Case Study

syngo DynaCT Cardiac

Hypoplastic Left Heart Syndrome

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Hypoplastic Left Heart Syndrome

Courtesy of PD Dr. P. Ewert and Prof. F. Berger, Dept. of Congenital Heart Diseases, German Heart Institute Berlin

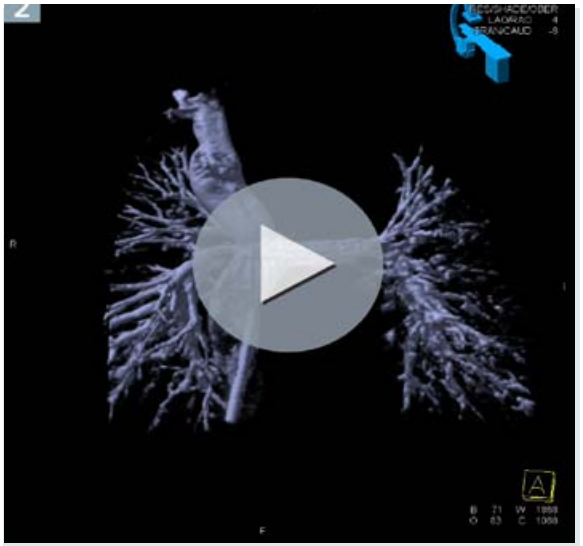
Patient History
5-year-old male (20 kg) with Hypoplastic Heart Syndrome; pre-Fontan surgery evaluation.

Diagnosis
syngo DynaCT Cardiac demonstrated visualization of the pulmonary vasculature and the cavopulmonary anastomosis. The 3D images confirmed the stent position within a patent pulmonary artery. The patient was mildly sedated and the *syngo* DynaCT images were acquired during normal respiration.

Protocol
5 sec rotational angiography,
130 projection images.
Injection: 20 cc contrast, 60 cc total volume (dilution 1:2), injection rate 10 ml/sec,
1 sec X-ray delay.

Comment
This was the first worldwide pediatric case with *syngo* DynaCT Cardiac. The excellent three-dimensional visualization of the pulmonary tree versus the whole lung vessel tree is comparable to conventional CT imaging with significantly reduced radiation exposure. *syngo* DynaCT Cardiac images provided optimal image projections to aid in the successful treatment planning and intervention.

1 **Picture:** Three-dimensional reconstruction of the superior caval vein, the bidirectional Glenn-anastomosis and the pulmonary arterial vessels. A stent is visible in the central pulmonary arteries. (Ewert, DHZB, German Heart Institute Berlin)



2 **Movie clip:** The 3D images confirmed the stent position within a patent pulmonary artery. (Ewert, DHZB, German Heart Institute Berlin)

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