

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

Congenital Heart Disease

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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 & 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.

Courtesy of

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Supported by

syngo DynaCT Cardiac syngo iPilot syngo InSpace3D

System & Software

Artis zee with $20 \times 20 \text{ FD}$ syngo X Workplace



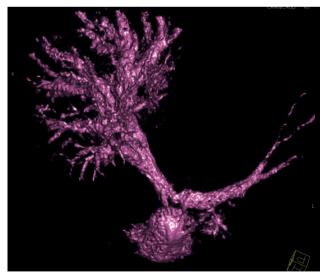
Complex pulmonary anatomy

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 iodine/mL
Test bolus	w/o
Dilution	40%
Injection volume	24 mL (10 mL CM/14 mL saline)
Injection rate	4 mL/s
Duration of injection	6 s
X-ray delay	1 (1;1.5) s
Power injector used	Yes

Reconstructions

VOI size	Full
Slice matrix	512 × 512
Kernel type	HU
Image characteristics	Normal
Reconstruction mode	Nat fill
Viewing preset	Golden

Clinical Images



syngo InSpace reconstruction after "interactive punching"



syngo iPilot Overlay for guidance during the procedure

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