

Artis zee - Study Protocol

# syngo DynaCT in multiple phases for HCC

Interventional Oncology

#### Supported by\*

- syngo InSpace 3D
- syngo DynaCT
- syngo DynaCT 360
- syngo InSpace 3D/3D Fusion
- syngo iPilot enhanced
- syngo iGuide Toolbox
- syngo iGuide
- syngo Neuro PBV IR
- syngo DynaPBV Body
- syngo Embolization Guidance
- syngo iFlow
- syngo Advanced Roadmap
- syngo iIdentify

#### Courtesy of

Norifumi Nishida,  
Yoshinori Takao,  
Osaka City University Hospital,  
Japan

#### System & Software

Artis zee VC21  
syngo X Workplace VB21

*\*This list of applications is not complete. Not all applications available for all software versions.*

## Case Description

A 69-year-old male with HCC (hepatocellular carcinoma) and HCV (Hepatitis C virus)-positive hepatic cirrhosis.

#### Customer Comment

CT scan during hepatic arteriography for HCC shows both tumor stain in first phase and the corona enhancement in second phase (Radiology 1998 206:161-166. CVIR 2011 34:81-86). Thus this CT scan enables differentiation from an AP shunt which is also densely-stained in the first phase. syngo DynaCT scanned in two phases has an advantage in improvement of diagnostic performance for HCC because of its high spatial resolution and precise visualization of corona enhancement in second phase.

#### Patient History

The HCC was treated by resection of the caudate lobe 9 years ago, segmentectomy of S6 2 years ago, and several RFA series. HCC recurrence was found by ultra-

sonography and dynamic contrast-enhanced CT scan during regular follow-up. Because of this recurrence, the patient was hospitalized for TACE treatment.

#### Diagnosis

Perfusion defect was found in both lobes of the liver using syngo DynaCT scanned in two phases. These sites also showed early enhancement and corona enhancement in the second phase using the syngo DynaCT scanned in two phases. The patient was diagnosed with HCC multiple recurrence based on these evaluations.

#### Treatment

A microcatheter was selectively inserted into left and right hepatic arteries, and then TACE was performed using Lipiodol-emulsion and Gelpart.

syngo DynaCT scanned in two phases would improve the diagnostic performance for HCC and has an advantage in the preoperative diagnosis.

