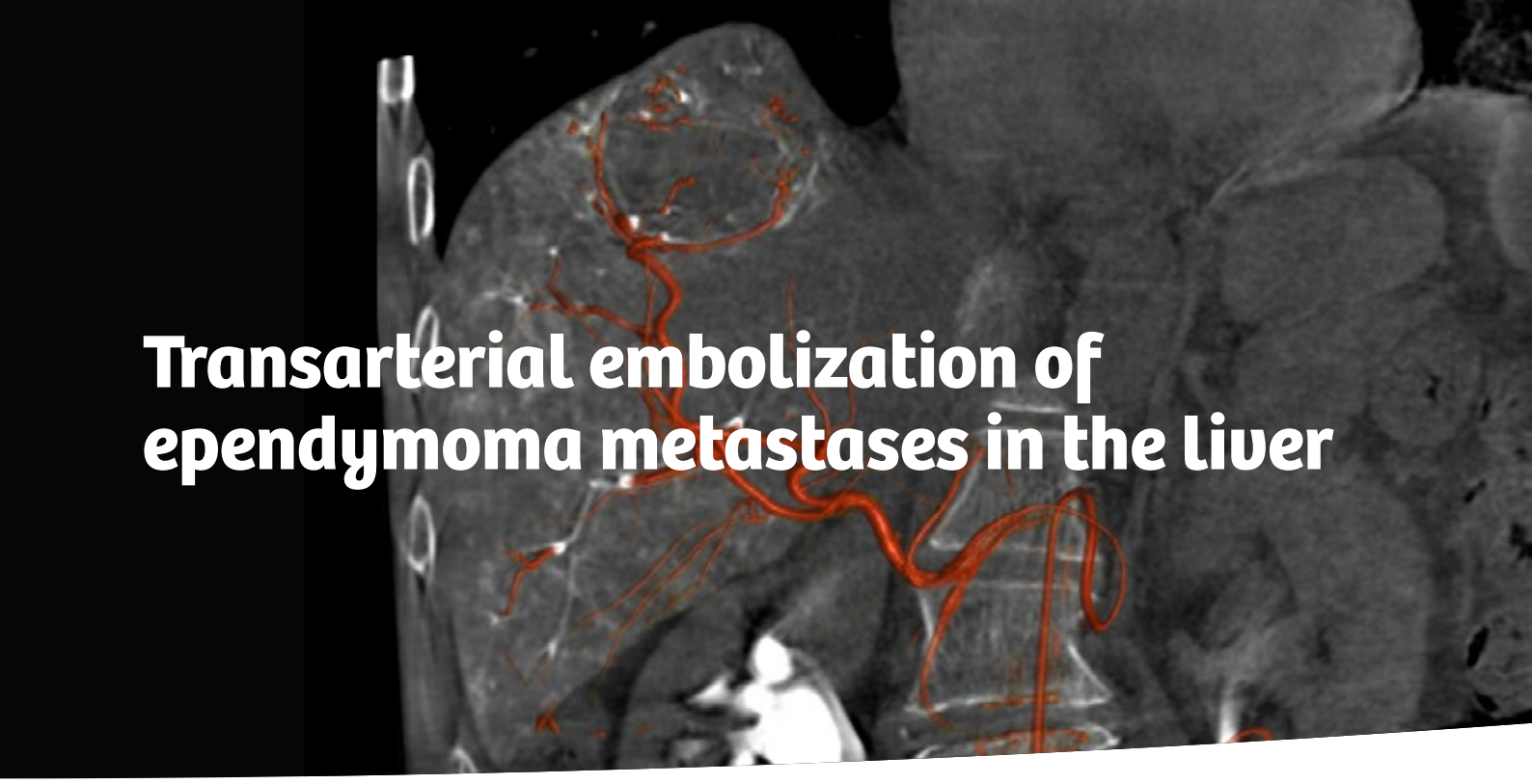

Transarterial embolization of ependymoma metastases in the liver

Oncology Interventions

Study Protocol

Courtesy of
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Institute for Diagnostic and Interventional Radiology,
Hannover Medical School,
Germany

Supported by
syngo DynaCT

System & Software
ARTIS pheno VE1
with *syngo* Application Software VD2

Case Description

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

Diagnosis
Liver, lung and lymph node metastases since 2015.

Treatment
First session of transarterial embolization of liver metastases with bland embospheres (100—300 µm).

A catheter was placed in the superior mesenteric artery for arteriography and indirect mesentericoportography followed by arteriography of the celiac trunk.

A cone beam CT (CBCT) scan in the arterial phase was carried out with microcatheter placement in the proper hepatic artery. Embolization of the tumor-feeding branch of the right hepatic artery was performed.

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 embolization. It enhances the identification of aberrant vessels, making it easy for us to verify that there were no vessel branches to the bowel or stomach distal to the embolization position.

Tips and tricks
To ensure optimum *syngo* DynaCT image quality, proper patient breath-hold is vital.

Explain the importance of the patient's cooperation and give them clear and vigorous breath-hold instructions.

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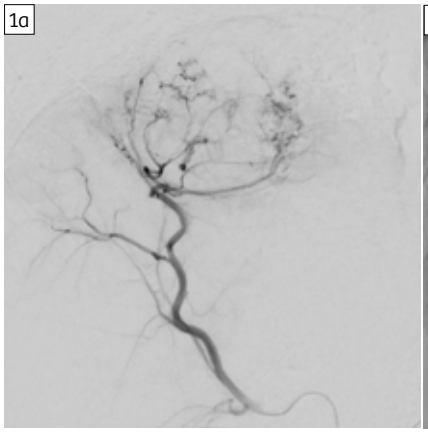
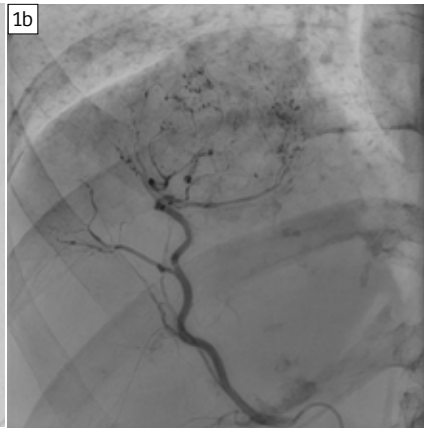
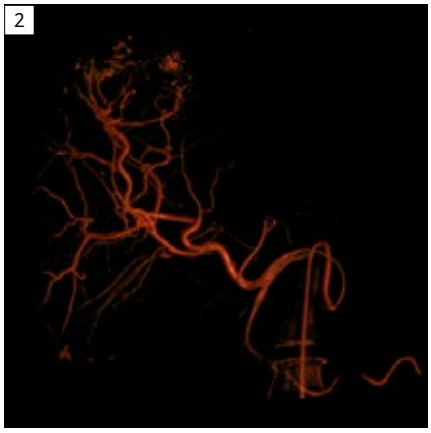
Acquisition protocol	5s DCT Body
Injection protocol	
Catheter position	Microcatheter in proper hepatic artery
Contrast medium (CM)	300 mg iodine/mL
Dilution (CM/Saline):	60%
Injection volume	20 mL
Injection rate	2.0 mL/s
Duration of injection	10 s
X-ray delay	5 s
Power injector used	No

Reconstructions	
Name	DCT Body
VOI size	Full
Slice matrix	512×512
Kernel type	HU
Image characteristics	Normal
Reconstruction mode	Nat
Viewing preset	DynaCT Body

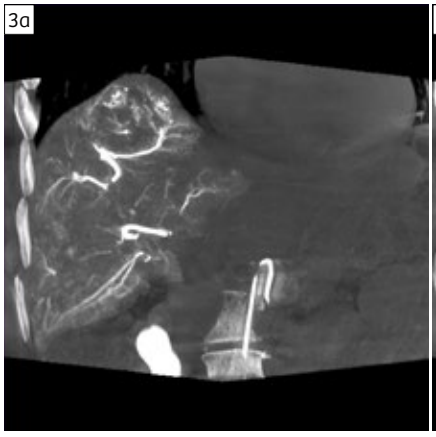


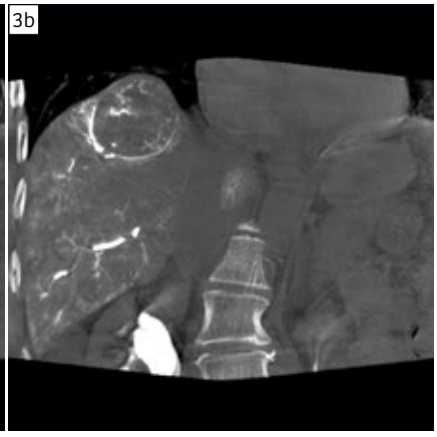


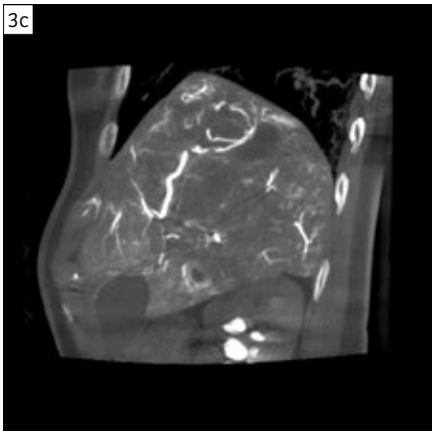
DSA scene in embolization position



syngo DynaCT VRT visualization







syngo DynaCT imaging MIP 10 mm
Shows tumor and feeding arteries in axial, coronal and sagital

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