1) Motion compensation is crucial for accurate quantification of intraplaque neovascularization (IPN). (this thesis)

2) Quantitative CEUS imaging parameters can replace qualitative visual scoring to measure the degree of IPN in an objective and reproducible manner. (this thesis)

3) Currently available commercial contrast quantification tools are not suitable for analysis of carotid IPN due to artifacts and intermittent perfusion of plaques. (this thesis)

4) Systematic comparison of different IPN analyses over patient datasets requires the use of identical patient-specific regions of interest for all analyses. (this thesis).

5) Simultaneous acquisition of BMUS and CEUS allows an accurate carotid plaque segmentation and IPN quantification in CEUS. (this thesis)

6) Even though it has been shown and published that IPN assessment in the far wall of the carotid artery using CEUS is unreliable due to the pseudo-enhancement artifact, this artifact is still neglected in many CEUS studies. (ref.: Atherosclerosis, 229:451-52)

7) It is better to have a simple method that doesn't work than a complex method that doesn't work. (S. Klein)

8) Confidence and hard-work is the best medicine to kill the disease called failure. (Abdul Kalaam)

9) If you judge a fish on its ability to climb a tree, it will live its whole life believing that it is stupid. (A. Einstein)

10) Wisdom begins in wonder. (Sokrates)

11) Do not be satisfied with the stories that come before you. Unfold your own myth. (Mevlana Rumi)