Ross procedure with a tissue-engineered heart valve in complex congenital aortic valve disease


The Ross procedure achieved an established position in the treatment of congenital aortic valve disease. However, right ventricular outflow tract (RVOT) reconstruction still limits this procedure. We describe a patient with recurrent aortic valve stenosis after repeated surgical and interventional procedures. The Ross operation was performed, and the RVOT was reconstructed using a tissue-engineered (TE) heart valve.

J Thorac Cardiovasc Surg 2007; 133:1088

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