Replacing the valve, restoring the flow: Effects of transcatheter aortic valve implantation

Wiegerinck, E.M.A.

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LIST OF PUBLICATIONS
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An up-to-date overview of the most recent transcatheter implantable aortic valve prostheses.

Thromboembolic events after transcatheter aortic valve implantation.
Int J Stroke. 2016 Jan *contributed equally

Transcatheter Replacement of Stenotic Aortic Valve Normalizes Cardiac-Coronary Interaction by Restoration of Systolic Coronary Flow Dynamics as Assessed by Wave Intensity Analysis.
Rolandi MC, Wiegerinck EM, Casadonte L, Yong ZY, Koch KT, Vis M, Piek JJ, Baan J Jr, Spaan JA, Siebes M.
Circ Cardiovasc Interv. 2016 Apr;

Assessment of Cardiac Device Position on Supine Chest Radiograph in the ICU: Introduction and Applicability of the Aortic Valve Location Ratio.

Automatic aortic root landmark detection in CTA images for preprocedural planning of transcatheter aortic valve implantation.
Elattar M, Wiegerinck E, van Kesteren F, Dubois L, Planken N, Vanbavel E, Baan J, Marquering H.
Int J Cardiovasc Imaging. 2016 Mar;

Mitr al regurgitation prior to transcatheter aortic valve implantation influences survival but not symptoms.
Int J Cardiol. 2016 Feb; *contributed equally
Nineteen-Millimeter Bioprosthetic Aortic Valves Are Safe and Effective for Elderly Patients With Aortic Stenosis.
Khalpey Z, Myers PO, McGurk S, Schmitto JD, Nauta F, Borstlap W, Wiegerinck E, Wu J, Cohn LH.
Ann Thorac Surg. 2016 Feb;

Impact of Aortic Valve Stenosis on Coronary Hemodynamics and the Instantaneous Effect of Transcatheter Aortic Valve Implantation.
Circ Cardiovasc Interv. 2015 Aug;

Antiplatelet therapy following transcatheter aortic valve implantation.
Heart. 2015 Jul;

Predictors of outcome in patients undergoing Mitraclip implantation: An aid to improve patient selection
Int J Cardiol. 2015 Jan 26

Valve implantations on the move
Wiegerinck EM, Piek JJ,
Neth Heart J. 2015

Towards Minimally Invasiveness: Transcatheter Aortic Valve Implantation under local anaesthesia exclusively
Wiegerinck EM, Boerlage-van Dijk K, Koch KT, Yong ZY, Vis MM, Planken RN, Eberl S, de Mol BA, Piek JJ, Tijssen JG, Baan J.
International Journal Cardiology July 2014

Automatic segmentation of the aortic root in CT angiography of candidate patients for Transcatheter Aortic Valve Implantation
Elattar MA, Wiegerinck EM, Planken RN, Vanbavel E, van Assen HC, Baan J Jr, Marquer- ing HA.
Imaging for approach selection of TAVI: assessment of the aorto-iliac tract diameter by computed tomography-angiography versus projection angiography.  

Hybrid coronary artery bypass grafting and transaortic transcatheter aortic valve implantation.  
Wiegerinck EM, Cocchieri R, Baan J Jr, de Mol BA.  

Troubleshooting in transatrial tricuspid valve-in-valve implantation.  

Predictors and prognostic value of myocardial injury during transcatheter aortic valve implantation.  

Mitral valve anatomy predicts outcome of MitraClip implantation.  

Mitral inflow patterns after MitraClip implantation at rest and during exercise.  

Predictors and Permanency of Cardiac Conduction Disorders and Necessity of Pacing after Transcatheter Aortic Valve Implantation.  
Automatic segmentation of the aortic root in CT angiography of candidate patients for transcatheter aortic valve implantation.
Elattar MA, Wiegerinck EM, Planken RN, Vanbavel E, van Assen HC, Baan J Jr, Marquering HA.

Late outcomes comparison of nonelderly patients with stented bioprosthetic and mechanical valves in the aortic position: A propensity-matched analysis.

Kox LS, Wiegerinck EM, Maas M.

Kox LS, Wiegerinck EM, Maas M.

Late outcomes for aortic valve replacement with the Carpentier-Edwards pericardial bioprosthesis: up to 17-year follow-up in 1,000 patients.
McClure RS, Narayanasamy N, Wiegerinck E, Lipsitz S, Maloney A, Byrne JG, Aranki SF, Couper GS, Cohn LH.

Early and late outcomes in minimally invasive mitral valve repair: an eleven-year experience in 707 patients.
McClure RS, Cohn LH, Wiegerinck E, Couper GS, Aranki SF, Bolman RM 3rd, Davidson MJ, Chen FY.

Valvular Heart Disease, Book chapter for textbookofcardiology.org.
Esther Wiegerinck, cardionetworks foundation (http://www.textbookofcardiology.org)
PORTFOLIO
PORTFOLIO

PhD student : E.M.A. Wiegerinck
PhD period : October 2011-February 2015
Supervisors : Prof. dr. J.J. Piek and Prof. mr. dr. B.A.J.M. de Mol
Co-supervisor : Dr. J. Baan

PhD training

<table>
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<th>General courses</th>
<th>Year</th>
<th>ECTS</th>
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<tr>
<td>Reference Manager</td>
<td>2011</td>
<td>0.7</td>
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<tr>
<td>Good Clinical Practice</td>
<td>2011</td>
<td>1.0</td>
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<tr>
<td>Clinical Data Management</td>
<td>2011</td>
<td>0.3</td>
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<tr>
<td>Access</td>
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<td>Reference Manager</td>
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<td>Basic Course Legislation and Organization clinical researchers</td>
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<td>Practical Biostatistics</td>
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<td>Clinical Epidemiology</td>
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<td>Systematic Reviews</td>
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<td>Entrepreneurship in Health and Life Sciences</td>
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<td>Endnote</td>
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Presentations, conferences and workshops

<p>| CVOI course Acute Coronary Syndromes Masterclass                                 | 2011 | 0.4  |
| ISMICS (poster)                                                                  | 2012 | 1.8  |
| European Society of Cardiology (ESC) Congress, Munich (poster)                   | 2012 | 1.8  |
| Transcatheter Cardiovascular Therapeutics (TCT), Miami (postor)                  | 2012 | 1.8  |
| Erasmus Winter programme Biostatistics                                           | 2013 | 2.0  |
| TCT, San Francisco (3 posters, 1 oral)                                           | 2013 | 2.5  |
| European Society of Cardiology (ESC) Congress, Amsterdam                         | 2013 | 1.2  |
| ESC Congress, Barcelona (oral presentation)                                     | 2014 | 1.8  |
| ESC Congress, London (oral presentation)                                        | 2015 | 1.8  |
| NVT spring meeting                                                              | 2015 | 0.4  |</p>
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<td>Shock and hemodynamics, Advanced nursing courses</td>
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<td>General medicine for pharmaceutical representatives</td>
<td>2011-2013</td>
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<tr>
<td><strong>Mentoring/supervising</strong></td>
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<td>2 medical students for scientific internship</td>
<td>2011-2013</td>
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<td>2 medical student for bachelor thesis</td>
<td>2013-2014</td>
<td>4.0</td>
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<tr>
<td><strong>Other</strong></td>
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<tr>
<td>Author Textbook of Cardiology- chapter Valvular Heart Disease</td>
<td>2013</td>
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<tr>
<td>Clinical elective department of cardiothoracic surgery (6 weeks)</td>
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CURRICULUM VITAE
CURRICULUM VITAE

Esther Wiegerinck was born on Sunday, the 16th of March 1986, in Princeton, USA. Before preschool she returned with her brother and parents to the Netherlands, to settle in Almere. After graduating from high school at Goois Lyceum in Bussum, in 2004, she went to study Medicine at the University of Amsterdam.

During her medicine studies, she completed the faculty’s honours program and participated in several research projects in cardiology, orthopedics and anatomy and developed an interest in cardiothoracic surgery. She went abroad for a scientific research elective in cardiothoracic surgery under supervision of Dr. L.H. Cohn and worked for 6 months at Harvard Medical School at the Brigham and Women’s Hospital in Boston, with specific interest in minimally invasive valve surgery. At the end of medical school, Esther returned to the Brigham and Women’s for her final clinical internship, which further enthused her to pursue a career in cardiothoracic surgery.

After completing medical school late 2011, she entered her PhD programm at the Heart center of the University of Amsterdam, under the daily supervision of copromotor dr. J. Baan and supervision of promotores prof. dr. J.J. Piek and prof. mr. dr. B.A.J.M. de Mol. In 2015 she started working as a resident –not in training- at the department of Cardiothoracic Surgery at the Academic Medical Center, and later at the Onze Lieve Vrouwe Gasthuis, in the citycenter of Amsterdam. During her clinical residency she finalized her PhD research, which resulted in this thesis:

“Replacing the Valve, Restoring the Flow; effects of transcatheter aortic valve implantation”