



Universiteit
Leiden
The Netherlands

Multi-modality diagnostic assessment in interventional cardiology

Pyxaras, S.

Citation

Pyxaras, S. (2018, May 8). *Multi-modality diagnostic assessment in interventional cardiology*. Retrieved from <https://hdl.handle.net/1887/62029>

Version: Not Applicable (or Unknown)

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/62029>

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

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/62029> holds various files of this Leiden University dissertation.

Author: Pyxaras, S.

Title: Multi-modality diagnostic assessment in interventional cardiology

Issue Date: 2018-05-08

Stellingen

behorend bij het proefschrift

Multi-modality diagnostic assessment in interventional cardiology

1. Fractional flow reserve measurements can be routinely performed during a heart catheterization procedure to guide clinical decision making on-site. (*this thesis*)
2. The index of microvascular resistance is a readily available tool of microvascular resistance measurements in the cathlab and implies the possibility of simultaneous FFR assessment. (*this thesis*)
3. Optical coherence tomography accurately visualizes coronary tissue composition, enabling qualitative and quantitative assessment of calcifications, lipid pools, intracoronary white and red thrombus, thin- and thick-cap fibro-atheroma. (*this thesis*)
4. Chronic total occlusion recanalization procedures may benefit from intravascular ultrasound guidance to facilitate reverse controlled antegrade and retrograde tracking techniques with ultrasound-guided relative wire-lumen-dissection spaces detection. (*this thesis*)
5. An integrated anatomic-physiologic approach seems to be the best option for the individual patient in order to maximize procedural and clinical outcome. (*this thesis*)
6. Treatment decisions being made in the catheterization laboratory must be robust and essential measurements readily available online, with minimal operator interference. (*Wijns et al. Circulation 2016;134:918-22*).
7. Mechanical treatment by percutaneous coronary intervention or coronary artery bypass grafting becomes increasingly likely to augment maximal flow when applied to stenoses with more severely reduced FFR. (*Wijns et al. JACC Cardiovasc Intv 2013;6:226-7*).
8. There is a growing awareness of the poor accuracy of coronary angiography for identifying lesions responsible for myocardial ischemia and the inaccuracy of noninvasive stress testing in patients with multivessel coronary artery disease. (*De Bruyne et al. N Engl J Med 2014; 371:1208-17*)
9. The functional significance of coronary stenosis can be evaluated in patients at rest by quantitative analysis of coronary dimensions and transstenotic pressure gradient measurements. (*Wijns et al. Circulation 1985;71:273-9*)
10. Advanced imaging modalities provide unique and complementary information on pathophysiology and anatomy. Optimal use will require consideration of this complementary nature, facilitated by fusion or hybrid techniques. (*Bax et al. Heart 2007;93:16-22*)
11. We are what we repeatedly do. Excellence, then, is not an act, but a habit. Aristotle, 384-322 BC. (*Quantitative assessment guarantees precision and – as such – excellence in patient care as repeatable measure*).
12. The only good is knowledge and the only evil is ignorance. Socrates, 470-399 BC. (*Knowledge derived by the integrated assessment of the epicardial vessel anatomy and physiology outranks mere diagnostic coronary angiography in terms of procedural and patient outcome*).