

# Pieter VANSINTJAN



## Personal info

**Date of Birth:** 23/09/1984

**Married to:** Caroline Vande Walle

**Children:** Jack, Lily Mae, Miles,  
Ellis

## Contact

**Address:**

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Belgium

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## Languages

Dutch – native language

English – very good

French – good

## Summary

Hip & Knee surgeon with a strong focus on implementing technological innovation in a high-volume daily practice. Special focus on joint arthroplasty PSI, AR- or Robotically-Assisted. Started with PSI TKA in 2016, Robotically-assisted TKA September 2020 and AR-assisted TKA (Pixee) april 2021, performing 225-250 joint arthroplasties on an annual basis. Recently adopted the MP (medial pivot) concept for TKA. Teaching surgeon for orthopaedic residents.

## Skill Highlights

- Robot-assisted TKA
- UKA – PFJ Arthroplasty
- THA anterior approach
- Hip Arthroscopy
- Knee Sports Surgery
- Enhanced recovery focus
- Data collection
- Materialise PMI for hip revision

## Experience

**Hip & Knee Unit** – 10/2020 to...

**Hip & Knee Surgeon, AZ Maria Middelaers** – 01/2016 to ...

### Fellowships Hip & Knee

- St. Maartenskliniek – NIJMEGEN ( Prof. G. van Hellemond, Prof. A. Wymenga)
- APHM Institut du Mouvement et de l'Appareil Locomoteur - MARSEILLE (Prof. J-N. Argenson, Prof. S. Parratte)
- Reinier de Graaf Ziekenhuis - DELFT (Prof. S. Vehmeijer)
- University College London Hospitals – LONDON (Prof. F. Haddad)
- AZ Monica - ANTWERP (Dr. K. Lagae, Prof. P. Verdonk,)

## Education

Master in Orthopaedic Surgery & Traumatology: **Ghent University**  
- Belgium, 2015

Degree in Sports Medicine: **Ghent University** - Belgium, 2009

Medical Doctor (MD): **Ghent University** - Belgium, 2009

## Memberships

BVOT: Belgian Association of Orthopaedics and Traumatology  
BKS: Belgian Knee Society  
BHS: Belgian Hip Society

## Scientific Publications

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- Moens K, **Vansintjan P**, De Loore G, De Vos J. Pronator sparing plate osteosynthesis in distal radius fractures: early functional outcome. *Acta Orthop Belg.* 2018 Dec; 84 (4°): 531-538
- De Geest T, **Vansintjan P**, De Loore G. Direct anterior total hip arthroplasty: complications and early outcome in a series of 300 cases. *Acta Orthop Belg.* 2013 Apr; 79(2): 166-73 2.
- P. Verdonk, **P. Vansintjan**, R. Verdonk. Meniscal Allograft Transplantation. *The Knee Joint: Surgical Techniques and Strategies.* M. Bonnin; N. A. Amendola; J. Bellemans et al. 2012, XXI;139-147. Springer. ISBN: 978-2-287-99353-7
- P Verdonk, P. Winnock de Grave, **P. Vansintjan**, R. Verdonk. Transplantation d'allogreffe méniscale. *Traité de chirurgie du genou.* P, Neyret, G. Demey. 2012, Elsevier Masson. ISBN: 978-2-294-71510-5
- Jacobs TF, **Vansintjan PS** et al. The effect of Lidocaine on the viability of cultivated mature human cartilage cells: an in vitro study. *Knee Surg Sports Traumatol Arthrosc* 2011 Jul;19 (7):1206–13
- K.A. Almqvist, **P. Vansintjan**, P. Verdonk, Y. Bohu, P. Beaufils, R. Verdonk, Degenerative meniscal lesions in a stable knee. *The Meniscus.* P. Beaufils, R. Verdonk. 2010; 223-228; Springer. ISBN 978-3-642-02449-8
- K.A. Almqvist, **P. Vansintjan**, P. Verdonk, R. Verdonk. Traumatic meniscal lesions in a stable knee: masterly neglect, meniscectomy, repair. *The Meniscus.* P. Beaufils, R. Verdonk. 2010; 209-214; Springer. ISBN 978-3-642-02449-8
- Verdonk P, **Vansintjan P**, Verdonk R. Infection after Total Knee Arthroplasty: Diagnosis, Management Strategies and Outcomes. Chapter in *The Infected Implant.* Pp 43-59. DOI:[10.1007/978-3-540-92836-2\\_8](https://doi.org/10.1007/978-3-540-92836-2_8)
- Verdonk P, **Vansintjan P**, Verdonk R. Youn patient ;.. old knee: etiology and treatment options. Corpus ID: 74847743
- Baillieul RJ, Jacobs TF, Herregods S, **Van Sint Jan P**, Wyler B, Vereecke H, Almqvist F, Herregods L. The peri-operative use of intra-articular local anesthetics: a review. *Acta Anaesthesiol Belg*, 2009, 60(2): 101-8
- De Guchtenaere A, Vande Walle C, Vansintjan P, Raes A, Donckerwolcke R, Van Laecke E, Hoebeke P, Vande Walle J. Nocturnal polyuria is related to absent circadian rhythm of glomerular filtration rate. *J Urol*, 2007 Dec; 178(6):2626-9.
- Vande Walle J, Vande Walle C, Vansintjan P, De Guchtenaere A, Raes A, Donckerwolcke R, Van Laecke E, Mael R, Dehoorne J, Van Hoyweghen E, Hoebeke P. Nocturnal polyuria is related to 24-hour diuresis and osmotic excretion in an enuresis population referred to a tertiary center. *J Urol*, 2007 Dec;178(6):2630-4.
- De Guchtenaere A, Vande Walle C, Vansintjan P, Donckerwolcke R, Raes A, Dehoorne J, Van Laecke E, Hoebeke P, Vande Walle J. Desmopressin resistant nocturnal polyuria may benefit from furosemide therapy when administered in the morning. *J Urol*, 2007 Dec; 178(6): 2635-9
- Raes A, Dehoorne J, Van Laecke E, Hoebeke P, Vande Walle C, Vansintjan P, Donckerwolcke R, Vande Walle J. Partial response to intranasal desmopressin in children with monosymptomatic nocturnal enuresis is related to persistent nocturnal polyuria on wet nights. *J Urol*, 2007 Sep;178(3 Pt 1):1048-51; discussion 1051-2.
- Dehoorne JL, Vande Walle C, Vansintjan P, Raes AM, De Guchtenaere AR, Van Laecke E, Hoebeke P, Vande Walle JG. Characteristics of a tertiary center enuresis population, with special emphasis on the relation among nocturnal diuresis, functional bladder capacity and desmopressin response. *J Urol*, 2007 Mar; 177 (3): 1130-7

## Completed Visits, Courses & Trainings

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- PIXEE MEDICAL SITE VISIT, 22/6 – 23/6/21, Besançon (France)
- SURGEON TO SURGEON VISIT Prof. J. Victor OMNIBOT – CORIN, 1/6/21, Gent (Belgium)
- CADAVER TRAINING ANTERIOR PATH AND PIXEE TKA, 26/1/21, Gent (Belgium)
- CADAVER TRAINING ROSA-ROBOT for TKA, 18/12/19, Köln (Germany)
- SURGEON TO SURGEON VISIT MAKO-ROBOT STRYKER, 19/12/18, Roeselare (Belgium)
- EDUCATIONAL SITE VISIT ROSA-ROBOT ZIMMER-BIOMET, 11-12/12/18, Winterthür (Switzerland)
- SAW BONE TRAINING NAVIO SMITH&NEPHEW, 3/10/18, Ghent (Belgium)
- DIRECT ANTERIOR APPROACH HIP COURSE STRYKER, 6-7/3/2014, Innsbruck (Austria).
- KNEE ARTHROSCOPY COURSE BIOMET, 10-11/12/14, Rotterdam (Netherlands).
- EUROPEAN HIP ARTHROSCOPY COURSE, 6-7/12/2013, Brussel (Belgium).
- BIOMET TOUR: Surgeon to surgeon – Live surgeries – Cadaver workshop – Hip and Knee Arthroplasty. 16-23/6/2013, (USA).
- TRIATHLON LIVE SURGERY COURSE 2012, 11-12 october 2012, Hässleholm Hospital, (Sweden).
- DIRECT ANTERIOR HIP APPROACHES COURSE BIOMET, 9-10 july 2012, Vienna (Austria).
- AO TRAUMA COURSE, ADVANCED principles of osteosynthesis, 10-18 december 2011, Davos (Switzerland).
- KNEE AND SHOULDER ARTHROSCOPY COURSE ARTHREX, 25-27/11/2010, Arthrex Cadaver Lab, Munchen (Germany).
- AO TRAUMA COURSE, Principles in Operative Fracture Management. 14-17 October 2009, Ovifat (Belgium)

## Fellowships Hip & Knee

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- St. Maartenskliniek – NIJMEGEN ( Prof. G. van Hellemond, Prof. A. Wymenga) – Hip & Knee joint reconstruction. Complex Revision Surgeries. PJI – cases. August 2015
- APHM Institut du Mouvement et de l'Appareil Locomoteur - MARSEILLE (Prof. J-N. Argenson, Prof. S. Parratte) – Hip & Knee Joint Reconstruction. Symbios patient matched hip implants. September 2015.
- Reinier de Graaf Ziekenhuis - DELFT (Prof. S. Vehmeijer) – ASI Hip Approach. Outpatient Total Hip Arthroplasty. Oktober 2015
- University College London Hospitals – LONDON (Prof. F. Haddad). Hip & Knee Joint Reconstruction. Hip & Knee Sports Surgery. Complex Hip Revision Surgery. November 2015.
- AZ Monica - ANTWERP (Dr. K. Lagae, Prof. P. Verdonk). Knee Sports Surgery. ACL & ACL-revision Surgery. Multiligament Knee Surgery. Osteotomies around the knee. Patient Matched Knee Arthroplasty. December 2015 – January 2016.

## Presentations

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- **Pieter Vansintjan.** *VR-AR-RA TKA.* VIVES-University of Applied Sciences Study Day, 11/2/21 Brugge (Belgium)
- Pieter Byn, **Pieter Vansintjan.** *How I implemented PSI,* PSI Meeting Zimmer-Biomet, 16-17/5/19, Brussels (Belgium).
- Pieter Byn, **Pieter Vansintjan.** *PSI: Surgical Technique,* PSI Meeting Zimmer-Biomet, 16-17/5/19, Brussels (Belgium).
- **Pieter Vansintjan.** *UKA: Why?* Nurse Training AZMM, 28/3/19, Gent (Belgium)
- Pieter Byn, **Pieter Vansintjan.** *UKA Economical impact.* Meet the Expert Meeting – Partial Knees. 26/4/18. Sint-Martens-Latem (Belgium)
- Pieter Byn, **Pieter Vansintjan.** *TKA: from zero to hero!* Zimmer-Biomet Sales Meeting, 31/5/17, Gent (Belgium)
- **Pieter Vansintjan.** *THA, ASI: What, Why, How?.* Nurse Training AZMM, 14/4/17, Gent (Belgium)
- Pieter Byn, **Pieter Vansintjan.** *TKA: Levels of Constraint* 15/9/16. Meet the Expert Knee Arthroplasty meeting. Sint-Martens-Latem (Belgium)
- Y. Goubau, P. Vansintjan , T. De Geest, G. De Loore. Direct anterior total hip arthroplasty: complications and early outcome in a series of 300 cases. International Hip Arthroplasty Meeting, 17-20/9/2014 Rome. (Poster)
- P. Vansintjan, J. De Vos. Pronator sparing distal radius osteosynthesis. International FESSH congress (Antwerp) 21 June 2012. (Oral presentation)
- Y. Goubau, P. Vansintjan , T. De Geest, G. De Loore. Direct anterior total hip arthroplasty. BVOT Lentesymposium, 8/3/2013: Hip meeting. (E-poster).
- P. Vansintjan. Recurrent haemarthrosis after TKA, a case report. Belgian Knee Society meeting. 13/10/2011. (Oral presentation).
- P. Vansintjan. Periprosthetic Fractures, case studies. 21st BOTA Symposium 2011. 10/09/2011. (Oral presentation).
- P. Vansintjan, T. Jacobs. The in vitro effect of different concentrations of local anesthetics on the viability and aggrecansynthesis of cultivated mature cartilage cells. SARB Research meeting. 19 Juni 2010, ULB Erasme, Brussel. (Oral presentation resentatie).
- P. Vansintjan. Intra-articular xylocaine: harmful for the knee? APOSSM/ESSKA Traveling Fellows meeting. 31 Mei 2010, UZ Gent. (Oral presentation).
- Verdonk PC, Almqvist KF, van der Maas J, Vansintjan P, Verdonk R. Clinical and radiological follow-up of meniscal transplantations. Analysis of viable vs. deep-frozen meniscal allografts after one year. 7th Biennial ISAKOS Congress, Osaka (Japan), 5-9 April 2009 (Abstract).
- Verdonk PC, Vansintjan P. Combined ACL and PCL-Reconstruction: Indications, Technical Aspects and Outcome. European sports medicine and knee arthroplasty meeting, 8-12 Oktober 2008 (Oral presentation).
- K.F. Almqvist, P. Vansintjan. Revision TKA with a Mobile Bearing Prosthesis. Insall Club, 26/06/2008 (Orale presentatie). 6. R. Verdonk, J. van der Maas, P. Vansintjan. Viable or cryopreserved: but it has to be meniscus.4th Basel International Knee Congress, 29 juni - 2 juli, 2008 (Oral presentation)
- P. Verdonk, P. Vansintjan. The Anterior Cruciate Ligament: Surgical and Conservative Treatment – Ultra-long Term Results. 13th ESSKA 2000 Congress, Porto (Portugal) 21-21 Mei 2008 (Oral presentation).
- R. Verdonk, P. Winnock de Grave, P. Vansintjan. Medacta Knee Prosthesis: Case presentation. Parijs, 14 September 2007 (Oral presentation).

## Ongoing Scientific Activities

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- Mobile app for rehab RCT – Patient reported outcome of rehabilitation and quality of life in computer literate patients undergoing primary knee or hip arthroplasty and randomized to rehabilitation with or without the possible use of a mobile application. **Principal Investigator** – ongoing study
- Comparison of medical outcomes, health-related quality of life and costs of outpatient versus inpatient total knee arthroplasty: a randomized controlled trial. **Co-investigator** – ongoing study
- Postoperative oedema management following neuromuscular electro-stimulation of the peroneal nerve using the geko™ device after total knee arthroplasty. A Randomized Controlled Trial. **Principal Investigator** – ongoing study
- Comparison of Rosa-assisted and Pixee-assisted TKA – Prospective clinical, radiological and PROM's follow-up
- Development of a functional tensioning device to improve iKA TKA