

# **Case Description**

## **Patient history**

67-year-old female patient.

## Diagnosis

Ophthalmic aneurysms on right and left side treated with pipeline embolization devices (PEDs)

#### Treatment

Longitudinal follow-up of implanted pipeline embolization devices (PEDs) using 3D-DSA acquisition and syngo DualVolume visualization on ARTIS icono biplane system. Diagnostic angiogram to follow up right ophthalmic aneurysm treated with three PEDs and left ophthalmic aneurysm treated on right ophthalmic aneurysm using ARTIS icono. The study shows residual contrast inflow into the right ophthalmic aneurysm and

opacification within the extruding vessel, as well as good vessel wall apposition of the three PEDs. Downstream vasculature is well-opacified and no in-stent stenosis is observed.

#### **General Comments:**

For the volumetric imaging, we used a 4 s syngo Dyna3D run in Twin Spin mode. For the first time, ARTIS icono gives us the ability to perform the 3D run without the need to park the lateral plane.

## Courtesy of

David Niemann, MD, University of Wisconsin Hospitals and Clinics, USA

#### Supported by

syngo Dyna3D syngo DualVolume

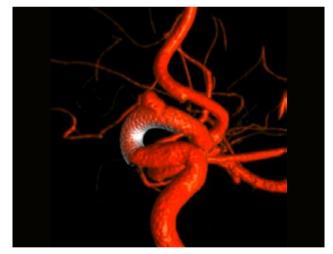
#### System & Software

ARTIS icono biplane VE2 with syngo Application Software VE2

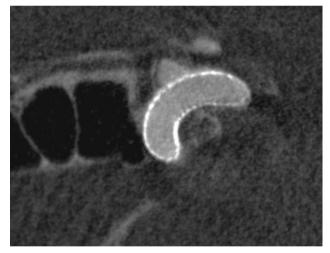


Acquisition protocol	4sDSA Head
Injection protocol	
Catheter position	Internal carotid artery
Contrast medium	300 mg/mL
Dilution	No
Injection volume	15 mL
Injection rate	3 mL/s
Duration of injection	5 s
X-ray delay	2 s
Power injector used	Yes

Reconstructions	
Name	Dyna3D DSA Dual
VOI size	Medium
Slice matrix	512 x 512
Kernel type	EE
Image characteristics	Normal
Reconstruction mode	Dual
Viewing preset	3D Dual Volume



Residual aneurysm well visible in VRT, as well as good understanding of stent wall apposition.



In-stent stenosis can be excluded by the MPR image.

## Siemens Healthineers Headquarters

Siemens Healthcare GmbH Henkestr. 127

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