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## Three-dimensional echocardiography for left ventricular quantification in heart failure

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2012

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### **citation for published version (APA)**

van der Heide, J. A. (2012). *Three-dimensional echocardiography for left ventricular quantification in heart failure*. [PhD-Thesis - Research and graduation internal, Vrije Universiteit Amsterdam].

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VRIJE UNIVERSITEIT

**Three-dimensional echocardiography for  
left ventricular quantification  
in heart failure**

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad Doctor aan  
de Vrije Universiteit Amsterdam,  
op gezag van de rector magnificus  
prof.dr. L.M. Bouter,  
in het openbaar te verdedigen  
ten overstaan van de promotiecommissie  
van de Faculteit der Geneeskunde  
op donderdag 14 juni 2012 om 13.45 uur  
in de aula van de universiteit,  
De Boelelaan 1105

door

Johannes Auke van der Heide

geboren te Enschede

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copromotor: dr. O. Kamp