



in cooperation with



**Deutsche Akademie
für Mikrotherapie**

DAFMT

International School of Image-Guided Interventions



LIAM GmbH

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

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



Lecturers:

PD Dr. med. Maciej Powerski
University Hospital of Radiology and
Nuclear Medicine, Magdeburg



Prof. Dr. med. Max Seidensticker
Medical center of the university of
Munich, Institute of Clinical Radiology



Organisation:

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Mikrocatheter-Embolisation

Special focus:

Particle embolisation

Date

15th and 16th of June, 2017

Herrenkrug Parkhotel an der Elbe
Herrenkrug 3, 39114 Magdeburg, Germany
Tel. +49(0)391) 85 08 0

supported by BTG International



Maximum number of participants: 5

Duration: 1,5 days

Aim: The training course is designed to train microcatheter and embolisation particle handling during vascular embolisation for various indications. Modern Interventional Radiology has become excessively demanding with an increasing need for the use of advanced microcatheter and embolisation techniques in a broad range of indications from acute bleeding in emergency cases to chemoembolisation of complex malignancies. The training course consists of two dominant parts: first, an interactive teaching and lecturing day will provide the necessary insights into materials and techniques available, as well as evidence, indications, patient management, and challenging cases. With this theoretical fundament, the second day will take place in the large animal lab providing each participant with the opportunity to practically train microcatheter and embolisation techniques from particles to liquid glue.

Target groups: Interventional Radiologists with basic experience in complex interventions and embolisations

Day 1 - interactive lectures (3pm – 6.30pm)

BASICS, THEORY AND MATERIALS (45 MIN)

Catheters: coaxial technique, microcatheters

Embolisation:

- particles (bead block®, DC beads®, gelfoam®)
- coils, plugs
- liquid glue: histoacryl®, Onyx

TRANSARTERIAL CHEMOEMBOLISATION (45 MIN)

Basics: guidelines, evidence, indications

Materials:

- chemotherapeutics
- drug-eluting beads

Application technique:

- selective vs. unselective chemoembolisation
- visceral collaterals

Pros und Cons:

- tips & tricks
- challenging case discussions
- complication management
- clinical patient management
- follow up

GASTROINTESTINAL BLEEDING (60 MIN)

Acute upper GI bleeding:

- causes and incidences
- acute clinical management and pathways
- risk stratification
- endoscopic treatment: what the endoscopist can do
- endovascular treatment:
 - what the IR can do
 - vascular anatomy of the upper GI tract
 - portal hypertension and management
 - embolisation strategies
 - tips & tricks
 - challenging case discussions

Lower GI bleeding:

- causes and incidences
- acute clinical management and pathways
- risk stratification
- role of colonoscopy and push endoscopy
- role of CT-angiography and blood pool scintigraphy
- endovascular treatment:
 - what the IR can do
 - vascular anatomy of the lower GI tract
 - embolisation strategies
 - tips & tricks
 - challenging case discussion

Day 2 – Hands on (9am – 3.30pm)

Large animal model

- demonstration of tools and materials
- practical training of microcatheter handling
- practical training of particle handling
 - bleeding embolisation with bead block
 - how to determine the embolisation endpoint:
 - stepwise embolisation with different particle sizes
 - chemoembolisation with DC beads
 - protective embolisation of collaterals with coils
 - scaffold-Technique, anchor-technique
 - embolisation with glue (histoacryl)