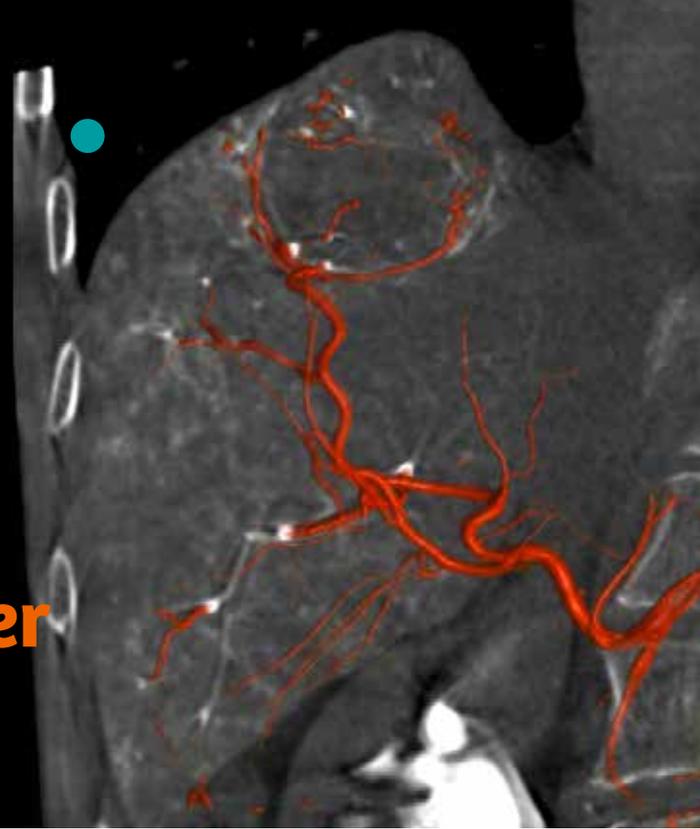




Study Protocol

Transarterial embolization of ependymoma metastases in the liver

Oncology Interventions



Case Description

Patient history

60-year-old female patient with history of extraneural myxopapillary ependymoma, initially diagnosed in 2009.

Diagnosis

Liver-, lung- and lymphnode metastases since 2015.

Treatment

First session of transarterial embolisation of livermetastases with bland embospheres (100-300 um).

We placed the catheter in the A. mesenterica superior for arteriography and indirect mesentericoportography, followed by arteriography of the celiac trunc.

A cone beam CT run in arterial phase was done with microcatheter placement in the proper hepatic artery. Embolisation was performed from tumorfeeding branch of the right hepatic artery.

After embolization a final DSA showed a decreased perfusion in the embolized liver arteries.

General comments

With the help of the *syngo* DynaCT 3D vessel map, we can ensure the proper position of the catheter for selective embolisation. It enhances the identification of aberrant vessels, we easily could verify that there are no vessel branches to the bowel or stomach distal to the embolization position.

Tips and tricks

To gather best *syngo* DynaCT image quality, proper breathhold of the patient is vital.

Explain the importance of his cooperation and give breathhold commands understandable and vigorous to the patient.

Courtesy of

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Interventional Radiology,
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Supported by

syngo DynaCT

System & Software

Artis pheno VE 10

Transarterial embolization of ependymom metastases in the liver

Acquisition protocol	5s DCT Body
Injection protocol	
Catheter position	Microcatheter in proper hepatic artery
Contrast medium (CM)	300 mg iodine/mL
Dilution (CM/Saline):	60%
Injection volume	24 mL
Injection rate	2.0 mL/s
Duration of injection	12 s
X-ray delay	5 sec
Power injector used	No
Reconstructions	
Name	DCT Body
VOI size	Full
Slice matrix	512x512
Kernel type	HU
Image characteristics	Normal
Reconstruction mode	Nat
Viewing preset	DynaCT Body

Clinical Images

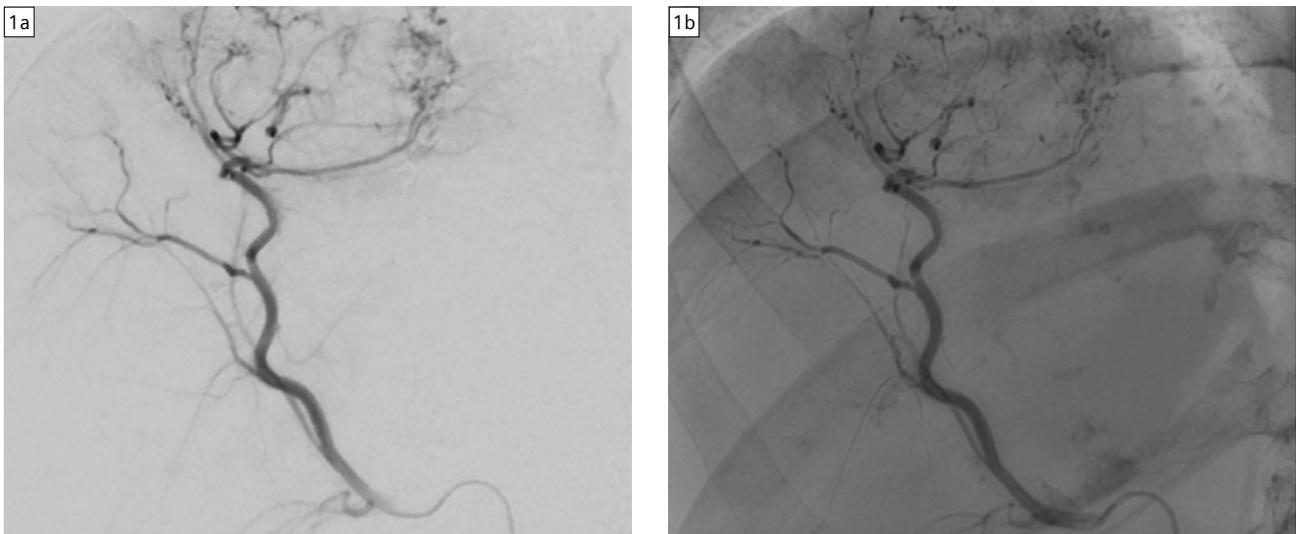


Figure 1: DSA scene in embolisation position

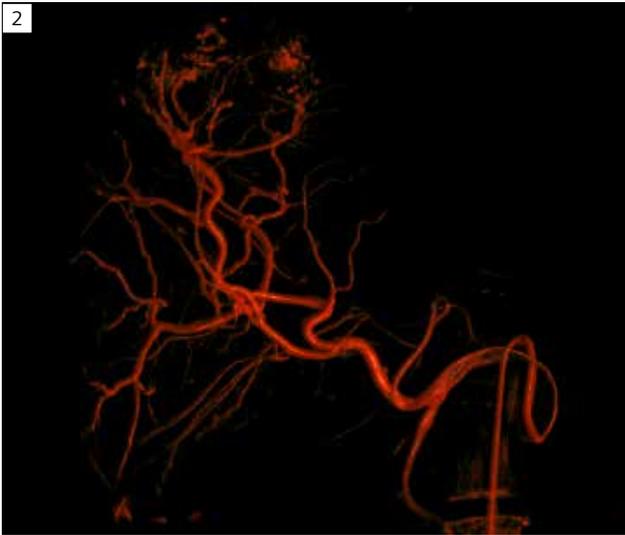


Figure 2: syngo DynaCT VRT visualization

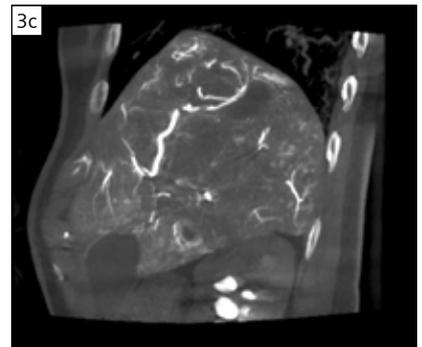
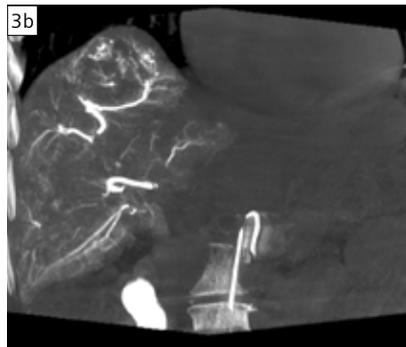
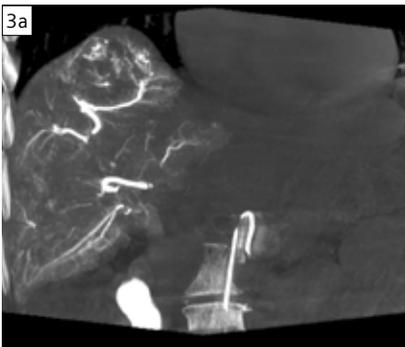


Figure 3: syngo DynaCT imaging MIP 10 mm
Shows tumor and feeding arteries in axial, coronal and sagittal

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