

Congenital Heart Disease

Supported by

- syngo DynaCT Cardiac
- syngo iPilot
- syngo InSpace3D

Courtesy of

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System & Software

Artis zee with 20 x 20 FD syngo X Workplace

Case Description

Patient History

The patient was a 4-month-old female weighing 6 kg, with a length of 59 cm.

Diagnosis

Double outlet right ventricle (DORV), Fallot type.

Treatment

- Balloon dilation with 5 mm Osypka balloon in left pulmonary artery (LPA).
- Coiling of collaterals from the right mammary artery with three detachable Cook coils.

Tips and Tricks

syngo iPilot was used to superimpose the 3D visualization onto the live fluoroscopy images for increased confidence during the procedure.

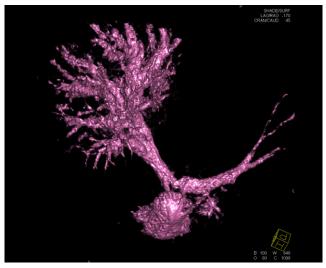
In addition, 3D imaging was helpful in positioning the X-ray tubes at the appropriate angle.

"The 3D picture extended the interventionalist's view with a better understanding of the anatomy, and expedited the intervention significantly."

Complex Pulmonary Anatomy

Acquisition Protocol	5s DR Card Care
Number of Projections:	133
System Dose:	0.10 μGy/f
Increment in Degrees:	1.5 °/f
Injection Protocol	
Catheter Position:	Central Pulmonary Artery
Contrast Medium (CM):	350 mg lodine/ml
Test Bolus:	w/o
	WIO
Dilution:	40 %
Dilution: Injection Volume:	
	40 % 24 ml (10 ml CM/
Injection Volume:	40 % 24 ml (10 ml CM/ 14 ml Saline)
Injection Volume: Injection Rate:	40 % 24 ml (10 ml CM/ 14 ml Saline) 4 ml/s

Reconstruction	
VOI Size:	Full
Slice Matrix:	512 x 512
Kernel Type:	HU
Image Characteristics:	Normal
Reconstruction Mode:	Nat Fill
Viewing Preset:	Golden
Secondary Recon	No



 $syngo \ \ In Space \ reconstruction \ after \ "interactive \ punching"$



syngo iPilot Overlay for guidance during the procedure

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.

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