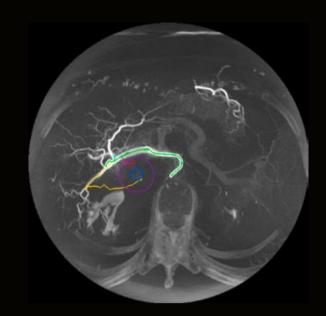
Study Protocol

Transarterial chemoembolization of HCC

Oncology



Case Description

Patient history

68-year-old female patient

Diagnosis

Hepatocellular cancer in liver segment 1. Surgery not possible due to heavy liver cirrhosis.

Treatment

First transarterial chemoembolization (TACE) with TANDEM particles loaded with doxorubicin.

General comments

A lesion in segment 1 is difficult to see in angiography, therefore *syngo* DynaCT is very helpful to visualize the lesion, as well as the feeding arteries. *syngo* Embolization Guidance was used. Simply marking the lesion allows the application to detect all feeding arteries of the tumor. It was then quite visible that the blood supply came from the right hepatic artery. The segmented vessels were overlaid onto live fluoro for better navigation of the microcatheter.

Tips & Tricks

For very high image quality of the syngo DynaCT acquisition, good patient cooperation and strict breathhold are crucial.

Statement

syngo DynaCT is often very helpful for the detection of the lesion. syngo Embolization Guidance can help to detect the vessel supply, provides 3D overlay, and can support finding the optimal C-arm angulation.

Courtesy of

Prof. Florian Wolf, MD; Prof. Christian Loewe, MD; Allgemeines Krankenhaus Wien – Medical University Vienna, Austria

Supported by

syngo Embolization Guidance syngo DynaCT

System & Software

ARTIS icono biplane VE2 with syngo Application Software VE2



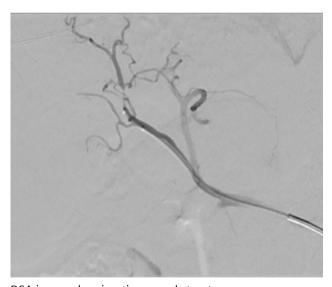
Protocol

Acquisition protocol	5sDCT Body
Injection protocol	
Catheter position	common hepatic artery
Contrast medium (CM)	300 mg/mL
Dilution	50%
Injection volume	44 mL
Injection rate	4 mL/s
Duration of injection	11 s
X-ray delay	6 s
Power injector used	Yes
Reconstruction	Primary
Name	DCT Body Nat Fill
VOI size	Full
Slice matrix	512 x 512
Kernel type	ни
Image characteristics	Normal

Clinical Images

Reconstruction mode

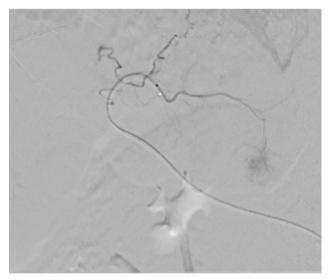
Viewing preset



Nat Fill

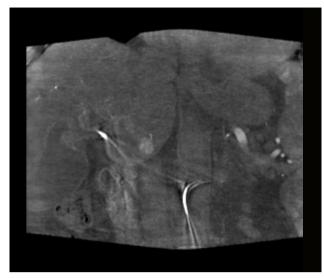
DynaCT Body

DSA image showing tiny vessel structure



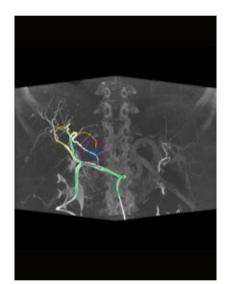
DSA image in treatment position

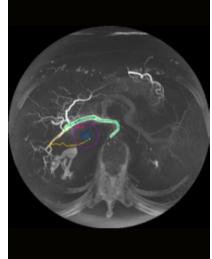
Clinical Images

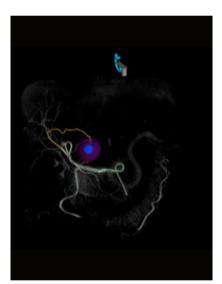




Thin MPRs - Showing hypervascularized lesion in liver segment 1







Thick MPR Thick MPR VRT

syngo Embolization Guidance segments feeding vessels to the lesion. Branching vessels can be added manually.

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