

Study Protocol

Embolization of cerebral AVM *syngo Dyna4D*

Interventional Neuroradiology

syngo Dyna4D helps us to better understand the vessel structure in AVMs and improves treatment planning.

Courtesy of

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Supported by

syngo Dyna4D

System & Software

Artis zee biplane with PURE VD11
syngo X Workplace VD10

Case Description

Patient history

47-year-old male with aphasia and motoric deficiency of right hand due to edema.

Diagnosis

Symptomatic left hemispheric precentral AVM with giant venous aneurysm and brain edema.

Treatment

Multiple endovascular treatments with embolization (Onyx and PHIL).

General comments

Normally we make a couple of DSA runs with different angulations of the C-arm to see the feeding vessels in detail and also observe the drainage of the AVM. Thanks to *syngo Dyna4D* this information was readily available after one injection, we could also see the filling and drainage of the AVM in 3D which helped our planning for treatment.

Embolization of cerebral AVM syngo Dyna4D

Acquisition protocol	6s Dyna4D
Injection protocol	
Catheter position	ICA extracranial
Contrast medium (CM)	300 mg iodine/mL
Dilution	No
Injection volume	20 mL
Injection rate	3.3 mL/s
Duration of injection	6 s
X-ray delay	0 s
Power injector used	No
Reconstructions	
Name	Dyna4D arterial Sub 4D
VOI size	Full
Slice matrix	512 × 512
Kernel type	EE
Image characteristics	Sub
Viewing preset	Dyna4D

Clinical Images

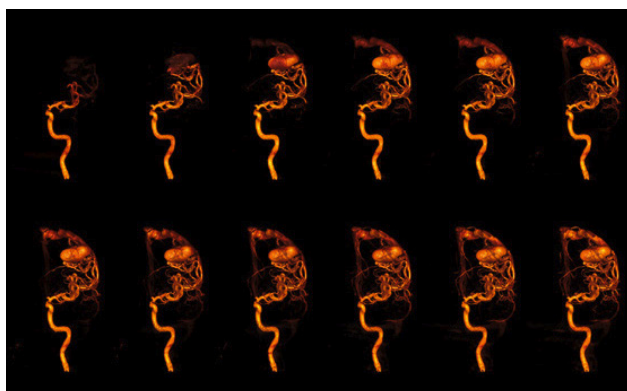


Figure 1: syngo Dyna4D shows flow patterns in 3D

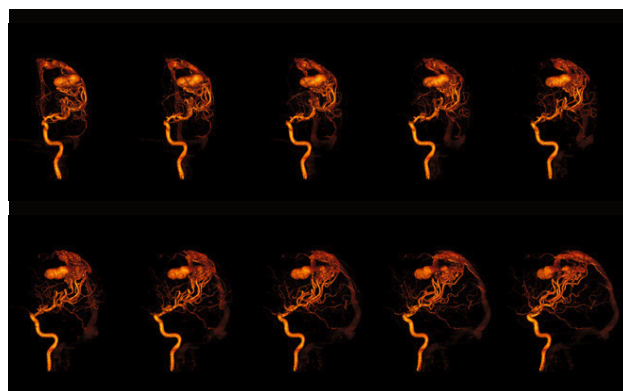


Figure 2: syngo Dyna4D shows flow patterns in any angulation

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