Screening, complications and outcome of aortic valve implantation
van Kesteren, F.

Citation for published version (APA):

General rights
It is not permitted to download or to forward/distribute the text or part of it without the consent of the author(s) and/or copyright holder(s), other than for strictly personal, individual use, unless the work is under an open content license (like Creative Commons).

Disclaimer/Complaints regulations
If you believe that digital publication of certain material infringes any of your rights or (privacy) interests, please let the Library know, stating your reasons. In case of a legitimate complaint, the Library will make the material inaccessible and/or remove it from the website. Please Ask the Library: http://uba.uva.nl/en/contact, or a letter to: Library of the University of Amsterdam, Secretariat, Singel 425, 1012 WP Amsterdam, The Netherlands. You will be contacted as soon as possible.
SCREENING, COMPLICATIONS AND OUTCOME OF AORTIC VALVE IMPLANTATION

F. VAN KESTEREN
Screening, complications and outcome of aortic valve implantation

© Copyright Floortje van Kesteren, Amsterdam 2018
No part of this thesis may be reproduced, stored or transmitted, in any for or by any means, without prior permission of the author.

Cover design: Ray van Kesteren
Layout: Maarten van Kesteren, Olvert Berghemer & Floortje van Kesteren

This thesis was prepared at the Department of Cardiology and the Department of Radiology, Academic Medical Center, University of Amsterdam, the Netherlands.
SCREENING, COMPLICATIONS AND OUTCOME OF AORTIC VALVE IMPLANTATION

ACADEMISCH PROEFSCHRIFT

ter verkrijging van de graad van doctor
aan de Universiteit van Amsterdam
op gezag van de Rector Magnificus
prof. dr. ir. K.I.J. Maex
ten overstaan van een door het College voor Promoties ingestelde commissie,
in het openbaar te verdedigen in de Agnietenkapel
op donderdag 26 april 2018, te 14:00 uur

door
Floortje van Kesteren
geboren te Naarden
Financial support by the Dutch Heart Foundation and the SBOH, employer of GP trainees, for the publication of this thesis is gratefully acknowledged.
# Table of Contents

Chapter 1  
Introduction and outline  

Section I  
Patient screening  

Chapter 2  
Short versus conventional hydration for prevention of kidney injury for pre-TAVI CT-angiography  
Submitted  

Chapter 3  
Impact of potentially malignant incidental findings by computed tomographic angiography on long-term survival after transcatheter aortic valve implantation  
*Am J Cardiol.* 2017 Sep 15;120(6):994-1001  

Chapter 4  
Thromboembolic events after transcatheter aortic valve implantation  
Condensed form published *Int J Stroke.* 2016 Jan;11(1)  

Section II  
Periprocedural complications  

Chapter 5  
Vascular complications after transfemoral TAVI with the Sapien 3 prosthesis: incidence, predictors and impact  
Submitted  

Chapter 6  
Four-dimensional flow MRI of stented versus stentless aortic valve bioprostheses  

Section III  
Clinical outcome  

Chapter 7  
Procedural outcome and mid-term survival of lower risk transfemoral TAVI patients treated with the SAPIEN XT or SAPIEN 3 Device  
*Am J Cardiol.* Accepted for publication  

Chapter 8  
Trends in patient characteristics and clinical outcome over 8 years of transcatheter aortic valve implantation  
Submitted  

Chapter 9  
Autopsy after transcatheter aortic valve implantation  
*Virchows Arch.* 2017 Mar;470(3):331-339  

---  

**Page Numbers:**  
Chapter 1: 7  
Section I: 17  
Chapter 3: 33  
Chapter 4: 55  
Section II: 65  
Chapter 6: 85  
Section III: 101  
Chapter 7: 115  
Chapter 9: 133
<table>
<thead>
<tr>
<th>Chapter</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter 10</td>
<td>Discussion</td>
<td>151</td>
</tr>
<tr>
<td>Chapter 11</td>
<td>Summary</td>
<td>159</td>
</tr>
<tr>
<td>Chapter 12</td>
<td>Samenvatting</td>
<td>165</td>
</tr>
<tr>
<td>Appendix</td>
<td>Portfolio</td>
<td>171</td>
</tr>
<tr>
<td></td>
<td>List of Publications</td>
<td>175</td>
</tr>
<tr>
<td></td>
<td>Curriculum Vitae</td>
<td>181</td>
</tr>
<tr>
<td></td>
<td>Dankwoord</td>
<td>185</td>
</tr>
</tbody>
</table>