

# 9<sup>th</sup> MUNICH VASCULAR CONFERENCE 2019

*... where doctors meet science*

04–06 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

## PRELIMINARY PROGRAMME

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

## WELCOME

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Dear friends of the MUNICH VASCULAR CONFERENCE,

It is our pleasure to welcome you to the 9th MUNICH VASCULAR CONFERENCE (MAC). The 9th MAC continues to be a platform for mutual exchange between vascular clinicians from all vascular medical specialties and colleagues from translational and basic research.

The 9th MAC addresses 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 9th MAC provides the latest news and cutting-edge approaches in the management of acute and chronic arterial and venous diseases.

Sincerely yours



Prof. Hans-Henning Eckstein  
Chairman



**Hans-Henning Eckstein**  
Head of the Department for Vascular and Endovascular Surgery  
Universitätsklinikum rechts der Isar,  
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## TABLE OF CONTENT

Welcome.....	2
Scientific organisers.....	3
Invited Faculty.....	4
Abstract Presenters and Workshop Convenors.....	7
<b>GENERAL INFORMATION.....</b>	<b>9</b>
Spezialkurs Interventionsradiologie zum Erwerb der Fachkunde (§18a RöV).....	13
<b>OVERVIEW SCIENTIFIC SESSIONS.....</b>	<b>14</b>
<b>PROGRAMME   WEDNESDAY, 04 DECEMBER 2019.....</b>	<b>18</b>
VENOUS (VEN) Sessions 1–4.....	18
<b>PROGRAMME   THURSDAY, 05 DECEMBER 2019.....</b>	<b>22</b>
AORTIC (AOR) Sessions 1–5.....	22
LUNCH SYMPOSIUM 1.....	24
CAROTID ARTERY DISEASE (CAD) Sessions 1–2.....	28
PERIPHERAL ARTERIAL DISEASE (PAD) Sessions 1–4.....	30
SPECIAL SESSION 1.....	34
<b>PROGRAMME   FRIDAY, 06 DECEMBER 2019.....</b>	<b>36</b>
CAROTID ARTERY DISEASE (CAD) Sessions 3–6.....	36
PERIPHERAL ARTERIAL DISEASE (PAD) Sessions 5–6.....	40
AORTIC (AOR) Session 6.....	42
SPECIAL LECTURE.....	42
SPECIAL SESSIONS 2–3.....	43
ACKNOWLEDGEMENTS.....	44
<b>WORKSHOPS WEDNESDAY AND THURSDAY.....</b>	<b>46</b>
<b>WORKSHOPS FRIDAY.....</b>	<b>50</b>



## OFFICIAL LANGUAGE

English

FREE WIFI:

Network: BayernWLAN



## GENERAL INFORMATION

### DATE AND VENUE

04-06 December 2019

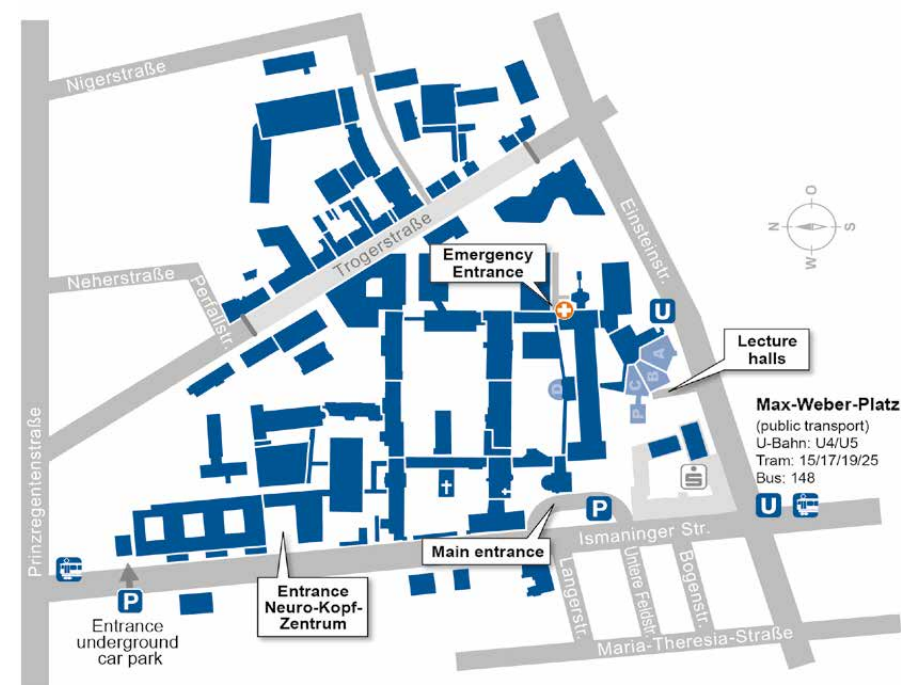
Klinikum rechts der Isar | Munich | Germany

#### Main entrance:

Klinikum rechts der Isar  
Ismaninger Strasse 22  
81675 Munich, Germany

#### Entrance plenary rooms:

Klinikum rechts der Isar  
Einsteinstrasse 5  
81675 Munich, Germany



### SOCIAL DINNER

Join us for dinner, drinks, and music.

Date: Thursday, 05 December 2019

Entrance fee: EUR 50.00 (limited seats only)

(Registration for the social dinner is only possible in conjunction with a conference registration)

## GENERAL INFORMATION

### REGISTRATION HOURS

Wednesday	04 December	12.00-18.00
Thursday	05 December	08.00-18.00
Friday	06 December	08.00-17.00

### REGISTRATION FEES

#### Full Registration (04-06 December)

- 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 (04, 05, or 06 December)

- Physicians / Industry representatives: EUR 180.00
- Fellows, Nurses, and Medical Technical Assistants (verification required <sup>1)</sup>): 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 (physician assistants), 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 2019. Food and beverages are included in the registration fee.

#### Workshop: Wednesday, 04 December 2019

Spezialkurs Interventionsradiologie zum Erwerb der Fachkunde – 1-day course on radiation safety – only for German participants. MAC registration is not mandatory for **this** workshop.

- MAC participants: EUR 180.00
- Employees of the MRI: EUR 50.00

## GENERAL INFORMATION

### ACCREDITATION

#### Bavarian Medical Association (BLAEK)

The programme of the 9<sup>th</sup> Munich Vascular Conference, 04-06 December 2019, will be submitted for accreditation.

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

#### European Accreditation Council for Continuing Medical Education (EACCME®)



9<sup>th</sup> Munich Vascular Conference, Munich, Germany, 04 – 06 December 2019 has been submitted for accreditation.

Each medical specialist should claim only those credits that he/she actually spent in the educational activity.

#### EthicalMedTech

The 9<sup>th</sup> Munich Vascular Conference 2019 starting on 04 December 2019 in Munich, Germany, has been rated compliant with the MedTech Europe Code of Ethical Business Practice.

#### The 9th Munich Vascular Conference 2019 is under the auspice of:



German Society for Angiology



European Society  
for Vascular Medicine

European Society for  
Vascular Medicine



## GENERAL INFORMATION

### CONGRESS SECRETARIAT

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## PROGRAMME | WEDNESDAY, 04 DECEMBER 2019

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

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

**Der angebotene Strahlenschutzkurs wird von der Bayerischen Landesärztekammer auf der Basis der Lehrinhalte anerkannt.**

<b>Datum:</b>	Mittwoch, 04.12.2019 (9.00-16.30)
<b>Veranstalter:</b>	Univ.-Prof. Dr. H.-H. Eckstein
<b>Kursleitung/Dozenten:</b>	OA Dr. H. Wendorff (Fachkunde Interventionsradiologie) Dipl.-Phys. B. Renger (Strahlenphysiker des Instituts für Röntgendiagnostik) OA Dr. Ch. Maegerlein (Facharzt Radiologie, OA Neuroradiologie) OA Dr. T. Stadlbauer (Facharzt für Kardiologie)
<b>Ort:</b>	OP Zentrum Nord beim Buchstaben „K“ im 3. OG, Klinik und Poliklinik für Vaskuläre und Endovaskuläre Chirurgie, Klinikum rechts der Isar der Technischen Universität München, Ismaningerstr. 22, 81675 München.
<b>Gebühr:</b>	Externe Kollegen: EUR 180,00; interne Mitarbeiter des MRI: EUR 50,00 Mitarbeiter Gefäßchirurgie des MRI: kostenfrei
<b>Voraussetzung:</b>	Approbation, Grundkurs und Spezialkurs Röntgendiagnostik (nicht älter als 5 Jahre)
<b>Inhalt:</b>	<ul style="list-style-type: none"><li>• Physikalisch-technische Grundlagen der Interventionsradiologie (Geräte- und Detektortechnologie - Dosismessgrößen – apparative Einflussfaktoren auf die Dosis – Aufnahmeparameter: Bedeutung für Bildqualität und Strahlenexposition)</li><li>• 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)</li></ul>
<b>Zielgruppe:</b>	Gefäßchirurgen/Gefäßmediziner, die interventionell tätig sind, zur Erlangung der Fachkunde.
<b>Hinweise:</b>	Anmeldung erforderlich, Teilnahmebestätigung
<b>Teilnehmerzahl:</b>	Dieser Kurs ist auf 15 Teilnehmer begrenzt

## OVERVIEW SCIENTIFIC SESSIONS

### PROGRAMME | WEDNESDAY, 04 DECEMBER 2019

<b>13.00-14.05 VEN 1   Lecture Hall B</b>	Case discussions and short communications on Venous Disease and Vascular Malformations .....	18
<b>14.30-15.40 VEN 2   Lecture Hall B</b>	Primary varicosis (from stripping to glue) and superficial venous thrombosis .....	19
<b>15.45-16.35 VEN 3   Lecture Hall B</b>	How to prevent and how to treat severe chronic insufficiency and venous ulcers .....	20
<b>16.50-18.30 VEN 4   Lecture Hall B</b>	Acute deep venous thrombosis (DVT) of the lower extremity .....	21



## OVERVIEW SCIENTIFIC SESSIONS

### PROGRAMME | THURSDAY, 05 DECEMBER 2019

<b>08.30-09.35 AOR 1   Lecture Hall B</b>	The evolution of endovascular aortic arch repair .....	22
<b>09.35-11.10 AOR 2   Lecture Hall B</b>	Thoraco-abdominal aortic aneurysms (TAAA) and type B aortic dissections .....	23
<b>11.30-13.00 AOR 3   Lecture Hall B</b>	AAA – Endoleak prevention and management .....	24
<b>13.05-13.50 Lunch Symposium 1   Lecture Hall B</b>	The Venous Challenge – successful strategies to treat venous lesions (Industry-Sponsored) .....	24
<b>13.50-15.15 AOR 4   Lecture Hall B</b>	NICE guidelines from the UK and miscellaneous issues on AAA .....	25
<b>17.00-18.30 AOR 5   Lecture Hall C</b>	Case discussions and short communications on aortic disease .....	26
<b>08.30-10.00 CAD 1   Lecture Hall C</b>	Case discussions and short communications on carotid artery disease .....	28
<b>10.30-12.00 CAD 2   Lecture Hall C</b>	Precision medicine for atherosclerosis and carotid artery disease (research session) .....	29
<b>12.00-13.00 PAD 1   Lecture Hall C</b>	Update on lipid-lowering therapy in carotid and peripheral atherosclerosis .....	30
<b>14.00-15.05 PAD 2   Lecture Hall C</b>	Case discussions and short communications on peripheral artery disease (PAD) .....	30
<b>15.30-16.40 PAD 3   Lecture Hall B</b>	Recent developments in popliteal aneurysms and acute limb ischaemia .....	32
<b>17.00-18.30 PAD 4   Lecture Hall B</b>	Critical limb-threatening ischaemia (CLTI) and angiosome directed revascularization .....	33
<b>15.30-16.40 Special Session 1   Lecture Hall C</b>	The future of Vascular Surgery 1 – training, stress management, physician assistants, gender equality .....	34



## OVERVIEW SCIENTIFIC SESSIONS

### PROGRAMME | FRIDAY, 06 DECEMBER 2019

#### 08.30-10.00 CAD 3 | Lecture Hall C

Carotid body tumors and miscellaneous issues.....36

#### 10.30-12.10 CAD 4 | Lecture Hall B

Asymptomatic carotid disease – multimodal approach.....37

#### 13.30-15.05 CAD 5 | Lecture Hall B

NEWS from RCTs and high-quality registries on carotid stenosis.....38

#### 15.30-17.00 CAD 6 | Lecture Hall B

Personalized management of carotid-related cerebral ischaemia.....39

#### 08.30-10.15 PAD 5 | Lecture Hall B

The future of interventional PAD treatment – drug-eluting technologies, atherectomy, and novel bypass techniques.....40

#### 13.00-14.00 PAD 6 | Lecture Hall C

Update on platelet inhibition and anticoagulation in PAD.....41

#### 10.30-12.10 AOR 6 | Lecture Hall C

Translational research on aortic aneurysms.....42

#### 12.15-12.40 Special Lecture | Lecture Hall B

How to heal medical culture – reducing the risks of „burn-out“ –  
Tait Shanafelt, Stanford University (tbc) interviewed by  
Pavlos Tsantilas.....42

#### 14.30-15.30 Special Session 2 | Lecture Hall C

The future of Vascular Surgery 2 – digitalization, robots, and  
artificial intelligence.....43

#### 15.50-17.00 Special Session 3 | Lecture Hall C

Vascular infections.....43

## NOTES

## VENOUS (VEN) SESSIONS 1–4

### 13.00-14.05 VEN 1 | Lecture Hall B

#### Case discussions and short communications on Venous Disease and Vascular Malformations

- Stem cells of cord blood in the complex treatment of chronic venous ulcer that do not heal  
*Dimitry Dombrovsky*
- Surgery for Nutcracker Syndrome – should we wait until hematuria occurs?  
*Andrej Nykonenko*
- Analysis of the remote results of “the Nutcracker Syndrome” surgical treatment  
*Ihor Kobza*
- Percutaneous insertion of peripheral vein port catheter for chemotherapy in cancer patients  
*Mohamed Nagib*
- Endovascular port-a-cath rescue in acute thrombotic superior vena cava syndrome  
*Iris Baumgartner*
- Aspiration thrombectomy in the treatment of pulmonary embolism  
*Yaroslav Khrebtiiy*
- 18 month outcomes of patch angioplasty and balloon angioplasty after thrombectomy of AV hemodialysis grafts  
*Ahmed Allam*
- Safety and efficacy of infraclavicular arterioarterial prosthetic loop graft for hemodialysis access: a review of 45 patients  
*Ahmed Allam*
- Foam sclerotherapy guided by non-touch laser for management of bleeding scrotal angiokeratoma  
*Adel Kamhawy*
- Sclerotherapy of lymphangioma in children: report of 3 cases  
*Sohiel Nagib*
- Chestwall AV malformation in a 19 year old goalkeeper  
*NN*

- **Keynote lecture:** What a vascular specialist needs to know about the management of vascular malformations  
*Iris Baumgartner*

### 14.30-15.40 VEN 2 | Lecture Hall B

#### Primary varicosis (from stripping to glue) and superficial venous thrombosis

- Ultrasound-guided foam sclerotherapy vs. endothermal ablation for the treatment of GSV varicosis – a review of RCTs  
*Andrew Bradbury*
- The 2019 ECP Guideline recommends laser or radiofrequency over surgery or foam sclerotherapy for greater GSV reflux  
*Kurşat Bozkurt*
- Single centre experience with cyanoacrylate glue for the first 100 truncal veins using the VenaSeal™ Closure System  
*Mojahid Najem\**
- Patterns in the management of superficial vein thrombosis  
*Athanasios Giannoukas*
- Do ultrasound characteristics of superficial venous thrombosis predict progression?  
*Douglas Wooster\**
- **Keynote lecture:** Clinical and genetic determinants of varicose veins  
*Nicholas Leeper*



\* Competing for the MAC Award

## VENOUS (VEN) SESSIONS

### 15.45-16.35 | VEN 3 | Lecture Hall B

#### How to prevent and how to treat severe chronic insufficiency and venous ulcers

- **Keynote lecture:** Early vs. deferred endovenous ablation of superficial venous reflux in patients with venous ulceration: the EVRA RCT  
*Alun Davies*

Venous ulceration – ablate the superficial reflux early, but don't neglect deep reflux or obstruction

*Efthymios Avgerinos*

- Obesity and lower limb venous disease – the epidemic of phlebesity  
*Andrew Bradbury*
- Competence levels in wound care – how networks should be organized – a German consensus statement  
*Martin Storck*



### 16.50-18.30 | VEN 4 | Lecture Hall B

#### Acute deep venous thrombosis (DVT) of the lower extremity

- Latest real-world evidence of venous thromboembolism (VTE) treatment from the GARFIELD-VTE Registry  
*Sylvia Haas*

- **Keynote lecture:** Key recommendations from the 2020 guidelines from the ESVS on acute DVT  
*Athanasios Giannoukas*

- Catheter interventions for acute DVT – who, when, and how  
*Efthymios Avgerinos*
- Endovascular venous therapy after the ATTRACT trial  
*Iris Baumgartner*
- Percutaneous mechanical thrombectomy – is it the future of lower extremity DVT therapy?  
*Houman Jalaie*
- The management of acute inferior caval vein obstructions  
*NN*
- Pregnancy after thrombolysis and stenting for ilio-femoral DVT – outcomes and complications  
*Gabriel Szendro*
- **Keynote lecture:** The management of venous thromboembolism in patients with cancer  
*Rupert Bauersachs*

## AORTIC (AOR) SESSIONS 1–5

### 08.30-09.35 | AOR 1 | Lecture Hall B

#### The evolution of endovascular aortic arch repair

- Arch endovascular repair – multiple solutions from a single brand endograft  
*Vicente Rimbau*
- Physician-made endografts for aortic arch aneurysms – indication, technique, and outcomes  
*Ludovic Canaud*
- Total endovascular aortic arch repair  
*Martin Czerny*
- Nexus Aortic Arch single branch stentgraft system – mid-term results  
*Mario Lachat*
- A new semi custom-made fenestrated TEVAR for non-A-non-B aortic dissections and bovine arch lesions  
*Nicola Mangialardi*
- Aortic arch pathologies with aberrant right subclavian artery  
*Matthias Trenner*
- Prevention and management of endoleaks after endovascular aortic arch repair  
*Gustavo Oderich*



### 09.35-11.10 | AOR 2 | Lecture Hall B

#### Thoraco-abdominal aortic aneurysms (TAAA) and type B aortic dissections

- Endovascular and surgical treatment of acute type B dissection: single-centre experience  
*Franco Grego*
- Uncomplicated aortic type B dissection – when to intervene?  
*Jean-Pierre Becquemin*
- Evidence of endovascular treatment of asymptomatic acute type B aortic dissections – is TEVAR really good?  
*Rachel Clough*
- Complex endografting for post dissection thoracoabdominal aortic aneurysms  
*Bijan Modarai*
- Treatment of multisegmental thoracoabdominal pathology by a 3 step approach  
*Martin Czerny*
- The new Thoracoflo® graft for thoracoabdominal hybrid-repair – from bench to bedside  
*Sabine Wipper\**
- Bridging stent grafts in fenestrated and branched EVAR – long term durability and need for improvements?  
*Athanasios Katsargyris*
- The „bare branch“ for safe spinal cord ischaemia prevention after total endovascular repair of TAAA  
*Nicola Mangialardi*
- Results of a bench test of different covered stents as bridging stentgrafts in a flat FEVAR model  
*Martin Austermann*
- **Keynote lecture:** The evolution of branched and fenestrated endografts for TAAA – lessons learned  
*Gustavo Oderich*

## AORTIC (AOR) SESSIONS

### 11.30-13.00 | AOR 3 | Lecture Hall B AAA – Endoleak prevention and management

- **Keynote Lecture:** Novel approaches to endoleaks after EVAR  
*Alan Lumsden*
- Implications of aortic straightening after endovascular aortic aneurysm repair  
*Jean-Paul de Vries*
- Migration patterns of modern aortic stent grafts  
*Colin Bicknell*
- Aortic aneurysm sac reduction – the only real indicator for success after EVAR  
*Vicente Rimbau*
- Selective intra-procedural AAA sac embolization during EVAR reduces the rates of type II endoleak  
*Mauro Gargiulo*
- How safe is infrarenal proximal polymer neck sealing during EVAR and does it prevent type I endoleaks?  
*Martin Storck*
- Do kissing endografts work in (non-)ruptured AAAs?  
*Dainis Krievins*
- **Keynote Lecture:** The mystery of type II endoleaks – will they ever be prevented?  
*Jean-Pierre Becquemin*

## LUNCH SYMPOSIUM 1

### 13.05-13.50 | The Venous Challenge – successful strategies to treat venous lesions (Industry-Sponsored) | Lecture Hall B

- The endovascular option for AV-fistula creation  
*Tobias Steinke*
- How to treat the AV-fistula stenosis best  
*Vladimir Matoussevitch*
- The right way to treat chronic venous lesions – tips and tricks in diagnostic, indication, and treatment  
*Houman Jalaie*

## AORTIC (AOR) SESSIONS

### 13.50-15.15 | AOR 4 | Lecture Hall B NICE guidelines from the UK and miscellaneous issues on AAA

#### The controversy about the recommendations of the UK National Institute for Health and Care Excellence (NICE)

- **Keynote Lecture:** Rationale and background of the AAA guidelines of the NICE institute (UK)  
*Andrew Bradbury*
- EVAR after NICE guidelines: what should we do and what should we not do?  
*Vicente Rimbau*
- Are the NICE guidelines for the intact AAA going to affect the outcome of patients with ruptured AAAs?  
*Christos Liapis*
- Round table discussion

#### Miscellaneous issues on AAA

- Clinical validation of three-dimensional ultrasound for abdominal aortic aneurysms  
*Qasam Ghulam\**
- Can we forecast aortic aneurysm rupture? The relationship with the weather  
*Andrew Choong*
- Is there a weekend effect in short and long term outcomes after ruptured AAA?  
*Sebastian Debus*
- Risk prediction model of in-hospital mortality following elective AAA repair – a dual score assessment  
*Thomas Schmitz-Rixen*
- Unchanged AAA growth rates, declined mortality, and increased later repair rates – should we lower the threshold for preventive AAA repair?  
*Jes Lindholt*

\* Competing for the MAC Award

## AORTIC (AOR) SESSIONS

**17.00-18.30 | AOR 5 | Lecture Hall C****Case discussions and short communications on aortic disease**

- Percutaneous EVAR/TEVAR is a real progress – however, there are some limitations  
*Matthias Trenner*
- Clinical and economic impact of “Pevar-first” approach in daily practice – a single-center experience  
*Giuseppe Baldino*
- Local or systemic delivery of Lenvatinib effectively inhibits experimental aneurysm progression  
*Albert Busch*
- Acute abdominal pain with renal ischaemia 18 months after EVAR  
*Vedran Pazur*
- Lessons learned from a pilot AAA screening program in central Greece  
*Konstantinos Spanos*
- Urine biomarkers for AAA rupture – is it possible?  
*Reshaabi Srinantholgen*
- Mid-term results following open surgical and endovascular management of uretero-arterial fistula  
*Georgios Sachsamanis*
- Possibility of acute ascending aortic dissection surgery with moderate hypothermic circulatory arrest  
*Olga Buchnieva*
- Juxtarenal abdominal aorta intimal dissection in blunt trauma  
*Inga Dakovic Bacalja*
- Does the aortic lumen limit the use of branched devices in TAAA after type B dissections  
*Marcelo Ferreira*
- First-in-man clinical application of the TrackCath system in EVAR of AAA – a prospective multi-centre clinical trial  
*Nikolaos Floros*

- Management of distal entry tears at the visceral segment in aortic dissections by bare metal stent  
*Ahmed Sayed*
- Validation of accurate assessment of proximal and distal endograft apposition after TEVAR  
*Richte Schuurmann*
- Helical blood flow pattern in the bovine aortic arch variant as a potential risk factor for aortic dissection  
*Francesco Sturla*
- Concomitant aneurysmatic/occlusive aortoiliac disease – multiple-step hybrid procedure as a solution to a nightmare  
*Nuno Henriques Coelho*
- Long-term complication after open repair for aortoiliac occlusive disease treated successfully with hybrid technique  
*Vakhtang Kipiani*
- Computer simulation of flow in an elastic aneurysm – elasticity competes with size effects  
*Haifeng Wang*





## CAROTID ARTERY DISEASE (CAD) SESSIONS 1–2

### 08.30-10.00 CAD 1 | Lecture Hall C

#### Case discussions and short communications on carotid artery disease

- Tenascin-C is highly expressed in unstable carotid endarterectomy plaques  
*Farahnaz Waissi*
- Results of endovascular interventions on asymptomatic carotid sub-occlusion in one year observations  
*Wojciech Zelawski*
- Managing carotid artery dissection during TCAR using transfemoral approach  
*William Yoon*
- A challenging rescue maneuver after inadvertent stenting of the external carotid artery  
*Klaus Mathias*
- Intraoperative hypotension is a risk factor for silent brain ischaemia in hypertensive patients undergoing CEA  
*Marjolijn Rots*
- Neurological complication rates of intravenous thrombolysis for ischaemic stroke combined with early CEA  
*Ewa Swiecka*
- 3T gadolinium-enhanced MR imaging of extracranial carotid artery aneurysms  
*Constance van Laarhoven*
- Simultaneous CEA and coronary bypass grafting  
*Ivan Pertsov*
- Endovascular treatment of tracheo-innominate fistula – how to treat and how to do it successfully  
*Gabriel Szendro*
- Detection of asymptomatic carotid artery stenosis in 0.6M screening participants  
*Michiel Poorthuis*

### 10.30-12.00 CAD 2 | Lecture Hall C

#### Precision medicine for atherosclerosis and carotid artery disease (research session)

- Screen for abdominal aortic aneurysms is considered to be rational, screening for carotid stenosis not. WHY?  
*Kosmas Paraskevas*
- Contemporary stroke risks of carotid stenosis patients: Design and characteristics of a prospective cohort study  
*Michiel Poorthuis*
- Targeting efferocytosis in atherosclerosis  
*Nicholas Leeper*
- Multilevel biological and morphological analyses of carotid plaque instability  
*Ulf Hedin*
- Interplay of cancer and atherothrombotic events  
*Konstantin Stark*
- Targeting inflammation in atherosclerosis: insights from clinical studies and basic research  
*Philipp von Hundelshausen*
- Protein levels in extracellular vesicles predict high-risk patients for secondary cardiovascular events: a pilot study  
*Natalie Timmerman\**
- Elevated Lipoprotein(a) levels increase risk of secondary major cardiovascular events in patients undergoing CEA  
*Farahnaz Waissi\**
- Time-dependent changes in atherosclerotic lesions after a neurological index event  
*Jessica Pauli\**

\* Competing for the MAC Award

# PERIPHERAL ARTERIAL DISEASE (PAD) SESSIONS 1–4

## 12.00-13.00 PAD 1 | Lecture Hall C

### Update on lipid-lowering therapy in carotid and peripheral atherosclerosis

- Statins' withdrawal induces atherosclerotic plaque destabilization  
*Christos Liapis*
- Plaque regression with a PCSK9 inhibitor as measured by intravascular ultrasound – does it work?  
*Klaus Parhofer*
- Lipid lowering in PAD – how to achieve the targets  
*Iris Baumgartner*
- **Keynote lecture:** What ABI and TBI tell us about the outcomes of PAD and how clopidogrel and statins influence that  
*Maarit Venermo*

## 14.00-15.05 PAD 2 | Lecture Hall C

### Case discussions and short communications on peripheral artery disease (PAD)

- Rate condition, unusual anatomy, elegant solution – an uncommon manifestation of Kawasaki disease  
*Nuno Henriques Coelho*
- Pellet embolus in ulnar artery – a rare vascular injury  
*Sohail Ahmed*
- The use of electrical stimulation in peripheral arterial disease – a scoping review  
*Sean Paul Carroll*
- Spinal cord stimulation and hyperbaric oxygen therapy (HBO2) – could it help in otherwise untreatable patients?  
*Johannes Gahlen*
- Retrograde popliteal approach with total SFA occlusion for revascularization of critical limb ischaemia  
*Sohiel Nagib*
- A prospective RCT of drug-coated balloon vs. POBA for femoropopliteal artery disease in diabetic patients: 12-month results  
*Ahmed Allam*

- Femoropopliteal angioplasty with paclitaxel-coated balloon – 3 Belgian centres experience  
*Arnaud Kerzmann*
- Vascular referral patterns and expectations: Are they appropriate?  
*Douglas Wooster*
- Stent size optimization in the femoral bifurcation using a fractal model – a morphological analysis  
*Bahaa Nasr*
- Percutaneous revascularization AQ4 as a feasible option for complex aortoiliac occlusive disease with fair 1-year outcome  
*Ahmed Allam*
- Aneurysms of the subclavian artery and its complications in TOS – clinical and pathogenetic features and choice of treatment  
*Ivan Barna*
- Optical Coherence Tomography (OCT) assessment of femoral lesions in PAD  
*Tobias Koppa*
- Hollow fiber Polylactid Co-Glycolic Acid (PLGA) - collagen coated by Chitosan as a candidate for small diameter vascular graft  
*Sanaz Badpa*



## PERIPHERAL ARTERIAL DISEASE (PAD) SESSIONS

### 15.30-16.40 | PAD 3 | Lecture Hall B Recent developments in popliteal aneurysms and acute limb ischaemia

#### Popliteal artery aneurysm (PAA)

- Open repair of popliteal aneurysms  
*Igor Končar*
- Co-prevalence of aneurysms in the vasculature, a systemic review and meta-analysis  
*Constance van Laarhoven\**
- Open or endovascular surgery for PAA – lessons learned from a large matched case-control study  
*Martin Björck*

#### Acute limb ischaemia

- Acute lower-limb malperfusion treated by endovascular thrombectomy – the INDIAN registry  
*Gianmarco de Donato*
- Acute ischaemia management – the angiologists's view  
*Iris Baumgartner*
- Acute aortic occlusions: when endo and when open?  
*Gabriel Szendro*

- **Keynote lecture:** The ESVS guidelines on acute limb ischaemia – what is new?  
*Martin Björck*

### 17.00-18.30 | PAD 4 | Lecture Hall B Critical limb-threatening ischaemia (CLTI) and angiosome directed revascularization

- Surgical management of pediatric arterial trauma of the extremities – report on 100 cases  
*Adel Kamhawy\**
- External polytetrafluoroethylene reinforcement of varicose autologous vein grafts produces durable bypass function  
*Achim Neufang*
- Added value of non-invasive tissue perfusion imaging during endovascular interventions for CLI patients  
*Jean-Paul de Vries*
- Poor vascular efforts in preventing amputations in Denmark  
*Jes Lindholt*
- Late outcomes and secondary analyses from BASIL-1 and perspectives of BASIL-2 and BASIL-3  
*Andrew Bradbury*
- Indirect (non angiosome) arterialization with foot arch revascularization in wound healing and foot salvage in CLI patients  
*Mohamed Nagib\**
- Distal bypass improves flow in all angiosomes, however, endovascular treatment improves only the targeted angiosome  
*Maarit Venermo*
- Impact of angiosome- and non-angiosome-targeted peroneal bypass on limb salvage and healing in patients with CLTI  
*Mauro Gargiulo*
- **Keynote lecture:** Key recommendations from the Global Vascular Guideline on GVG on critical limb-threatening ischaemia  
*Andrew Bradbury*

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## 15.30-16.40 | Special Session 1 | Lecture Hall C

- Simulation training streamlines the real-life performance in endovascular repair of ruptured AAA  
*Maarit Venermo*
- Open aortic training – how we do it  
*Alan Lumsden*
- Training on open aortic surgery in the endovascular era  
*Jonas Eiberg*
- Strength and flexibility assessment on surgeons before and after surgery, implications for rest and recovery  
*Julian Scott*
- Multidisciplinary team training is effective in reducing error in theatre – it should be mandatory in vascular units  
*Colin Bicknell*
- The risk of burnout – the perspective of a vascular surgical clinician scientist  
*Pavlos Tsantilas*
- From admission to discharge – do physician assistants reduce the workload of vascular surgical trainees in the US?  
*Efthymios Avgerinos*
- Diversity and gender equality in vascular medicine/surgery  
*NN*



## CAROTID ARTERY DISEASE (CAD) SESSIONS 3–6

### 08.30-10.00 CAD 3 | Lecture Hall C Carotid body tumors and miscellaneous issues

- Clinical presentation and operative complications in patients with carotid body tumors  
*Ross Naylor*
- Adjunctive measures in difficult carotid body tumors  
*Martin Björck*
- All carotid paraganglioma should be screened for gene mutations – implications for therapy and follow-up  
*Tina Cohnert*
- Ultrasound guided loco-regional anesthesia works perfect for CEA – experiences from >1,000 patients  
*Sofiane Dridi*
- Intraoperative Duplex Ultrasound detects more defects after CEA compared to angiography – final results of CIDAC  
*Christoph Knappich*
- Advances in optical and optoacoustic vascular imaging of the carotid bifurcation  
*Angelos Karlas*
- Will the use of ultrasound contrast improve the value of carotid plaque morphology?  
*Henrik Sillesen*
- ClearSight for postoperative arterial blood pressure monitoring after carotid endarterectomy: a validation study  
*Leonie Fassaert*

### 10.30-12.10 CAD 4 | Lecture Hall B Asymptomatic carotid disease – multimodal approach

- Best medical treatment alone may not be adequate for all patients with asymptomatic carotid stenosis  
*Kosmas Paraskevas*
- Stroke associated with restenosis after carotid interventions  
*Ross Naylor*
- CAS for post CEA restenosis – indications, technique, and outcomes  
*Klaus Mathias*
- Near occlusion of the internal carotid artery – meta-analysis of treatment outcomes  
*Gert de Borst*
- Peri-procedural brain lesions and cognitive alterations in CAS (3PCAS) – a RCT comparing CGuard™ stent vs. Wallstent™  
*Laura Capoccia*
- Does CEA prevent dementia?  
*Alison Halliday*
- Timing of procedural death and stroke after CEA for asymptomatic stenosis – analysis of VACS, ACAS, ACST-1 and GALA  
*Michiel Poorthuis\**
- **Keynote lecture:** Effects of aspirin on risks of vascular events and cancer according to bodyweight and dose  
*Peter Rothwell*

\* Competing for the MAC Award

## CAROTID ARTERY DISEASE (CAD) SESSIONS

### 13.30-15.05 CAD 5 | Lecture Hall B NEWS from RCTs and high-quality registries on carotid stenosis

- Update of CREST-2  
*NN*
- Update of ECST-2  
*Gert de Borst*
- ACST-2 trial recruitment – our patients and their follow up  
*Alison Halliday*
- Carotid endarterectomy, transfemoral CAS and transcarotid CAS – data from the SVS Vascular Quality Initiative (VQI)  
*Mahmoud Malas*
- Stenting for symptomatic vertebral artery stenosis: a preplanned pooled individual patient data analysis  
*Peter Rothwell*
- Rationale and design of the Vertebral Artery Ischaemia Stenting Trial-2 (VIST-2)  
*Richard Bulbulia*
- The external validity of carotid RCTs – is the current evidence really transferrable to the „real world“?  
*Michael Kallmayer*
- **Keynote lecture:** What did we learn from the German Carotid Registry  
*Andreas Kühnl*

### 15.30-17.00 CAD 6 | Lecture Hall B Personalized management of carotid-related cerebral ischaemia

- **Keynote lecture:** Is the epidemiology of carotid-related cerebral ischaemia really changing?  
*Peter Rothwell*  
Mechanical thrombectomy of intracranial occlusions and CAS should always be performed simultaneously - PRO  
*Kornelia Kreiser*
- Mechanical thrombectomy of intracranial occlusions and CAS should always be performed simultaneously - CONTRA  
*NN*
- Endovascular thrombectomy in acute carotid occlusion is superior to surgical thrombectomy!  
*Klaus Mathias*
- Urgent CEA (within 48 hours) is usually safe after transient carotid-related symptoms – right or wrong?  
*Pavlos Tsantilas*
- In some patients it remains to be wise to perform CEA or CAS not too early – which stroke patients are that?  
*Holger Poppert*
- Acute clinical response to periprocedural stroke in carotid revascularization: a Delphi consensus analysis  
*Gert de Borst*



## PERIPHERAL ARTERIAL DISEASE (PAD) SESSIONS 5–6

### 08.30-10.15 | PAD 5 | Lecture Hall B

#### The future of interventional PAD treatment – drug-eluting technologies, atherectomy, and novel bypass techniques

- Totally percutaneous fem-pop bypass – the bypass technique of the future?  
*Pierre Sarradon\**
- PQ Bypass or DETOUR procedure – no need for conventional femoral bypass surgery?  
*Dainis Krievins*
- Characterization of aortoiliac calcifications  
*Nabil Chakfé*
- Current treatment of severe aortoiliac obstructive disease in low-risk and young patients  
*Franco Grego*
- The CERAB technique – evidence and indications  
*Barend Mees*
- Are nitinol-woven stents really superior to other self-expanding stents for distal femoro-popliteal lesions?  
*Thomas Zeller*
- Inverse probability weighted comparison of interwoven nitinol with drug-eluting stents for femoropopliteal artery disease  
*Iris Baumgartner*
- Analysis of explanted peripheral stents – how do they look like and how did they change?  
*Nabil Chakfé*
- The added value of Intravascular Lithotripsy (IVL) in calcified femoral lesions – the PAD 1 and PAD 2 trials  
*Gunnar Tepe*
- Paclitaxel and mortality – the dose argument is critical  
*Thomas Zeller*
- **Keynote lecture:** Increased death rates after drug-coated balloons and stents – will drug-eluting technologies survive?  
*NN*

### 13.00-14.00 | PAD 6 | Lecture Hall C

#### Update on platelet inhibition and anticoagulation in PAD

- Anti-thrombotic therapy after peripheral revascularization  
*Christine Espinola-Klein*
- The combination of antiplatelets and anticoagulants improves long-term outcomes in PAD patients  
*Rupert Bauersachs*
- Atrial fibrillation, recent coronary events, and PAD – how to combine apixaban, vitamin K antagonists, and antiplatelets  
*Michael Năbauer*
- Are there any patients, who still need anticoagulation after peripheral bypass surgery?  
*Achim Neufang*



\* Competing for the MAC Award

## AORTIC (AOR) SESSION 6

**10.30-12.10 | AOR 6 | Lecture Hall C**  
**Translational research on aortic aneurysms**

- The influence of sex or gender on rupture risk in AAA patients  
*Rebecka Hultgren*
- Necroptosis in AAA disease  
*Matti Adam*
- Role of vascular stiffness and senescence in AAA disease  
*Uwe Raaz*
- The role and therapeutic relevance of neutrophil extracellular traps in the progression of AAA  
*Christine Brostjan*
- MetAAA-study: Metformin – inhibition of progression in abdominal aortic aneurysm  
*Wolf Eilenberg*
- Nuclear vs. mitochondrial pathways of extracellular trap formation in abdominal aortic aneurysms  
*Sonja Bleichert\**
- All AAA are not the same – clinical and morphological data from the histAAA consortium on 550 AAAs  
*Felix Menges\**
- **Keynote lecture:** PET-CT – an important tool to detect small AAAs with an increased rupture risk and to predict complications after EVAR  
*Natzi Sakalihasan*

## SPECIAL LECTURE

**12.15-12.40 | Special Lecture | Lecture Hall B**  
**How to heal medical culture – reducing the risks of „burn-out“ – Tait Shanafelt, Stanford University (tbc) interviewed by Pavlos Tsantilas**

\* Competing for the MAC Award

## SPECIAL SESSIONS 2–3

**14.30-15.30 | Special Session 2 | Lecture Hall C**  
**The future of Vascular Surgery 2 – digitalization, robots, and artificial intelligence**

- Artificial intelligence and its transformative role in image analysis for aortic intervention  
*Bijan Modarai*
- Artificial intelligence, big-data, and cloud computing in vascular surgery  
*Rachel Clough*
- Robots in the vascular room and remote case support  
*Alan Lumsden*
- Robotic-assisted ultrasound for endovascular peripheral procedures  
*Mark Kaschwich*
- Robotic-assisted ultrasound for AAA screening  
*Floris Ernst*
- Current applications of 3D-printing in vascular surgery  
*Bernhard Dorweiler*

**15.50-17.00 | Special Session 3 | Lecture Hall C**  
**Vascular infections**

- Diagnostic imaging in vascular graft infection – a systematic review and meta-analysis  
*Clark Zeebregts*
- Xenopericardium for the treatment of native aortic and graft infections from the root to the bifurcation – long term results  
*Martin Czerny*
- Infected grafts after open AAA repair  
*Christoph Neumayer*
- Almost all infected aortic (endo)grafts need definitive graft removal, especially in the era of multiresistant microorganisms  
*Colin Bicknell*
- Systematic review of the management of mycotic aortic aneurysms  
*Anders Wanhainen*
- Biosynthetic grafts for native and prosthetic vascular graft infection  
*Bernhard Dorweiler*

## ACKNOWLEDGEMENTS

€ 15.000 | (rental fee, av services, advertisement)



€ 12.000 | (rental fee, av services, advertisement)



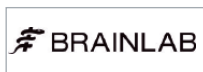
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## ACKNOWLEDGEMENTS

€ 3.000 | (rental fee, av services)



WEDNESDAY, 04 DECEMBER 2019					
No.	TOPICS	SPONSOR	CONVENOR	TIME	ROOM
WS A	<b>Spezialkurs Interventionsradiologie zum Erwerb der Fachkunde nach §18a RöV (in German)</b> Inhalte dieses Workshops: • Physikalisch-technische Grundlagen der Interventionsradiologie • Medizinische Anwendungen der Interventionsradiologie		Heiko Wendorff, Munich, Germany	09:00-16:30	OP Zentrum Nord
WS B	<b>Treatment of varicose veins after European Guidelines</b> • Medtronic solutions: ClosureFast™ and VenaSeal™ • Current Evidence • Hands-on Workshop	Industry-Sponsored	Thorsten Bassler-Hollenbach, Meerbusch, Germany and Christian Frei, Meerbusch, Germany	16:30-17:00	CONFERENCE ROOM 1
THURSDAY, 05 DECEMBER 2019					
WS 2	<b>Meet the expert in cruro-pedal bypass surgery – indications and techniques</b> Contents of this workshop: • How to diagnose a patent distal artery • How to get there easily • Choice of the bypass material • Completion studies		Achim Neufang, Wiesbaden, Germany	11:00-12:00	CONFERENCE ROOM 1
WS 3	<b>Meet the expert in CERAB technique for aortoiliac occlusive disease (AIOD) – how to get started?</b> Contents of this workshop: • Taylor-made solution for AOID • How to achieve optimal flow dynamics • Long-term outcomes and patency	Industry-Sponsored	Barend Mees, Maastricht, Netherlands	12:00-13:00	CONFERENCE ROOM 1

THURSDAY, 05 DECEMBER 2019					
No.	TOPICS	SPONSOR	CONVENOR	TIME	ROOM
WS 4	<b>Meet the expert in endovascular aspiration thrombectomy</b> Contents of this workshop: <ul style="list-style-type: none"> <li>• Technical principles and practical application of endovascular aspiration thrombectomy</li> <li>• Case vignettes</li> <li>• Bailout strategies</li> <li>• Lessons learned from the INDIAN registry</li> </ul>	Industry-Sponsored	Gianmarco de Donato, Siena, Italy	14:00-15:00	CONFERENCE ROOM 1
WS 5	<b>Intraoperative Duplex Ultrasound (IDUS) - the perfect tool to exclude technical failures after carotid endarterectomy (CEA)</b> Aims of this workshop are: <ul style="list-style-type: none"> <li>• Technical principles of intraoperative duplex ultrasound</li> <li>• Clinical applications</li> <li>• Practical tips and interpretation of intraoperative findings</li> </ul>	Industry-Sponsored	Christoph Knappich, Munich, Germany	15:00-16:00	CONFERENCE ROOM 1
WS 6	<b>Surgical skills cheap and handy!</b> <b>A workshop to improve your vascular skills based on daily shopping</b> Aims and contents of this workshop: To improve your vascular surgical skills (e.g. suturing, wire navigation) using simple and cheap materials you can acquire during your daily shopping in the supermarket and hardware store Practical exercises for personal learning and tutoring for educational training		Albert Busch, Munich, Germany and Gabor Biro, Munich, Germany	16:00-17:00	CONFERENCE ROOM 1

FRIDAY, 06 DECEMBER 2019					
No.	TOPICS	SPONSOR	CONVENOR	TIME	ROOM
WS 7	<b>Meet the expert in 3-D simulation in the Hybrid OR (takes place in the Hybrid OR)</b> <ul style="list-style-type: none"> <li>• 3D-simulation – absolute necessity or nice to have?</li> <li>• How to implement real 3D-reconstruction of a CT-Angiography-Scan in daily routine?</li> <li>• Visit the Hybrid-OR and use the “state of the art”-Brainlab-software for vascular surgery</li> </ul>	Industry-Sponsored	Heiko Wendorff, Munich, Germany	09:00-10:00	OP Zentrum Nord
WS 8	<b>Physician made endografts: a valuable option for urgent cases unsuitable for standard devices</b> <ul style="list-style-type: none"> <li>• Identifying the right patient and the right endograft</li> <li>• How is it done? – on table modification step by step</li> <li>• Pitfalls</li> <li>• Case examples</li> </ul>		Ludovic Canaud, Montpellier, France	10:00-11:00	CONFERENCE ROOM 1
WS 9	<b>3D imaging and navigation in Endovascular Aortic Repair (EVAR)</b> <p>Contents of this workshop:</p> <ul style="list-style-type: none"> <li>• Technical principles of 3D imaging and navigation in EVAR</li> <li>• Advantages in daily practice</li> </ul>	Industry-Sponsored	Alan Lumsden, Houston, USA and Philipp Geisbüsch, Heidelberg, Germany	11:00-12:00	CONFERENCE ROOM 1
WS 10	<b>DAART: Directional atherectomy and antirestenotic therapy</b> <p>Contents of this workshop:</p> <ul style="list-style-type: none"> <li>• Hands on training „Hawk One“ and „Spider FX“ embolic protection device</li> <li>• Indications Hawk One 6 and 7 French</li> <li>• Case examples SFA and BTK</li> </ul>	Industry-Sponsored	Martina Lopatta, Munich, Germany	13:00-14:00	CONFERENCE ROOM 1
WS 11	<b>Building and maintaining a human vascular biobank</b> <p>Contents of this workshop:</p> <ul style="list-style-type: none"> <li>• Increasing relevance of vascular biobanking to decode atherosclerosis and aneurysm disease</li> <li>• Guidance to establish a vascular biobank in your department</li> <li>• Questions to be answered in vascular disease using biobanks</li> </ul>		Lars Maegdefessel, Munich, Germany and Jaroslav Pelisek, Munich, Germany	14:00-15:00	CONFERENCE ROOM 1



# 9<sup>th</sup> MUNICH VASCULAR CONFERENCE 2019

*... where doctors meet science*

04–06 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

