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Universiteit Leiden



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Title: CAOS & TKA. A critical appraisal on computer navigation in total knee arthroplasty

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Curriculum Vitae

Henrica Maria Jannetta (Enrike) van der Linden - van der Zwaag was born on the 17th of May, 1972 in Haarlem, The Netherlands. In 1990, she graduated from the VWO-B programme at the "Eerste Christelijk Lyceum" in Haarlem. In that same year she started the study of Biomedical Sciences at the Leiden University. In 1991 she switched to the study of Medicine at the Leiden University. She graduated in 1997 and before starting the Orthopaedic speciality training she worked from July 1997 till February 1998 at the Ministry of Immigration and Naturalisation as medical examiner.

In 1998 she commenced her speciality training program at the Department of Surgery, Leiden University Medical Center (Head: Prof.Dr. O.T. Terpstra). Her orthopaedic training started in the year 2000 at the Department of Orthopaedic Surgery at the Leiden University Medical Center (Head: Prof. Dr. P.M. Rozing). The peripheral training was conducted in the Rode Kruis Ziekenhuis, The Hague (Head: Dr. C.F.A. Bos) and in 2004 she graduated.

Since 2004 she is one of the staff members of the Orthopaedic Department at the Leiden University Medical Center (Head: Prof.Dr. R.G.H.H. Nelissen). It was here where she was inspired to embark on this thesis.

List of Publications

1. HMJ van der Linden - van der Zwaag, T Siebelt, PW de Bruin, BL Kaptein, RGHH Nelissen. Accuracy of Computer Navigated Patellar Tracking in Total Knee Arthroplasty. The influence of velocity of movement and marker occlusion on validity. Submitted.
2. HMJ van der Linden – van der Zwaag, L Konijn, T van der Steenhoven, HJ van der Heide, M de Ruiter, RGHH Nelissen. The inter- and intraindividual anatomical relationship of the femoral anteversion and distal femoral rotation. A cadaveric study on the femoral anteversion angle, posterior and inferior condylar angle using Computed Tomography. Submitted.
3. LJ van Baardewijk, JB Ponten, IB Schipper, HMJ van der Linden, R Haas, P Krijnen, E Krug. Indicatiestelling voor intensieve revalidatie na een heupfractuur. Conditionally accepted Injury May 2012.
4. N Wolterbeek, EH Garling, HMJ van der Linden, RGHH Nelissen, ER Valstar. Integrated assessment techniques for linking kinematics, kinetics and muscle activation to early migration: a pilot study. Gait posture may 2012, Epub ahead of print.
5. K Beenakker, B Duijnsveld, H van der Linden, C Visser, R Westendorp, G Butler-Browne, R Nelissen, A Maier. Muscle characteristics in patients with chronic systemic inflammation. Accepted Muscle and Nerve, Epub ahead of print april 2012.
6. B Pijls, HMJ van der Linden, RGHH Nelissen. Poly-Ethylene thickness is a risk factor for wear necessitating insert exchange. International Orthopaedics (2012) 36:1175–1180.
7. BG Pijls, OM Dekkers, S Middeldorp, ER Valstar, HJ van der Heide, HM van der Linden - van der Zwaag, RGHH Nelissen . AQUILA: Assessment of QUALity In Lower limb Arthroplasty: An expert Delphi consensus for total knee and total hip arthroplasty. BMC Musculoskelet Disord 2011; 12(1):173.
8. T van Strien, J Dankelman, J Bruijn, Q Feilzer, V Rudolph, H van der Linden - van der Zwaag, HJ van der Heide, E Valstar, R Nelissen. Efficiency and safety during Knee Arthroplasty Surgery. Journal of Bone and Joint Surgery - British Volume, 2011 Vol 93-B, Issue SUPP_II, 115.
9. SM Pasha, HMJ van der Linden. Nieuwe anticoagulantia ter preventie van veneuze trombo-embolie in de orthopedische chirurgie. Hart Bulletin, jaargang 42, nr. 2, april 2011.
10. HMJ van der Linden - van der Zwaag, J Bos, HJ van der Heide, RG Nelissen. A computed tomography based study on rotational alignment accuracy of the femoral component in total knee arthroplasty using computer-assisted orthopaedic surgery. International Orthopaedics 2010.
11. HMJ van der Linden - van der Zwaag. Conservatieve behandelmogelijkheden bij artrose. Modern Medicine nr. 9, (september)2010; 34:303-305.
12. E Krug, HMJ van der Linden, R Haas, K de Vos. Sneller uit het verkeerde bed. Medisch Contact. 5 ed. 2010. 225-227.
13. T van Strien, HMJ van der Linden-van der Zwaag, B Kaptein, A van Erkel, ER Valstar, RGHH Nelissen. Computer assisted versus conventional cemented total knee prostheses alignment accuracy and micromotion of the tibial component. International Orthopaedics (SICOT) (2009) 33:1255–1261.

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14. HMJ van der Linden – van der Zwaag. Behandeling van heup en knie artrose. Reuma en huisartsenvademecum april 2008.
 15. HMJ van der Linden-van der Zwaag, R Wolterbeek, RGHH Nelissen. Computer assisted orthopedic surgery; its influence on prosthesis size in total knee replacement. *The Knee*. 2008 Aug;15(4):281-5.
 16. HMJ van der Linden – van der Zwaag. Welke knieprothesen zijn er en wat is hun gemiddelde levensduur? *Huisartsen Vademecum* nummer 21 F-19 mei 2009.
 17. HMJ van der Linden - van der Zwaag, ER Valstar, AJ van der Molen, RGHH Nelissen. Transepicondylar axis accuracy in computer assisted knee surgery: a comparison of the CT-based measured axis versus the CAS-determined axis. *Comput Aided Surg*. 2008 Jul;13(4):200-6.
 18. HMJ van der Linden - van der Zwaag, GJ Onvlee. Massive osteolysis (Gorham's disease) affecting the femur. *Acta Orthop Belg*, 2006, 72, 261-268.
 19. HMJ van der Linden - van der Zwaag, RGHH Nelissen, JB Sintenie. Results of surgical versus non-surgical treatment of achilles tendon rupture. *International Orthopaedics*, 2004, 28(6), 370-373.
 20. PDS Dijkstra, HMJ van der Linden. Comparison of torsional strength reduction of cortical defects in femora estimated by surgeons using radiographs and CT and measured by in vitro experiments. *Westeinde Ziekenhuis Den Haag*, Thesis 1999.
 21. HMJ van der Zwaag, R Brand, WR Obermann, PM Rozing. Glenohumeral osteoarthritis after Putti Platt repair. *J Shoulder Elbow Surg*, Volume 8, Issue 3, 252-258 (May 1999).

Search strategy on CAOS and TKA

PubMed

<http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?otool=leiden>

("Arthroplasty, Replacement, Knee"[Majr] OR "total knee"[ti] OR "knee arthroplasty"[ti] OR "knee arthroplasties"[ti] OR "Knee Prosthesis"[Majr] OR "knee prosthesis"[ti] OR "knee prostheses"[ti] OR tka[ti]) AND ("Surgery, Computer-Assisted"[Majr] OR Caos[ti] OR "computer assisted"[ti] OR "computer-assisted"[ti] OR navigation[ti] OR "computer-navigated"[ti] OR "computer navigated"[ti]) AND (randomized controlled trial OR controlled clinical trial OR randomized controlled trials OR random allocation OR double-blind method OR single-blind method OR "latin square" OR placebo OR placebo* OR random* OR "Research Design"[MeSH:noexp] OR comparative study OR evaluation studies OR follow-up studies OR prospective studies OR cross-over studies OR prospective* OR volunteer* OR randomised controlled trial OR randomised controlled trials OR randomized active control trials OR randomized active control trial OR randomised active control trials OR randomised active control trial OR RaCT OR RaCTs OR RCT OR RCTs OR "Evaluation Studies "[Publication Type] OR "Evaluation Studies as Topic"[Mesh] OR metaanalysis OR metaanalyses OR meta-analysis OR meta-analyses OR systematic[*sb*])

EMBASE

<http://ovidsp.ovid.com/ovidweb.cgi?T=JS&PAGE=main&MODE=ovid&D=omezd>

(exp *knee prosthesis/ OR exp *total knee replacement/ OR exp *knee arthroplasty/ OR ("total knee" OR "knee arthroplasty" OR "knee arthroplasties" OR "Knee prosthesis" OR "knee prostheses" OR tka).ti) AND (exp *computer assisted surgery/ OR (Caos OR "computer assisted" OR "computer-assisted" OR navigation OR "computer-navigated" OR "computer navigated").ti) AND (exp randomized controlled trial/ OR exp meta analysis/ OR exp evidence based medicine/ OR (controlled clinical trial* OR randomized controlled trial* OR random allocation OR double-blind method OR single-blind method OR "latin square" OR placebos OR placebo* OR random* OR

comparative stud* OR evaluation stud* OR follow-up stud* OR prospective stud* OR cross-over stud* OR prospective* OR volunteer* OR randomised controlled trial* OR randomised controlled trial* OR randomized active control trial* OR randomized active control trial* OR randomised active control trial* OR randomised active control trial* OR RaCT OR RaCTs OR RCT OR RCTs OR metaanalysis OR metaanalyses OR meta-analysis OR meta-analyses OR systematic review*).af)

Cochrane

<http://www.thecochranelibrary.com/view/o/index.html>

Cochrane Reviews [1]

Other Reviews [6]

Trials [82]

Technology Assessments [5]

Economic Evaluations [3]

("knee replacement" OR "total knee" OR "knee arthroplasty" OR "knee arthroplasties" OR "Knee prosthesis" OR "knee prostheses" OR tka) AND (computer assisted surgery OR Caos OR "computer assisted" OR "computer-assisted" OR navigation OR "computer-navigated" OR "computer navigated")

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