

# 7<sup>th</sup> MUNICH VASCULAR CONFERENCE 2017

*... where doctors meet science*

07–09 December | Klinikum rechts der Isar | Munich | Germany



**Chairman**

Hans-Henning Eckstein  
Munich, Germany

**Venue**

Klinikum rechts der Isar  
Munich, Germany

**Congress organisation**

CongO GmbH  
Ruffinstraße 16  
80637 Munich, Germany

**PROGRAMME**  
[www.mac-conference.com](http://www.mac-conference.com)



Dear friends of the MUNICH VASCULAR CONFERENCE (MAC),

It is our pleasure to invite you very cordially to the 7th MUNICH VASCULAR CONFERENCE (MAC) on 07–09 December, 2017. The 7th MAC will continue to be a platform for mutual exchange between vascular clinicians from all vascular medical specialties and colleagues from translational and basic research.

In 2016 we were able to welcome a record number of more than 600 participants. Therefore, the 7th MAC will address aortic, carotid, venous and peripheral arterial diseases again. We will present the latest advances in clinical and translational vascular research, including the newest open and endovascular technologies, biological mechanisms of atherosclerosis and the latest imaging modalities.

Do not miss the latest insights into the world of academic vascular research, represented by our world-class faculty. The 7th MAC will provide the latest news and cutting-edge approaches in the management of acute and chronic arterial and venous diseases.

We look forward to welcoming you in Munich.



Prof. Hans-Henning Eckstein  
Chairman

## CHAIRMAN



**Hans-Henning Eckstein**

Head of the Department of Vascular and Endovascular Surgery  
Klinikum rechts der Isar (MRI) der  
Technischen Universität München (TUM)  
Ismaninger Strasse 22  
81675 Munich, Germany

## CO-CHAIRMEN FROM MUNICH, GERMANY:



Ingo Flessenkämper



Michael Gee



Rüdiger Lange



Lars Maegdelfessel



Holger Poppert



Markus Schwaiger



Wolfgang Wall



Claus Zimmer

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- B**  
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 Yvonne Bausback, Germany  
 Friedhelm Beyersdorf, Germany  
 Colin Bicknell, UK  
 Gabor Biro, Germany  
 Martin Björck, Sweden  
 Leo Bonati, Switzerland  
 Michel Bosiers, Belgium  
 Richard Brandl, Germany  
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 Nabil Chakfe, France  
 Nick Cheshire, UK  
 Tina Cohnert, Austria  
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- E**  
 Per Eriksson, Sweden  
 Christine Espinola-Klein, Germany
- F**  
 Jürgen Falkensammer, Austria  
 Andreas Fiebig, Germany

- G**  
 Johannes Gahlen, Germany  
 Reza Ghotbi, Germany  
 Athanasios Giannoukas, Greece  
 Richard Gibbs, UK
- H**  
 Werner Hacke, Germany  
 Alison Halliday, UK  
 Stephan Haulon, France  
 Tobias Hirsch, Germany
- I**  
 Mihai Ionac, Romania
- J**  
 Houman Jalaie, Germany  
 Michael Joner, Germany
- K**  
 Michael Kallmayer, Germany  
 Angelos Karlas, Germany  
 Piotr Kasprzak, Germany  
 Athanasios Katsargyris, Germany  
 Christoph Knappich, Germany  
 Tilo Kölbl, Germany  
 Ralf Kolvenbach, Germany  
 Igor Končar, Serbia  
 Kornelia Kreiser, Germany  
 Andreas Kühnl, Germany
- L**  
 Mario Lescan, Germany  
 Christos Liapis, Greece  
 Jes Sanddal Lindhold, Denmark  
 Ian Loftus, UK  
 Lars Lönn, Denmark

- M**  
 Sumaira MacDonald, USA  
 Armando Mansilha, Portugal  
 Klaus Mathias, Germany  
 Bijan Modarai, UK  
 Claudia Monaco, UK  
 Mandy Müller, Switzerland  
 Achim Mumme, Germany
- N**  
 Jonathan Nadjiri, Germany  
 Foeke Nauta, Netherlands  
 Florian Netzer, Germany  
 Achim Neufang, Germany  
 Christoph Nienaber, UK  
 Vasilis Ntziachristos, Germany
- O**  
 Stefan Ockert, Switzerland  
 Klaus Overbeck, UK
- P**  
 Ljubica Perisic Matic, Sweden  
 Thomas Pröbstle, Germany
- R**  
 Michael Rasper, Germany  
 Christian Reeps, Germany  
 Peter Ringleb, Germany
- S**  
 Tobias Saam, Germany  
 Hendrik Sager, Germany  
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 Sebastian Schellong, Germany  
 Hubert Schelzig, Germany  
 Andreas Schindler, Germany  
 Claus-Georg Schmedt, Germany

- Thomas Schmitz-Rixen, Germany  
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 Heribert Schunkert, Germany  
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 Dimitrios Tsantilas, Germany  
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 Frank Vermassen, Belgium
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 Anders Wanhainen, Sweden  
 Rolf Weidenhagen, Germany  
 Heiko Wendorff, Germany  
 Moritz Wildgruber, Germany  
 Thomas Wyss, Switzerland
- Z**  
 Clark Zeebregts, Netherlands  
 Thomas Zeller, Germany  
 Alexander Zimmermann, Germany



DATE AND VENUE

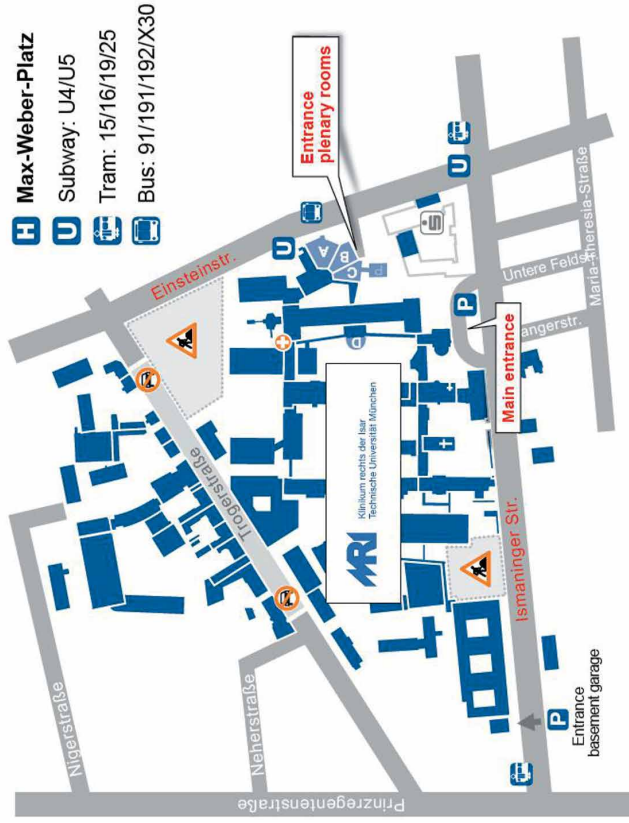
07–09 December  
 Klinikum rechts der Isar | Munich | Germany

Main entrance:

Klinikum rechts der Isar  
 Ismaninger Strasse 22  
 81675 Munich, Germany

Entrance plenary rooms:

Einsteinstrasse 5  
 81675 Munich, Germany



*It is difficult to find parking spaces.  
 We encourage the use of public transportation.*

OFFICIAL LANGUAGE

English

REGISTRATION FEES

Full Registration (December 07–09)

- Physicians / Industry Representatives: EUR 390.00
- Fellows, Nurses and Medical Technical Assistants (verification required <sup>1)</sup>) EUR 150.00
- Students free of charge (verification required <sup>2)</sup>): EUR 0.00

Day Registration (December 07, 08 or 09)

- Physicians: EUR 180.00
- Fellows, Nurses and MTs: EUR 75.00
- Students free of charge (verification required <sup>2)</sup>): EUR 0.00

<sup>1)</sup> The reduced registration fee is only available to participants who are currently employed as fellows (assistant physicians), nurses or medical technical assistants. Please provide proof of your current employment status. We accept ENGLISH or GERMAN verifications.

<sup>2)</sup> The reduced registration fee is only available to students who have not concluded their first study yet and who are currently enrolled at the university.

Please provide proof of your current university enrollment. We accept ENGLISH or GERMAN verifications.



### WORKSHOPS

Workshop registrations are only possible in connection with a registration for the Munich Vascular Conference 2017. Food and beverages are included in the registration fee.

#### **Workshop 01: Wednesday, December 06, 2017**

1-day revision course on technical skills – preparation for the European examination on a Fellow of the European Board of Vascular Surgery (FEBVS) at the UEMS

- MAC-participants: EUR 180.00

#### **Workshop 02: Wednesday, December 06, 2017**

Spezialkurs Interventionsradiologie zum Erwerb der Fachkunde – 1-day course on radiation safety – only for German participants

- MAC-participants: EUR 180.00
- Vascular surgery employees of the MRI: EUR 0.00
- Other employees of the MRI: EUR 50.00

### ACCREDITATION

The 7th Munich Vascular Conference, 07-09 December 2017, is accredited by the Bavarian Medical Association (BLAEK) for 15 hours of external CME credits.

Each participant should claim only those hours of credit that have actually been spent in the educational activity.

#### **Compliant with EthicalMedTech**

We are happy to announce that 7th MUNICH VASCULAR CONFERENCE 2017 starting on 07-12-2017 in Munich, Germany has been rated compliant with the MedTech Europe Code of Ethical Business Practice. This decision is posted on [www.ethicalmedtech.eu](http://www.ethicalmedtech.eu).

### CONGRESS SECRETARIAT

Dr. Eva Knipfer  
Dr. Raphaela Kübeck  
Lisa Seitz  
Nathalie Schilde

### CONGRESS ORGANISATION



CongO GmbH  
Ruffinistraße 16  
80637 Munich, Germany

**Department of  
Vascular and Endovascular Surgery  
Klinikum rechts der Isar  
Technical University of Munich**

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## 1-day revision course on technical skills – preparation for the European examination as a FEBVS

In this course all participants will be allowed to practice all single parts of the open and endovascular skill examination on the lifelike pulsatile models from VASCULAR INTERNATIONAL. All Participants will receive an individual assessment and feedback

**Convenors:** H.-H. Eckstein and M. Trenner, on behalf of VASCULAR INTERNATIONAL

**Tutors:** Vascular and endovascular specialists from Vascular International and the Department of Vascular and Endovascular Surgery, Klinikum Rechts der Isar

**Number of attendees:** 16 (4 groups A, B, C, D with 4 participants each)

**Date of the course:** Munich, Klinikum rechts der Isar, December 06, 2017, 09.00-17.30

**Sponsor:** This course is kindly supported by an educational grant of GETINGE Group

### PROGRAMME:

#### Open vascular surgery:

- Proximal aortic anastomosis
- Carotid endarterectomy with patchplasty
- Crural bypass anastomosis

#### Endovascular Surgery:

- Sheath insertion in common femoral artery
- Cross-over manoeuvre and PTA of external iliac stenosis
- Cannulation of a stenosed renal artery and dilatation

*kindly sponsored by*

**GETINGE GROUP**



## Spezialkurs Interventionsradiologie zum Erwerb der Fachkunde (§18a RöV)

Anwendung von Röntgenstrahlung bei fluoroskopischen Interventionen an einem Organsystem und Röntgendiagnostik eines Organsystems: Gefäßsystem (peripher/zentral)

**Datum:** Mittwoch 06.12.2017 (9:00 – 16:30 Uhr)

**Veranstalter:** Univ.-Prof. Dr. H.-H. Eckstein

**Kursleitung/Dozenten:**

OA Dr. H. Wendorff

(Fachkunde Interventionsradiologie)

ltd. OA PD Dr. A. Zimmermann

(Fachkunde Interventionsradiologie)

Dipl.-Phys. B. Renger

(Strahlenphysiker des Instituts für Röntgendiagnostik)

OA Dr. Ch. Maerlein (Facharzt Radiologie, OA

Neuroradiologie)

OA Dr. T. Stadlbauer (Facharzt für Kardiologie)

**Ort:**

Seminarraum M2a, Klinik und Poliklinik für Vaskuläre und

Endovaskuläre Chirurgie, Klinikum rechts der Isar der

Technischen Universität München,

Ismaningerstr. 22, 81675 München.

**BLAEK-Punkte/Kategorie:** 8 Punkte / Kategorie H

**Gebühr: Externe Kollegen:** 180 €, Hausinterne Kollegen: 50 €

**Voraussetzung:** Approbation, Grundkurs und Spezialkurs Röntgendiagnostik (nicht älter als 5 Jahre)

**Inhalt:**

- Physikalisch-technische Grundlagen der Interventionsradiologie (Geräte- und Detektortechnologie
- Dosismessgrößen - apparative Einflussfaktoren auf die Dosis - Aufnahmeparameter: Bedeutung für Bildqualität und Strahlenexposition)
- Medizinische Anwendungen der Interventionsradiologie (Dosiswerte bei häufigen Untersuchungen - Strahlenexposition des Patienten und des Personals - Maßnahmen zur Dosisreduktion bei Patienten und Personal. Spezielle Techniken und ihre Anforderungen im Anwendungsbereich Gefäßinterventionen. Praxisbezogene Übungen und Demonstrationen zu dosisreduzierenden Maßnahmen - Fallbeispiele zur Analyse von Fehlern)

**Zielgruppe:**

Gefäßchirurgen/Gefäßmediziner, die interventionell tätig sind, zur Erlangung der Fachkunde.

**Hinweise:**

Anmeldung erforderlich, Teilnahmebestätigung

**Teilnehmerzahl:**

Dieser Kurs ist auf 15 Teilnehmer begrenzt

WEDNESDAY		
TIME	Seminar Room MZa	TIME
09:00-18:30	Kurz Interventionelle Radiologie zum Erwerb der Fachkunde	09:00-17:30
THURSDAY		
Lecture Hall B		
TIME		TIME
08:00-09:30	CAR 1: Asymptomatic carotid disease - how to select reliably individuals with an increased carotid-related stroke risk	08:00-09:30
09:30-10:00	CAR 2: Update on carotid risks and guidelines	09:30-10:00
10:00-10:30		10:00-10:30
10:30-11:00	COFFEE BREAK	10:30-11:00
11:00-11:30	CAR 3: Emergency treatment of ischemic strokes 11.30-12.40	11:00-11:30
11:30-12:00		11:30-12:00
12:00-12:30	Special Lecture 1.12-45-13.00	12:00-12:30
12:30-13:00		12:30-13:00
13:00-13:30	LUNCH BREAK 13.00-14.00	13:00-13:30
13:30-14:00	CAR 4/PAD 1: Deciphering molecular and cellular mechanisms of atherosclerotic plaque destabilization 14.00-15.10	13:30-14:00
14:00-14:30		14:00-14:30
14:30-15:00	COFFEE BREAK 15.10-15.40	14:30-15:00
15:00-15:30	CAR 5: Carotid plaque erosion, plaque vulnerability and perspectives in functional imaging 15.40-16.35	15:00-15:30
15:30-16:00		15:30-16:00
16:00-16:30	COFFEE BREAK	16:00-16:30
16:30-17:00	CAR 6: Carotid artery stenting (CAS) - out on the track again? 16.55-18.10	16:30-17:00
17:00-17:30		17:00-17:30
17:30-18:00		17:30-18:00
18:00-18:30		
FRIDAY		
Lecture Hall C		
TIME		TIME
08:30-09:00	PAD 3: Randomised controlled trial (RCT) on critical limb ischemia (CLI) and intermittent claudication	08:30-09:00
09:00-09:30		09:00-09:30
09:30-10:00	PAD 4: Update on amputation and drug-eluting technologies 09.30-10.35	09:30-10:00
10:00-10:30	COFFEE BREAK 10.35-11.00	10:00-10:30
10:30-11:00		10:30-11:00
11:00-11:30	PAD 5: PAD - a marker disease for atherosclerosis - update on antithrombotic and lipid-lowering therapy 11.00-12.15	11:00-11:30
11:30-12:00	Special Lecture 2.12.15-12.30	11:30-12:00
12:00-12:30		12:00-12:30
12:30-13:00	LUNCH BREAK 12.30-13.30	12:30-13:00
13:00-13:30		13:00-13:30
13:30-14:00	PAD 6: New assessment tools for critical limb ischemia (CLI) 13.30-14.45	13:30-14:00
14:00-14:30		14:00-14:30
14:30-15:00	PAD 7: Acute limb ischemia - open or endovascular treatment? 14.45-15.40	14:30-15:00
15:00-15:30	COFFEE BREAK 15.40-16.10	15:00-15:30
16:00-16:30	CAR 7/PAD 8/AOR 9: Radiation protection and team training 2017 16.10-17.55	16:00-16:30
16:30-17:00		16:30-17:00
17:00-17:30		17:00-17:30
17:30-18:00		17:30-18:00
SATURDAY		
Lecture Hall B		
TIME		TIME
09:00-09:30	VEN 1: Endovascular therapy or open surgery for primary varicosis - what is the evidence? 9.00-10.20	09:00-09:30
09:30-10:00		09:30-10:00
10:00-10:30	VEN 2: Update on modern and new endovascular technologies for primary varicosis 10.20-11.15	10:00-10:30
10:30-11:00		10:30-11:00
11:00-11:30	COFFEE BREAK 11.15-11.45	11:00-11:30
11:30-12:00	VEN 3: Prevention and medical therapy of deep vein thrombosis (DVT) 11.45-13.55	11:30-12:00
12:00-12:30		12:00-12:30
12:30-13:00	VEN 4: Recanalization strategies in acute and chronic deep venous thrombosis 12.55-13.55	12:30-13:00
13:00-13:30		13:00-13:30
13:30-14:00	FAREWELL and LUNCH	13:30-14:00

**CAROTID ISSUES (CAR) - LECTURE HALL B**

09.00 - 10.00

**CAR 1: Asymptomatic carotid disease – how to select reliably individuals with an increased carotid-related stroke risk**

Chair: Hans-Henning Eckstein, Holger Poppert

- Morphological duplex ultrasound criteria - how to assess and report echolucency, inhomogeneity and ulceration - **D. Staub**
- Plaque area and plaque volume rather than the degree of stenosis are suitable predictors for an increased stroke risk - **H. Sillesen**
- The risk of MR-detected carotid plaque hemorrhage on recurrent or first-time stroke: a meta-analysis of individual participant data - **A. Schindler\***
- A simple long-term stroke risk model for asymptomatic carotid stenosis – will it help us select patients for intervention in the future? - **A. Halliday**
- **Keynote lecture: Are Transcranial Doppler (TCD) embolization, impaired cerebrovascular reserve, stenosis progression and silent infarctions suitable tools to select patients for CEA or CAS? - P. Ringleb**

10.00 - 11.00

**CAR 2: Update on carotid trials and guidelines**

Chair: Henrik Sillesen, Werner Hacke

- The most important recommendations from the 2017 ESVS/ESC guideline on the management of carotid artery disease - **G. de Borst**
- The procedural risk of carotid revascularisation declined over time – data from the Carotid Stenosis Trialists Collaboration - **M. Müller\***
- The impact of age and sex on stroke and death rates after CEA or CAS – data from the German Carotid Registry - **A. Kühnl, S. Schmid**
- Restenosis and its impact on recurrent stroke risks after CAS and CEA for symptomatic carotid stenosis – results from the International Carotid Stenting Study - **L. Bonati**
- Asymptomatic Carotid Endarterectomy Risk Score (ACER score): An individual patient data meta-analysis to identify risk factors for procedural stroke among 6,500 patients undergoing CEA in the VACS, ACAS, ACST-1 and GALA RCTs - **R. Bulbulia**
- Intraoperative morphological control after CEA - angiography or duplex ultrasound, first results from the **CIDAC** (Comparison of Intraoperative Duplex Ultrasound and Angiography after Carotid Endarterectomy) trial - **C. Knappich**

11.30 - 12.40

**CAR 3: Emergency treatment of ischemic strokes**

Chair: Claus Zimmer, Martin Dichgans

- **Keynote Lecture: Mechanical thrombectomy: which results can we expect in clinical routine? Exit light - enter night - W. Hacke**
- How to optimize the logistics of endovascular stroke treatment - should the patient come to the doctor or vice versa? - **H. Poppert**
- Urgent/emergency CEA in stroke patients - **L. Capoccia**
- Carotid-related strokes with intracranial embolism – endovascular treatment with simultaneous or staged CAS (or CEA) - **M. Wildgruber**
- Acute carotid artery occlusion – why endovascular intervention is the therapy of first choice - **K. Mathias**





**SPECIAL LECTURE - LECTURE HALL B**

12:45 - 13:00 **SPECIAL LECTURE: Vascular surgery in the wake of financial crisis** - C. Liapis

**CAROTID ISSUES (CAR) - LECTURE HALL B**

14:00 - 15:10 **CAR 4/ PAD 1: Deciphering molecular and cellular mechanisms of atherosclerotic plaque destabilization**

Chair: Lars Maegdefessel, Gert de Borst

- **Keynote lecture: Targeting inflammatory processes in atherosclerosis** - C. Monaco
- Rationale for statin use in carotid intervention - periprocedural and long-term effects on plaque stability - S. Macdonald
- Novel markers and mechanisms of plaque rupture governed by smooth muscle cells - L. Perisic Matic
- Acute and chronic stress as triggers of plaque vulnerability - H. Sager
- Preoperative hypertension is associated with atherosclerotic plaque vulnerability in patients undergoing carotid endarterectomy - L. Fassaert\*

15:40 - 16:35

**CAR 5: Carotid plaque erosion, plaque vulnerability and perspectives in functional imaging**

Chair: Peter Ringleb, Eva Bartels

- Novel insights into atherosclerosis: from pathology to invasive imaging - M. Joner
- Use of contrast-enhanced ultrasound for risk stratification of carotid plaques - D. Staub
- The carotid plaque imaging in acute stroke (CAPIAS) study and the potential role of ipsilateral complicated AHA lesion type VI carotid artery plaques in patients with cryptogenic stroke - M. Dichgans
- Recent advances in the diagnostics of carotid lesions by MultiSpectral Optoacoustic Tomography (MSOT) - A. Karlas, V. Ntziachristos, M. Kallmayer

16:55 - 18:10

**CAR 6: Carotid artery stenting (CAS) - out on the track again?**

Chair: Leo Bonati, Michael Kallmayer

- Evidence for periprocedural antiplatelet therapy in carotid artery stenting - G. de Borst
- Transcervical carotid stenting (T-CAR) with flow reversal versus CEA under regional anesthesia in symptomatic patients – a comparative DWI controlled trial - R. Kolvenbach
- CLEAR-ROAD: a physician-initiated study investigating the RoadSaver stent in carotid lesions - M. Bosiers
- Rationale for the use of regional or local anesthetic rather than general anesthetic during transcatheter carotid artery stenting (T-CAR) - S. Macdonald
- The effect of stent design on clinical and radiological outcome of CAS: a systematic review and meta-analysis - E. Vries\*
- Choices of stent and cerebral protection in the ongoing ACST-2 Trial - R. Bulbulia
- Plaque Prolapse Prevention in CAS (3PCAS) – a RCT assessing Subclinical Brain Lesions by DWI after CAS with closed-cell stents and mesh-covered stents - L. Capoccia



**AORTIC ISSUES (AOR) - LECTURE HALL C**

10.30 - 12.40

**AOR 1: Short communications I - Aortic diseases**Chair: **Stefan Ockert, Marc Bailey, Jürgen Falkensammer, Igor Končar**

- The potential benign nature of type Ia endoleaks after fenestrated Anaconda EVAR – truth or myth? - **C. Zeebregts**
- Mid-term results of 300+ patients treated by endovascular aortic sealing (EVAS) - **J. P. de Vries**
- How much open surgery is still required for the treatment of AAAs? - **R. Kolvenbach**
- Direct oral anticoagulants in the treatment of mural thrombus in near-normal aortic wall - **T. Soares\***
- Retrograde mesenteric bypass case report - **A. A. Rahim\***
- Visceral branches aneurysm of the abdominal aorta: anatomical layout and choice of treatment - **A. Nykonenko\***
- Endovascular management of isolated iliac artery aneurysms - single-center experience - **M. Generalov\***
- Cerebral protection during aortic de-branching with temporary cross-over bypass between external carotid arteries followed by TEVAR – mid-term results - **D. M. Oztaş\***
- Atypical debranching in patients undergoing TEVAR for thoracoabdominal aortic aneurysm type II - **P. Nierlich\***
- Early experiences with the Relay Double Branch graft - **M. Lescan**
- Endovascular treatment of hepatic artery pseudoaneurysm after pancreaticoduodenectomy - **A. C. Lopes\***
- Surgical treatment of the aneurysm of the abdominal aorta after an unsuccessful endovascular treatment in the presence of its quick growth and a nonspecific gastrointestinal bleeding - **I. Shevchenko\***
- Preoperative pharmacological conditioning affects the clinical and molecular outcome of ischemia / reperfusion injury of the spinal cord after thoracic aortic clamping - a mouse model - **F. Simon\***
- Novel screening tool for abdominal aortic aneurysms based on Plasma D-Dimer and Myeloperoxidase - **W. Eilenberg\***
- Management of ruptured abdominal aortic aneurysms (rAAA): 10-year experience at a tertiary referral centre in Northern England - **M. A. Waduud\***

- Emergency treatment of ruptured AAA after EVAR (rEVAR) - **R. Weidenhagen**
- Management of Blunt Thoracic Aortic Injury – how volume affects the outcomes - **C. Reeps**
- A novel preclinical experimental model of AAA disease using genetically mutated LDLR-/- mini-pigs - **A. Busch**
- The weakening of the aortic wall in type II endoleaks – an immuno-histochemical and molecular analysis - **A. Menges**
- Temporal trends of hospital incidence, treatment, and in-hospital mortality following open and endovascular surgery for thoracic aortic aneurysms in Germany from 2005 to 2014: secondary data analysis of the nationwide German DRG microdata - **S. Geisbüsch**
- Incidence and Outcome of surgically treated patients with aortic dissections - Secondary data analysis of the nationwide German DRG statistics from 2006 to 2014 - **B. Reutersberg**
- Thrombus volume and thickness in AAA by 3D-CEUS - **Q. Ghulam**

**AORTIC ISSUES (AOR) - LECTURE HALL C**

14:00 - 15:00

**AOR 2: Endovascular aortic arch repair - how far can we go?**Chair: **Christoph Nienaber, Alexander Zimmermann**

- Endo versus open arch repair - what is evidence - what is anecdote? - **N. Cheshire**
- Total endovascular aortic arch repair in patients who cannot undergo classical surgery - the double endo approach - **M. Czerny**
- The role of stent grafts in ascending aortic aneurysms - **R. Kolvenbach**
- Advances and perspectives of arch endografts - **S. Haulon**
- How to protect the brain during aortic arch endografting? - **T. Kölbl**
- How to prevent cerebral (micro)embolism during TEVAR of the aortic arch - **R. Gibbs**

\* *Competing for the MAC Award*

**AORTIC ISSUES (AOR) - LECTURE HALL C**

15:30 - 17:00

**AOR 3: Acute aortic dissections – lessons from the International Registry of Aortic Dissections (IRAD) and other trials**

Chair: Jan Brunkwall, Bijan Modarai, Richard Gibbs

- **Keynote lecture: Rationale, design and key findings from the International Registry of Acute Aortic Dissection (IRAD) - S. Trimarchi**
- The ongoing discussion about the definition of “complicated” and “uncomplicated” type B aortic dissections – current status  
**C. Nienaber**
- Early outcomes of acute retrograde dissection in the aortic arch and the ascending aorta – data from IRAD - **F. Nauta**
- Biomarkers and functional imaging in acute aortic dissections – the Liege study on Dissected Aorta (LIDIA) - **N. Sakalihasan**
- Endovascular treatment of acute type A aortic dissections – the endo Bentall approach - **M. Czerny**
- Endovascular treatment of aortic dissection – role of debranching procedures - **I. Končar**
- Will we still need open surgery for acute aortic dissections in 2025? – a cardiovascular surgeon’s perspective - **F. Beyersdorf**

**PERIPHERAL ARTERIAL DISEASE ISSUES (PAD) - LECTURE HALL C**

17:00 - 18:10

**PAD 2: Short communications II: Peripheral Arterial Diseases (PAD)**

Chair: Mihai Ionac, Armando Mansilha

- Pharmacology for peripheral arterial disease in the Netherlands; patient journey and platelet aggregation inhibitor prescription - **A. Brand\***
- Tibio-distal vein bypass in critical limb ischemia and its role as a bail-out procedure for failed tibial angioplasty - **F. Enzmann\***
- A phase III randomized double-blind placebo-controlled study to assess placental PLX-PAD cells in CLI patients that are not eligible for revascularization - **E. Lukaszewicz-Hagai\***
- Endovascular treatment of TASC II C and D Lesions using different strategies - **V. Kipiani\***
- Late groin complications after cardiac transplantation, repaired by endovascular techniques with unexpected findings in the wound - **D. Ruiz Chiriboga\***
- The use of bioactive stent heliflex in patients with atherosclerotic lesions of superficial femoral artery: The beginning of the study - **M. Generalov\***
- The role of transcutaneous oxygen tension measurement in the assessment and classification of lower limb ischemia - **B. Leenstra\***
- Hyperhomocysteinemia as a marker of cardiovascular disease - **I. Pertsov\***
- Long-term results of cava filter implantation in the common iliac vein - **A. Korotkikh\***
- Clinical use and safety of the Lutonix DCB for the treatment of below-the-knee arteries: interim data from a prospective registry - **A. Zimmermann**
- Endovascular femoro-popliteal bypass grafting via the femoral vein (PQ Bypass) - the DETOUR I study - **Y. Bausback**

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NOTES

NOTES



**AORTIC ISSUES (AOR) - LECTURE HALL C****08:30 - 09:30****AOR 4: Cutting-edge imaging technologies for the aorta****Chair: Nick Cheshire, Natzi Sakalihan**

- Use of Fusion imaging in fenestrated and branched EVAR - does it work? - **A. Katsargyris**
- Perspectives of Magnetic Resonance Imaging (MRI) for aortic aneurysms and dissections - **J. Nadjiri**
- What Spectral CT Angiography could add in the (follow-up) diagnostics of aortic diseases - **M. Rasper**
- Apposition software to calculate apposition of endografts in the aortic neck - prediction of EVAR failures during follow-up - **J. P. de Vries**
- Molecular imaging of cell proliferation in pre-clinical abdominal aortic aneurysm - **M. Bailey**

**09:30 - 10:45****AOR 5: Novel concepts and insights from translational aortic aneurysm research****Chair: Philip Tsao, Lars Maegdefessel**

- **Keynote Lecture: Pathophysiological impact of diabetes on AAA disease** - **R. Dalman**
- Molecular and cellular mechanisms of thoracic aortic aneurysms - **P. Eriksson**
- Cancer and AAA: a causal role for chronic inflammation? - **N. Sakalihan**
- Physical activity and the risk to develop AAA - **M. Björck**
- Ticagrelor and the inhibition of growth in small AAAs - results from a RCT - **A. Wanhainen**
- Skin accumulation of advanced glycation endproducts is increased in AAA patients - **C. Zeebregts**

**11:10 - 12:30****AOR 6: Chronic aortic dissections and thoraco-abdominal aortic aneurysms - technical issues and long-term outcomes****Chair: Tina Cohnert, Pjotr Kasprzak, Friedhelm Beyersdorf**

- Perioperative mortality, paraplegia, stroke and long-term stent related complications after TEVAR for traumatic thoracic aortic lesions - **C. Zeebregts**
- A dissection-specific stent graft to prevent distal Stent-graft induced New Entry (dSINE) - **A. Wanhainen**

- Mechanisms of and treatment strategies for dSINE after TEVAR for acute and chronic type B aortic dissection- Insights from EuREC - **M. Czerny**

- False lumen embolisation: devices and techniques. - **T. Kölbl**
- Are all thoracic endografts the same? - **N. Chakfe**
- The compliance with "best" medical therapy in type B aortic dissection patients is poor - we need to optimize medical treatments to improve long-term outcomes - **C. Bicknell**
- Update on long-term durability of fenestrated and branched endografts for Thoraco-Abdominal Aortic Aneurysms (TAAA) **A. Katsargyris**

**13:30 - 15:10****AOR 7: Abdominal aortic aneurysms (AAA) - genetics, guidelines and outcomes after open and endovascular repair**  
**Chair: Anders Wanhainen, Jes Lindholt**

- **Keynote lecture: Genetics of AAA - what clinicians need to know in 2017** - **P. Tsao**
- Update on the 2017 AAA management guidelines of the Society of Vascular Surgery (SVS) - **R. Dalman**
- The 5.5 cm/5 cm threshold is completely arbitrary, some AAAs rupture at smaller diameters - **F. Vermassen**
- The impact of cardiac disease on survival after EVAR - an analysis of >700 endovascular aortic procedures to determine 5-year survival - **B. Modarai**
- EVAR and open repair show equivalent outcomes in younger patients - predicting long term outcomes - **I. Loftus**
- A real-world based score to assess the procedural risk of EVAR and OR for non-ruptured AAA - data from the aortic registry of the German Vascular Society (DGG) - **T. Schmitz-Rixen**
- Mid- and long-term renal function outcomes after elective EVAR vs. OR: do we really know enough on which treatment is superior - **A. Giannoukas**
- Centralising therapy of non-ruptured and ruptured AAA - update of the facts - **H. Schelzig**

**AORTIC ISSUES (AOR) - LECTURE HALL C****15:40 - 16:40****AOR 8: Endoleaks type I and III – still an unresolved issue in endovascular repair of juxtarenal AAA and TAAA****Chair: Ron Dalman, Hubert Schelzig**

- How I plan and perform fenestrated aortic endografting and how I flare the viscerorenal grafts to prevent type III endoleaks  
**S. Haulon**
- Routine closure of gutters with liquid polymer solves the chimney problem and makes them as good as fenestrated grafts - **R. Kolvenbach**
- Viscero-renal stentgraft for chimneys, FEVAR and BEVAR – which one is better or are they all the same? - **A. Assadian**
- Patient selection in hostile necks and how to prevent endoleaks – a word of caution - **P. Kasprzak**
- The role of parallel grafts and endovascular aortic sealing (EVAS) - do they fill a gap? - **I. Loftus**
- Benchside testing for patient safety: assessment of pull-out forces before complex EVAR - **J. Falkensammer**

**CAR / PAD / AOR - LECTURE HALL B****16:10 - 17:55****CAR 7/PAD 8/AOR 9: Radiation protection and team training 2017****Chair: Moritz Wildgruber, Stephan Haulon, Ian Loftus**

- **Keynote lecture: Determinants of occupational radiation exposure and current practice of radiation protection in the Hybrid OR** - **B. Modarai**
- Radiation exposure during venous stenting - **H. Jalaie**
- Key points in radiation protection in the angio lab – experiences and advices from an endovascular pioneer - **K. Mathias**
- ITIX: Influence of an intensive radiation-protection-Training on the Intraoperative X-ray-radiation exposure in a hybrid OR - **H. Wendorff**
- Is the *Vessel Navigator* of any benefit for the patient? - results from a comparison of (T)EVAR with and without - **J. Brunkwall**
- Hybrid OR with an installed „Zero Gravity“ radiation protection system - **T. Cohnert**
- Assessment of competence in EVAR procedures – A novel rating scale using Delphi technique - **L. Lönn**

- Generation of high performance teams in emergency aortic surgery: Simulated leadership and team training is effective in improving the outcomes and safety of procedures - **C. Bicknell**
- How to build up and train an endovascular team of doctors, nurses and technicians – a particular challenge for Hybrid ORs - **J. Gahlen**

**CAROTID ISSUES (CAR) - LECTURE HALL C****16:45 - 18:15****CAR 8: Short communications III: Carotid stenosis (CAR)****Chair: Richard Bulbulia, Kornelia Kreiser, Daniel Staub**

- Carotid endarterectomy and carotid stenting in patients with atrial fibrillation with using Dabigatran Etxilate - **A. Korotkikh\***
- Smoking is a significant risk-factor for postoperative cerebral events in CABG and simultaneous internal carotid endarterectomy - **P. Konstantiniuk\***
- Clinical and cytological correlation in the vulnerable atherosclerotic carotid plaque: monocentric experience - **A. Carmignani\***
- Smooth muscle cells' level of MMP-9 and TIMP-1 could potentially indicate plaque instability - **G. Voulalas\***
- Case of successful combined treatment of giant paraganglioma of neck - **I. Shevchenko\***
- How to clamp and revascularize the brain if the patient has only single vessel blood supply that contains severe stenosis? - **D. M. Oztas\***
- CEA for patients with a recurrent symptomatic internal carotid artery near occlusion with full collapse: report of 17 cases - **A. Meershoek\***
- Repeated carotid endarterectomy: Do plaques change over time? - **I. D. van Koevorden\***
- A long-term observational study of carotid artery treatment - **K. Spanos\***
- Perioperative platelet inhibition is a MUST - data from the German Carotid Registry on 117,973 procedures - **A. Zimmermann**
- Transcarotid Artery Stenting (T-CAR) with flow reversal – an innovative tool to treat extracranial carotid stenoses - **M. Kallmayer**

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- Innervation of extracranial carotid aneurysms and popliteal aneurysms - **V. Pourier\***  
The assessment of carotid stenoses by contrast-enhanced tomographic ultrasound - **C. Schäffer**
- Significant association between the neurological status on admission and the in-hospital risk of stroke or death after CEA and CAS - **A. Kühnl**

### PERIPHERAL ARTERIAL DISEASE ISSUES (PAD) - LECTURE HALL B

08.30 - 09.30

**PAD 3: Randomized Controlled Trials (RCT) on Critical Limb Ischemia (CLI) and Intermittent Claudication**  
Chair: **Frank Vermassen, Thomas Zeller**

- 1-year results of the RAPID trial – a RCT between Lefflow DCB and Supera stent versus Supera stent only - **J. P. de Vries**
- 2-year result of the REAL PTX randomized trial comparing Silver PTX versus DCB in femoro-popliteal lesions - **Y. Bausback, D. Scheinert**
- Drug-coated balloons versus uncoated PTA balloons for femoro-popliteal lesions – 12-month results from the randomized RANGER trial - **G. Tepe**
- Compare I: Pilot Study to compare the Ranger DCB with IN.PACT DCB in patients with femoro-popliteal artery disease - **Y. Bausback, D. Scheinert**
- First results from the ZILVERPASS Study: a RCT comparing ZILVER PTX stenting with bypass surgery in femoro-popliteal lesions - **G. Biro, A. Zimmermann, M. Bosiers**
- Stent versus bypass for femoro-popliteal TASC II Type C and D lesions: preliminary data of a prospective randomized trial - **F. Enzmann\***
- Endovascular atherectomy versus open femoral endarterectomy – rationale and design of the randomized PESTO Trial - **T. Zeller**

09.30-10.35

**PAD 4: Update on atherectomy and drug-eluting technologies**  
Chair: **Klaus Overbeck, Heiko Wendorff**

- Open surgery or stenting for aortoiliac occlusive disease - which is best? - **R. Gibbs**
- Technique and outcomes of Laser-Atherectomy for calcified femoro-popliteal lesions - **R. Ghotbi**
- Update on drug-eluting balloons (DEB) – are they all the same? - **F. Vermassen**

- BIOLUX 4EVER and IN.PACT Flexion: physician-initiated studies on DCB and bare metal stents in femoro-popliteal and popliteal lesions - **M. Bosiers**
- Unmet need in SFA treatment: severe calcium - what the „shockwave (lithotripsy)” device might add (data of the PAD II study) - **G. Tepe**
- **Keynote Lecture: Technological perspectives for endovascular therapy of the lower limb** - **T. Zeller**

11.00-12.15

**PAD 5: A marker disease for atherosclerosis – update on antithrombotic and lipid-lowering therapy**  
Chair: **Sebastian Schellong, Heribert Schunkert**

- **Keynote lecture: Population screening and intervention for vascular disease in Danish men (VIVA): a randomized controlled trial** - **J. Lindholt**
- The secondary prevention of major cardiovascular events in patients with CHD or PAD - What can we learn from *EUCLID* and *COMPASS*, evaluating Clopidogrel, Ticagrelor and Rivaroxaban - **C. Espinola-Klein**
- Is the combination of antithrombotics and low-dose anticoagulants worthwhile in PAD – the VOYAGER trial - **T. Stadlbauer**
- Cholesterol: The good, the bad and the ugly! Results of recent HDL-C raising trials to prevent vascular disease - **R. Bulbulia**
- The impact of Evolocumab (PCSK 9i) on clinical outcomes in patients with cardiovascular disease – the randomized *FOURIER* study - **H. Schunkert**
- Key recommendations on antithrombotic and lipid-lowering therapy from the 2017 guidelines of the European Society for Cardiology - **C. Espinola-Klein**

### SPECIAL LECTURE - LECTURE HALL B

12:15 - 12:30

**SPECIAL LECTURE: The “vasculo-plastic” approach to reduce the number of lower limb amputations due to chronic tissue loss**  
**M. Ionac**



**PERIPHERAL ARTERIAL DISEASE ISSUES (PAD) - LECTURE HALL B**

13:30-14:45

**PAD 6: New assessment tools for Critical Limb Ischemia (CLI)**

Chair: **Gunnar Tepe, NN**

- Angiosomes - a failed concept? - **F. Vermassen**
- Novel assessment of haemodynamics (pressure, flow, fractional flow reserve) in the peripheral vasculature using the Combowire **B. Modarai**
- DETECT-PAD - a computerized model to predict the pressure drop in borderline iliac artery stenosis on the basis of MRA - **J. P. de Vries**
- Lesions in the superficial femoral artery (SFA) characterized with velocity ratios using vector velocity ultrasound - **L. Lönn**
- Endovascular treatment of aorto-iliac TASC D occlusions with fusion imaging, outback catheters, dedicated wires and stent grafts - **K. Overbeck**
- Arm veins are a reliable and durable graft material in femoro-popliteal and distal bypass surgery - **A. Neufang**

14:45-15:40

**PAD 7: Acute Limb Ischemia (ALI) - open or endovascular treatment?**

Chair: **Thomas Schmitz-Rixen, Markus Steinbauer**

- The ROBINSON study: a physician-initiated study investigating the Rotarex Catheter in femoro-popliteal in-stent occlusions - **M. Bosiers**
- Plasma fibrinogen level as predictor of hemorrhagic complications after catheter directed thrombolysis - **G. de Borst**
- Percutaneous thromboaspiration for acute limb ischemia - equipment, technique and results - **A. Katsargyris**
- Endovascular treatment of ALI is better than open surgery; results from a nationwide study with long-term follow-up - **M. Björck**
- How previous revascularizations affect the outcomes of acute limb ischemia - a consecutive cohort of 200 patients - **K. Stoklasa**

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**VENOUS SYMPOSIUM (VEN) – LECTURE HALL B**

09.00-10.20

**VEN 1: Endovenous therapy or open surgery for primary varicosis - what is the evidence?**Chair: **Ingo Flessenkämper, Richard Brandl**

- Recent consensus update on endovenous therapy or open surgery for primary varicosis - **A. Mansilha**
- Long-term results of surgical and endovenous procedures for primary varicosis - an analysis of the past RCTs - **A. Mumme**
- What can we learn from randomized trials comparing endovenous and open surgery for primary varicosis? – an overview - **T. Pröbstle**
- Is there any evidence that endovenous laser therapy or radiofrequency ablation or foam sclerotherapy is superior to each other? - **C.-G. Schmedt**
- Impact of inguinal varicose veins recurrence and modern therapeutic strategies - **D. Tsantilas**
- **Keynote lecture: New insights into the genetics of primary varicosis** - **A. Fiebig**

10.20-11.15

**VEN 2: Update on new endovenous technologies for primary varicosis**Chair: **Armando Mansilha, Achim Mumme**

- The European Saphen™ Closure System Observational Prospective (eSCOPE) Study – clinical results and side effects of Venaseal - **T. Pröbstle**
- Non-thermal / non-tumescent (NTNT) ablation of the truncal veins – indications and limitations - **T. Hirsch**
- The introduction of glue in my venous armamentarium – 3-year results - **R. Brandl**
- Steam Vein Sclerosis – an alternative to mini-phlebectomy? - **F. Netzer**

**VENOUS SYMPOSIUM (VEN) – LECTURE HALL B**

11.45-12.55

**VEN 3: Prevention and medical therapy of deep vein thrombosis (DVT)**Chair: **Christine Espinola-Klein, Thomas Stadlbauer**

- Reduced-dosed Rivaroxaban in the long-term prevention of recurrent symptomatic DVT – the *Einstein-Choice* trial - **NN**
- Is there a need for therapeutic anticoagulation in every lower leg DVT? - **S. Schellong**
- Oral anticoagulation and recent guidelines: What is new? - **A. Mansilha**
- DVT as the first sign of an occult malignant disease- how often and what is the adequate diagnostic approach? - **S. Schreiber**
- Update on the risk of DVT during air travel - does the economy class syndrome really exist? - **T. Stadlbauer**

12.55-13.55

**VEN 4: Recanalization strategies in acute and chronic deep venous thrombosis**Chair: **Ingo Flessenkämper, NN**

- What do we learn from the RCTs regarding venous recanalisation? How to design a trial which really moves the field forward? - **S. Schellong**
- What does it need to perform endovenous recanalization in acute and chronic occlusions successfully - lessons learned - **H. Jalaie**
- Acute venous iliofemoral thrombosis: early surgical thrombectomy is effective and durable - **S. Ockert**
- Phlegmasia coerulea dolens – diagnostics and management - **A. Mumme**

**MINI-SYMPOSIUM 1 - CONFERENCE ROOM 1**

17.00-18.10

Mini-Symposium I: Aortic infections

Chair: Christian Reeps, Martin Björck

- Inflammatory AAA and postoperative outcomes after open-surgery: a 10-year single-center experience and state of the art  
H. Scheelzig
- EndoVAC hybrid treatment of vascular infection - A. Wanhainen
- The contemporary management of infected aortic grafts: endovascular stenting saves lives but definitive surgery is necessary - C. Bicknell
- Treatment of graft infections after open and endovascular aortic treatment by orthotopic reconstruction with bovine neopericardium from the root to the bifurcation - M. Czerny
- The European multicenter registry on pericardial grafts for aortic infections - T. Wyss
- How to design tube and bifurcated pericardial grafts (technical note) - G. Biro
- Deep vein remains to be a valid alternative for orthotopic aortic repair - C. Reeps

**MINI-SYMPOSIUM 2 - CONFERENCE ROOM 1**

15.30-16.30

Mini-Symposium II: Vertebrabasilar strokes and carotid artery pseudoocclusion

Chair: Peter Ringleb, Afshin Assadian

- Advances in the treatment of posterior cerebral circulation symptomatic disease - A. Giannoukas
- Treatment of supra-aortic trunks occlusive disease - N. Chakfe
- The vertebral artery – a forgotten vessel? - K. Mathias
- Open surgical options to treat extracranial vertebral lesions - A. Assadian
- Management of patients with internal carotid artery near-total occlusion - C. Liapis

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<b>No.</b>	<b>TIME</b>	<b>TOPICS</b>	<b>SPONSOR</b>	<b>CONVENOR</b>	<b>ROOM</b>
WS-1	9:30-11:00	Atherectomy for calcified peripheral lesions – indications and techniques	SPECTRANETICS DEUTSCHLAND GMBH	Reza Ghotbi, Munich, Germany	Conference room 1
WS-2	9:30- 11:00	Technical tips, tricks, and pitfalls for the new Zenith Alpha Abdominal EVAR device - when is it the best option for treating an AAA?	COOK	Alexander Zimmermann, Munich, Germany	Conference room 2
WS-3	11:30-13:00	How to perform in-situ-bypass surgery in critical limb ischemia ( <i>This workshop will be held in German.</i> )	LE MAITRE	M. Kuhnert, Birkenwerder Germany U. Warkotsch Offenbach, Germany	Conference room 1
WS-4	11:30-13:00	Suture mediated LH preclosing technique / Proglide - percutaneous closing device	ABBOTT	Alexander Zimmermann, Munich, Germany and Daniel Markert, Germany	Conference room 2
WS-5	14:00-15:30	DAART: Directional atherectomy and antirestenotic therapy	MEDTRONIC	Martina Lopatta, Munich, Germany	Conference room 1
WS-6	14:00-15:30	Endovascular options for type B aortic dissections	VASCUTEK Deutschland GmbH	Mario Lescan, Tübingen, Germany	Conference room 2
WS-A	16:00-17:00	The management of ruptured AAA - how I do it	no sponsor	Thomas Wyss, Berne, Switzerland	Conference room 1
WS-B	16:00-17:00	Education and training in major amputation techniques in vascular surgery	no sponsor	Markus Steinbauer, Regensburg, Germany	Conference room 2
WS-7/1	17:00-18:00	Flaring of the Bentley BeGraft during fenestrated EVAR		Stephan Haulon, Paris, France	Conference room 2



<b>No.</b>	<b>TIME</b>	<b>TOPICS</b>	<b>SPONSOR</b>	<b>CONVENOR</b>	<b>ROOM</b>
WS-C	09:00-10:30	Cruro-pedal bypass surgery – indications and techniques	no sponsor	Achim Neufang, Wiesbaden, Germany	Conference room 1
WS-8	09:00-10:30	Logistics for acute ischemic stroke interventions (including case scenarios)	MENTICE	K. Kreiser, Munich, Germany and L. Lönn, Copenhagen, Denmark	Conference room 2
WS-D	10:30-11:30	How to create an endovascular team (doctors, nurses, technicians) for Hybrid Operating Rooms	no sponsor	Johannes Gahlen, Ludwigsburg, Germany	Conference room 2
WS-9	11:00-12:30	MENTICE hands-on simulator training on Vascular Trauma Management	MENTICE	Lars Lönn, Copenhagen, Denmark	Conference room 1
WS-E	11:30-12:30	Experimental vascular models and vascular biobanking	no sponsor	Lars Maegdefessel, Munich, Germany	Conference room 2
WS-10	13:30-15:00	Endovascular techniques for chronic lesions of the iliac and femoral veins	C.R. BARD GMBH	Houman Jalaie, Aachen, Germany	Conference room 1
WS-11	13:30-15:00	Carotid endarterectomy (CEA) with bovine pericardial patching ( <i>This workshop will be held in German</i> )	LeMaitre	M. Kuhnert, Birkenwerder Germany U. Warkotsch, Offenbach, Germany	Conference room 2
WS-F	15:30-16:30	Modern concepts in the therapy of chronic leg wounds	no sponsor	Andrea Masset, Munich, Germany	Conference room 2
WS-7/2	16:30-17:30	Flaring of the Bentley BeGraf during fenestrated EVAR	Bentley	Stephan Haulon, Paris, France	Conference room 2

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