



Multimedia Case Study

Pulmonary Valve Implantation

supported by *syngo* DynaCT Cardiac

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Pulmonary Valve Implantation

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Cardiology

Patient History

18-year-old male, 60 kg

Diagnosis

Stenosis of right ventricular-pulmonary artery conduit (homograft) after surgical correction of Tetralogy of Fallot.

Treatment

Patient was in general anesthesia and his arms were fixed beside the head. For the *syngo* DynaCT Cardiac run the artificial respiration was intermittently stopped to enable best imaging.

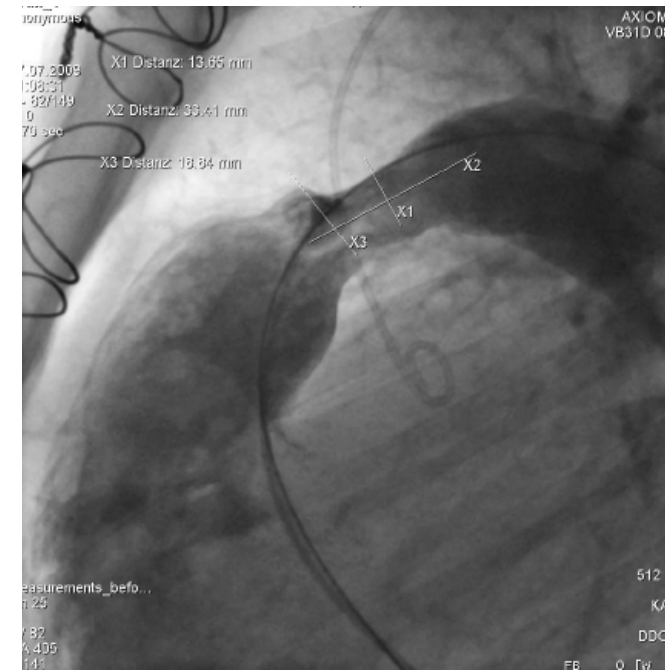
Statements

The three-dimensional imaging of the coronary arteries and the inflated balloon in the conduit helped to decide whether a transcatheter insertion of a Melody® Valve without coronary compression was possible. An injection of 25 cc contrast medium was adequate for complete imaging during the whole procedure and *syngo* DynaCT Cardiac 3D reconstruction.

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1 3D visualization of the inflated balloon in the conduit (pulmonary artery).



2 Calcified homograft (injection in lateral position).

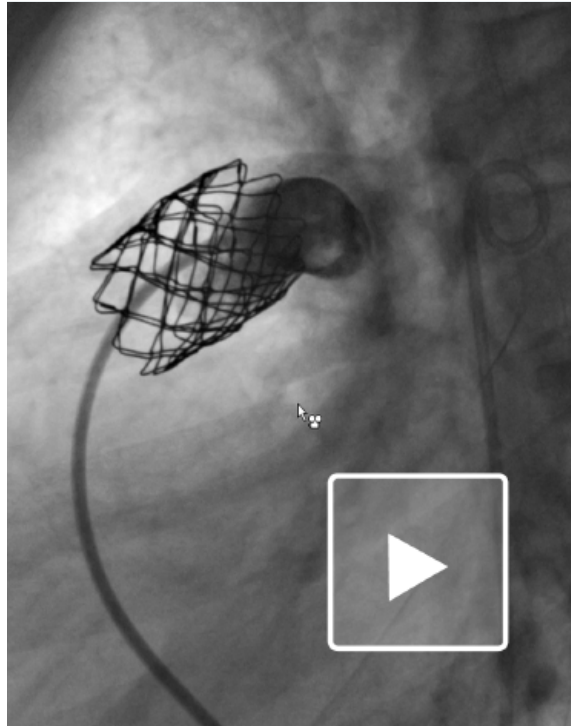
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Protocol

5s DR

Contrast medium - injection parameters

Quantity diluted	75 cc
Contrast dilution	25 cc to 75 cc (1:2)
Injection duration	5 sec during Rapid RV pacing
X-ray delay	1 sec
Rapid RV Pacing	200 bpm



3 Verification of the implantation of the stent



4 Melody® Valve in position.

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