

Propositions

Accompanying the thesis: 'Carotid hemodynamics and atherosclerotic plaque composition'

1. The spatial heterogeneity in carotid plaque composition calls for accurate co-localization of WSS and plaque compositional measures in order to assess the relation of these factors. *This thesis*
2. WSS strongly depends on subject-specific geometry and flow conditions. *This thesis*
3. Time averaged wall shear stress (TAWSS) and oscillatory shear index (OSI) are independent metrics in relation to plaque vulnerability. *This thesis*
4. Plaque vulnerability can be derived from the spatial lipid profile. *This thesis*
5. Molecular imaging techniques combined with data mining will complement and eventually replace histology-based tissue assessment. *This thesis*
6. There is a widespread quest for measures that somehow quantify registration accuracy. Such a task is believed to be paradoxical, because of the simple fact that if such measures existed, they would be used for registration paradigms. *Maintz and Viergever, Medical Imaging Analysis, 1998*
7. In the era of personalized medicine, focus should be on performing basic research for understanding inter-individual differences in disease etiology. The design of targeted diagnostics and personalized treatments will then come as a natural second step.
8. With increasing multidisciplinary in medical research, cross-field awareness is crucial. Only when both parties understand limitations *and* recognize potential, modern techniques will fast-forward medicine.
9. When pursuing technological solutions for societal problems, the question 'what do we want to do?' is much more challenging than the question 'what can we do?'.
10. A goal without a plan is just a wish. *Antoine de Saint-Exupéry*
11. Good planning is child's play / Goede planning is kinderspel.