Uterine Artery Embolization
Complex Anatomical Assessment with Artis **zeego** and Large Volume *syngo* DynaCT

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Patient history
48-year-old female with non-painful menometrorrhagia referred to the radiology department of the Klinikum Großhadern by her gynecologist for artery embolization treatment of uterine fibroids.

Diagnosis
MRI study done elsewhere confirmed diagnosis of two large uterine fibroids. Both fibroids are strictly intramural, none of them is subserous, intracavitary or pedunculated.

Treatment
For the uterine artery embolization, the right femoral artery was punctured and both internal iliac arteries visualized with a 4F Cobra catheter. The fibroids were being fed predominantly (70%) via the right uterine artery. Due to the complex vascular situation, a large volume *syngo* DynaCT run was performed to cover the whole pelvic region and to better differentiate the feeding vessels. Both uterine arteries were embolized with a 500-700 µm PVA microspheres to subtotal occlusion (image of defoliated tree).

Comments
Considering the complex vascular situation, the large size of the fibroids and the difficult anatomical situation, Large Volume *syngo* DynaCT was extremely helpful for visualizing and isolating the feeding vessels of the fibroids, ensuring that the arteries neither to the ovary nor the bladder were embolized. The patient returned to the gynecology clinic approximately six days after embolization. Transvaginal ultrasound confirmed incipient necrosis. The patient tolerated the procedure without any complications.

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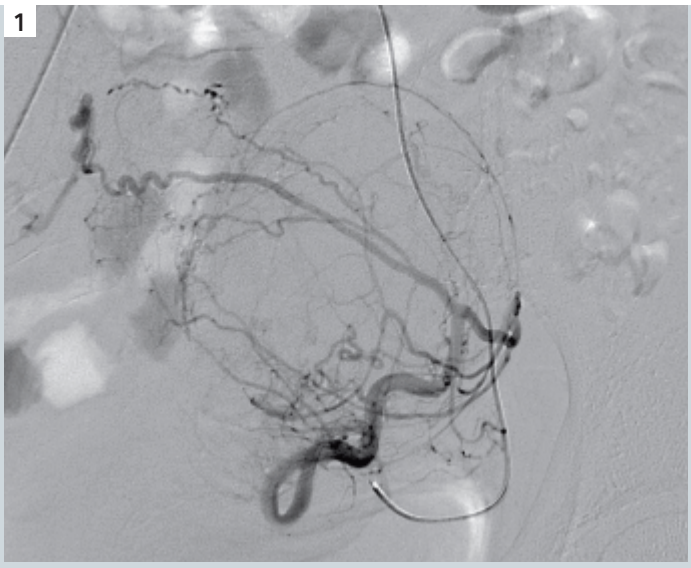
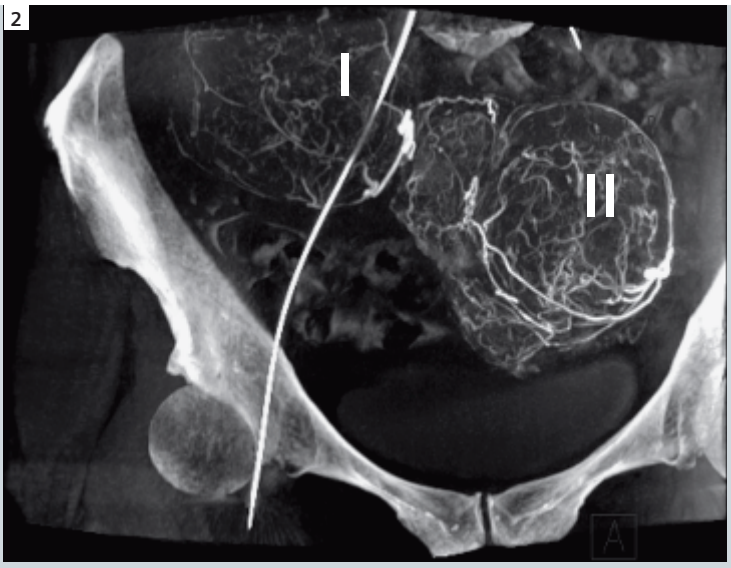
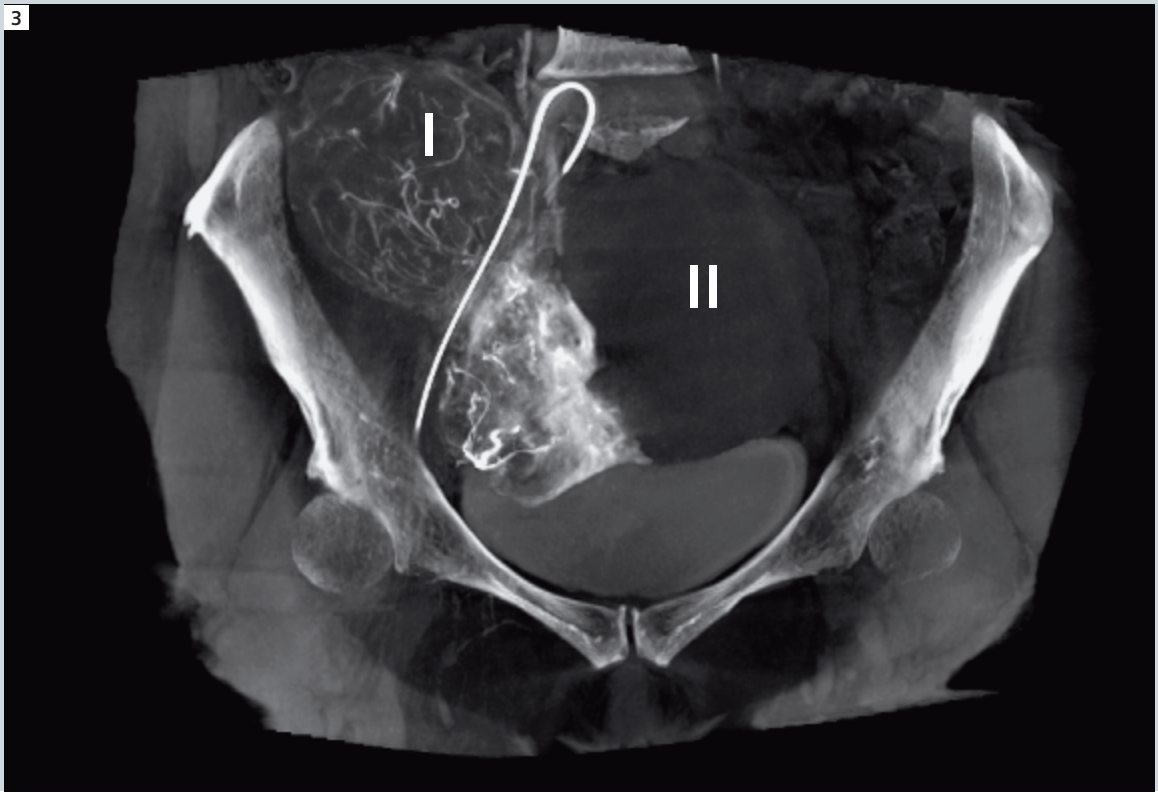
Dr. Hoffmann and his team (PD Dr. Becker, Dr. Waggershauser) with the Artis **zeego** angio system, Institute for Clinical Radiology, University Hospital of Munich/Großhadern, Germany.
The Artis **zeego** was installed in November 2007 as the first site worldwide to perform clinical use tests. The system is used primarily for angiography-assisted tumor treatment. The Department for Clinical Radiology was the first in Europe to offer SIRT (selective internal radiation therapy) and has currently treated the highest number of cases in all of Europe. All the other procedures in the angiographic spectrum will be performed as well, including PTA, stent implants, chemoembolization, uterine artery embolization, PTCD and TIPS.







48-year-old female with two large fibroids (I, II) compressing the bladder. Blood supply in fibroid II originates from both, the left [Fig. 1, 2] and right uterine artery [Fig. 3].

1 Angiogram with catheter tip in the left uterine artery.

2 MIP images from the corresponding *syngo* DynaCT.

3 Large Volume *syngo* DynaCT offers the possibility of 47cm large FOV covering the whole pelvis for an improved overview.