



Organisation

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LIAM

Laboratory for innovation, application and medical
education in image-guided medical interventions and surgery

Target group: Vascular surgeons and vascular-surgical
nurses

Number of participants: 6-8

Duration: 1 day

WWW.LIAM-LAB.COM



Instructors:



Prof. Dr. med. Zuhir Halloul
(vascular surgeon)
Department of General, Visceral and
Vascular Surgery,
University Hospital Magdeburg



Prof. Dr. med. Maciej Pech
(interventional radiologist)
Department of Radiology and Nuclear
Medicine,
University Hospital Magdeburg

Artis Zeego in the vascular-
surgical hybrid surgery

PROGRAMME:

Artis Zeego in the vascular-surgical hybrid surgery

Course objective:

Modern angiography systems are increasingly replacing conventional C-arms in vascular surgery. While its versatility offers fascinating possibilities in surgery, the challenges increase accordingly.

This course is tailored to the needs of surgeons and teaches the basics of operating a modern flat-detector angiography system. Through practical exercises, surgeons will gain indispensable expertise for their daily work. Furthermore, the technical options of the robot-supported Artis Zeego system will be demonstrated; thereunder the creation of CT-data and how to apply the imaging in surgery as well as the image-guided direct puncture of the endoleak.

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8.00 a.m. - 8.10 a.m.	Greeting and introduction
8.10 a.m. - 8.25 a.m.	Presentation: Artis Zeego system operation (5 min overview of the control unit, 10 min using the robot arm)
8.25 a.m. - 8.55 a.m.	Practical exercise: control unit
8.55 a.m. - 9.05 a.m.	Demonstration: radiation protection (display, fps, object-detector distance)
9.05 a.m. - 9.25 a.m.	Practical exercise: radiation protection
9.25 a.m. - 9.35 a.m.	Break
9.35 a.m. - 9.50 a.m.	Presentation: 2D-angiography (overlay, roadmap, semi-automatic vascular analysis)
9.50 a.m. - 10.20 a.m.	Practical exercise: 2D-angiography
10.20 a.m. - 10.30 a.m.	Presentation: overview of 3D-functions
10.30 a.m. - 10.40 a.m.	Presentation: rotation angiography
10.40 a.m. - 11.10 a.m.	Practical exercise: rotation angiography
11.10 a.m. - 11.20 a.m.	Break
11.20 a.m. - 11.35 a.m.	Presentation: DynaCT and MMWP
11.35 a.m. - 12.05 p.m.	Practical exercise: DynaCT
12.05 p.m. - 12.20 p.m.	Presentation: iGuide
12.20 p.m. - 1.10 p.m.	Practical exercise: iGuide
1.10 p.m. - 1.40 p.m.	Lunch break
1.40 p.m. - 4.50 p.m.	Practical exercises on a large animal model (solving certain tasks: EVAR, endoleak, etc.)
4.50 p.m. - 5.00 p.m.	Conclusion and course evaluation