

# Advanced imaging of the aortic valve and thoracic aorta

Citation for published version (APA):

Adriaans, B. P. (2021). *Advanced imaging of the aortic valve and thoracic aorta: Moving beyond diameters*. [Doctoral Thesis, Maastricht University]. Maastricht University. <https://doi.org/10.26481/dis.20210702ba>

## Document status and date:

Published: 01/01/2021

## DOI:

[10.26481/dis.20210702ba](https://doi.org/10.26481/dis.20210702ba)

## Document Version:

Publisher's PDF, also known as Version of record

## Please check the document version of this publication:

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## Moving beyond diameters

**Bouke P. Adriaans**

2 juli 2021

1. De lengte van de aorta ascendens is de meest accurate anatomische voorspeller voor type A dissectie. *(dit proefschrift)*
2. Met de huidige afkapwaarde voor preventieve chirurgische aorta-interventie (diameter  $\geq 55$  mm) wordt slechts 4% van alle type A dissecties voorkomen. *(dit proefschrift)*
3. Aneurysmavorming zorgt voor verstoring van intra-aortale hemodynamiek, hetgeen leidt tot regionaal verhoogde stress op de vaatwand. *(dit proefschrift)*
4. In vergelijking met echocardiografie verbetert 4D flow MRI de concordantie van de parameters die gebruikt worden om de ernst van aortaklepstenose te kwantificeren. *(dit proefschrift)*
5. Jaarlijkse herhaling van beeldvormend onderzoek is niet bijdragend aan het klinisch beleid van patiënten met een beperkte dilatatie van de aorta ascendens en dus niet kosteneffectief. *(scientific and societal impact)*
6. Any aneurysm of the aorta is a hopeless condition. *(Sir William Osler)*
7. Kunstmatige intelligentie kan artsen ondersteunen, maar niet vervangen.
8. Exercise training is an agent with lipid-lowering, antihypertensive, positive inotropic, negative chronotropic, vasodilating, diuretic, anorexigenic, weight-reducing, cathartic, hypoglycemic, tranquilizing, hypnotic and antidepressive qualities. *(William C. Roberts)*
9. One thing that cycling has taught me is that if you can achieve something without a struggle it's not going to be satisfying. *(Greg LeMond)*