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Leiden

The Netherlands

## **Advanced MRI in aortic pathology and systemic interactions**

Hout, M.J.P. van

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# Stellingen

Behorende bij het proefschrift getiteld

## Advanced MRI in aortic pathology and systemic interactions

1. Accurate population reference values for MRI pulse wave velocity are an essential step towards the clinical implementation. This thesis; chapter 3.
2. Estimated pulse wave velocity (ePWV) as a gatekeeper for MRI-PWV will aid in a more targeted use of MRI in assessing cardiovascular risk and more tailored cardiovascular treatment in the population that benefits the most. This thesis; chapter 4.
3. Visceral obesity is more harmful to cardiovascular function when compared to general obesity. This thesis; chapter 7.
4. Ascending aorta curvature radius and flow displacement are novel markers that may aid in risk stratification of aortic growth and associated risk of dissection. This thesis; chapter 5.
5. Pulse wave velocity (PWV)-driven treatment for hypertension is a more effective strategy to slow vascular aging compared to current therapeutic guidelines. – Laurent S, et al. Hypertension. 2021 Sep;78(4):983-995.
6. To prevent aortic dissection and its often catastrophic outcome, we need better risk predictors to identify patients at risk. - Pape LA, et al. Circulation. 2007 Sep 4;116(10):1120-7
7. The augmentation index is not a suitable marker of arterial stiffness (e.g. vascular aging) in the middle aged population. - Vyas M, et al. Am J Hypertens. 2007 Jun;20(6):642-7.
8. Until recent, aortic elongation has been largely neglected as an important morphologic parameter in risk of aortic dissection. - Krüger T, et al. Eur J Cardiothorac Surg. 2016 Aug;50(2):241-7.
9. To achieve (great) things you have to start small. Based on “Kleine dingen goed doen is een stap om grote dingen beter te doen.” Van Gogh (1853 – 1890).
10. Research, test, check, because “assumption is the mother of all mistakes”. Eugene Lewis Fordsworthe (1940).