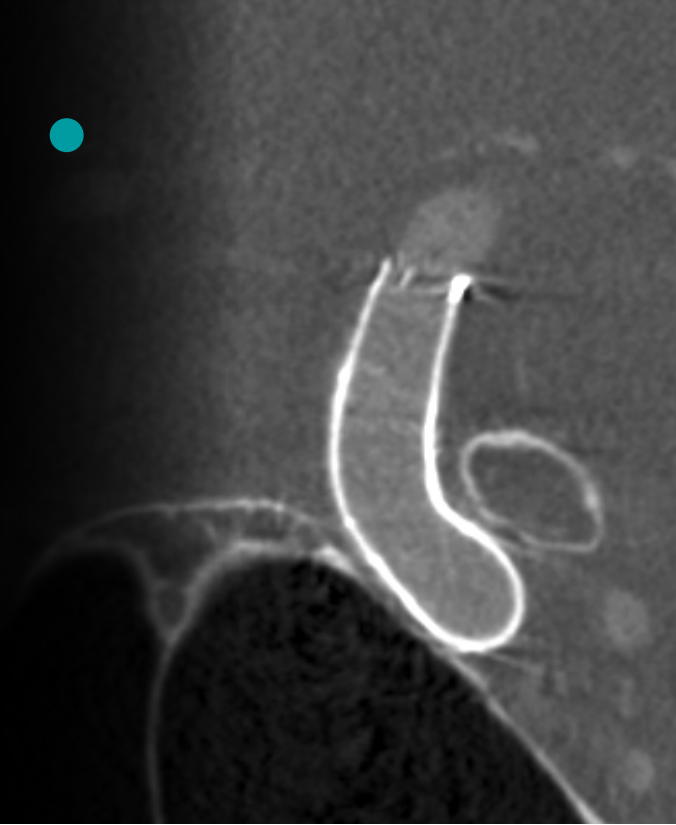


Study Protocol

Follow-up of aneurysm treated with a flow diverter

Neuro Interventions



Cone beam CT with IV injection is a very easy workflow in our daily routine

Courtesy of

Prof. Martin Skalej
Department of Neuroradiology
University Hospital Magdeburg,
Germany

Supported by

syngo DynaCT Micro

System & Software

Artis Q biplane VD11
syngo X Workplace VD10

Case Description

Patient history

64-year-old male with two innocent wide-necked paraophthalmic aneurysms in the left internal carotid artery.

Treatment

Implantation of a flow diverter (Acandis Derivo 4.5 mm × 20 mm) 6 months prior. syngo DynaCT Micro acquisition for follow-up of an aneurysm treated with a flow diverter to exclude intimal hyperplasia or in-stent stenosis.

General comments

The follow-up of flow diverter placement is easy to perform in our daily routine. There is no need for catheter placement; only IV contrast injection is required. syngo DynaCT Micro, with its higher spatial resolution, improves the visualization of the stent.

Follow-up of aneurysm treated with a flow diverter

Acquisition protocol	20s DCTHead Micro
Injection protocol	
Catheter position	IV injection
Contrast medium (CM)	300 mg iodine/mL
Dilution (CM/Saline):	80%
Injection volume	100 mL
Injection rate	5 mL/s
Duration of injection	20 s
X-ray delay	20 s
Power injector used	Yes (Accutron Hp-D)
Reconstructions	
Name	DynaCT Micro
VOI size	Manual 78 mm × 78 mm × 75 mm
Slice matrix	512 × 512
Kernel type	HU
Image characteristics	Normal
Reconstruction mode	Nat fill
Viewing preset	DynaCT Head

Clinical Images

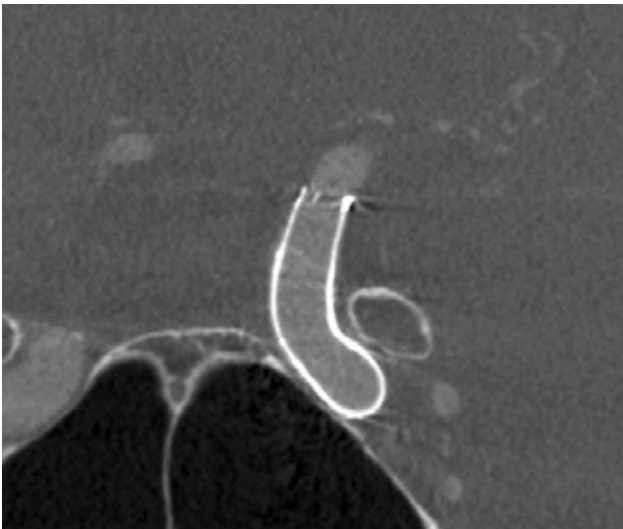


Figure 1: Flow diverter implanted in the ophthalmic segment of the left ICA lateral anterior clinoid process, medial; sphenoid sinus, no intimal hyperplasia or in-stent stenosis

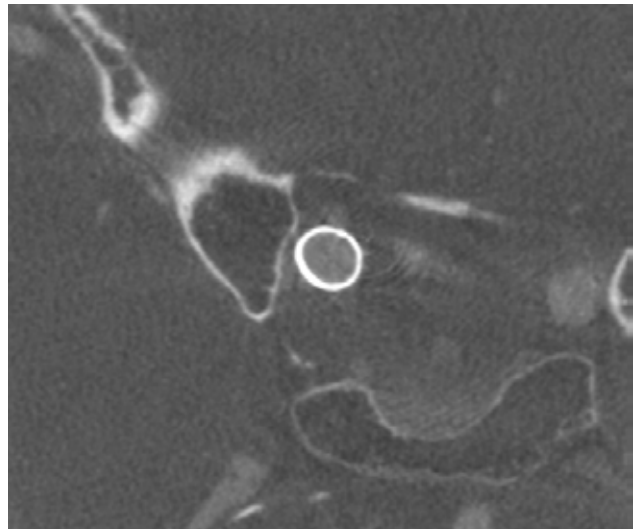


Figure 2: No intimal hyperplasia or in-stent stenosis

Siemens Healthineers Headquarters

Siemens Healthcare GmbH

Henkestr. 127

91052 Erlangen, Germany

Phone: +49 9131 84-0

[siemens-healthineers.com](https://www.siemens-healthineers.com)

The statements by Siemens' customers presented here are based on results that were achieved in the customer's unique setting. Since there is no "typical" hospital and many variables exist (e.g., hospital size, case mix, level of IT adoption), there can be no guarantee that other customers will achieve the same results.

On account of certain regional limitations of sales rights and service availability, we cannot guarantee that all products included in this case are available throughout the Siemens sales organization worldwide.

All rights reserved.