

Cover Page



Universiteit Leiden



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Title: Aortic valve disease : novel imaging insights from diagnosis to therapy

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Stellingen

behorend bij het proefschrift

Aortic Valve Disease

Novel Imaging Insights from Diagnosis to Therapy

1. In the assessment of patients with aortic regurgitation, 3D echocardiography provides a more reliable quantification of regurgitation volume than 2D echocardiography, especially in patients with eccentric jets. (*Ewe SH et al. Am J Cardiol. 2013;112:560–6*)
2. Early detection of left ventricular systolic impairment by 2D speckle tracking echocardiography could identify asymptomatic patients with chronic aortic regurgitation and preserved ejection fraction who progress to require aortic valve surgery. (*Ewe SH et al. Eur Heart J Cardiovasc Imaging 2015;16:992-9*)
3. Aortic valve calcification is responsible for paravalvular leak after transcatheter aortic valve implantation, but its exact location of calcification on the aortic valve complex could predict the site of leak. (*Ewe SH et al. Am J Cardiol. 2011;108:1470–7*)
4. Significant paravalvular regurgitation immediately after transcatheter aortic valve implantation appears to improve over time, particularly within the first 6 months of follow-up. (*Ewe SH et al. Am J Cardiol. 2015;115:664–9*)
5. Besides resting ventricular dysfunctions, exercise right ventricular dysfunction (by exercise tricuspid annular plane systolic excursion) could also predict the need for early aortic surgery in asymptomatic patients with chronic aortic regurgitation. (*Kusunose K. et al. Circ Cardiovasc Imaging 2014;7:352-62*)

6. Factors other than aortic valve calcification are responsible for paravalvular regurgitation after transcatheter aortic valve implantation. (*Hahn R et al. Curr Cardiol Rep 2014;16:1-7*)
7. Aortic regurgitation immediately after transcatheter aortic valve implantation is associated with poor short- and long-term outcomes. (*Genereux G. et al. J Am Coll Cardiol 2013;61:1125-36*)
8. Pre-procedural evaluation with computed tomography have improved outcomes in patients undergoing transcatheter aortic valve implantation. (*Binder R. et al. J Am Coll Cardiol 2013;62:431-8*)
9. Learn from yesterday, live for today, hope for tomorrow. The important thing is not to stop questioning. (*Albert Einstein 1879-1955*)
10. Success is not final, failure is not fatal: it is the courage to continue that counts. (*Winston Churchill 1874-1965*)