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**Author:** Pijls, Bart Godefridus Catharina Wilhelmus

**Title:** Evidence based introduction of orthopaedic implants : RSA, implant quality and patient safety

**Issue Date:** 2014-01-16

## **List of publications related to this thesis**



Nelissen RG, **Pijls BG**, Kärrholm J, Malchau H, Nieuwenhuijse MJ, Valstar ER.  
RSA and registries: the quest for phased introduction of new implants.  
*J Bone Joint Surg Am* 2011;93 Suppl 3:62-5.

**Pijls BG**, Nieuwenhuijse MJ, Schoones JW, Middeldorp S, Valstar ER, Nelissen RG.  
RSA prediction of high failure rate for the uncoated Interax TKA confirmed by meta-analysis.  
*Acta Orthop* 2012;83-2:142-7.

**Pijls BG**, Valstar ER, Kaptein BL, Fiocco M, Nelissen RG.  
The beneficial effect of hydroxyapatite lasts: a randomized radiostereometric trial comparing hydroxyapatite-coated, uncoated, and cemented tibial components for up to 16 years.  
*Acta Orthop* 2012;83-2:135-41.

**Pijls BG**, Valstar ER, Kaptein BL, Nelissen RG.  
Differences in long-term fixation between mobile-bearing and fixed-bearing knee prostheses at ten to 12 years' follow-up: a single-blinded randomised controlled radiostereometric trial.  
*J Bone Joint Surg Br* 2012;94-10:1366-71.

**Pijls BG**, Dekkers OM, Middeldorp S, Valstar ER, van der Heide HJ, Van der Linden-Van der Zwaag HM, Nelissen RG.  
AQUILA: assessment of quality in lower limb arthroplasty. An expert Delphi consensus for total knee and total hip arthroplasty.  
*BMC Musculoskelet Disord* 2011;12:173.

**Pijls BG**, Valstar ER, Nouta KA, Plevier JW, Fiocco M, Middeldorp S, Nelissen RG.  
Early migration of tibial components is associated with late revision: a systematic review and meta-analysis of 21,000 knee arthroplasties.  
*Acta Orthop* 2012;83-6:614-24.

**Pijls BG**, Nieuwenhuijse MJ, Fiocco M, Plevier JW, Middeldorp S, Nelissen RG, Valstar ER.  
Early proximal migration of cups is associated with late revision in THA: a systematic review and meta-analysis of 26 RSA studies and 49 survival studies.  
*Acta Orthop* 2012;83-6:583-91.

## Other publications

**Pijls BG**, Kok FP, Penning LI, Guldmond NA, Arens HJ.

Reliability study of the sonographic measurement of the acromiohumeral distance in symptomatic patients.

*J Clin Ultrasound* 2010;38-3:128-34.

**Pijls BG**, Werner PH, Eggen PJ.

Alternative humeral tubercle fixation in shoulder hemiarthroplasty for fractures of the proximal humerus.

*J Shoulder Elbow Surg* 2010;19-2:282-9.

**Pijls BG**, Werner PH, Eggen PJ.

Primary uncemented hemiarthroplasty for severe fractures of the proximal humerus.

*J Orthop Trauma* 2011;25-5:279-85.

**Pijls BG**, Van der Linden-Van der Zwaag HM, Nelissen RG.

Polyethylene thickness is a risk factor for wear necessitating insert exchange.

*Int Orthop* 2012;36-6:1175-80.

Nouta KA, **Pijls BG**, Nelissen RG.

All-polyethylene tibial components in TKA in rheumatoid arthritis: a 25-year follow-up study.

*Int Orthop* 2012;36-3:565-70.

Van der Voort P, **Pijls BG**, Nouta KA, Valstar ER, Jacobs WC, Nelissen RG.

A systematic review and meta-regression of mobile-bearing versus fixed-bearing total knee replacement in 41 studies.

*Bone Joint J* 2013;95-B-9:1209-16.

Keurentjes JC, **Pijls BG**, Van Tol FR, Mentink JF, Mes SD, Schoones JW, Fiocco M, Sedrakyan A, Nelissen RG.

Which implant should we use for primary total hip replacement? A systematic review and meta-analysis. *J Bone Joint Surg Am*; Accepted.

Nouta KA, Verra WC, **Pijls BG**, Schoones JW, Nelissen RG.

All-polyethylene tibial components are equal to metal-backed components: systematic review and meta-regression.

*Clin Orthop Relat Res* 2012;470-12:3549-59.

Bosman WM, Prakken FJ, **Pijls BG**, Ritchie ED.

Lateral talonavicular dislocation after low-energy trauma.

*BMJ Case Rep* 2013;2013-Sept 3.

Keurentjes JC, Fiocco M, Schreurs BW, **Pijls BG**, Nouta KA, Nelissen RG.

Revision surgery is overestimated in hip replacement.

*Bone Joint Res* 2012;1-10:258-62.

## **E-Books**

### **Quality of Literature in Arthroplasty Study Group\***

Quality of publications regarding the outcome of revision rate after arthroplasty.

*EFORT E-Book* 2011;

[http://www.ea.efort.org/downloads/E-Book\\_QoLA%20Project\\_Final%Report\\_EFORT%20Copenhagen%202011.pdf](http://www.ea.efort.org/downloads/E-Book_QoLA%20Project_Final%Report_EFORT%20Copenhagen%202011.pdf).

\*Pijls BG was one of the systematic reviewers.

## **Letters to the Editor**

**Pijls BG**, van der Heide HJ, Nelissen RG.

AQUILA: an orthopaedic-specific reporting guideline.

*Bone Joint J* 2013;95-B-5:718.

**Pijls BG**, Kleijn LL.

Regarding "Subacromial pain pump use with arthroscopic shoulder surgery: A short-term prospective study of complications in 583 patients".

*J Shoulder Elbow Surg* 2009.

Vochtelo AJ, **Pijls BG**, van der Heide HJ.

Sutures v staples. Let's add three other studies.

*Bmj* 2010;340:c2627.



## **Acknowledgements**





This thesis and science in general are the results of teamwork. Many people have contributed to this thesis and I would like to thank them all.

The studies of chapters 3, 4 and 5 were designed, initiated, meticulously followed and previously published by the Biomechanics and Imaging Group, DEPARTMENT OF ORTHOPAEDICS of Leiden University Medical Center. I was very fortunate to be able to work on their long term follow-up.

The studies of chapters 2, 7 and 8 relied heavily on the many publications by the orthopaedic community and in particular the RSA community. The additional information provided by the authors as well as their answers to my many e-mails have been vital for the completion of these systematic reviews.

The study in chapter 6 would not have been possible without external national and international experts. Their help, expertise and useful remarks have been of great importance for the AQUILA initiative.

Many thanks to my promotores, co-authors, supervisors and colleagues for their support, critical review, feedback, inspiration, guidance, skill, enthusiasm and pleasant discussions.

I would like to thank the staff secretaries and roentgen assistants for their assistance during the clinical RSA studies.

Also, I am very grateful to all patients. Their dedication and loyalty are an inspiration; several have never missed a single appointment in more than 16 years.

Last but certainly not least I would like to thank my family and friends for their never ending support, patience and all the great times we have had and will have in the future.



## **Curriculum Vitae**



Bart Pijls was born on the 16th of February 1983 in Roermond, the Netherlands. He graduated from secondary school in 2001 at the Scholengemeenschap Sint Ursula, Horn. In that same year he started to study medicine at the University of Maastricht. During his medical training he worked as a teaching assistant at the Department of Anatomy and Embryology at the University of Maastricht, he followed an internship Orthopaedics and Traumatology in St. Luke's Hospital in Malta and he performed a research project on navigation in total knee replacements at the Department of Orthopaedics at the Maastricht University Medical Center.

Part of his clinical training was performed at the Department of Orthopaedics and Traumatology of the Elkerliek Hospital, Helmond.

After obtaining his medical degree (cum laude) in July 2007 he returned to the Department of Orthopaedics and Traumatology of the Elkerliek Hospital in Helmond to work as an Orthopaedic Resident. In October 2008 he started to perform the research described in this thesis at the Biomechanics and Imaging Group at the Department of Orthopaedics at the Leiden University Medical Center under the supervision of prof. dr. R.G.H.H. Nelissen and prof. dr. ir. E.R. Valstar. This Ph.D.-project was part of the AIF-project (Atlantic Innovation Fund), a collaboration between the Departments of Orthopaedics of the Leiden University Medical Center and of the Dalhousie University, Halifax, Canada. The goal of the AIF-project is to explore and develop the clinical applicability of RSA in everyday orthopaedic practice.

Bart has been accepted to the University of Leiden Orthopaedic Residency Program and has completed the General Surgery Training at the Rijnland Ziekenhuis, Leiderdorp, under the supervision of dr. A.M. Zeillemaker. In July 2013 he started working as Orthopaedic Surgery Resident at the Leiden University Medical Center under the supervision of prof. dr. R.G.H.H. Nelissen.

Bart is married to Sylvia and they live in Leiden.