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

**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.

**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.

**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.

**Pijls BG**, Dekkers OM, Middeldorp S, Valstar ER, van der Heide HJ, Van der Linden-Van der Zwaag HM, Nelissen RG.

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Early migration of tibial components is associated with late revision: a systematic review and meta-analysis of 21,000 knee arthroplasties.

**Pijls BG**, Nieuwenhuijse MJ, Fiocco M, Plevier JW, Middeldorp S, Nelissen RG, Valstar ER.
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Pijls BG, Kok FP, Penning LI, Guldemond NA, Arens HJ.
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***Pijls BG was one of the systematic reviewers.***

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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.