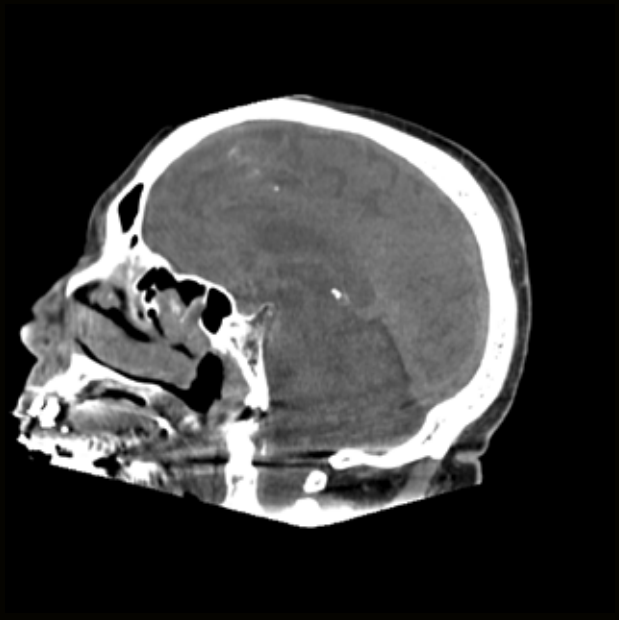
Study Protocol

Thrombectomy in stroke using *syngo* DynaCT Sine Spin

Neuro Interventions



Case Description

Patient history
83-year-old male patient

Diagnosis
CTA in another hospital showed an acute occlusion of the left MCA (middle cerebral artery) in the M1 segment.

Treatment
Intracranial thrombectomy with stent retriever under general anesthesia. Thrombectomy in several maneuvers with Solitaire X stent retriever and Tigertriever to reopen the vessel.

General Comments:
Upon arrival of the patient in our department from the other hospital, the initial CT was 3h old. With a native *syngo* DynaCT Sine Spin, we could check for potential bleeding and demarcation of the infarct before starting thrombectomy. The final *syngo* DynaCT Sine Spin showed a blood-brain barrier disorder, which influences the further treatment of the patient. Severe bleeding would have also been visible.

Tips & Tricks:
The correct location of the intubation tube is very important for good image quality. Position the ventilation hose from the mouth towards the foot end.

Courtesy of
Prof. René Chapot, MD; Ekin Celik, MD; Interventional Neuroradiology, Alfried Krupp Hospital, Essen, Germany

Supported by
syngo DynaCT Sine Spin

System & Software
ARTIS icono VE2 with *syngo* Application Software VE2

SIEMENS Healthineers

Protocol

Acquisition protocol	7sDCT Sine Spin - for pre- and post-interventional *syngo* DynaCT Sine Spin run
Injection protocol	
Contrast medium (CM)	n/a

Reconstructions	**1st Reconstruction**
Name	DCT Head Clear Nat Fill
VOI size	Full
Slice matrix	512x512
Kernel type	HU
Image characteristics	Smooth
Reconstruction mode	Nat Fill
Viewing preset	DynaCT Head

Pre-interventional *syngo* DynaCT Sine Spin

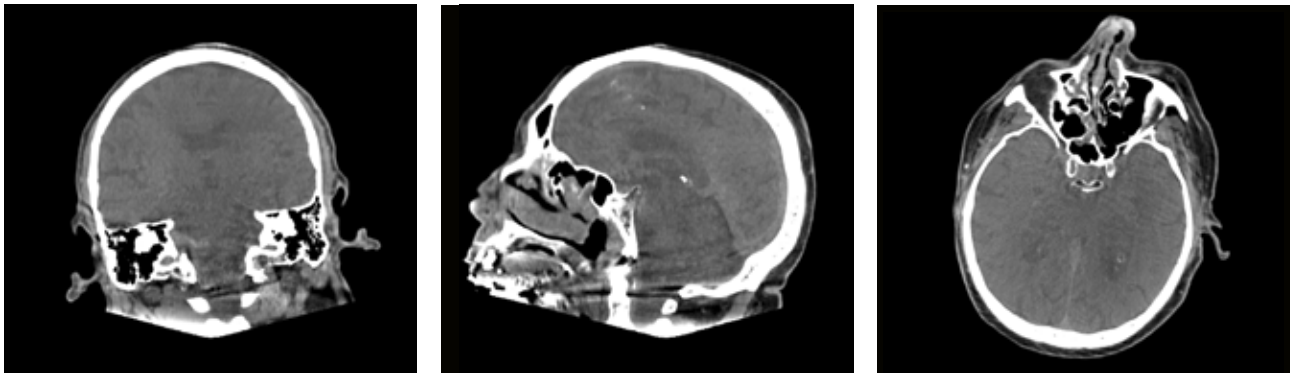


Fig. 1. MPR 0.5 mm

DSA imaging during intervention

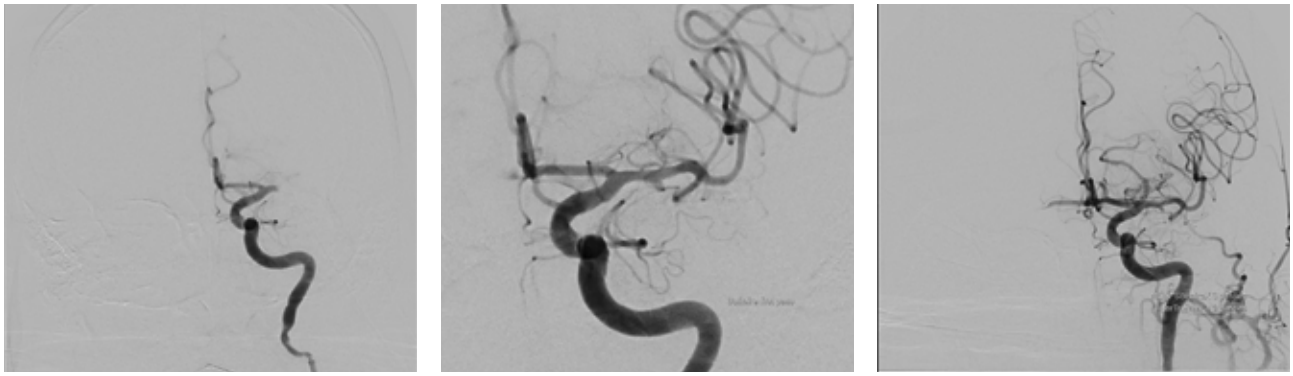


Fig. 2. MCA occlusion

After first pass

Post-interventional *syngo* DynaCT Sine Spin

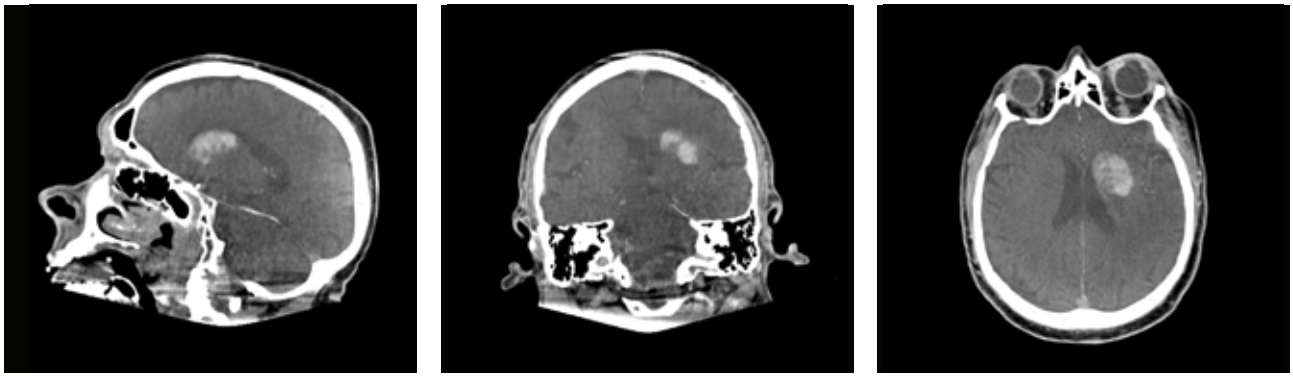


Fig. 3. MPR 0.5 mm contrast medium pooling

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

Published by Siemens Healthcare GmbH · AT 7665-07 0520 digital · ©Siemens Healthcare GmbH, 2020