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## Biomechanical studies on type B aortic dissection

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## LIST OF ABBREVIATIONS

|        |                                                  |
|--------|--------------------------------------------------|
| AD     | Aortic Dissection                                |
| ABAD   | Acute type B Aortic Dissection                   |
| CBAD   | Chronic type B Aortic Dissection                 |
| CTA    | Computed Tomography Angiography                  |
| FLV    | False Lumen Volume                               |
| HR     | Heart Rate                                       |
| MRA    | Magnetic Resonance Angiography                   |
| TAAD   | Type A Aortic Dissection                         |
| TBAD   | Type B Aortic Dissection                         |
| uTBAD  | uncomplicated Type B Aortic Dissection           |
| cTBAD  | complicated Type B Aortic Dissection             |
| TEVAR  | Thoracic aortic endovascular repair              |
| TLV    | True Lumen Volume                                |
| TTE    | TransThoracic Echocardiography                   |
| WSS    | Wall Shear Stress                                |
| 4D MRI | Four-Dimensional flow Magnetic Resonance Imaging |

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## LIST OF PUBLICATIONS

### In peer-reviewed journals

#### This thesis

1. **H.T.C. Veger**, J. Hamming, M.J.T. Visser; *Understanding acute aortic type B dissection; are there new horizons in patient selection?* Reviews in Vascular Medicine 2013.
2. **H.T.C. Veger**, J.J.M. Westenberg, M.J.T. Visser; *The role of branch vessels in aortic type B dissection. An In-vitro study.* Eur J Vasc Endovasc Surg 2015.
3. **H.T.C. Veger**, E.H. Pasveer, J.J.M. Westenberg, J.J. Wever, R.G. Statius van Eps; *The influence of aortic wall compliance on false lumen expansion in aortic dissection. An in-vitro study.* Vascular and Endovascular Surgery 2020.
4. **H.T.C. Veger**, E.H. Pasveer, J.J.M. Westenberg, J.J. Wever, R.G. Statius van Eps; *Wall shear stress assessment of the false lumen in acute type B aortic dissection visualized by four-dimensional flow magnetic resonance imaging (4D flow MRI). An ex-vivo study.* Vascular and Endovascular Surgery 2021.
5. **H.T.C. Veger**, E.H. Pasveer, M.J.T. Visser; *Where to fenestrate in type B aortic dissection? An ex-vivo study.* Ann Vasc Surg 2017.

#### Others

1. M.A. van Dam, M. Strietman, R.G.S. van Eps, J.J. Wever, **H.T.C. Veger**; *Clinical relevance of Closed-Incision Negative Pressure Therapy (ciNPT) for groin incisions in vascular surgery. A prospective study with retrospective comparison of a standard-care group.* Ann Vasc Surg 2022.
2. W. Stomp W, J.E. Dierikx, J.J. Wever, L.C. van Dijk, R.G.S. van Eps, **H.T.C. Veger**, H. van Overhagen; *Percutaneous EVAR for ruptured abdominal aortic aneurysms using the Cordis INCRAFT endograft.* Ann Vasc Surg 2021.
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5. S.I. Willemsen, M.G. ten Berge, R.G.S. van Eps, **H.T.C. Veger**, H. van Overhagen, L.C. van Dijk, H. Putter, J.J. Wever; *Nationwide study to predict colonic ischemia after abdominal aortic aneurysm repair in The Netherlands.* Ann Vasc Surg 2020.
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9. T. Wakkie, L. Konijn, N.P.C. van Herpen, M.F.H. Maessen, M.I. Spreen, J.J. Wever, R.G. Statius van Eps, **H.T.C. Veger**, L.C. van Dijk, W.P. Mali, H. van Overhagen; *Cost-effectiveness of drug-eluting stents for infrapopliteal lesions in patients with critical limb ischemia: the PADI Trial*. Cardiovasc Intervent Radiol. 2020.
10. Q. Dang, R.G. Statius van Eps, J.J. Wever, **H.T.C. Veger**; *Nationwide study of the treatment of mycotic abdominal aortic aneurysms comparing open and endovascular repair in The Netherlands*. J Vasc Surg. 2020.
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13. R.G. Statius van Eps, B. Nemeth, R. Mairuhu, J.J. Wever, **H.T.C. Veger**, H. van Overhagen, L. van Dijk, B. Knippenberg; *Determinants of acute kidney injury and renal function decline after endovascular abdominal aortic aneurysm repair*. Eur J Vasc Endovasc Surg. 2017.
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15. J. Brouwers, **H.T.C. Veger**, R. van Wissen, J. Rothmans, M.J.T. Visser; *Predictive value of intrarenal echo-Doppler by renal artery stenosis*. Vascular 2017
16. **H.T.C. Veger**, B. Borger van de Burg, M.J.T. Visser, P. Ph. Hedeman Joosten; *Popliteal artery injury after low-energy knee dislocation in the obese*. J Vasc Med Surg. 2015.
17. **H.T.C. Veger**, P. Ph. Hedeman Joosten, S.R. Thoma, M.J.T. Visser. *Infection of endovascular abdominal aortic aneurysm stent graft after urosepsis: case report and review of the literature*. Vascular 2013.

## CURRICULUM VITAE



Hugo Thomas Christian Veger was born on the 19th of August, 1982, in Dronten, The Netherlands. He attended high school Rembrandt College (atheneum), from which he graduated in 2000. Subsequently he started medical school at the University of Leiden and passed his Medical Degree (MD) in 2006. During his study and internships, he gained interest in surgery. He started as surgical resident (ANIOS) at the Department of Surgery in the Haga Hospital in The Hague. In 2008 he started his surgical residency in training at the Rijnland Hospital Leiderdorp under supervision of dr. S.A. da Costa and dr. A.M. Zeillemaker. In the beginning of his residency vascular surgery piqued his interest. The academical surgical residency in training (2010 – 2012) was done at the Leiden University Medical Center (LUMC) under supervision of prof. dr. J.F. Hamming. In 2013 he performed an endovasculair fellowship at the Ghent University Hospital (Belgium) under supervision of prof. dr. F. Vermassen. In 2014 he started a 2-year fellowship Vascular and Endovascular Surgery at the Zuyderland Medical Center in Heerlen. In 2015 he passed the Fellow of the European Board of Vascular Surgery (FEBVS) examination with honours. Since 2016 he is working as a consultant vascular surgeon in the Haga Hospital in The Hague. Hugo is married with Melissa, together they have two children; Ophélie (2014) and Taeke (2015).