41 – 10:48 Update on dedicated stents for the deep veins *Stephen Black*
- 10:48 – 10:55 Update on thrombectomy systems for the deep veins *Michael Lichtenberg*
- 10:55 – 11:02 The TOPOS study: 2-year clinical outcomes of a hybrid oblique Nitinol stent for patients with postthrombotic syndrome and common iliac vein compression
Tim Sebastian
- 11:02 – 11:09 Why do venous stents occlude? Factors that influence outcomes after deep venous stenting *Erin Murphy*
- 11:09 – 11:16 Venous stent complications: Fracture, migration, contralateral thrombosis, etc.
Oliver Hartung
- 11:16 – 11:36 ■ *Live case transmission from Zurich*
- 11:36 – 11:45 Discussion and conclusion

- 11:45 – 12:30 **Think venous: The way forward through a multidisciplinary approach with proven technologies**
supported by BD
Moderator: Stephen Black
Panel: Romaric Loffroy, Michal Stanisic, Efthymios Avgerinos, Houman Jalaie, Oliver Schlager
- 11:45 – 11:50 Keeping the patient at the centre of this journey – a multidisciplinary approach
Romaric Loffroy
- 11:50 – 11:58 ■ *Recorded case presentation: How to avoid thrombolysis in iliofemoral DVT and the advantage of pure mechanical thrombectomy* *Michal Stanisic*
- 11:58 – 12:06 Identifying the right patient for venous stenting: Who, when, and how?
Efthymios Avgerinos
- 12:06 – 12:14 ■ *Recorded case presentation: Attaining the maximal inflow in patients with extensive chronic venous obstruction* *Houman Jalaie*
- 12:14 – 12:20 Antithrombotic treatment after venous stenting and an update of the ARIVA trial *Oliver Schlager*
- 12:20 – 12:30 Panel discussion
- 12:30 – 13:15 **LUNCH SYMPOSIUM: Lifting the boundaries of VTE treatment with INARI lytic-free therapy solutions**
supported by Inari Medical
Moderator: Michael Lichtenberg
Panel: Andrew Wigham, Rick de Graaf, David Dexter
- 12:30 – 12:35 Introduction *Michael Lichtenberg*
- 12:35 – 12:45 Expanding treatment options for sub-acute DVT with the Inari system
Andrew Wigham
- 12:45 – 12:55 A new era in thrombus removal: ClotTrier as the first-choice device for DVT treatment *Rick de Graaf*
- 12:55 – 13:05 CLOUT registry: Putting sight on a treatment option for acute, sub-acute, and chronic DVT *David Dexter*
- 13:05 – 13:15 Discussion and conclusion
- 13:30 – 15:00 **Acute venous thromboembolism**
Moderator: Gerard O'Sullivan
Panel: Robert Lookstein, Kenneth Rosenfield, Bruno Freitas
- 13:30 – 13:50 ■ *Live case transmission from Zurich*
- 13:50 – 14:00 Anticoagulation therapy in patients with COVID-19 associated venous thromboembolism *Stefano Barco*
- 14:00 – 14:10 Thromboprophylaxis in patients with SARS-CoV-2 *Stavros Konstantinides*
- 14:10 – 14:20 Clinical trial programs for intermediate and high risk PE patients *Erik Klok*
- 14:20 – 14:30 FlowTrier thrombectomy for intermediate risk PE patients – initial experience *Felix Mahfoud*
- 14:30 – 14:40 FlowTrier thrombectomy for high risk PE patients – initial experience
Nils Kucher live from Zurich
- 14:40 – 15:00 ■ *Live case transmission from Zurich*



- 15:00 – 15:30** **Latest innovation from Penumbra: Computer-aided thrombus removal with Lightning® Intelligent Aspiration**
supported by Penumbra
Moderator: Hans-Henning Eckstein
- 15:00 – 15:10 Is frontline aspiration thrombectomy the way forward in ALI management?
TBC
- 15:10 – 15:20 Introduction to Lightning® Intelligent Aspiration in my practice *TBC*
- 15:20 – 15:30 Discussion and conclusion
- 15:30 – 16:15** **Interventional options for AV-access related problems**
Moderators: Tobias Steinke, Panagiotis Kitrou
Panel: Jackie Ho, Robert Lookstein, Matteo Tozzi
- 15:30 – 15:35 Paclitaxel DCBs for dysfunctional AVF: The mechanism of action *Jeffrey Hull*
- 15:35 – 15:40 The IN.PACT AV access study: Results through 36 months *Andrew Holden*
- 15:40 – 15:45 The IN.PACT AV access study: Economic outcomes *Robert Lookstein*
- 15:45 – 15:50 Treating cephalic arch stenosis: Why, when, and how? *Gaspar Mestres*
- 15:50 – 15:55 Stent-grafts for AV access revisions: New developments in innovation and evidence *Matteo Tozzi*
- 15:55 – 16:00 Treating AVF lesions in the cephalic arch: What does the data tell us?
Tobias Steinke
- 16:00 – 16:05 Endovascular treatment for dialysis access related Steal syndrome *Jackie Ho*
- 16:05 – 16:10 Beyond PTA: How I incorporate devices like DCBs and stents
for AV access maintenance *Robert Lookstein*
- 16:10 – 16:15 Discussion and conclusion
- 16:15 – 17:00** **SYMPOSIUM: Optimizing endoAVF creation:
A panel discussion with early adopters and new users**
supported by Medtronic
Moderator: Alexandros Mallios
Panel: Robert Shahverdyan, Ounali Jaffer
- 16:15 – 16:18 Welcome
- 16:18 – 16:28 Algorithm for fistula creation: The Paris experience *Alexandros Mallios*
- 16:28 – 16:38 Algorithm for fistula creation: The Hamburg experience *Robert Shahverdyan*
- 16:38 – 16:48 Experiences as a new EndoAVF user *Ounali Jaffer*
- 16:48 – 16:58 Panel discussion
- 16:58 – 17:00 Closing *Alexandros Mallios*
- 17:00 – 18:00** **Interventional oncology: Hepatic interventions II**
Moderator: Ulf Teichgräber
Panel: Frank Wacker, Daniel Nijßler
- 17:00 – 17:10 Hepatic wedge pressure measurement – indications, materials, and technique
Daniel Nijßler
- 17:10 – 17:20 TIPSS – register study DeGIR *Frank Wacker*
- 17:20 – 17:40 ■ *Live case transmission from Jena*
- 17:40 – 17:50 PVR-TIPSS-translial portal vein recanalisation – indications, technique, results
René Aschenbach
- 17:50 – 18:00 ■ *Recorded case presentation: PVR-TIPSS-translial portal vein recanalisation – indications, technique, results* *Maciej Pech*

- 08:30 – 09:45** **Latest results from clinical trials and innovations**
Moderator: Michael Lichtenberg
- 08:30 – 08:35 Hemodynamic assessment of peripheral artery stenosis by FFR and RFR
Christian Erbel
- 08:35 – 08:40 Major adverse limb events in patients with femoro-popliteal and below-the-knee peripheral arterial disease treated with either sirolimus-coated balloon or standard uncoated balloon angioplasty: The SirPAD randomized trial *Stefano Barco*
- 08:40 – 08:45 BIO REACT pilot study: 12-month outcomes *Michael Lichtenberg*
- 08:45 – 08:50 Comparing results of the EX-PAD-03 IDE study and the PATHFINDER post-market registry evaluating the safety and efficacy of the Auryon laser atherectomy system
Marianne Brodmann
- 08:50 – 08:55 Treatment of ISR lesions with the Pantheris atherectomy catheter *Michael Lichtenberg*
- 08:55 – 09:00 Clinical usage of the GPX embolic device in peripheral applications *Andrew Holden*
- 09:00 – 09:05 Treatment of the femoro-popliteal district with the innovative Exist NiTi stent (QMEDICS) type FLEX and PULL: The HORIZON clinical trial *Enrico Marone*
- 09:05 – 09:10 Stent monitoring with the vessel sense flow measurement *Michael Lichtenberg*
- 09:10 – 09:15 Smart and sensing endovascular robot SENTANTE *Tomas Baltrunas*
- 09:15 – 09:20 CaveoVasc® protection system to reduce bleeding complications during catheter directed thrombolysis – results from the first in men study *Elias Noory*
- 09:20 – 09:25 Efficacy of fusion imaging in endovascular revascularisation of the femoral-popliteal artery *Makoto Haga*
- 09:25 – 09:30 PRIZER: Multicentre study with Renzan™ stent for endovascular interventions in femoropopliteal area (NCT04546477) *Koen Deloose*
- 09:30 – 09:45 Discussion and conclusion

- 09:45 – 11:15** **Latest clinical data and original research papers: PVD/Iliac/Carotid/**
Moderator: Ralf Langhoff
- 09:45 – 09:50 The impact of statin treatment intensity after endovascular revascularisation for lower extremity peripheral artery disease *Gwang Sil Kim*
- 09:50 – 09:55 Gender-driven underutilized guideline-recommended outpatient management of intermittent claudication and chronic limb threatening ischemia – A population-based study in Germany between 2009–2018 *Christos Rammos*
- 09:55 – 10:00 Clinical outcomes of endovascular procedure using VIABAHN® VBX covered stent in complex aortoiliac artery disease: Results from AVOCADO study
Masahiko Fujihara
- 10:00 – 10:05 Pediatric vascular injuries management: Single center experience *Ehab Saad*
- 10:05 – 10:10 Combined duplex guided angioplasty with contrast-free fluoroscopy for treatment of femoro-popliteal arterial lesions in patients with renal insufficiency. A multicenter experience *Amr Aborahma*
- 10:10 – 10:15 Role of ankle peak systolic velocity as a hemodynamic predictor following infra inguinal arterial angioplasty *Nihal Mostafa*
- 10:15 – 10:20 Hybrid treatment of iliac segment occlusion in combination with lesions of the common femoral artery *Almaz Vanyurkin*
- 10:20 – 10:25 Long-term outcomes of supra-inguinal arterial bypass *Tiwa Chaisongrit*
- 10:25 – 10:30 Surgical resection of paragangliomas is the only curative treatment: A series of 53 cases of single center experience in Arab Peninsula
Samer Koussayer
- 10:30 – 10:35 Impact of shaggy aorta on intraoperative cerebral embolism during carotid artery stenting *Olesia Osipova*
- 10:35 – 10:40 Cost-effectiveness of ultrasound renal denervation in patients with resistant hypertension *Rod Taylor*
- 10:40 – 10:45 Cone beam computed tomography image fusion in renal tumor ablation: Preliminary data *Carolina Lanza*
- 10:45 – 10:50 Imaging-guided percutaneous direct needle puncture of visceral pseudoaneurysms: Feasibility and outcomes *Serena Carriero*
- 10:50 – 10:55 Endovascular treatment for visceral arteries occlusive disease
Natacha Mawait
- 10:55 – 11:15 Discussion and conclusion

- 11:15 – 12:30 Latest clinical data and original research papers: Femoropopliteal – Part I**
Moderators: Yann Gouëffic, Hans Krankenberg
- 11:15 – 11:20 Femoro-popliteal bypass vs. interwoven biomimetic nitinol stents in the prolonged occlusions of the femoro-popliteal segment:
 A propensity matched analysis *Alexander Gostev*
- 11:20 – 11:25 Results of hybrid revascularisation fasciotomy plus drug eluting stent of prolonged lesions of the femoral-popliteal segment *Alexey Cheban*
- 11:25 – 11:30 Endovascular recanalization with stenting vs. remote endarterectomy for the superficial femoral artery total occlusive lesions:
 A prospective randomized trial *Saaya Shoraan*
- 11:30 – 11:35 Comparison of clinical outcome between low-dose and high-dose Paclitaxel drug-coated balloon in endovascular therapy for femoropopliteal lesion
Shinsuke Mori
- 11:35 – 11:40 Korean multicenter prospective registry of In.PACT drug-coated balloon for popliteal artery disease (K-POP study): Preliminary results *Young-Guk Ko*
- 11:40 – 11:45 2-year results of the RANGER II SFA randomized trial *Marianne Brodmann*
- 11:45 – 11:50 Intravascular lithotripsy for the treatment of calcified peripheral artery disease in patients on hemodialysis *Ehrin Armstrong*
- 11:50 – 11:55 MIMICS-3D: 3-year clinical outcomes for the BioMimics 3D stent in a real-world population *Michael Lichtenberg*
- 11:55 – 12:00 Mechanical atherothrombectomy reduces plaque burden and improves endothelial function in peripheral artery disease *Christos Rammos*
- 12:00 – 12:05 Paclitaxel blood concentration after peripheral DCB PTA evaluated by HPLC (High Pressure Liquid Chromatography) *Matteo Tozzi*
- 12:05 – 12:10 Cost of reintervention following femoropopliteal artery revascularisation with drug-eluting compared with bare metal stents among united states medicare beneficiaries *Stefan Müller-Hülsbeck*
- 12:10 – 12:15 Validating the clinical utility of intravascular ultrasound guidance during lower-extremity peripheral vascular interventions using claims data in Japan from 2009–2020 *Yoshimitsu Soga*
- 12:15 – 12:30 Discussion and conclusion



12:30 – 13:15

LUNCH SYMPOSIUM: The CLI battle:**New frontiers – guidelines and toolbox for your daily practice**

sponsored by Cordis

Current state of CLI in Europe – guidelines on diagnosing/treating/
patient selection

Tibio-pedal artery access – when and how to use it?

CLI strategies and case management

13:30 – 14:45

Latest clinical data and original research papers: Femoropopliteal – Part II*Moderator: Erwin Blessing*

13:30 – 13:35

Application of the GoBack™ crossing catheter in endovascular revascularisation
of chronic total occlusion in patients with chronic limb threatening ischemia*Daniel Raskin*

13:35 – 13:40

Circumferential micro-incision prior to PTA reduces extent & severity of dissections
vs. PTA alone: A single center prospective data analysis *Nicolas Shammas*

13:40 – 13:45

Auryon™ laser in peripheral arterial interventions: A single center experience
(Auryon-SCE) *Nicolas Shammas*

13:45 – 13:50

Mid-term outcomes of directional atherectomy in femoropopliteal artery disease
Naomi Anning

13:50 – 13:55

Usage of contemporary drug-eluting stent by Japanese interventional radiologists
for femoropopliteal in-stent restenosis lesions: COMBAT-ISR study*Katsutoshi Takayama*

13:55 – 14:00

Comparative characteristics of the results of repeated endovascular surgery

in patients with occlusion of autovenous femo-general bypass *Anastasia Artemova*

14:00 – 14:05

Intravascular lithotripsy in calcified peripheral lesions: The real-world single-center
JEN-experience *Daniel Kretzschmar*

14:05 – 14:10

Use of the Biotronik Passeo®-18 Lux™ drug-coated balloon in Asian patients with
chronic limb threatening ischemia – 12-month results from Singapore*Mervin Nathan Han Hui Lim*

14:10 – 14:15

Korean multicenter prospective registry of In.PACT drug-coated balloon for popliteal
artery disease (K-POP study): Preliminary results *Young-Guk Ko*

14:15 – 14:20

Primary patency rate of native vessel revascularisation after failed femoropopliteal
bypass surgery *Mohamed Rizk*

14:20 – 14:25

Jetstream atherectomy followed by Paclitaxel-coated balloons vs.
balloon angioplasty followed by Paclitaxel-coated balloons: 12-month results
of the prospective randomized JET-RANGER study *Nicolas Shammas*

14:24 – 14:30

Revascularisation in acute ischemia in patients with SARS-CoV-2 *Dmitry Zyuzin*

14:30 – 14:45

Discussion and conclusion

- 14:45 – 16:00** **Challenging cases and complications: PVD/ Iliac/ SFA/ Visceral/ Renal**
Moderator: Hans Krankenberg
- 14:45 – 14:50 Antegrade and retrograde thrombectomy of an axillary-popliteal bypass using the Rotarex atherectomy catheter in a patient with acute limb ischemia
George Kouvelos
- 14:50 – 14:55 Intravascular (IVUS)-guided endovascular thrombectomy of aortic thrombosis in COVID-19 patient *Bianca Marinelli Teixeira*
- 14:55 – 15:00 The “needle bypass” technique: Percutaneous anatomical bypass with needle rendezvous for patients with peripheral arterial disease that have no other surgical options *Takuya Haraguchi*
- 15:00 – 15:05 An innovative technique for aorto-iliac revascularisation:
MISC-AB – Mini-Invasive Sutureless and Clampless Aortic Bypass *Pierre Sarradon*
- 15:05 – 15:10 Preservation of precious cross-over bypass graft despite acute COVID-19, GI bleeding and occlusion of all previous revascularisations:
A description and audience query *Ayman Zyada*
- 15:10 – 15:15 A case of an aneurysm spurium of a side branch of the popliteal artery following a proximal fracture of the lower leg and treatment with an external fixator *Viktoria Muster*
- 15:15 – 15:20 A huge pseudoaneurysm in a 10 years child after missed iatrogenic injury of the popliteal artery with distal limb ischemia: A case report *Ayman Khalil*
- 15:20 – 15:25 The “needle re-entry” technique for infrainguinal arterial calcified occlusive lesions *Takuya Haraguchi*
- 15:25 – 15:30 Iatrogenic arteriovenous fistulas (AVF) after endovascular recanalisation and angioplasty of BTK arteries occlusions, leading to stealing of the BTK blood flow. Successful correction of stealing by DES stents *Andrey Ivanov*
- 15:30 – 15:35 Staged treatment for pancreaticoduodenal artery aneurysm with celiac artery revascularisation: Case report and systematic review *Baker Ghoneim*
- 15:35 – 15:40 Nutcracker syndrome: Intravascular ultrasound guided treatment
Juan Manuel Telayna
- 15:40 – 15:45 Goldblatt kidney – a stitch in time saves nine *Krishnakishore Goyal*
- 15:45 – 16:00 Discussion and conclusion

- 16:00 – 17:00** **Challenging cases and complications: Carotid/ Embolization**
Moderators: Stefan Müller-Hülsbeck, Piero Montorsi
- 16:00 – 16:05 Brachial artery entrapment after supracondylar humeral fracture – a case report *Rita Garcia*
- 16:05 – 16:10 Left subclavian aneurysm in Ehler Danlos patient treated with coned covered stent Gore VBX+VHB *Pedro Pablo Aragon Ropero*
- 16:10 – 16:15 4 vessel extracranial fibromuscular dysplasia requires 3D modelling
Naomi Anning
- 16:15 – 16:20 Combined endovascular repair of a ruptured left subclavian artery aneurysm – a case report and literature review *Marcelo Giusti*
- 16:20 – 16:25 Endovascular management of iatrogenic internal carotid artery pseudoaneurysm after carotid endarterectomy *Mikhail Generalov*
- 16:25 – 16:30 Two – level angioplasty of critically stenosed left carotid artery with proximal neuroprotection and use of intravascular lithotripsy catheter (IVL)
Marcin Miszta
- 16:30 – 16:35 TCAR and intravascular lithotripsy: An effective combination treatment for carotid artery stenosis *Jessica Efrid*
- 16:35 – 16:40 A rare case of post-traumatic high-flow priapism requiring endovascular salvage with bilateral superselective microcoil embolization
Aman Berry Williams
- 16:40 – 16:45 Pain in the neck: Urgent microcoil embolization of a ruptured thyrocervical trunk *Aman Berry Williams*
- 16:45 – 17:00 Discussion and conclusion

- 08:00 – 09:00** **CONNECT THE WORLD SESSION: The state of art in SFA treatment: Insights from global experts**
partially supported by Medtronic
Moderator: Dierk Scheinert
How do drug-coated balloons perform in patients with critical limb ischemia? 5-year outcomes from the IN.PACT global study *Michel Reijnen*
- 09:00 – 09:30** **ASK THE EXPERTS: Our personal tips and tricks with the interwoven nitinol stent**
supported by Abbott
Moderators: Ralf Langhoff, August Ysa, Lieven Maene
Panel discussion
- 09:30 – 10:15** **Advanced techniques for challenging lesions**
Moderator: Dierk Scheinert
■ *Live case transmission from Leipzig*
Peripheral arterial vessel prepping with intravascular ultrasound and atherectomy – an interventionalist’s perspective *Nicolas Shammass*
FIRST TIME DATA RELEASE:
2 year follow-up SuperSub II study *Luis Palena*
Outcomes of the covered self-expandable stents for the treatment of critical limb ischemia patients *Michel Reijnen*
- 10:15 – 11:00** **SYMPOSIUM: IVL – consistently tackling severe calcium**
supported by Shockwave
Moderator: Konstantinos Stavroulakis
Panel: Raphael Coscas, Narayanan Thulasidasan, Michel Bosiers
10:15 – 10:25 Embracing the challenges created by severe calcification *Konstantinos Stavroulakis*
10:25 – 10:35 Simplicity and reliability: Consistent strategy produces predicable outcomes across multiple vessel beds *Raphael Coscas*
10:35 – 10:45 Reducing the risks spawned by calcium in CLTI patients *Narayanan Thulasidasan*
10:45 – 10:55 A paradigm shift in managing hostile access and facilitating endograft delivery *Michel Bosiers*
10:55 – 11:00 Q&A, discussion, and conclusion
- 11:00 – 11:45** **Latest techniques for carotid revascularisation**
Moderator: Dierk Scheinert
■ *Live case transmission from Leipzig*
Micronet-covered stent in stroke prevention and treatment: New evidence *Piotr Musialek*
Mechanical properties and vessel adaptability of carotid stents: Could these change the procedural outcomes? *Matteo Stefanini*

- 11:45 – 12:30 **Standing on evidence in SFA intervention**
 supported by Boston Scientific
Moderators: Marianne Brodmann, Antonio Micari
Panel: Sabine Steiner, Yann Gouëffic, Giovanni Torsello
- 11:45 – 11:48 Introduction: The evolution of clinical trials in SFA *Marianne Brodmann*
- FLASH PRESENTATIONS:
- 11:48 – 11:54 Highlights and insights of DCB level 1 evidence *Sabine Steiner*
- 11:54 – 12:00 Highlights and insights of DES level 1 evidence *Yann Gouëffic*
- 12:00 – 12:06 Highlights and insights of real world evidence *Giovanni Torsello*
- 12:06 – 12:27 **Panel discussion and audience interaction**
 Why evidence generation matters
 What does this mean for our SFA treatment algorithm?
 What does this mean for our patients?
 What does this mean for our hospital system?
- 12:27 – 12:30 Conclusion and close *Antonio Micari*





- 12:30 – 13:15 **LUNCH SYMPOSIUM: The Alvimedica drug approach to the treatment of lower limb lesions**
supported by Alvimedica
Moderator: Ralf Langhoff
Panel: Andrea Kahlberg, Stefan Müller-Hülsbeck, Marco Manzi, Marc Sirvent
- 12:30 – 12:32 Introduction and objectives
- 12:32 – 12:39 Amphilimus™ (Sirolimus + Fatty Acid) not only a pure drug option
Andrea Kahlberg
- 12:39 – 12:53 **Focus on SFA**
What we know and what we don't know about the use of Sirolimus
Stefan Müller-Hülsbeck
The NiTiDES™ solution *Andrea Kahlberg*
- 12:53 – 13:07 **Focus on BTK**
DES role in the treatment of the lower limb lesions *Marco Manzi*
My personal experience with Cre8™ BTK *Marc Sirvent*
- 13:07 – 13:13 Discussion
- 13:13 – 13:15 Take-home messages and closure
- 13:30 – 14:45 **SYMPOSIUM: Every patient journey deserves innovative PAD solutions: Access, restore, sustain**
supported by BD
Moderator: Koen Deloose
Panel: Theodosios Bisdas, Bruno Migliara
- 13:30 – 13:55 ■ *Live case transmission from Zurich*
- 13:55 – 14:08 Challenging patient journey chapter II – complex femeropopliteal CTO
Theodosios Bisdas
- 14:08 – 14:20 Rotational mechanical atherothrombectomy in EVAR limbs – preliminary data
Bruno Migliara
- 14:20 – 14:35 Challenging patient journey chapter III – complex iliac lesion management
Koen Deloose
- 14:35 – 14:45 Panel discussion
- 14:45 – 16:00 **SYMPOSIUM: Sirolimus coated balloon: The future of peripheral intervention**
supported by Concept Medical

16:00 – 18:00

VIVA@LINC**CLTI from challenges to milestones and what is next?***Moderators: Peter Schneider, Marianne Brodmann***Announcement Vascular Career Award****Part I: Big picture trends in CLTI***Panel: Joshua Beckman, Tony Das, Raghu Kolluri, Roberto Ferraresi*

16:00 – 16:05

The cost of CLTI: How many amputations occur each year and what is the cost to the patient and society? *Joshua Beckman*

16:05 – 16:10

What is new in imaging, functional assessment, and perfusion monitoring? *Tony Das*

16:10 – 16:15

Emerging trends: Models for team care, standardizing wound management, and best practices for long-term care *Raghu Kolluri*

16:15 – 16:25

Discussion

Part II: New interventional approaches in CLTI*Panel: Chris Metzger, Luis Palena, Venita Chandra, Koen Deloose*

16:25 – 16:50

■ *Live case transmission from St. Helena, USA*

16:50 – 16:55

How BTK alternative access techniques have changed my practice *Saher Sabri*

16:55 – 17:00

Specialty balloons and atherectomy for BTK application:

How to apply these for optimal lumen gain *Venita Chandra*

17:00 – 17:05

Drug-coated balloons BTK: What is the evidence for Paclitaxel?

What is the status of limus-based DCB? *Chris Metzger*

17:05 – 17:30

■ *Live case transmission from Leipzig*

17:30 – 17:35

Current and future BTK scaffolds: Tacks, stents, and other novel scaffolds for BTK application *Niten Singh*

17:35 – 17:40

Alternative bypass techniques: Endovascular deep venous arterialization and detour procedures – where are we so far? *Peter Schneider*

17:40 – 18:00

Discussion



- 08:00 – 09:00 Endovascular treatment of aortoiliac aneurysms: Techniques and results**
Moderators: Giovanni Torsello, Martin Malina
Panel: Spiridon Botsios, Roger Greenhalgh, Daniela Branzan, Konstantinos Donas
- 08:00 – 08:05 Mechanical characterisation of abdominal aortic aneurysm, using 4D ultrasound
Marc van Sambeek
- 08:05 – 08:10 How sac regression at 1 year affects all-cause mortality through 8 years:
 Key insights from the ENGAGE registry *Vicente Riambau*
- 08:10 – 08:15 First compiled data from German Aortic Center Hamburg,
 using Fibre Optic RealShape technology *Tilo Kölbel*
- 08:15 – 08:40 ■ *Live case transmission from Münster*
- 08:40 – 08:45 5-year follow up data of an iliac branch device *Darren Schneider*
- 08:45 – 08:50 Preservation of the internal iliac artery: The GALIBER study *Jorge Fernández Noya*
- 08:50 – 08:55 Endovascular treatment of challenging iliac with co-existing internal iliac aneurysms:
 A new European registry *Konstantinos Donas*
- 08:55 – 09:00 Anterior vs. posterior divisional branches: Where to land better in case
 of internal iliac artery aneurysms – the ROYAL-registry *Mario D'Oria*
- 09:00 – 10:15 Aortic solutions engineered to last**
 supported by Gore & Associates
Moderator: Marc van Sambeek
Panel: Dittmar Böckler, Michele Antonello, Hence Verhagen, Colin Bicknell
- 09:00 – 09:02 Introduction from the moderator
- 09:02 – 09:17 Long-term follow up demonstrates durable TEVAR outcomes: A case discussion
Dittmar Böckler
- 09:17 – 09:37 ■ *Recorded case presentation: TEVAR Michele Antonello*
- 09:37 – 09:52 Long-term follow up demonstrates durable EVAR outcomes: A case discussion
Hence Verhagen
- 09:52 – 10:12 ■ *Recorded case presentation: EVAR Colin Bicknell*
- 10:12 – 10:15 Q&A, discussion, and conclusion

10:15 – 11:15	The challenging infrarenal neck: Technical solutions and insights <i>Moderators: Hence Verhagen, Vicente Riambau</i> <i>Panel: Stefano Fazzini, Jean-Paul de Vries, Giovanni Torsello, Jorge Fernández Noya</i>
10:15 – 10:20	Clinical update and lessons learned when treating challenging necks:
10:20 – 10:25	Outcomes of the EXCeL registry <i>Marc van Sambeek</i>
10:25 – 10:30	Repositioning and renal complications in EVAR: Insights from the GREAT registry <i>TBD</i>
10:30 – 10:35	FIRST TIME DATA RELEASE: Renal function after stentgraft treatment of abdominal aneurysm: The RENOFIX, a randomized clinical study <i>Per Skoog</i>
10:35 – 10:40	ADVANCE: A novel RCT comparing sac dynamics in Medtronic and Gore EVAR devices <i>Hence Verhagen</i>
10:40 – 10:45	Proximal aortic neck angulation and AAA outcomes: Learnings and considerations <i>Giovanni Torsello</i>
10:45 – 10:50	A new era for ChEVAR: How the PROTAGORAS 2.0 study can predict sizing and planning optimization <i>Stefano Fazzini</i>
10:50 – 10:55	ChEVAR: A true success story ... if you do it right <i>Konstantinos Donas</i>
10:55 – 11:00	Stabilizing high-risk seal zones: Mid-term EndoAnchor experience <i>Luis Mariano Ferreira</i>
11:00 – 11:05	ESAR provides long-term durability in challenging proximal necks: 5-year results from the global ANCHOR study <i>Jean-Paul de Vries</i>
11:05 – 11:15	ESAR and FEVAR: How can evidence support tailored treatment of hostile neck AAAs <i>Giovanni Torsello</i>
11:15 – 12:30	Zenith® t-Branch® a well-established choice to treat TAAAs supported by COOK Medical <i>Moderator: Tim Resch</i> <i>Panel: Alexander Zimmermann, Tilo Kölbel</i>
11:15 – 11:20	Welcome from the moderator
11:20 – 11:30	Technical features carry technical success <i>Alexander Zimmermann</i>
11:30 – 12:00	■ <i>Live case transmission from Hamburg</i>
12:00 – 12:10	Standardizing complex procedures to optimize outcomes <i>Tilo Kölbel</i>
12:10 – 12:15	■ <i>Live case transmission from Hamburg</i>
12:15 – 12:30	Q&A, discussion, and conclusion



- 12:30 – 13:15** **LUNCH SYMPOSIUM: From data to everyday practice with Advanta V12: Trusted on table, reliable over time**
supported by Getinge
Moderator: Tilo Kölbel
Panel: Andrej Schmidt, Jean-Paul de Vries, Lorenzo Patrone
Introduction *Tilo Kölbel*
12:30 – 12:35 How to become an expert in complex AIOD treatment *Andrej Schmidt*
12:35 – 12:43 Durability of Advanta V12 as a renal stent in complex aortic cases
12:43 – 12:51 *Jean-Paul de Vries*
12:51 – 12:59 A stent that you can count on at 5 years and beyond:
Physician's and patient's experience *Lorenzo Patrone*
12:59 – 13:15 Discussion and conclusion
- 13:30 – 14:15** **Tailoring complex endovascular repair with off-the-shelf solutions**
supported by Medtronic
Moderator: Vicente Riambau
Panel: Rob Fisher, Konstantinos Donas, Andrés Reyes Valdivia
13:30 – 13:33 Welcome and introduction *Vicente Riambau*
13:33 – 13:41 Addressing the unmet needs of challenging neck anatomy patients *Rob Fisher*
13:41 – 13:49 On-label ChEVAR: Why optimal device combination and standardized procedure
yields durable results *Konstantinos Donas*
13:49 – 13:57 The unique benefits of EndoAnchors in hostile proximal necks *Andrés Reyes Valdivia*
13:57 – 14:12 Discussion
14:12 – 14:15 Closing remarks *Vicente Riambau*
- 14:15 – 15:30** **Latest solutions for endovascular thoracoabdominal aortic repair**
supported by Artivion
Moderator: Tim Resch
14:15 – 14:23 Inner branches in dissections *Vladimir Makaloski*
14:23 – 15:06 ■ *Live case transmission from Leipzig*
15:06 – 15:14 Technical learnings from Enside procedures *Sébastien Déglise*
15:14 – 15:22 iBEVAR clinical experience *Said Abisi*
15:22 – 15:30 The role of 4D flow MRI in the use of inner branched TAAA devices:
Reality or science fiction? *Theodosios Bisdas*
- 15:30 – 16:15** **Addressing abdominal complexities with custom solutions**
supported by Terumo Aortic
Moderator: Piotr Szopiński
Panel: Kak Khee Yeung, Jürgen Falkensammer
15:30 – 15:35 Introduction *Piotr Szopiński*
15:35 – 15:45 Next generation lower profile fenestrated device graft – initial feedback
Kak Khee Yeung
15:45 – 15:55 How to cover the uncoverable with fenestrated iliac leg solution
Jürgen Falkensammer
15:55 – 16:05 Overcoming challenging anatomy with ring stent and unsupported fenestrated graft
Vladimir Makaloski
16:05 – 16:15 Discussion and conclusion

- 16:15 – 18:00** **Pioneering techniques and challenges in Thoracoabdominal Aortic Aneurysms (TAAA) repair**
Moderators: Giovanni Torsello, Eric Verhoeven
Panel: Piotr Kasprzak, Tilo Kölbel, Martin Austermann, Daniela Branzan, Frank Veith
- 16:15 – 16:20 F/B-EVAR: Ancillary devices and techniques *Eric Verhoeven*
- 16:20 – 16:25 VBX as fenestrated/branched bridging stent. EXPAND and personal clinical experience, our key learnings *Martin Austermann*
- 16:25 – 16:30 Outcomes of Advanta V12 covered stents after fenestrated endovascular aneurysm repair – the BUTTERFLY study *Jean-Paul de Vries*
- 16:30 – 16:35 Treatment via relining with V12 Advanta covered stents of dissolving PTFE covered stents after B/FEVAR *Ioannis Passaloglou*
- 16:35 – 16:40 Bridging from off to on-label in BEVAR *Martin Austermann*
- 16:40 – 17:05 ■ *Live case transmission from Paris*
- 17:05 – 17:10 Preliminary clinical and radiologic outcome of matched patients with thoracoabdominal aortic aneurysms treated by low-profile vs. standard profile branched aortic endografts *Giovanni Federico Torsello*
- 17:10 – 17:15 Transfemoral access for branched EVAR has become the new standard *Tilo Kölbel*
- 17:15 – 17:20 Value of steerable sheaths and multiport sheaths in complex endovascular aortic repair *Nikolaos Tsilimparis*
- 17:20 – 17:25 Stability of steerable sheaths for branched EVAR: A bench comparison *Giuseppe Panuccio*
- 17:25 – 17:30 TAAA open repair and organ protection: The 2022 update *Roberto Chiesa*
- 17:30 – 17:35 Combined open and endovascular solutions for complex thoraco abdominal aortic aneurysms *Michael Jacobs*
- 17:35 – 17:40 Hybrid thoracoabdominal repair with the Thoracoflow prosthesis: Early experience *Sabine Wipper*
- 17:40 – 17:45 Open branch in BEVAR is a valid option to prevent postoperative paraplegia *Piotr Kasprzak*
- 17:45 – 17:50 Preoperative embolization of segmental arteries for protection from spinal ischemia after EVAR – results and perspectives *Daniela Branzan*
- 17:50 – 17:55 Is CO² angiography for EVAR and fEVAR treatment efficient? *Eric Ducasse*
- 17:55 – 18:00 Discussion and conclusion

- 08:30 – 09:45 Latest results from clinical trials and innovations**
Moderator: Francesco Liistro
- 08:30 – 08:35 Natural progression of high-risk chronic limb-threatening ischemia: The CLarITI study *Anahita Dua*
- 08:35 – 08:40 Results of the Prelude BTK study: Novel serration angioplasty balloon for the below-the-knee arteries *Michael Lichtenberg*
- 08:40 – 08:45 MOTIV bioresorbable BTK scaffold pilot study: Preliminary results through 6 months *Thomas Rand*
- 08:45 – 08:50 Update on the DEEPER LIMUS trial: The temporary Spur stent system in conjunction with a Sirolimus-coated balloon *Marianne Brodmann*
- 08:50 – 08:55 The novel temporary Spur stent system used in conjunction with a commercially available, Paclitaxel-coated balloon: 6-months results of the DEEPER OUS trial – Arnsberg experience *Michael Lichtenberg*
- 08:55 – 09:00 Clinical risk associated with contrast angiography in metformin treated diabetes patients *Manuela Konert*
- 09:00 – 09:05 Balloon assisted retrograde puncture of distal vessels in poor candidates for a conventional transpedal approach *Marta Lobato*
- 09:05 – 09:10 Totally percutaneous arterialization of the foot through the superficial dorsal venous system – SuperSaVe-technique *Bruno Migliara*
- 09:10 – 09:15 The Limus-Coated temporary Spur stent system: DEEPER drug therapy for infrapopliteal disease *Jihad Mustapha*
- 09:15 – 09:20 Real-world performance of Novel Shock Wave wire in complex CTO lesions *Marianne Brodmann*
- 09:20 – 09:25 The needle rendezvous technique: The novel guidewire externalization technique using a needle without inserting microcatheter *Masanaga Tsujimoto*
- 09:25 – 09:30 Multi-site tibial intervention procedure using XO cross microcatheters in triaxial support configuration including wireless microcatheter navigation *Greg Method*
- 09:30 – 09:45 Discussion and conclusion

- 09:45 – 11:00** **Latest clinical data and original research papers: Interventions in CLTI – Part I**
Moderators: Luis Palena, Katja Mühlberg
- 09:45 – 09:50 Retrograde tibial access for revascularisation of long chronic total occlusion in patients with chronic limb threatening ischemia *Daniel Raskin*
- 09:50 – 09:55 Comparative study between negative pressure wound therapy and standard moist wound dressing *Mina Gamil*
- 09:55 – 10:00 New strategy for reducing adverse cardiac events and improving survival of patients with chronic limb-threatening ischaemia *Dainis Krievins*
- 10:00 – 10:05 Factors predicting adverse outcomes for patients with chronic limb threatening ischaemia and infra-popliteal disease *Terri-Ann Russell*
- 10:05 – 10:10 Management of Buerger's disease in endovascular era *Baker Ghoneim*
- 10:10 – 10:15 Standard balloon angioplasty vs. Serranator serration balloon angioplasty for the treatment of below-the-knee artery occlusive disease:
A sub-analysis from the Vascular Center in Graz/Austria in the PRELUDE-BTK prospective study *Katharina Gütl*
- 10:15 – 10:20 Interim analysis results of PiPeR-registry prospective monocentric study on totally percutaneous foot veins arterialization *Bruno Migliara*
- 10:20 – 10:25 Revascularisation of target artery path is a substantial way for salvage of critical limb ischemia *Ahmed Sakr*
- 10:25 – 10:30 Toe blood flow pattern just after pedal arch angioplasty and foot prognosis in the CLTI patients *Kuniyoshi Fukai*
- 10:30 – 10:35 Twelve months clinical outcomes of percutaneous deep venous arterialization with an alternative techniques and ordinary endovascular therapy devices for patients with chronic limb threatening ischemia: From the result of DEPARTURE Japan study *Tatsuya Nakama*
- 10:35 – 10:40 Wifl classification vs. angiosome concept: A change in the infrapopliteal angioplasties paradigm *Rafael de Athayde Soares*
- 10:40 – 10:45 4-year follow-up of bioresorbable vascular scaffolds in severe infra-popliteal arterial disease *Atman Shah*
- 10:45 – 11:00 Discussion and conclusion

- 11:00 – 12:30 Latest clinical data and original research papers: AV Access and Venous**
Moderators: Houman Jalaie, Steven Black
- 11:00 – 11:05 Outcome of angioplasty of occluded arteriovenous fistula for hemodialysis: Single centre experience *Baker Ghoneim*
- 11:05 – 11:10 RANGER™ Paclitaxel-coated balloon vs. conventional balloon angioplasty for treatment of failing arteriovenous fistulas and grafts in a retrospective cohort study in Asian patients on Haemodialysis *Tjun Tang*
- 11:10 – 11:15 Long term results of Supera in the AVF junta-anastomosis *Shannon Thomas*
- 11:15 – 11:20 Arteriovenous fistula formation with adjuvant endovascular maturation *Shannon Thomas*
- 11:20 – 11:25 The significant related factors and 24-month intervention outcomes in Type-1 and non-Type 1 thoracic central vein obstruction in hemodialysis patients *Poj Lapasampanno*
- 11:25 – 11:30 XperCT facilitates sharp recanalization for the treatment of chronic thoracic venous occlusive disease in hemodialysis patients *Bin Chen*
- 11:30 – 11:35 Timing RSVP (Reperfusion symptoms to vein patency) in lower limbs large veins *Juan Manuel Telayna*
- 11:35 – 11:40 AngioJet catheter directed thrombolysis for massive and submassive PE *Naomi Anning*
- 11:40 – 11:45 Clot burden reduction after aspiration thrombectomy in main vs. branch pulmonary artery emboli: A subgroup analysis of the EXTRACT-PE trial *John Moriarty*
- 11:45 – 11:50 McCleery's syndrome the overlooked cause of swollen upper limb, completion venoplasty is the key word for successful surgical decompression *Ahmed Allam*
- 11:50 – 11:55 Safety and efficacy of Endovenous Laser ablation (EVLA) using 1940nm and radial emitting fiber – 3-year results of a prospective, non-randomized study and comparison with 1470nm *Abhay Setia*
- 11:55 – 12:00 Radiofrequency ablation for markedly incompetent perforators vs. compression therapy in the management of post-phelebotic venous ulcers: A randomized controlled trial *Mohammed Shukry*
- 12:00 – 12:05 Transcatheter embolo-sclerotherapy of high flow arteriovenous malformations *Ehab Saad*
- 12:05 – 12:30 Discussion and conclusion

- 12:30 – 13:00 **ASK THE EXPERTS: From venous to arterial optimal vessel closure with new generation suture mediated vessel closure**
supported by Abbott Vascular
- 13:30 – 14:45 **Latest clinical data and original research papers: Interventions in CLTI – Part II**
Moderators: Marianne Brodmann, Marcus Thieme
- 13:30 – 13:35 Role of peroneal only angioplasty for limb salvage in patients with critical limb ischemia *Mohamed Abdelsamie*
- 13:35 – 13:40 The preliminary outcome of laser-assisted angioplasty combined with endovascular radiofrequency ablation for thromboangiitis obliterans
Lin Yang
- 13:40 – 13:45 Utility of Sirolimus drug eluting balloons in the treatment of complex infra-inguinal atherosclerotic disease in patients with chronic limb threatening ischemia – 6 months results from the PRISTINE registry *Tjun Tang*
- 13:45 – 13:50 Results of CLI of the multicentric registry of lower limbs angioplasty in Argentina *Ana Mollon*
- 13:50 – 13:55 Intraoperative tissue perfusion evaluation using near infrared spectroscopy during below-the-knee arteries revascularisation *Tomas Baltrunas*
- 13:55 – 14:00 Mid-term results of lytic therapy in vasculitic patients with acute ischemia
Mohammed Shukry
- 14:00 – 14:05 The catastrophic impact of COVID-19 infection in patients with chronic limb threatening ischaemia *Rafael de Athayde Soares*
- 14:05 – 14:10 Endovascular treatment in patients with thromboangiitis obliterans and chronic limb ischemia – systematic review and meta-analysis *George Galyfos*
- 14:10 – 14:15 Adipose-derived stem cells in patients with venous ulcers:
A systematic review *Mohamed Elsharkawi*
- 14:15 – 14:20 Risk factors for early failure of transmetatarsal amputation performed in association to revascularisation of advanced chronic limb threatening ischemia *Cecilia Angherà*
- 14:20 – 14:25 The role of targeted infra-popliteal endovascular angioplasty to treat diabetic foot ulcers using the angiosome model: A systematic review *Erin Saricilar*
- 14:25 – 14:45 Discussion and conclusion

- 14:45 – 16:00** **Challenging cases and complications: AV Access and Venous**
Moderators: Gerard O'Sullivan, Stefan Müller-Hülsbeck
- 14:45 – 14:50 Massive hemothorax after sharp transeptal needle recanalisation of chronic right brachiocephalic venous occlusion with successful endovascular correction
Panat Nisityotakul
- 14:50 – 14:55 Migration of stent placed in the left pulmonary vein into the iliac bifurcation
Nancy Coraizaca
- 14:55 – 15:00 The outside-in double snare technique to treat long central venous occlusion
Wanchai Chinchalongporn
- 15:00 – 15:05 Nutcracker syndrome and management of co-existing of May-Thurner, median arcuate ligament, superior mesenteric artery, and/or pelvic congestion syndromes: A single-center experience of 26 patients
Kurtis Kim
- 15:05 – 15:10 Catheter-directed thrombolysis and covered stent in a case of complete superior vena cava and brachiocephalic veins obstruction after cardiac transplantation for a rare heart defect
Maria Antonella Ruffino
- 15:10 – 15:15 Great veins program: Do we have everything it takes?
Juan Manuel Telayna
- 15:15 – 15:20 Percutaneous thrombectomy of supra-inferior vena cava filter thrombosis
Momodou Jammeh
- 15:20 – 15:25 Dual pathway through femoral vein and urinary catheter for endovascular treatment of internal iliac vein injury
Konstantinos Spanos
- 15:25 – 15:30 Inferior vena cava filter thrombosis: 10 years experience
Ayman Fakhry
- 15:30 – 15:35 Inferior vena cava tear
Bhaskar Purushottam
- 15:35 – 15:40 Endovascular retrieval of cement intracaval and in the common iliac vein: A fishing net technique
Shuaib Akifi
- 15:40 – 15:45 Epithelioid hemangioma of inferior vena cava: Initial catheter directed thrombolysis unmask the diagnosis
Tamer Khafagy
- 15:45 – 15:50 Bilateral iliac veins and vena cava obstruction treated with unilateral endovenous recanalisation and cross-femoral venous bypass using dilated superficial epigastric veins
Kanin Pruekprasert
- 15:50 – 16:00 Discussion and conclusion

- 16:00 – 17:00** **Challenging cases and complications: EVAR – Part I**
Moderators: Maria Antonella Ruffino, Hervé Rousseau
- 16:00 – 16:05 9 aneurysms : 1 patient *Supatcha Prasertcharoensuk*
- 16:05 – 16:10 Infected EVAR & TEVAR after endovascular repair of impending rupture TAAA:
 The good, the bad and the ugly *Samer Koussayer*
- 16:10 – 16:15 How to do it: Chimney endovascular aneurysm repair (ChEVAR)
 of an abdominal aortic aneurysm associated with crossed fused
 renal ectopia *Luis Fernando Garcia*
- 16:15 – 16:20 Endovascular repair of complex aortic aneurysms using physician-modified
 stent-graft with inner branches *Tsuyoshi Shibata*
- 16:20 – 16:25 Challenges and considerations associated with transsternal Zone 0 hybrid
 arch repair: Report of 2 cases *James Ebaugh*
- 16:25 – 16:30 Emergency treatment of a symptomatic juxtarenal AAA after EVAR migration
Daniele Pennica
- 16:30 – 16:35 Embolization of gutter-related Type Ia endoleak after chimney TEVAR
 via non-thrombosed vascular plug at left subclavian artery
Chinapath Vuthivanich
- 16:35 – 16:40 Endovascular and hybrid aortic arch operations: A single center experience
Nikolay Susantin
- 16:40 – 16:45 Spinal cord ischemia: The most challenging complication in complex aortic
 surgery. Is intraoperative neuromonitoring a useful tool in the intraoperative
 decision making to minimize paraplegia? *Rosa Villardefrancos Gil*
- 16:45 – 16:50 Aortic transection – a case series *Rita Garcia*
- 16:50 – 17:00 Discussion and conclusion

08:00 – 09:15

CONNECT THE WORLD SESSION in collaboration with JET**Peripheral wiring techniques for CTO lesions**

partially supported by Asahi Intecc

*Moderator: Roberto Ferraresi**Co-Moderator: Hiroyoshi Yokoi**Panel: Yoshimitsu Soga, Daniel van den Heuvel, Steven Kum, Koen Deloose*■ *with Osamu Iida live from Amagasaki*■ *with Marco Manzi live from Abano Terme***FLASH PRESENTATIONS:**Current status of CLTI *Roberto Ferraresi*Antegrade wire escalation for BTK lesions *Koen Deloose*Distal puncture and retrograde looping wire technique *Tatsuya Nakama*

09:15 – 10:30

Limb preservation masterclass: Cutting edge techniques and tools for CLTI

supported by COOK Medical

*Moderator: Jos van den Berg**Panel: Marianne Brodmann, Marco Manzi*■ *Live case transmission from Leipzig*

09:15 – 09:40

09:40 – 09:53

The cost of endovascular limb preservation vs. amputation

Marianne Brodmann

09:53 – 10:06

The antegrade approach to CLTI and advanced CTO crossing strategies

Jos van den Berg

10:06 – 10:19

Pedal artery revascularisation: The retrograde approach to CLTI and advanced CTO crossing strategies *Marco Manzi*

10:19 – 10:30

Q&A, discussion, and conclusion

10:30 – 11:15

New techniques and technologies for BTK interventions – latest data

Moderators: Marianne Brodmann, Steven Kum

Panel: Tatsuya Nakama, Francesco Liistro, Yoshimitsu Soga, Luis Palena

■ *Live case recap from first session*

10:30 – 10:35

ACOART-BTK: 3-year clinical outcome *Francesco Liistro*

10:35 – 10:40

Current status and future of limus based drug coated balloons in the infrapopliteal arteries *Erin Armstrong*

10:40 – 10:45

10:45 – 10:50

Latest evidence for focal dissection repair with the Tack endovascular scaffold: Reviewing the 2-year TOBA II BTK data *Michael Lichtenberg*

10:50 – 10:55

When to stent tibial arteries: Update on ablutimus sirolimus eluting stent trial *Edward Choke*

10:55 – 11:00

SAVAL DES BTK: 12-month update *Jihad Mustapha*

11:00 – 11:05

Current technology for BTK scaffolds *Brian DeRubertis*

11:05 – 11:10

Bioresorbable scaffolds for BTK interventions (LIFE-BTK) *Sahil Parikh*

11:10 – 11:15

TBD *Marianne Brodmann*



- 11:15 – 12:30 **SYMPOSIUM: Redefining vascular treatment strategy for AVF and AVG:
A deep dive into Sirolimus coated balloon**
supported by Concept Medical
- 12:30 – 13:25 **LUNCH SYMPOSIUM: Innovations and new applications
of embolization therapies**
Moderators: Walter A. Wohlgemuth, Romaric Loffroy
Panel: Costantino del Giudice, Gloria Salazar, Ripal Gandhi, Clifford Weiss
- 12:30 – 12:35 Management of endoleaks via direct puncture with Onyx 34L
Arne Schwandt
- 12:35 – 12:40 Contemporary peripheral aneurysm management: Techniques with fibered coils
and micro vascular plugs *Ripal Gandhi*
- 12:40 – 12:50 ■ *Recorded case presentation Andrej Schmidt*
- 12:50 – 12:55 French SEAL registry: Type II EndoLeak treatment outcomes using EVOH
Costantino del Giudice
- 12:55 – 13:00 Pulmonary AVMs: Deep dive into new data and guideline updates
Clifford Weiss
- 13:00 – 13:05 Using liquids in trauma cases: Application of Onyx LES *Romaric Loffroy*
- 13:05 – 13:10 Embolic selection for hemorrhoids: New application for coil technology
Gloria Salazar
- 13:10 – 13:15 The CHRYSALIS study: First experience with the Caterpillar embolization device
Andrew Holden
- 13:15 – 13:25 Discussion and conclusion



- 13:30 – 15:00 **A comprehensive look at CLTI treatment: New approaches for assessment of CLTI and pioneering options for “No-hope-patients” – part I**
Moderators: Jos van den Berg, Marianne Brodmann
Panel: Jihad Mustapha, William Gray, Roberto Ferraresi, Eric Ducasse
- 13:30 – 13:35 Hemodynamic vs. anatomical diagnosis of CLI *Jihad Mustapha*
- 13:35 – 13:55 ■ *Live case transmission from Abano Terme – part I*
- 13:55 – 14:00 Different types of atherosclerosis of the tibial arteries:
 Learn the histopathology *Jihad Mustapha*
- 14:00 – 14:05 The role of vascular recoil in tibial arteries – the concept of the Choco Cabana study *Gunnar Tepe*
- 14:05 – 14:10 Angiolite BTK trial: 2-year data in CLTI *Peter Goverde*
- 14:10 – 14:15 Biblios trial: Investigating the safety and efficacy of the Luminor 14 DCB in the treatment of BTK lesions in real CLTI patients: Preliminary data (first 100 patients) *Koen Deloose*
- 14:15 – 14:35 ■ *Live case transmission from Abano Terme – part II*
- 14:35 – 14:40 Initial experience with the Microstent in tibial arteries – Insights from the STAND trial *Robert Beasley*
- 14:40 – 14:45 The Novel Temporary Spur stent system used in conjunction with a commercially available Paclitaxel balloon: 6-month results of the Deeper OUS trial *Andrew Holden*
- 14:45 – 14:50 Dissection analysis after BTK-intervention with the Serranator device: A core-lab adjudicated study *Michael Lichtenberg*
- 14:50 – 14:55 CLTI – vascular recurrence. How to monitor and when to re-intervene *Venita Chandra*
- 14:55 – 15:00 Remaining place for distal bypasses in BTK area *Eric Ducasse*
- 15:00 – 15:45 **SYMPOSIUM: WavelinQ™ EndoAVF system:
 An innovative additional option, patient centric solution**
 supported by BD
Moderator: Tobias Steinke
Panel: Panagiotis Kitrou, Ounali Jaffer, Fien Gryffroy
- 15:00 – 15:07 WavelinQ™ EndoAVF global clinical program, new and available evidence *Panagiotis Kitrou*
- 15:07 – 15:14 ■ *Recorded case with WavelinQ™ EndoAVF system: The antiparallel option*
Ounali Jaffer
- 15:14 – 15:21 ■ *Recorded case with WavelinQ™ EndoAVF system: The parallel option*
Fien Gryffroy
- 15:21 – 15:28 Secondary procedures on EndoAVF: A practical approach *Tobias Steinke*
- 15:28 – 15:45 Panel discussion

- 15:45 – 17:30 **A comprehensive look at CLTI treatment: New approaches for assessment of CLTI and pioneering options for “No-hope-patients” – part II**
Moderators: Peter Schneider, Arne Schwindt
Panel: Steven Kum, Roberto Ferraresi, Miguel Montero-Baker, Mehdi Shishehbor, Katja Mühlberg
- Focus on deep venous arterialization**
- 15:45 – 15:50 UCSF no-option patient identification rationale and experience *Peter Schneider*
- 15:50 – 15:55 Latest insights on DVA mechanism of action *Roberto Ferraresi*
- 15:55 – 16:00 When all hope seemed lost: My best cases of plantar vein arterialization using the LIMFLOW-procedure *Arne Schwindt*
- 16:00 – 16:10 ■ *Recorded LimFlow case with Miguel Montero-Baker*
- 16:10 – 16:15 PROMISE I 24 month data *Mehdi Shishehbor*
- 16:15 – 16:20 Post DVA procedural best practices with case examples *Arne Schwindt*
- 16:20 – 16:25 Post DVA wound care *Giacomo Clerici*
- 16:25 – 16:30 Discussion
- 16:30 – 16:55 ■ *Live case transmission from Leipzig*
- 16:55 – 17:00 Below-the-ankle vessel disease; when being aggressive, when being moderate and gentle, when not touching *Roberto Ferraresi*
- 17:00 – 17:05 Wound adjudication in CLTI/CLI trials *Raghu Kolluri*
- 17:05 – 17:10 GLASS – global vascular guidelines: What are they and how valid are they in predicting outcomes in a comprehensive wound care program?
Venita Chandra
- 17:10 – 17:15 CLTI blueprints – establishing novel TOE, FLOW, and GO units of care
Miguel Montero-Baker
- 17:15 – 17:30 Discussion and conclusion

- 08:00 – 09:15** **Endovascular aortic repair for acute aortic syndroms**
Moderators: Vicente Riambau, Stéphan Haulon
Panel: Weiguo Fu, Dittmar Böckler, Santi Trimarchi
- 08:00 – 08:05 Aortic remodeling and long-term success in the treatment of complicated dissections *Ludovic Canaud*
- 08:05 – 08:35 ■ *Live case transmission from Hamburg*
- 08:35 – 08:40 **FIRST TIME DATA RELEASE:**
 Differences in mid-term outcomes between patients undergoing endovascular aortic repair for aneurysm or acute and chronic aortic syndromes: Report from GREAT
Chiara Lomazzi
- 08:40 – 08:45 10-year clinical outcome and experience of TBAD patients with TEVAR in Shanghai Zhongshan Hospital *Weiguo Fu*
- 08:45 – 08:50 Is distal oversizing the sole cause for distal stent graft-induced new entry in TEVAR?
Stefano Fazzini
- 08:50 – 08:55 Low distal radial force TEVAR devices to prevent SINE *Anders Wanhainen*
- 08:55 – 09:00 Treatment of PAU with a balloon expandable covered stent – a multi-center experience *Nikolaos Tsilimparis*
- 09:00 – 09:05 Preventing aortic remodeling post-Type A aortic dissection repair *Michael Borger*
- 09:05 – 09:10 The role of 3D printing in the treatment of urgent complex aortic pathologies
Daniela Branzan
- 09:10 – 09:15 Discussion and conclusion
- 09:15 – 09:50** **CONNECT THE WORLD SESSION:**
Innovations in endovascular thoraco abdominal aortic repair
 supported by Lifetech
- 09:15 – 09:35 ■ *Recorded case presentation from Beijing* *Guo Wei*
- 09:35 – 09:42 Application of fenestration technique in aortic arch disease *Chang Shu*
- 09:42 – 09:49 A new adjustable puncture device for in situ fenestration during thoracic endovascular aortic repair *Weiguo Fu*
- 09:49 – 09:50 Discussion and conclusion

- 09:50 – 11:05** **Latest techniques and technologies for TEVAR in the aortic arch**
partially supported by Artivion
Moderators: Tilo Kölbel, Mario Lachat
Panel: Wei Guo, Theodosios Bisdas
- 09:50 – 10:15 ■ *Live case transmission from Leipzig Heart Center*
- 10:15 – 10:20 Nexus Aortic Arch system: Tips and tricks for addressing complex cases
Mario Lachat
- 10:20 – 10:25 The THRIOMPE study: NEXUS arch branch FDA clinical trial *Jean Panneton*
- 10:25 – 10:30 Emergency treatment in arch pathologies *Miguel Angel Gómez Vidal*
- 10:30 – 10:35 Can a single branch approach significantly mitigate stroke risks?
A 28-patient series seems to suggest so *Michele Antonello*
- 10:35 – 10:40 Guo's aortic arch reconstruction: The prospective, multiple center study about the safety and efficacy of WeFlow-Arch™ stent graft system (GIANT study) *TBD*
- 10:40 – 10:45 A complete percutaneous technique for three-branched arch TEVAR
Stéphan Haulon
- 10:45 – 10:50 In situ fenestration as an alternative to branched aortic arch devices
Ralf Kolvenbach
- 10:50 – 10:55 Fenestrated arch TEVAR: When to use it *Tilo Kölbel*
- 10:55 – 11:00 Hybrid repair still remains a good option for aortic arch pathology
Vicente Rimbau
- 11:00 – 11:05 Extra-anatomic bypass for recurrent aortic coarctation *Michael Borger*
- 11:05 – 12:30** **Endovascular repair of the thoracic aorta – current techniques**
Moderators: Dittmar Böckler, Theodosios Bisdas
Panel: Marc van Sambeek, Stephen Cheng
- 11:05 – 11:10 Results from the Zephyr study *Dittmar Böckler*
- 11:10 – 11:15 Early clinical experience with the new Ankura Thoracic stent graft
Theodoros Kratimenos
- 11:15 – 11:20 Initial experience using in-situ-fenestration of the aortic arch pathologies
Marwan Youssef
- 11:20 – 11:25 Validation of TEVAR results across multiple diseases: A French experience
Hervé Rousseau
- 11:25 – 11:30 Management and treatment of patients with blunt trauma aortic injury:
5-year results from the RESCUE trial *Ali Azizzadeh*
- 11:30 – 12:00 ■ *Live case transmission from Paris*
- 12:00 – 12:05 Long-term TEVAR performance in the dynamic TAA pathology
Giovanni Tinelli
- 12:05 – 12:10 Current trends in reduction or elimination of rapid pacing during stent-graft
deployment *Dittmar Böckler*
- 12:10 – 12:15 Endoanchor applicability in TEVAR *Vicente Rimbau*
- 12:15 – 12:20 Stroke rate after thoracic endovascular aortic repair using de-airing
of stentgrafts with high-volume of saline solution *Daniela Branzan*
- 12:20 – 12:25 Prevention of air-embolism using carbondioxide flushing:
What is the evidence? *Tilo Kölbel*
- 12:25 – 12:30 Discussion and conclusion



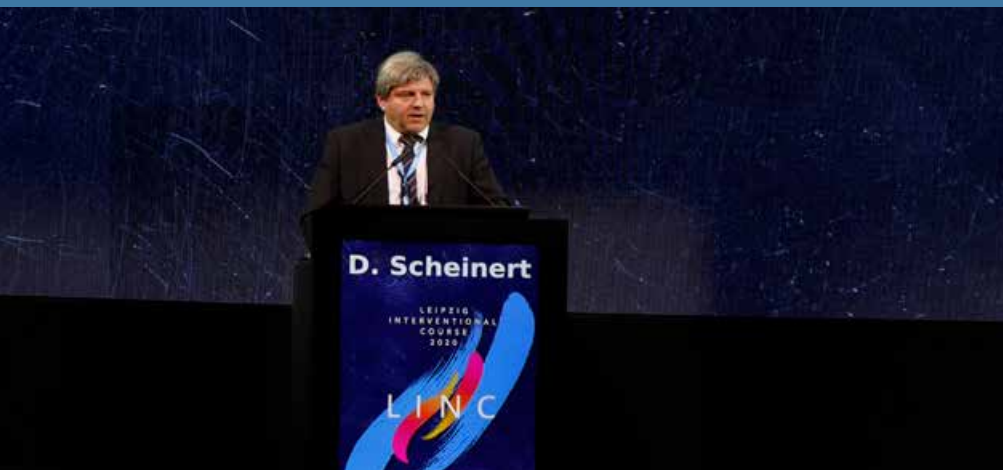
- 12:30 – 13:15** **LUNCH SYPOSIUM: Advancing procedures in complex aortic repair**
supported by Philips
Moderator: Bijan Modarai
- 12:30 – 12:35 Introduction by the moderator
- 12:35 – 12:45 Improving outcomes of complex aortic procedures using advanced imaging techniques *Frederic Cochennec*
- 12:45 – 12:55 Improving AAA measurement accuracy using innovative Ultrasound 3D volume model automation and xMATRIX *Qasam M. Ghulam*
- 12:55 – 13:05 The use of Fiber Optic RealShape (FORS) technology in various arterial and venous interventions *G.W.H. Schurink*
- 13:05 – 13:15 Discussion and conclusion
- 13:30 – 14:30** **Aortic controversies – preservation as a standard of care:**
Achieving a durable EVAR outcome in a compromised iliac seal zone
partially supported by Gore & Associates
Moderator: Konstantinos Donas
Panel: Jan Heyligers, Mauro Gargiulo, Jorge Fernández Noya
Does preservation always matter? When is it important to maintain flow to both IIA? *Jan Heyligers*
■ *Live case transmission from Leipzig*
When to use a limb instead of an iliac branched device? *Mauro Gargiulo*
Dynamic CT evaluation of iliac branched devices *Michel Reijnen*
Advanced concepts for treating the diseased hypogastric – does the data support it? *Jorge Fernández Noya*
- 14:30 – 15:15** **CONNECT THE WORLD SESSION:**
supported by Shanghai MicroPort Endovascular

- 15:15 – 16:30** **Repair options for chronic aortic dissections**
Moderators: Bijan Modarai, Luca Bertoglio
Panel: Eric Verhoeven, Armando Lobato, Weiguo Fu
- 15:15 – 15:20 The natural history of chronic aortic dissections with and without TEVAR: Implications for repair considerations *Stephen Cheng*
- 15:20 – 15:25 How to handle specific anatomies in PDTAAA *Eric Verhoeven*
- 15:25 – 15:30 The Zenith TX2 dissection endovascular graft: Results of a dedicated dissection stent-graft from a European registry *Bijan Modarai*
- 15:30 – 15:35 Early outcomes of a new generation covered stent in branched endovascular repair of thoracoabdominal aneurysms *Said Abisi*
- 15:35 – 15:40 GORE® EXCLUDER® Thoracoabdominal Branch Endoprosthesis: First European clinical experience *Mohammad Hamady*
- 15:40 – 16:05 ■ *Live case transmission from Hamburg*
- 16:05 – 16:10 How to create a uniluminal state to prevent aortic dilatation in chronic aortic dissection *Juan Parodi*
- 16:10 – 16:15 Results of false lumen occlusion using the Candy-Plug: A European experience *Ahmed Eleshra*
- 16:15 – 16:20 Symptomatic aneurysm of the left subclavian artery's ostium. Endovascular technique with CERA plug *Luis Miguel Salméron Febres*
- 16:20 – 16:25 The Lobato technique for acute Type B aortic dissection complicated with thoracoabdominal aortic aneurysm and total true lumen occlusion of the infrarenal aorta *Armando Lobato*
- 16:25 – 16:30 Endovascular repair options in chronic aortic dissection *Kyriakos Oikonomou*
- 16:30 – 17:15** **Aortic repair in genetic and congenital aortic syndroms**
Moderator: TBD
Panel: Yskert von Kodolitsch, Ahmed Eleshra, Kyriakos Oikonomou
- 16:30 – 16:35 Overview of genetic aortic syndromes *Yskert von Kodolitsch*
- 16:35 – 16:40 Single-center results of endovascular repair in patients with Marfan Syndrome *Ahmed Eleshra*
- 16:40 – 16:45 Latest results on the treatment of CoA with large diameter balloon expandable covered stents *Kyriakos Oikonomou*
- 16:45 – 17:15 Discussion and conclusion

08:30 – 09:45	Latest results from clinical trials and innovations: EVAR <i>Moderators: TBD</i>
08:30 – 08:35	Gender differences in proximal neck anatomy and their consequences in patients with abdominal aortic aneurysms <i>Denise Özdemir-van Brunschot</i>
08:35 – 08:40	E-xtra DESIGN multibranch stent grafts in the treatment of thoracoabdominal aneurysms: Early results of the CONNECT investigation <i>Hubert Schelzig</i>
08:40 – 08:45	Multilayer flow modulator stent for aortic pathology: A single-centre retrospective cohort study <i>Denise Özdemir-van Brunschot</i>
08:45 – 08:50	Cardiac plug – dissection stent configuration (Caulking technique) A new configuration for treatment of sub-acute Type B aortic dissection <i>Osman Mahmoud</i>
08:50 – 08:55	Deployment system to deliver a novel adhesive patch to treat aortic dissections <i>Alejandro Aranda</i>
08:55 – 09:00	ANEUFIX, a novel treatment for Type 2 endoleak: Multicenter pivotal trial of technical success, safety and clinical benefit, first results <i>Arjan Hoksbergen</i>
09:00 – 09:05	Computed tomography-applied software guided early detection of junctional separation between aortic endograft components <i>William Yoon</i>
09:05 – 09:45	Discussion and conclusion
10:15 – 11:15	Challenging cases and complications: EVAR – Part II <i>Moderator: Spiridon Botsios</i>
10:15 – 10:20	Mycotic aortic aneurysm rupture exposing the spine <i>Rita Garcia</i>
10:20 – 10:25	Rupture of right common iliac artery related to a spinal osteophyte <i>Claudia Quintero-Pérez</i>
10:25 – 10:30	Modified extended petticoat technique for the treatment of a giant false lumen iliac aneurysm following an acute Type B aortic dissection: A case report <i>Emmanouil Barmparessos</i>
10:30 – 10:35	A hybrid SMA debranching and periscope-EVAR for ruptured infected abdominal aortic aneurysm involving the visceral vessels <i>Wuttichai Saengprakai</i>
10:35 – 10:40	A complex thoracoabdominal aortic aneurysm managed by endovascular grafts and four chimneys <i>Almamooun Justaniah</i>
10:40 – 10:45	Hybrid open and endovascular treatment of an erosion of elephant trunk prosthesis in a patient with symptomatic abdominal aortic aneurysm <i>Maria Antonella Ruffino</i>
10:45 – 10:50	Endovascular repair of a ruptured common iliac aneurysm in the presence of a persistent sciatic artery (and a horseshoe kidney) <i>Naomi Anning</i>
10:50 – 10:55	Fenestrated endo-vascular aneurysm repair gone wrong: An interesting worst case <i>Karen van Langenhove</i>
10:55 – 11:00	Double barrel plugging in recurrent aorto-enteric fistula <i>Anoop Ayyappan</i>
11:00 – 11:05	Treatment of Type 1A endoleak using laser fenestration of an endograft to the LSA <i>Marek Majewski</i>
11:05 – 11:15	Discussion and conclusion

- 11:15 – 12:30 **Latest clinical data and original research papers: EVAR – Part I**
Moderators: Reza Ghotbi, Stefano Fazzini
- 11:15 – 11:20 Optimal timing of TEVAR for Type B aortic dissections:
A systematic review and meta-analysis *Erin Saricilar*
- 11:20 – 11:25 Modern endovascular aneurysm repair offers a survival advantage
and is cost-effective compared to conservative management in patients
physiologically unfit for open surgical aneurysm repair *Yousef Shahin*
- 11:25 – 11:30 Midterm outcomes of endovascular treatment for infected aortic aneurysms:
Single center experience *Veera Suwanruangsri*
- 11:30 – 11:35 Meta-analysis of the crossed vs. standard limb configuration
in endovascular aneurysm repair *Nada Yaser*
- 11:35 – 11:40 Elusive endoleaks: What scan will stop a rupture? *Aman Berry Williams*
- 11:40 – 11:45 Preliminary results from an Italian national registry on the outcomes
of the semi-custom-made Najuta fenestrated aortic arch endograft
Giacomo Isernia
- 11:45 – 11:50 Embolization of the lumbar arteries before EVAR: A prospectively randomized
trial comparing platinum-fibered microcoils (control arm) with the MVP®
microvascular plug (study arm) *Manuela Konert*
- 11:50 – 11:55 Ultrasound-guided vs. conventional MANTA vascular closure device deployment
after transcatheter aortic valve replacement *Hirokazu Miyashita*
- 11:55 – 12:00 Occlusion of an existing wide and patent IMA prior to EVAR may contribute
to the development of post-EVAR fever *Konstantinos Spanos*
- 12:00 – 12:05 Comparison of a steerable sheath in exclusively femoral access vs. upper
extremity access in branched endovascular aortic repair *Sven Hauck*
- 12:05 – 12:10 Impact of vascular access site complications for long-term mortality
after transfemoral transcatheter aortic valve implantation (tf-TAVI)
in a real-world setting *Sven Möbius-Winkler*
- 12:10 – 12:15 The evolving management of ruptured abdominal aortic aneurysms:
An Australian centre experience *Anoosha Aslam*
- 12:15 – 12:30 Discussion and conclusion

- 13:30 – 14:45 Latest clinical data and original research papers: EVAR – Part II**
Moderators: Daniela Branzan, Theodosios Bisdas
- 13:30 – 13:35 Blunt traumatic aortic injury: The 20 year experience of a large trauma referral hospital *Erin Saricilar*
- 13:35 – 13:40 Finding the appropriate technique for planning the stent-graft lengths in PRETEVAR CT *Anoop Ayyappan*
- 13:40 – 13:45 Inner-branched endograft in challenging treatment of complex secondary aortic intervention in case of abdominal and thoraco-abdominal aneurysmal progression: A retrospective single center study *Paola Scrivere*
- 13:45 – 13:50 3-month mortality rate in patients with ruptured abdominal aneurysm treated with open surgical repair *Elmi Olluri*
- 13:50 – 13:55 Endovascular preservation of segmental arteries during treatment of thoracoabdominal aortic aneurysm with fenestrated/branched stent-grafts: Feasibility and outcome *Ahmed Eleshra*
- 13:55 – 14:00 Stroke, spinal cord ischemia, and upper limb ischemia in patients undergoing TEVAR with coverage of the left subclavian artery: A case series study *Mohamed Rizk*
- 14:00 – 14:05 The necessity to seal the re-entry tears of aortic dissection after TEVAR: A hemodynamic indicator *Jiang Xiong*
- 14:05 – 14:10 The use of high-fidelity simulators in assessing endovascular surgical competence *Erin Saricilar*
- 14:10 – 14:15 Systematic review and meta-analysis of thoracic endovascular aortic repair of Type B aortic dissection in mainland China *He yue Jia*
- 14:15 – 14:20 The versatile altura aortic endograft demonstrates excellent 5 year outcomes *Dainis Krievins*
- 14:20 – 14:25 Spinal cord ischemia prevention through hypogastric and inferior mesenteric artery preservation during complex endovascular aortic procedures *Lucia Di Stefano*
- 14:25 – 14:30 Abdominal aortic aneurysm sac healing with a bioabsorbable shape memory polymer *Michel Reijnen*
- 14:30 – 14:45 Discussion and conclusion



Congress production



Provascular GmbH
CEO Joshua Hartmann

Paul-List-Straße 11
04103 Leipzig
Germany

Phone: +1 302-786-6231
Fax: +1 646-514-5454
E.mail: jhartman@hmpglobal.com

www.provascular.de

Congress organisation



**Congress Organisation
and More GmbH**
CEO Antonie Jäger

Ruffinstrasse 16
80637 Munich
Germany

Phone: +49 89 23 75 74-65
Fax: +49 89 23 75 74-70
E.mail: info@cong-o.com

www.cong-o.com