Imaging techniques in aortic valve and root surgery

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Stellingen behorend bij het proefschrift:

Imaging techniques in aortic valve and root surgery

1. The aortic valve adapts to aortic root dilation, however when the adaptive mechanism fails, aortic regurgitation can occur *(this thesis).*

2. The aortic root dilation process is faster in bicuspid versus tricuspid aortic valves; aortic valve replacement rather than statins prevents this dilation *(this thesis).*

3. The calcification burden of the aortic valve commissures and annulus can be assessed with multidetector row computed tomography; larger calcium burden is associated with decreased success rate of aortic valve repair *(this thesis).*

4. Pre-operative echocardiography assists the surgeon in deciding on reparability and planning of the aortic valve-sparing reimplantation technique *(this thesis).*

5. Left ventricular functional recovery and reverse remodeling occurs after aortic valve repair/replacement in both acute and chronic aortic regurgitation *(this thesis).*

6. In acute type A aortic dissection, the surgical technique impacts on future left ventricular function *(this thesis).*

7. The mechanism underlying aortic regurgitation predicts aortic valve reparability and outcome *(Le Polain de Waroux JB, et al. Circulation. 2007;116:I-264–I-269).*

8. Transesophageal echocardiography may support the surgeon in decision-making whether to repair the aortic valve in patients with aortic regurgitation. *(Movsowitz HD, et al. J Am Coll Cardiol. 2000;36:884-90).*

9. The best operation is one that is customized to each individual patient *(Lai DT, et al. J Thorac Cardiovasc Surg. 2003;126:1978-86).*

10. Classification of disease mechanisms can aid in the treatment of disease. *(Boodhwani M, et al. J Thorac Cardiovasc Surg. 2009;137:286-94).*

11. When you can't change the direction of the wind — adjust your sails. *(Jackson Brown jr, H)*.

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