

11TH SALZBURG HANDS-ON WORKSHOP

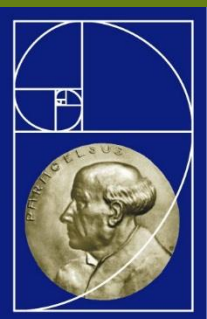
ON MICROSURGICAL AND ENDOVASCULAR TECHNIQUES, WITH LIVE ANIMALS MARCH 29TH TO APRIL 01ST, 2023

Christian Doppler Medical Center, Research Laboratory for Microsurgical Neuroanatomy

Course Director: Rahman A. Al-Schameri, MD, FEBNI

Course Secretary: S. Thakur, MD

Chairman: Christoph J. Griessenauer, MD, FAANS, FACS , FEBNI



**HOW
TO**

MAKE

DECISION

**COMPLEX CEREBRAL
ANEURYSMS**

**HOW
TO**

CLIP

COIL/STENT

**HOW
TO**

AVOID

COMPLICATIONS

GOALS & CONCEPT

HANDS-ON WORKSHOP

ON MICROSURGICAL AND ENDOVASCULAR TECHNIQUES, WITH LIVE ANIMALS

TOPICS

Basics

- Basics of microsurgical techniques
- Basics of endovascular techniques – Aneurysms / Stroke
- Basics of cerebral revascularization
- Surgical revascularization - bypass
- Endovascular revascularization - Stroke
- Hands-on technique on live animals
- Nerve coaptation

Lectures & update

- Neurosurgical /endovascular management of cerebral aneurysms
- Neurosurgical /endovascular management of acute and chronic stroke
- Management of giant aneurysms
- Intra-extracranial stenosis, stent & carotid endarterectomy
- Complications avoidance

Educational Objectives

- Overview about diagnostic and therapeutically options in CVD
- Improvement of microsurgical skills
- Principle and philosophy of endovascular surgery – case discussion
- Risk assessment
- Establishment of a M&M conference



11th SALZBURG HANDS-ON WORKSHOP

Welcome

Faculty

Modern microneurosurgery should enable the neurosurgeon to work seamlessly and effortlessly through the operating microscope. To accomplish this, it is essential to participate in adequate laboratory animal training. The first step in microsurgery is to acquire skill and proficiency in the handling of the operating microscope. This includes the understanding of basic optical and mechanical construction of the microscope as well as its principles as applied to neurosurgical procedures. Preparation, practice, and proficiency with microsurgical instruments are also indispensable for developing the skills for precise manipulation of magnified tissue structures. Additionally, the increasing demand for endovascular technique for the treatment of cerebrovascular diseases necessitate the neurosurgeons to not only be educated in the open surgical arena, but also in endovascular surgery. This also assures procedural safety and allows the practitioner to choose the ideal technique and treatment for the patient without any bias. The ultimate success in clinical microsurgery depends on the acquisition and application of these special skills. For that very reason the Research Laboratory for Microsurgical Neuroanatomy at the Department of Neurosurgery has been established at the Christian Doppler Medical Center, Paracelsus Medical University Salzburg. We invite you to join our 11th Salzburg Hands-on Workshop on Microsurgical and Endovascular Techniques for Cerebral Revascularization and we are looking forward to spending very interesting and stimulating days in Salzburg with you.



Christoph J. Griessenauer, MD, FAANS, FACS
Professor and Chairman



Rahman Al-Schameri, MD, PhD
Senior Consultant and Course Director

Rahman Al-Schameri, M.D.

Department of Neurosurgery, Christian Doppler Medical Center, Paracelsus Medical Private University

Bin Xu, MD

Husahan Hospital, Fudan, Shanghai

Gerasimos Baltasvias, M.D.

Department of Neuroradiology, Zürich

Jan-Karl Burkhardt, M.D., Assistant Professor of Neurosurgery, Assistant Professor of Radiology

Neurosurgery at Hospital of the University of Pennsylvania, Philadelphia, PA, USA

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Pau Capilla-Guasch, M.D

Hospital Clinico Universitario de Valencia

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Department of Neurosurgery, Christian Doppler Medical Center, Paracelsus Medical Private University

S. M. J. Ellacuriaga, M.D.

Department of Vascular Surgery, Paracelsus Medical Private University Salzburg

Michael T. Lawton, M.D., President and CEO, Professor and Chair

Neurosurgery, Neurovascular Surgery, Barrow Neurological Institute, Phoenix, AZ, USA

Klaus Linni, M.D.

Department of Vascular Surgery Paracelsus Medical Private University Salzburg

Michael Kral, M.D.

Department of Neurosurgery, Christian Doppler Medical Center, Paracelsus Medical Private University

Manuel Lunzer, M.D.

Department of Neurosurgery, Christian Doppler Medical Center, Paracelsus Medical Private University

Johannes Sebastian Mutzenbach, M.D.

Department of Neurology, Christian Doppler Medical Center, Paracelsus Medical Private University

Bernd Richling, M.D.

Department of Neurosurgery, Christian Doppler Medical Center, Paracelsus Medical Private University

Heinrich Schubert, M.D.

Department of Plastic Surgery, Barmherzige Brüder, Salzburg

Camillo Sherif, M.D.

Department of Neurosurgery, Krankenhaus Rudolfstiftung, Vienna

Gottfried Wechselberger, M.D.

Chairman of the Department of Plastic Surgery, Barmherzige Brüder, Salzburg

Feraz Heber, M.D.

Mariannengasse, 1090 Wien

Programm

11th SALZBURG HANDS-ON WORKSHOP

Wednesday, 29th of March 2023

07:30 Registration

08:00

- Welcome and introduction (Griessenauer & Al-Schameri)
- History and perspective of a hybrid Neurosurgeon (Richling)
- Goals and strategy of microsurgical & endovascular course (Al-Schameri)

Microsurgery Hands-on Part I with Silicone model (Biomet), Faculty

- Receipt of anastomosis training kit and micro-instrument set
- **Hands-on:** Performance of running and interrupted sutures (Faculty)

Refreshment break

- **Hands-on:** Performance of end-to-end and end-to-side anastomosis

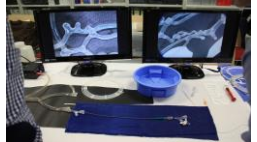
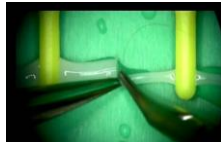
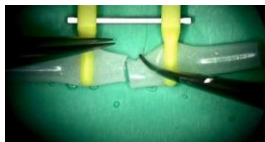
Lunch

- **Hands-on:** Performance of end to end and end to side anastomosis with different size of silicone models
- **Hands-on:** Performance of end to side anastomosis 90°

Refreshment break

- Briefing: Collateral circulation: Indication of bypass-surgery (Al-Schameri)
- Surgical anatomy of the STA/MCA and different skin incisions
- **The simplest STA-MCA bypass technique (Al-Schameri)**
- Case discussion (All)

18:00 End



Thursday, 30th of March 2023

Microsurgery Hands-on Part II with biological material , Faculty

07:30 Introduction:

- Hands-on: Performance of arterial end-to-end and end-to-side anastomosis
- Hands-on: Performance of end-to-side with venous interponate anastomosis

Refreshment break

- Clinical applications of end-to-side anastomosis with venous graft (Al-Schameri)
- Nerve Coaptation (Schubert)
- End to end nerve anastomosis

Lunch

- Hands-on: Performance of end-to-side anastomosis using in the depth
- Clinical applications of end-to-side anastomosis in the depth, STA-SCA (cases)
- Principle of endovascular surgery /How to coil an aneurysm (Baltsavias)
- Endovascular therapy of acute and chronic Stroke (Lunzer)

Refreshment break and the facility of endovascular simulation flow model

- ACOM aneurysm : surgical & endovascular challenge
- **Bypass surgery in complex aneurysm (Lawton)**
- Management of Intraoperative AN rupture
- Case discussion (Participant)

Refreshment break and demonstration of stroke flow model

Programme

11th SALZBURG HANDS-ON WORKSHOP

Thursday, 30th of March 2023, Faculty

- **EC-IC Bypass : Indication and technique (Burkhardt)**
- Wide neck cerebral Aneurysms (Al-Schameri)
- Interactive case discussion (Participants)

18:00 End

Friday, 31st of March 2023

Microsurgery Hands-on Part III with live animals, Faculty

07:00 Preparation (Animals), All Staff

Introduction

- Experimental aneurysm, rabbit model
- Hands-on on live animals: -Three exercises

Lunch in the Lab

- Chronic cerebral ischemia (Sherif)
- IC-IC Bypass :Petrous carotid artery to middle cerebral artery. From lab to OR (Capilla)
- **Advance in Bypass surgery for complex Aneurysms (Lawton)**

Refreshment break

- Interactive case discussions (All)

18:00 End

Saturday, 1st of April 2023, Theoretical & Clinical Part

08:00

- Microsurgical Anatomy of the posterior Circulation (Capilla)
- Patient's and aneurysm's related factors affecting surgical/endovascular decision-making (Baltsavias)
- Un-ruptured aneurysm: treatment Pros versus Cons
- Structural injury following clipping

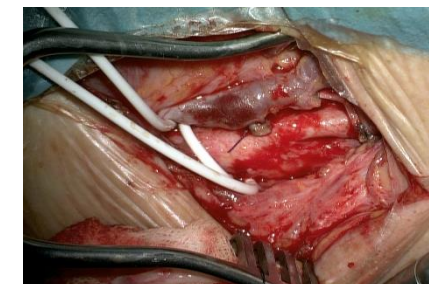
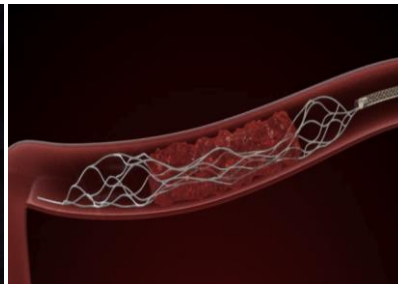
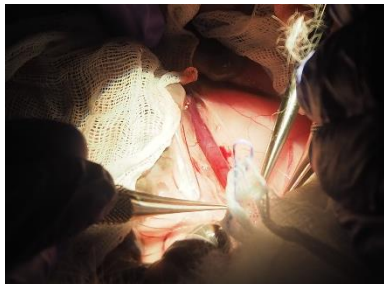
Refreshment break

- Carotid artery stenosis, open surgery, technical note, update (Linni)
- Complex/Giant aneurysms (M&M)
- Multimodal Aneurysms treatment from the perspective of hybrid Neurosurgeon (Griessenauer)

Refreshment break

- Case discussion (Alle)
- Complications (Aneurysms, Bypass)
- Evaluation und awarding of certificates

14:00 End



REGISTRATION FORM

Dr./Prof. Family name: -----

First name: -----

Professional or private address: -----

Zip code: ----- City: -----

Country:-----

Phone:-----

Fax:-----

E-mail:-----

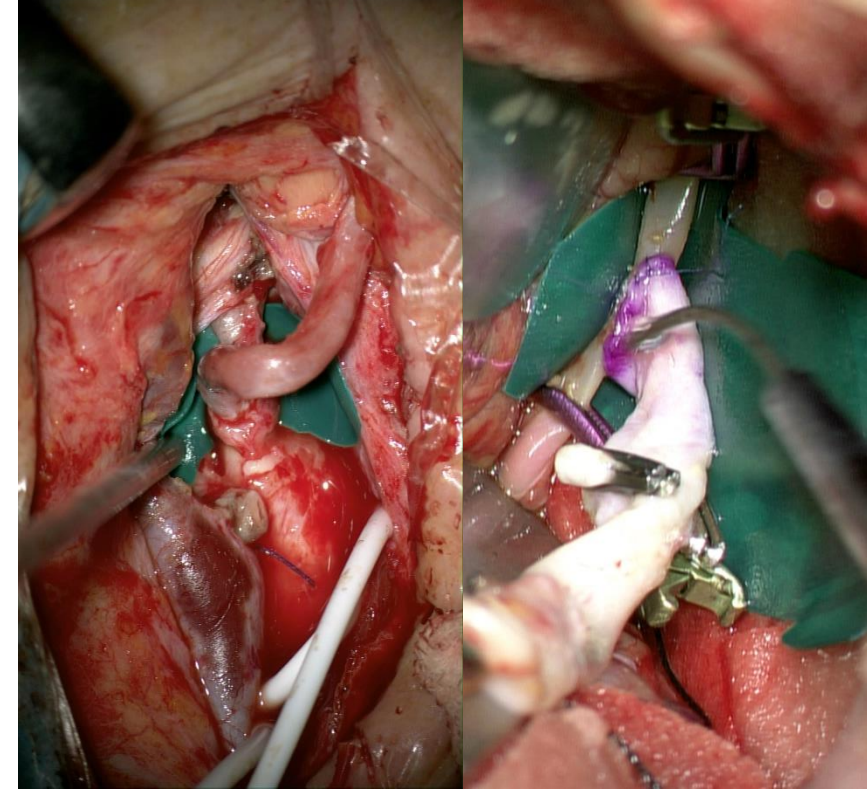
The tuition fee and registration amounts to Euro 850,00. You will receive an invoice after registration.

Tuition fee includes the following:

1. Course materials including Anastomosis Training Kit®
2. Microscope, suture, micro-instruments
3. Hands-on workshop with live animals
4. Gloves, syringes and needles, sterile fluids
5. Surgical gowns
6. IT-Equipment and auditorium facilities
7. Refreshment breaks and lunch
8. Dinner on Friday
9. Certificate

Location:

Christian Doppler Medical Center
Research Laboratory for Microsurgical Neuroanatomy (Haus 15)
Ignaz Harrer Str. 79
5020 Salzburg



Please send the registration form to:

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Für das Diplom-Fortbildungs-Programm der Österreichischen Ärztekammer wurden 36 DFP-Punkte beantragt.