



Universiteit
Leiden

The Netherlands

Advanced MRI in aortic pathology and systemic interactions

Hout, M.J.P. van

Citation

Hout, M. J. P. van. (2023, March 16). *Advanced MRI in aortic pathology and systemic interactions*. Retrieved from <https://hdl.handle.net/1887/3571838>

Version: Publisher's Version

License: [Leiden University Non-exclusive license](#)

Downloaded from: <https://hdl.handle.net/1887/3571838>

Note: To cite this publication please use the final published version (if applicable).

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).