A Closer Look at Fracture Healing
Fracture healing at the distal radius assessed using high-resolution peripheral quantitative computed tomography

1. It is feasible to monitor bone modeling and remodeling in the trabecular and cortical compartments in vivo during the healing process of distal radius fractures with HRpQCT. (dit proefschrift)

2. In post-menopausal women with a stable distal radius fracture, early bone changes at the fracture site are related to the short-term clinical outcome in terms of pain and disability. (dit proefschrift)

3. The strength of a fractured bone can recover beyond the strength of the contra-lateral unfractured bone. (dit proefschrift)

4. Reproducibility of HRpQCT scanning is better with the forearm in a fiberglass cast than without a cast. (dit proefschrift)

5. Validation is a crucial step in medical image processing in order to obtain meaningful results.

6. “All models are wrong, but some are useful.” (George E.P. Box)

7. With the state-of-the-art technologies that are being used in hospitals and medical research nowadays, engineers are essential to further improve the quality of patient care and medical research.

8. HRpQCT is a valuable tool that can provide more insight into the effect of drugs on fracture healing.

9. “We shall see what we shall see. We have the start now; the developments will follow in time.” (Wilhelm C. Röntgen)

10. “Iets kan zijn verzonnen en daardoor juist bestaan.” (Herman Finkers)

Joost de Jong, 13 januari 2017