1. If humans would react like ground squirrels, thrombosis would be non-existing (Chapter 2).

2. Postoperative patients are under-treated because of fear and lack of quantification (Chapter 5).

3. Medical research urgently needs more formalization of domain knowledge through medical ontologies (Chapter 5,6).

4. The quality of peri-operative care would increase dramatically by continuous body weight measurements peri-operative and bed side hemostatic analysis tools. (Chapter 6)

5. Platelet function could ultimately become an essential part of the quantification of the inflammatory state of a patient. (Chapter 6)

6. We do not necessarily need to retire the ‘old’ systems and praise digital technologies. They both can be equally important. (This thesis)

7. Not everything that can be counted counts, and not everything that counts can be counted. Albert Einstein, Physicist (General Discussion).

8. Statistics are like bikinis. What they reveal is suggestive, but what they conceal is vital. Aaron Levenstein, Business Professor at Baruch College (General Discussion).

9. Without data, you’re just another person with an opinion. W. Edwards Deming (General Discussion)

10. If you tip over... you don’t just let go. You get back on and keep going! (Lance Mackey, Fox, Alaska) (This thesis)