

# C.V. Joris Jaspers



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Dr. Jaspers holds a permanent position at the University Medical Centre (UMC) in Utrecht, the Netherlands. He has been leading the department Medical Technology Innovation since 2008. The work of Joris Jaspers focuses on the development, clinical feasibility and valorisation of Devices that support and may replace medical workforce (labour saving medical devices). The devices that are developed or investigated have the potential of being as low-tech as possible, ergonomic, easy to use, affordable and have commercial potential. His R&D projects focus on products for Operating- and Intervention-Room staff. The appointment of Associate Professor Labour Saving Medical Devices confirmed his role as a result driven innovation liaison with departments within and organisations outside the UMC Utrecht such as (international) companies and other (international) public entities.

- 2013-present **Associate professor, Labour saving medical devices**  
UMC Utrecht, Department of Medical Technology & Clinical Physics (MTKF).  
Main responsibilities: Setup of new research topics, raise funds, set-up public-private partnerships, Co-promotor of PhD students.
- 2012-present **Valorisation Officer,**  
UMC Utrecht, Facility Department  
Main responsibilities: Address valorisation opportunities, Help colleagues with Intellectual property and contract issues, connect Industry/SME's to hospital staff.
- 2008-present **Manager R&D, medical technology**  
UMC Utrecht, MTKF  
Main responsibilities: manage the two product development departments (15FTE) and the research department (5FTE), Member of the management team of the Medical technology cluster (75 FTE)
- 2007-2008: **Consultant medical technology**  
UMC Utrecht, MTKF
- 2003-2006: **Consultant medical technology**  
Academic Medical Centre (AMC) Amsterdam, Department of Medical Technological Development (MTO)
- 2005-2006 **Manager business development**  
Academic Medical Centre (AMC), Tech Transfer Office

- 1999-2005      **PhD student**  
Academic Medical Centre (AMC) and Delft University of Technology  
Dissertation 22 March 2006, Thesis: Simple Tools for Surgeons; Design and evaluation of mechanical alternatives for robotic instruments for minimally invasive surgery.
- 1999-2003      **Project manager medical Devices**  
Academic Medical Centre (AMC), MTO.
- 1996-1999      **Medical Devices engineer**  
Academic Medical Centre (AMC), MTO.
- 1989-1996      **Student mechanical Engineering**  
Delft University of Technology  
Graduation project: design of a human-powered Hand Prosthesis.

#### **International activities:**

- Member of the Technology committee of European Association of Endoscopic Surgeons (EAES), since 2014
- Member of the steering committee of the Society of Medical Innovation and Technology (SMIT), since 2011
- Member of the editorial board of the Journal of Minimally Invasive Therapy and Allied Technology, since 2012
- Reviewer of the Journal of Medical Devices, since 2010

#### **Patent applications:**

- Jaspers J.E.N., Bosma J.M., Tak, M. Guiding Tube and System for connecting to a guiding tube , aanvraag nummer N2014448 , Int. Filing date 12-03-2015
- RIPHAGEN B., TIMMERMANN A.M.D., JASPERS J.E.N.; EVERS L.A.M., SCHOFFELEN R.L.M., MIJERS J.W.M., VAN DIJK R., VAN DEN HOORN D., APPARATUS FOR SIMULTANEOUS MULTIPLE MEDICAMENT ADMINISTRATION. WO2014198411 (A2), Int. Filing date 11-06-2014
- Jaspers J.E.N., Bosma J.M., Castelein, R, Medical device for fixation and retraction in orthopedics and surgery, Provisional patent application nr. 61359833, Int. Filing date 30-06-2010.
- Jaspers J.E.N., Bosma J.M., Holding device for holding a manually operated medical device, aanvraag nummer PCT/NL2009/050606, Int. Filing date 07-10-2009.
- De Roode R., Cuper N.J., Jaspers J.E.N., Verdaasdonk R.M., Apparatus and method for determining the positioning of a vein or Artery. WO2010059045 (A1), Int. Filing date 18-11-2008.
- Sakkers R.J.B., van der Wal A., Jaspers J.E.N., Dijkstra P.T. a system to correct bones. EP2152177 (A1), Int. Filing date 15-11-2007.
- Jaspers J.E.N. Manipulator for an Instrument for Minimally Invasive Surgery, and a Positioning Aid for Positioning Such an Instrument. WO2008130235, Int. Filing date 24-04-2007.
- Jaspers J.E.N. Manipulator for an instrument for Minimally Invasive Surgery and such an Instrument. WO 03/086219, Int. Filing date 05-03-2003.
- Jaspers J.E.N., Cools K. Combi-plaster and Nose-bridge forming part thereof. WO2004026388, Int. Filing date 01-04-2004.
- Doorschodt B.M., Jaspers J.E.N. Apparatus for the mechanical perfusion of a donor's organ during its transport. WO 01/33959, Int. Filing date 08-11-2001.

#### **Key Publications:**

- A novel, intuitive instrument positioner for endoscopy, involving surgeons in design and feasibility. Bosma J, Boeken Kruger A, Jaspers J. *Minimally invasive therapy & allied technologies*. 2015:04 Epub.
- The Minimally Invasive Manipulator: An ergonomic and economic non-robotic alternative for endoscopy?. Bosma J, Aarts S, Jaspers J. *Minimally Invasive Therapy & Allied Technologies*. 2015; 24(1):24-30.
- The use of near-infrared light for safe and effective visualization of subsurface blood vessels to facilitate blood withdrawal in children. Cuper NJ, Klaessens JH, Jaspers JE, de Roode R, Noordmans HJ, de Graaff JC, Verdaasdonk RM. *Med Eng Phys*. 2013;35(4):433-40.

- The Feasibility of Navigation-Assisted Mapping of Bladder Tumors During Transurethral Resection. Draga RO, Noordmans HJ, Lock TM, Jaspers JE, van Rhijn A, Bosch JL. *UroToday Int J*. 2013 June;6(3):art 35.
- A more patient-friendly use of circular fixators in deformity correction. Sakkers RJ, van der Wal AJ, Dijkstra PT, Jaspers JEN. *J Child Orthop*. 2010;4: 267-271.
- Robotics and tele-manipulation: update and perspectives in urology. Frede T, Jaspers J, Hammady A, Lesch J, Teber D, Rassweiler J. *Minerva Urol Nefrol*. 2007;59(2):179-89.
- The Mechanical Master-Slave Manipulator; an instrument improving the performance in standardized tasks for endoscopic surgery. Diks J, Jaspers JEN, Wisselink W, de Mol BAJM, Grimbergen CA. *Surgical Endoscopy*. 2007;21(6):1025-31.
- Camera and instrument holders and their clinical value in minimally invasive surgery. Jaspers JEN, Breedveld P, Herder JL, Grimbergen CA. *Surgical Laparoscopy, Endoscopy & Percutaneous Techniques*. 2004;14(3):145-152.
- Mechanical manipulator for intuitive control of endoscopic instruments with seven degrees of freedom. Jaspers JEN, Bentala M, Herder JL, Mol de BAJM, Grimbergen CA. *Min Invas Ther and Allied Technol*, 2004: 13 (3): 191-198.
- Development of a modeling and osteotomy jig system for reconstruction of the mandible with a free vascularized fibula flap. Strackee SD, Kroon FH, Spierings PT, Jaspers JE. *Plast Reconstr Surg*. 2004;114(7):1851-8.
- Development of laparoscopic instruments, Grimbergen C.A., Jaspers J.E.N., Stassen H.G.. *Min Invas Ther Allied Technol 2001*: 10:145-54.
- Design and Feasibility of PASSIST, a passive instrument positioner, Jaspers JE, Boer KTd, Sjoerdsma W, Bruijn M, Dankelman J, Grimbergen CA., *Journal of Laparoscopic & advanced surgical Techniques*, vol. 10, nb. 6, pp. 331-335, (2000).
- Camera- en instrumenthouders: Jaspers JEN, Breedveld P., In: Handboek endoscopische chirurgie. 2009. Broeders IAMJ and Kalisingh SS (pp49-53), Bohn Stafleu van Loghum (ISBN 978-90-313-5082-7)
- Design and evaluation of endoscope positioners. Jaspers JEN, Boer KT den, Mol BAJM de, Grimbergen CA. In: Engineering for Patient Safety: Issues in Minimally Invasive Procedures. 2004. Dankelman J, Grimbergen CA, and Stassen HG, (pp. 162-179) Lawrence Erlbaum Assoc Inc. (ISBN: 080584905X).