

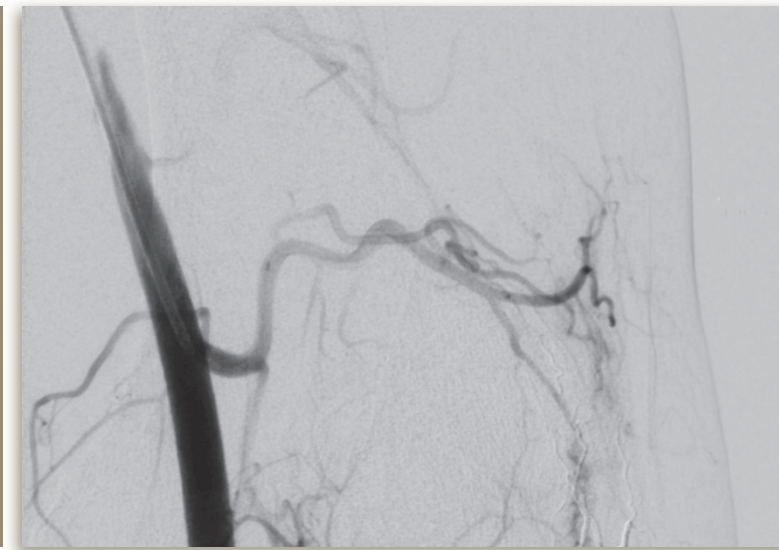


exclusive training programmes in minimally  
invasive treatment techniques

interdisciplinary teaching

modern hands-on trainings in small groups  
(using phantoms or animal models)

individualised workshops on request



**Course directors:**



Walter Wohlgemuth, Professor and  
Head of the interdisciplinary center  
for vascular anomalies  
University Hospital Regensburg



Jens Ricke, MD, Professor and Chairman,  
Dept. of Radiology and Nuclear medicine,  
Head AVM Zentrum  
University Hospital Magdeburg

**Contact details:**

Please contact **Annika Kral** for general enquiries  
or booking requests.

phone: +49 391 6715561  
e-mail: [info@liam-lab.de](mailto:info@liam-lab.de)  
address: Leipziger Strasse 44,  
39120 Magdeburg/Germany



Master class: Onyx embolisation  
of vascular malformations and  
Endoleak repair after EVAR

Date: 8-9 December 2016

With kind support of





## Course objective

Conquering vascular malformations is somewhat the holy grail of the interdisciplinary interventional community. Vascular malformations can be extremely demanding to manage and although non-malignant, they are frequently associated with hereditary syndromes, aggressive growth and a tendency to recurrence despite all preventing efforts. In addition, vascular malformations are rare and their individual properties make each of these tumours unique.

Aortic endoleaks after EVAR are a frequent challenge for IRs. The first question is if this particular endoleak even needs to be treated and if so, what is the best therapeutic approach?

For both clinical issues the key to success for each interventionalist is in-depth knowledge, experience in microcatheter techniques and the use of liquid embolics. Among those, Onyx® embolisation has proven to be a popular choice.

In this training course, participants will not only gain theoretical knowledge of the appropriate diagnosis and classification of vascular malformations and endoleaks in particular, but also valuable hands-on experience. Divided into small groups, participants train the use of Onyx, sclerosants, plugs and coils using a large animal model. To incorporate the theoretical knowledge into a clinical setting, real clinical cases will be discussed and AVM embolisation cases as well as endoleak repair after EVAR will be observed.

# CURRICULUM

## Master Class: Onyx embolisation of vascular malformations and Endoleak repair after EVAR

### Day 1 (08:00-16:30)

#### Hands-on day

##### Meeting venue:

Institute of Medical Technology and Research, Rottmersleben (<http://www.imtr.de>)

**08:00** Fundamentals of AVM embolisation with Onyx (all)

**09:00** Participants will be divided into 2 groups.  
Group 1: Hands-on using a large animal model with simultaneous access to 2 workplaces  
Group 2: Basics  
Vascular malformations

- Classification of vascular malformations
- Diagnostic workup of vascular malformations and associated syndromes: clinical assessments and imaging
- Specifics of AVMs
- Embolisation techniques for AVM
- Indications for treatment, treatment endpoints
- Sclerosants and embolic agents, catheters, plug and push techniques

##### Endoleak embolisation

- Classification of endoleaks after EVAR
- Diagnostic workup
- Current data and treatment indications
- Technical choices: vascular or translumbar?
- Embolics, coils or else?

##### Case discussions

(Vascular malformations, Endoleaks)

**13:00** Lunch break

**13:30** Group 1, 2: 13:30 – 16:00 switch between groups

**16:00** Q&A, wrap up

**19:30** Dinner and social programme (tbd)

### Day 2 (08:00 – 15:00)

#### Clinical case demonstrations

##### Meeting venue:

University Hospital Magdeburg, Department of Radiology and Nuclear medicine, Interventional suite

**08:00** Clinical cases: AVM and endoleak embolisation with Onyx

**in between** Coffee break, working lunch

**14:00** Question & answers, course evaluation, performance test

**15:00** End

**Max. no. of participants:** 8-10

**Course duration:** 2 days (Thu + Fri)

**Target group:** Interventional radiologists with experience in microcatheter and embolisation techniques, as well as their “team mates” from their home institution