Pulmonary Valve Implantation

supported by syngo DynaCT Cardiac

www.siemens.com/healthcare
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.

Continued on next page.
Protocol
5s DR

Contrast medium - injection parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Quantity diluted</td>
<td>75 cc</td>
</tr>
<tr>
<td>Contrast dilution</td>
<td>25 cc to 75 cc (1:2)</td>
</tr>
<tr>
<td>Injection duration</td>
<td>5 sec during Rapid RV pacing</td>
</tr>
<tr>
<td>X-ray delay</td>
<td>1 sec</td>
</tr>
<tr>
<td>Rapid RV Pacing</td>
<td>200 bpm</td>
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Verification of the implantation of the stent

Melody® Valve in position.
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