

The tissue factor pathway of blood coagulation in health and disease

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Propositions

of the thesis

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by Robert Ariëns

- 1 There is no risk for TFPI depletion during normal heparin therapy (this thesis, CH 3 & 9).
- 2 Hereditary deficiency of vessel-wall bound TFPI may be a cause of thrombophilia (this thesis, CH 4).
- 3 The tissue factor content of atherosclerotic plaques determines acute coronary thrombosis, the major cause of death in modern society (this thesis, CH 7).
- 4 Plasma tissue factor levels reflect tissue factor expression within the vasculature and the atherosclerotic plaque, and may therefore be an indicator of the risk for acute coronary thrombosis (this thesis, CH 8).
- 5 Due to an inappropriate extraction method for tissue factor, Marmur *et al* underestimated the tissue factor present in their atherosclerotic plaque specimens.
Marmur JD, Thiruvikraman SV, Fyfe BS, Arabinda G, Sharma SK, Ambrose JA, Fallon JT, Nemerson Y, Taubman MB. Circulation 1996; 94: 1226-32
- 6 The concept that antithrombin and heparin cofactor II are cofactors of heparin is obsolete and misleading. Since antithrombin and heparin cofactor II are the active inhibitors, the cofactor of this reaction is heparin.
- 7 If one extrapolates the striking resemblance between the solar system and an atom, the cosmos might be a little cell of an enormous organism, and each cell in our body might contain a universe. It may also be that science, out of lack of creative power, uses similar models for completely dissimilar phenomena.

- 8 Niet de laatste loodjes wegen het zwaarst bij het afronden van een promotie, integendeel, naarmate het proefschrift vordert wegen ze steeds minder, maar ze lijken zich wel exponentieel te vermenvuldigen.
- 9 Italian and German are sophisticated languages, that developed in the study-room; the complicated grammar rules the language. English and Dutch instead developed on the farmland; the grammar is simple, and their richness expresses as exceptions to the rule.
- 10 The prolongation of the life-span of humans entails a retardation of the process of maturation.
- 11 Cars are nothing more than stoves on four wheels. More than 90% of the energy is transformed into heat.