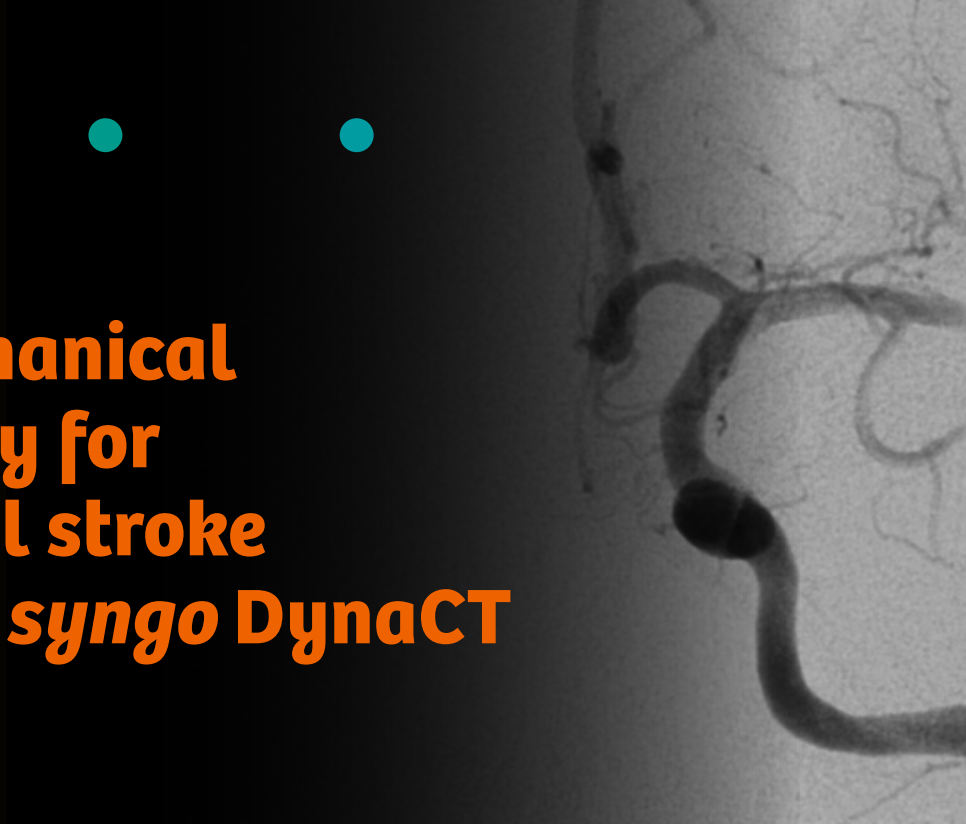

Study Protocol

PTA and mechanical thrombectomy for acute cerebral stroke supported by *syngo* DynaCT

Interventional Neuroradiology

syngo DynaCT provides essential information during thrombectomy procedures and supports decision-making on treatment strategy.

Courtesy of
Marios Nikos Psychogios, MD,
Department for Diagnostic and Interventional Neuroradiology,
UMG Göttingen,
Germany

Supported by
syngo DynaCT

System & Software
Artis Q biplane VD10
syngo X Workplace VC10

Case Description

Patient history
64-year-old male patient presented 4.5 hours after symptom onset with a right side paresis.

Diagnosis
Admission non-contrast CT showed a left dense MCA sign and initial ischemic signs of the left insular ribbon and lentiform nucleus (NCCT-ASPECTS 8). MDCTA (CT angiography) confirmed the MCA thrombosis and showed an additional proximal thrombosis of the left ICA, leading to high-grade stenosis.

Treatment
PTA of the proximal ICA with successive thrombectomy of the ICA and left M1 thrombosis.

After clot removal and before stenting of the ICA stenosis, a *syngo* DynaCT was performed.

syngo DynaCT images showed contrast extravasation in the basal ganglia and suspected blood in the dorsal putamen region.

Having seen the suspicious hemorrhagic lesion, it was decided to stop the treatment at that point and not proceed with ICA stenting and treatment of the patient with Aspirin and Plavix.

General comments
syngo DynaCT provides essential information during thrombectomy procedures and supports decision-making on treatment strategy.

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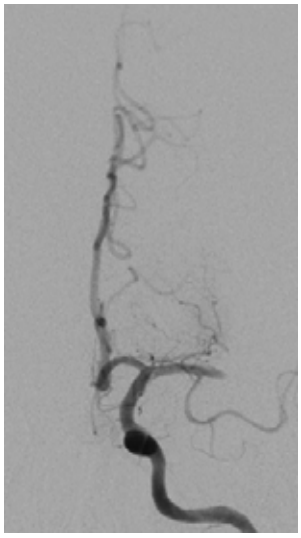
PTA and mechanical thrombectomy for acute cerebral stroke supported by *syngo* DynaCT

Acquisition protocol	**20sDCT Head 109 kV**

Injection protocol	
Contrast medium (CM)	No contrast

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

Clinical Images



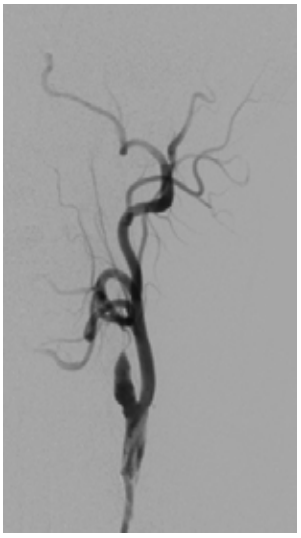


Figure 1: DSA scenes before thrombectomy show occlusions of ICA and MCA

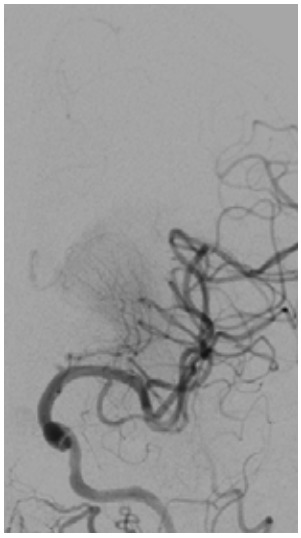


Figure 2: DSA scenes after PTA and thrombectomy of ICA and MCA

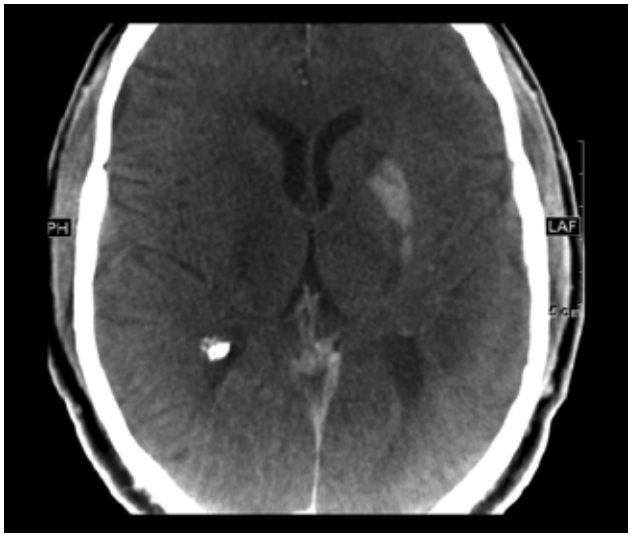


Figure 3: Axial MPR 3 mm shows contrast medium extravasation in the putamen

Siemens Healthineers Headquarters
Siemens Healthcare GmbH
Henkestr. 127
91052 Erlangen, Germany
Phone: +49 9131 84-0
siemens-healthineers.com

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