

René M. Castelein, MD, PhD

Born February 17, 1954

Work address

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EDUCATION

- 30-5-1989 **PhD Erasmus University of Rotterdam** Department of Orthopaedics, Erasmus University of Rotterdam, The Netherlands (promoters: Prof.dr. B. van Lingen, Prof.dr. M. de Vlieger)
Thesis (1989) 'The value of ultrasonography as a screening procedure for congenital dysplasia of the hip in newborns'.
- 1984 - 1988 **Orthopaedic residency Municipal Hospitals of the Hague** Department of Orthopaedics, The Hague, The Netherlands (Dr. PJ Moll)
- 1982 - 1983 **Fellowship Paediatric Orthopaedics/Spine Surgery Alfred I du Pont Institute**, Wilmington, Delaware, VS
- 1980 - 1982 **Surgical Training Refaja Hospital**, Dordrecht, The Netherlands
- 1978 - 1980 **Royal Dutch Navy**, Medical Officer (LTZ-2OC)
- 1971 - 1978 **Medical School** at the University of Leiden, The Netherlands
(Graduation March 1978)
- 1970 - 1971 **Davidson College**, North Carolina, VS
- 1965 - 1970 **High School – VWO Caland Lyceum Rotterdam**, The Netherlands.

WORK EXPERIENCE

- 2005 – present Professor of Orthopaedic Surgery, University Medical Center Utrecht, The Netherlands
- 2003 – present Chairman of the Department of Orthopaedic Surgery, University Medical Center Utrecht, The Netherlands
- 2008 – 2011 Chairman of the Division of Surgical Specialties, University Medical Center Utrecht, The Netherlands
- 2002 – 2005 Professor of Paediatric Orthopaedics, University Medical Center Utrecht, The Netherlands
- 1996 – 2002 **Head of the Specialist Training Programme, Isala Clinics, Zwolle, The Netherlands**
- 1988 – 2002 **Orthopaedic Surgeon, Isala Clinics, Zwolle, The Netherlands.**

SUPERVISION PhD THESES (PROMOTOR)

- 2017 P. Rahnamay Moshtagh, 'Mechanobiology of Articular Cartilage: Consequences of Physical Activity and Advanced Glycation'
- 2015 M. Stegeman 'Fusion of the Tarsal Joints: Outcome, Diagnostics and Management of patient expectations'
- 2015 K. Wiegant 'Knee Joint Distraction Intrinsic Cartilage Repair and Sustained Clinical Benefit'
- 2014 T.P.C. Schlösser 'Adolescent Idiopathic Scoliosis: From Normal Spine Anatomy to Three-dimensional Deformity'
- 2014 H.J. Oostenbroek 'Limb reconstruction with the Ilizarov Method'
- 2013 D.A. van Kampen 'Combining Clinical Information and Patient Reported Outcome Measures in

	Orthopaedic Surgery'
2013	J.M. Brinkman 'Fixation stability and new surgical concepts of osteotomies around the knee'
2011	W.G. Horstmann 'Perioperative blood saving measures in total hip and knee arthroplasty'
2011	M.M.A. Janssen 'Human upright Spinopelvic Alignment and the Etio-Pathogenesis of idiopathic scoliosis'
2011	T. Vrtovec 'Evaluation of spinal and pelvic parameters from three-dimensional medical images'
2010	F. Intema 'Loading and unloading in the development and treatment of osteoarthritis'
2010	S. Ramwadhoebe 'Screening for developmental dysplasia of the hip in primary care: implementation by simulation'
2010	D.J.F. Moojen 'Implant Related Infections: Application of PCR-based Diagnostics and New Antimicrobial Strategies in Prevention and Treatment'
2010	B.C.H. van der Wal 'Hydroxyapatite-coated Uncemented Hip Stems and Bone Remodelling'
2009	J.H.M. Goosen 'Dilemmas in Uncemented Total Hip Arthroplasty'
2007	J.W.M. Kouwenhoven 'The Role of Intrinsic Spinal Mechanisms in the Pathogenesis of Adolescent Idiopathic Scoliosis'
2007	A.R. Vaccaro 'A Novel Thoracolumbar Trauma Classification System and Injury Severity Score (TLICS)'
2005	M. Spruit 'Surgical Treatment of Degenerative Disc Conditions of the Lumbar Spine'.

AWARDS

personal awards

2006	Cotrel Award on the Etio-pathogenesis of Idiopathic Scoliosis
2011	Alexandre Suerman MD PhD Stipendium
2015	Alexandre Suerman MD PhD Stipendium

VISITING PROFESSORSHIP, BOARD FUNCTIONS

- Visiting Professor University of Poznan, Poland 2016-2019
- Visiting Professor University of Montreal 2016
- President Nordic Spinal Deformities Society (NSDS) 2015-present
- Visiting Professor Chinese University of Hong Kong 2013
- President International Research Society of Spinal Deformities (IRSSD) 2015-present
- Board Member International Group for Advancement in Spinal Science 2011-present
- Vice President Dutch Orthopedic Society 2010-2012
- Scientific Secretary Dutch Orthopedic Society 1992-1999

MEMBERSHIPS

- Scoliosis Research Society (SRS)
- Eurospine
- European Spinal Deformities Study Group (invited member)
- International Group for Advancement in Spinal Science (IGASS, board member)
- Fondation Yves Cotrel (invited member)
- Dutch Orthopaedic Society
- European Paediatric Orthopaedic Society (EPOS)
- Dutch Working Group on Paediatric Orthopaedics
- Dutch Spine Society
- European Federation (of National Associations) of Orthopaedics and Traumatology (EFORT)
- Board Member International Research Society on Spinal Deformities (IRSSD)
- Editorial Board "Scoliosis"
- Editorial Board "Orthopaedics and Trauma"
- Section Editor for Orthopaedic Surgery Netherlands Journal of Medicine
- Reviewer for many journals related to Spine Research

PUBLICATIONS

PhD Thesis

1989 The value of ultrasonography as a screening procedure for congenital dysplasia of the hip in newborns

Journal publications (peer-reviewed) as per February 2017:

Title & journal	IF	%
Brink, R.C., Colo, D., Schlösser, T.P., Vincken, K.L., Stralen, M. van, Hui, S.C., Shi, L., Chu, W.C., Cheng, J.C., Castelein, R.M. (2017). Upright, Prone and Supine Spinal Morphology and Alignment in Adolescent Idiopathic Scoliosis. <i>Scoliosis Spinal Disord.</i> 12:6.		
Schlösser, T.P., Semple, T., Carr, S.B., Padley, S., Loebinger, M.R., Hogg, C., Castelein, R.M. (2017). Scoliosis Convexity and Organ Anatomy are related. <i>European Spine Journal (epub ahead of print)</i> .		
Brink, R.C., Schlösser, T.P., Colo, D., Vincken, K.L., Stralen, M. van, Hui, S.C., Chu, W.C., Cheng, J.C., Castelein, R.M. (2017) Assymetry of the Vertebral Body and Pedicles in the True Transverse Plane in Adolescent Idiopathic Scoliosis: A CT-Based Study. <i>Spine Deform.</i> 5(1):37-45.		
Brink, R.C., Schlösser, T.P., Colo D., Vavruch, L., Stralen, M. van, Vincken, K.L., Malmqvist, M., Kruijt, M.C., Tropp, H., Castelein, R.M. (2016). Anterior Spinal Overgrowth is the Result of the Scoliotic Mechanism and is located in the Disc. <i>Spine (Phila Pa 1976) (epub ahead of print.)</i>		
Schlösser, T.P., Stralen, M. van, Chu, W.C., Lam, T.P., Ng, B.K., Vincken, K.L., Cheng, J.C., Castelein, R.M. (2016). Anterior Overgrowth in Primary Curves, Compensatory Curves and Junctional Segments in Adolescent Idiopathic Scoliosis. <i>PLoS One; 11(7) e016026.7</i>		
Wessels, M., Hekman, E.E., Kruyt, M.C., Castelein, R.M., Homminga, J.J., Verkerke, G.J. (2016). Spinal shape modulation in a porcine model by a highly flexible and extendable non-fusion implant system. <i>European Spine Journal</i> 25(9): 2975-83.		
Schlösser, T.P., Janssen, M.M., Vrtovec, T., Castelein, R.M. (2016). Letter to the editor concerning "Pelvic incidence: an anatomic investigation of 880 cadaveric specimens by Weinberg DS, Morris WZ, Gebhart JJ, Liu RW. <i>European Spine Journal</i> 25(9): 3004-5.		
Holewijn R.M., Schlösser, T.P., Bisschop, A., Veen, A.J. van der, Stadhouders, A., Royen, B.J. van, Castelein, R.M., Kleuver, M. de (2015). How Does Spinal Release and Ponte Osteotomy Improve Spinal Flexibility? The Law of Diminishing Returns. <i>Spine Deform.</i> 3(5): 489-495.		
Colo, D., Schlösser, T.P., Oostenbroek, H.J., Castelein, R.M. (2015). Complete remodelling after conservative treatment of a severely angulated Odontoid Fracture in a patient with osteogenesis imperfecta. <i>Spine</i> 15;40(18):E1031-4.		
Cheng, J.C., Castelein, R.M., Chu, W.C., Danielsson, A.J., Dobbs, M.B., Grivas, T.B., Gurnett, C.A., Luk, K.D., Moreau, A., Newton, P.O., Stokes, I.A., Weinstein, S.L., Burwell, R.G. (2015). Adolescent Idiopathic Scoliosis. <i>Nat. Rev. Dis. Primers</i> , 24;1:15030.		
Brinkman, J.M., Hirschler, C., Agneskirchner, J., Lobenhoffer, P., Castelein, R.M., Van Heerwaarden, R.J. (2014). Biomechanical testing of distal femur osteotomy plate fixation techniques: the role of simulated physiological loading. <i>J exp Orthopaedics</i> 1(1): 1.		
Schlösser, T.P., Vincken, K.L., Rogers, K., Castelein, R.M., Shah, S.A. (2015). Natural sagittal spino-pelvic alignment in boys and girls before, at and after the adolescent growth spurt. <i>European Spine Journal</i> , 24(6), 1158-67.		
Castelein, R.M. (2014). The benefit of braces in adolescent idiopathic scoliosis. <i>Nederlands Tijdschrift voor Geneeskunde</i> , 158(4), A7118.		
Kampen, D.A. van, Berg, T. van den, Woude, H.J. van der, Castelein, R.M., Scholtes, V.A.B., Terwee, C.B. & Willems, W.J. (2014). The diagnostic value of the combination of patient characteristics, history, and clinical shoulder tests for the diagnosis of rotator cuff tear. <i>Journal of Orthopaedic Surgery and Research [E]</i> , 9.		
Schlösser, T.P., Stralen, M. van, Brink, R.C., Chu, W.C., Lam, T.P., Vincken, K.L., Castelein, R.M., Cheng, J.C. (2014). Three-dimensional characterization of torsion and asymmetry of the intervertebral discs versus vertebral bodies in adolescent idiopathic scoliosis. <i>Spine</i> 1;39(19), E1159-66.		

- Schlösser, T.P., Janssen, M.M., Vrtovec, T., Pernus, F., Oner, F.C., Viergever, M.A., Vincken, K.L., Castelein, R.M. (2014). Evolution of the ischio-iliac lordosis during natural growth and its relation with the pelvic incidence. *European Spine Journal*, 23(7), 1433-41.
- Schlösser, T.P., Heijden, G.J.M.G. van der, Versteeg, A.L. & Castelein, R.M. (2014). How 'idiopathic' is adolescent idiopathic scoliosis? A systematic review on associated abnormalities. *PLoS ONE [E]*, 9(5).
- Schlösser, T.P., Stadhouder, A., Schimmel, J., Lehr, A.M., Heijden, G.J.M.G. van der & Castelein, R.M. (2014). Reliability and validity of the adapted Dutch version of the revised Scoliosis Research Society 22-item questionnaire. *The Spine Journal*, 14(8), 1663-1672.
- Schlösser, T.P., Shah, S.A., Reichard, S.J., Rogers, K., Vincken, K.L. & Castelein, R.M. (2014). Differences in early sagittal plane alignment between thoracic and lumbar adolescent idiopathic scoliosis. *The Spine Journal*, 14(2), 282-290.
- Schlösser, T.P., Janssen, M.M.A., Vrtovec, T., Pernus, F., Öner, F.C., Viergever, M.A., Vincken, K.L. & Castelein, R.M. (2014). Evolution of the ischio-iliac lordosis during natural growth and its relation with the pelvic incidence. *European Spine Journal*, 23(7), 1433-1441.
- Schlösser, T.P., Stralen, M. van, Brink, R.C., Chu, W.C.W., Lam, T-P., Vincken, K.L., Castelein, R.M. & Cheng, J.C.Y. (2014). Three-dimensional characterization of torsion and asymmetry of the intervertebral discs versus vertebral bodies in adolescent idiopathic scoliosis. *Spine*, 39(19), E1159-E1166.
- Homminga, J., Lehr, A.M., Meijer, G.J.M., Janssen, M.M.A., Schlosser, T.P., Verkerke, G.J. & Castelein, R.M. (2013). Posteriorly directed shear loads and disc degeneration affect the torsional stiffness of spinal motion segments: a biomechanical modeling study. *Spine*, 38(12), E1313-E1319.
- Horstmann, W.G., Swierstra, M.J., Ohanis, D., Castelein, R.M., Kollen, B.J. & Verheyen, C.C.P.M. (2013). Reduction of blood loss with the use of a new combined intra-operative and post-operative autologous blood transfusion system compared with no drainage in primary total hip replacement. *The Bone & Joint Journal*, 95(5), 616-622.
- Janssen, M.M.A., Vincken, K.L., Raak, S.M. van, Vrtovec, T., Kemp, B., Viergever, M.A., Bartels, L.W. & Castelein, R.M. (2013). Sagittal spinal profile and spinopelvic balance in parents of scoliotic children. *The Spine Journal*, 13(12), 1789-1800.
- Kampen, D.A. van, Willems, W.J., Beers, L.W.A.H., Castelein, R.M., Scholtes, V.A.B. & Terwee, C.B. (2013). Determination and comparison of the smallest detectable change (SDC) and the minimal important change (MIC) of four-shoulder patient-reported outcome measures (PROMs). *Journal of Orthopaedic Surgery and Research [E]*, 8(1), 40.
- Kampen, D.A. van, Berg, T. van den, Woude, H.J. van der, Castelein, R.M., Terwee, C.B. & Willems, W.J. (2013). Diagnostic value of patient characteristics, history, and six clinical tests for traumatic anterior shoulder instability. *Journal of Shoulder and Elbow Surgery*, 22(10), 1310-1319.
- Kok, D.H.J., Sakkers, R.J.B., Pruijs, J.E.H., Joesse, P. & Castelein, R.M. (2013). Bone mineral density in developing children with osteogenesis imperfecta. *Acta Orthopaedica*, 84(4), 431-436.
- Rutges, J.P.H.J., Duit, R.A., Kummer, J.A., Bekkers, J.E.J., Öner, F.C., Castelein, R.M., Dhert, W.J.A. & Creemers, L.B. (2013). A validated new histological classification for intervertebral disc degeneration. *Osteoarthritis and cartilage*, 21(12), 2039-2047.
- Schlösser, T.P., Vincken, K.L., Attrach, H., Kuijff, H.J., Viergever, M.A., Janssen, M.M.A. & Castelein, R.M. (2013). Quantitative analysis of the closure pattern of the neurocentral junction as related to preexistent rotation in the normal immature spine. *The Spine Journal*, 13(7), 756-763.
- Stoop, F.J., Kruijt, M.C., Linden, M.H. van der, Sakkers, R.J.B., Hasselt, P.M. van & Castelein, R.M. (2013). Prevalence and development of orthopaedic symptoms in the dutch hurler patient population after haematopoietic stem cell transplantation. *JIMD Reports*, 9, 17-21.
- Visser, J., Brinkman, J.M., Bleys, R.L.A.W., Castelein, R.M. & Heerwaarden, R.J. van (2013). The safety and feasibility of a less invasive distal femur closing wedge osteotomy technique: a cadaveric dissection study of the medial aspect of the distal femur. *Knee Surgery Sports Traumatology Arthroscopy*, 21(1), 220-227.
- Vrtovec, T., Janssen, M.M.A., Likar, B., Castelein, R.M., Viergever, M.A. & Pernus, F. (2013). Evaluation of pelvic morphology in the sagittal plane. *The Spine Journal*, 13(11), 15
- Quantitative analysis of the closure pattern of the neurocentral junctions as related to pre-existent rotation in the normal immature spine. 3,290 10%
- Schlösser, T.P., Vincken, K.L., Attrach, H., Kuijff, H.J., Viergever, M.A., Janssen, M.M.A., Castelein, R.M. *Spine Journal* (2013)

Sagittal spinal profile and spinopelvic balance in parents of scoliotic children, as compared to normal controls. Janssen, M.M.A., Vincken, K.L., Van Raak, S.M., Vrtovec, T., Kemp, B., Viergever, M.A., Bartels, L.W., Castelein, R.M. <i>Spine Journal</i> (2013)	3,290	10%
A review of methods for evaluating the quantitative parameters of sagittal pelvic alignment. Vrtovec, T., Janssen, M.M.A., Likar, B., Castelein, R.M., Viergever, M.A., Pernus, F. <i>Spine Journal</i> 12(5), 433-446 (2012)	3,290	10%
Analysis of Pelvic incidence from 3-dimensional images of a normal population. Vrtovec, T., Janssen, M.M.A., Pernus, F., Castelein, R.M., Viergever, M.A. <i>Spine</i> 37(8), E479-E485 (2012)	2,078	50%
Sparing the posterior surgical site when planning radiation therapy for thoracic metastatic spinal disease. Verlaan, J.J., Westhoff, P.G., Hes, J., Van der Linden, Y.M., Castelein, R.M., Öner, F.C., Van Vulpen, M. <i>Spine Journal</i> 12(4), 324-328 (2012)	3,290	10%
Computerized analysis of pelvic incidence from 3D images. Vrtovec, T., Janssen, M.M.A., Pernus, F., Castelein, R.M., Viergever, M.A. <i>Medical Imaging 2012</i> , 8314(83142G) (2012)	n.v.t.	
Tissue structure modification in knee osteoarthritis by use of joint distraction: an open 1-year pilot study. Intema, F., Van Roermund, P.M., Marijnissen, A.C.A., Cotafana, S., Eckstein, F., Castelein, R.M., Bijlsma, J.W.J., Mastbergen, S.C. <i>Annals of the rheumatic diseases</i> , 70(8), 1441-1446 (2011)	9,082	10%
There may be a same mechanism of the left-right handedness and left-right convex curve pattern of adolescent idiopathic scoliosis. Kouwenhoven, J.W., Janssen, M.M.A., Castelein, R.M. <i>Medical Hypotheses</i> 77(1), 156 (2011)	n.v.t.	
Orthopaedic management of Hurler's disease after hematopoietic stem cell transplantation: a systematic review. Van der Linden, M.H., Kruyt, M.C., Sakkers, R.J.B., De Koning, T.J., Öner, F.C., Castelein, R.M. <i>Journal of inherited metabolic disease</i> 34(3), 657-669 (2011)	3,808	10%
Experimental animal models in scoliosis research: a review of the literature. Janssen, M.M.A., De Wilde Roeland, F., Kouwenhoven, J.W., Castelein, R.M. <i>Spine Journal</i> 11(4), 347-358 (2011)	3,024	10%
Analysis of Preexistent Vertebral Rotation in the Normal Infantile, Juvenile and Adolescent Spine. Janssen, M.M.A., Kouwenhoven, J.W., Schlösser, T.P.C., Viergever, M.A., Bartels, L.W., Castelein, R.M., Vincken, K.L. <i>Spine</i> 36(7), E486-E491 (2011)	2,510	25%
Minimally Invasive versus Classic Procedures in Total Hip Arthroplasty a Double-blind Randomized Controlled Trial. Goosen, J.H.M., Kollen, B.J., Castelein, R.M., Kuipers, B.M., Verheyen, C.C.P.M. <i>Clinical Orthopaedics and Related Research</i> 469(1), 200-208 (2011)	2,116	25%
Micro-CT quantification of subchondral endplate changes in intervertebral disc degeneration. Rutges, J.P.H.J., Van der Jagt, O.P., Öner, F.C., Verbout, A.J., Castelein, R.M., Kummer, J.A., Weinans, H., Creemers, L.B., Dhert, W.J.A. <i>Osteoarthritis and Cartilage</i> 19(1), 89-95 (2011)	3,953	10%
Hypertrophic differentiation and calcification degeneration. Rutges, J.P.H.J., Duit, R.A., Kummer, J.A., Öner, F.C., Van Rijen, M.H., Verbout, A.J., Castelein, R.M., Dhert, W.J.A., Creemers, L.B. <i>Osteoarthritis and Cartilage</i> 18(11), 1487-1495 (2010)	3,953	10%
Results of Pavlik Harness Treatment in Children With Dislocated Hips between the age of six and twenty-four Months. Pollet, V., Pruijs, H., Sakkers, R.J.B., Castelein, R.M. <i>Journal of Pediatric Orthopaedics</i> 30(5), 437-442 (2010)	1,226	>50%

Clinical and radiological results of the stemmed Mc Minn cup in hip revision surgery. Willemse, P., Castelein, R.M., Bom, P.L.P.A., Verburg, A., Verheyen, C.C.P.M. <i>Acta Orthopaedica Belgica</i> 76(1), 58-62 (2010)	1,909	50%
Quality of scaffold fixation in a human cadaver knee model. Bekkers, J.E.J., Tsuchida, A.I., Malda, J., Creemers, L.B., Castelein, R.M., Saris, D.B.F. & Dhert, W.J.A. . <i>Osteoarthritis and cartilage</i> , 18(2), 266-272. (2010)	3,888	10%
Pre-existent Vertebral Rotation in the Human Spine is Influenced By Body Position. Janssen, M.M.A., Vincken, K.L., Kemp, B., Obradov, M., Kleuver, M. de, Viergever, M.A., Castelein, R.M. & Bartels, L.W. In <i>8th Biennial Meeting of the International Research Society of Spinal Deformities 2010</i> Vol. 158. <i>Studies in Health Technology and Informatics</i> (pp. 67-71) (2010)	n.v.t.	.
The Role of Posteriorly Directed Shear Loads Acting on a Pre-rotated Growing Spine: a Hypothesis on the Pathogenesis of Idiopathic Scoliosis. Janssen, M.M.A., Kouwenhoven, J.W.M. & Castelein, R.M. In <i>8th Biennial Meeting of the International Research Society of Spinal Deformities 2010</i> Vol. 158. <i>Studies in Health Technology and Informatics</i> (pp. 112-117) (2010)	n.v.t.	.
The presence of extracellular matrix degrading metalloproteinases during fetal development of the intervertebral disc. Rutges, J.P.H.J., Nikkels, P.G.J., Oner, F.C., Ottink, K.D., Verbout, A.J., Castelein, R.M., Creemers, L.B. & Dhert, W.J.A. <i>European Spine Journal</i> , 19(8), 1340-1346 (2010).	1,956	25%
Spinal decompensation in degenerative lumbar scoliosis. Vries, A.A.B. de, Mullender, M.G., Pluymakers, W.J., Castelein, R.M. & Royen, B.J. van <i>European Spine Journal</i> , 19(9), 1540-1544. (2010)	1,956	25%
Prevalence of Vertebral Pars Defects (Spondylolysis) in a Population With Osteogenesis Imperfecta. Verra, W.C., Pruijs, J.E.H., Beek, E.J. & Castelein, R.M. <i>Spine</i> , 34(13), 1399-1401. (2009)	2,793	25%
Long-term psychosocial functioning after Ilizarov limb lengthening during childhood. Moraal, J.M., Elzinga-Plomp, A., Jongmans, M.J., Roermund, P.M. van, Flikweert, P.E., Castelein, R.M. & Sinnema, G. <i>Acta Orthopaedica</i> , 80(6), 704-710. (2009).	1,762	50%
Prophylaxis of infection and effects on osseo integration using a tobramycin-periapatite coating on titanium implants-An experimental study in the rabbit. Moojen, D.J.F., Vogely, H.Ch., Fleer, A., Nikkels, P.G.J., Higham, P.A., Verbout, A.J., Castelein, R.M. & Dhert, W.J.A. <i>Journal of Orthopaedic Research</i> , 27(6), 710-716. (2009).	2,963	10%
No efficacy of Silver Bone Cement in the Prevention of Methicillin-Sensitive Staphylococcal Infections in a Rabbit Contaminated Implant Bed Model. Moojen, D.J.F., Vogely, H.Ch., Fleer, A., Verbout, A.J., Castelein, R.M. & Dhert, W.J.A. <i>Journal of Orthopaedic Research</i> , 27(8), 1002-1007. (2009).	2,963	10%
Pigmented villonodular synovitis: an overdiagnosed entity. Kooij, N., Shadid, M.B., Castelein, R.M. & Diest, P.J. van <i>Histopathology</i> , 55(4), 477-478. (2009).	4,131	25%
Differences in male and female spino-pelvic alignment in asymptomatic young adults: a three-dimensional analysis using upright low-dose digital biplanar X-rays. Janssen, M.M.A., Drevelle, X., Humbert, L., Skalli, W. & Castelein, R.M. <i>Spine</i> , 34(23), E826-E832. (2009).	2,793	25%
Acetabular augmentation ring for recurrent dislocation of total hip arthroplasty: 60% stability rate after an average follow-up of 74 months. Bosker, B.H., Ettema, H.B., Verheyen, C.C.P.M. & Castelein, R.M. <i>International Orthopaedics</i> , 33(1), 49-52. (2009).	1,235	>50%
Increased MMP-2 activity during intervertebral disc degeneration is correlated to MMP-14 levels. Rutges, J.P.H.J., Kummer, J.A., Oner, F.C., Verbout, A.J., Castelein, R.M., Roestenburg, H.J.A., Dhert, W.J.A. & Creemers, L.B. <i>Journal of Pathology</i> , 214(1), 523-530. (2008).	5,423	10%

In vitro release of antibiotics from commercial PMMA beads and articulating hip spacers. Moojen, D.J.F., Hentenaar, B., Vogely, H.Ch., Verbout, A.J., Castelein, R.M. & Dhert, W.J.A. <i>The Journal of Arthroplasty</i> , 23(8), 1152-1156. (2008).	1,609	50%
Antimicrobial activity of platelet-leukocyte gel against <i>Staphylococcus aureus</i> . Moojen, D.J.F., Everts, P.A.M., Schure, R.M., Overdevest, E.P., Zundert, A. van, Knape, J.T.A., Castelein, R.M., Creemers, L.B. & Dhert, W.J.A. <i>Journal of Orthopaedic Research</i> , 26(3), 404-410. (2008).	2,437	25%
The pathogenesis of adolescent idiopathic scoliosis - review of the literature. Kouwenhoven, J.W.M. & Castelein, R.M. <i>Spine</i> , 33(26), 2898-2908. (2008).	2,499	10%
Pyogenic spondylitis as a complication of ear piercing: Differentiating between spondylitis and discitis. Sewnath, M., Faber, T. & Castelein, R.M. <i>Acta Orthopaedica Belgica</i> , 73(1), 128-132. (2007).	n.v.t.	
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The relation between organ anatomy and pre-existent vertebral rotation in the normal spine: magnetic resonance imaging study in humans with situs inversus totalis. Kouwenhoven, J.W.M., Bartels, L.W., Vincken, K.L., Viergever, M.A., Verbout, A.J., Delhaas, T. & Castelein, R.M. <i>Spine</i> , 32(10), 1123-1128. (2007).	2,35	25%
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- The role of dorsal shear forces in the pathogenesis of adolescent idiopathic scoliosis- a hypothesis.
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Castelein, R.M., Sauter, A.J.M.

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CHAPTERS:

- 2015 COLO, D., CASTELEIN, R.M. OSTEOTOMIES IN SYNDROMIC PATIENTS. IN: KAPLAN L, LENKE LG, EDS. RIGID SPINE DEFORMITIES, 1ST EDITION. THIEME PUBLISHERS, STUTTGART, DUISLAND. UNDER EDITOR REVIEW.
- 2008 Castelein, R.M. Wervelkolomaandoeningen bij Kinderen en Volwassenen. In Verhaar & Mourik (Eds.), Orthopedie. Houten: Bohn Stafleu Van Loghum.
- 2006 Oner, F.C., Verbout, A.J., Zimmerman, K.W., & Castelein, R.M. Wervelfracturen. In W.L.M. Kramer, H.J. ten Duis, S. Ekkelkamp, J.L.L. Kimpen, L.P.H. Leenen, & P. Patka (Eds.), Handboek kindertraumatologie (pp. 405-426). Utrecht: De Tijdstroom uitgeverij.
- 2006 Haeff, M.J. van, Castelein, R.M., & Kramer, W.L.M. Kraakbeenletsels. In W.L.M. Kramer, H.J. ten Duis, S. Ekkelkamp, J.L.L. Kimpen, L.P.H. Leenen, & P. Patka (Eds.), Handboek voor kindertraumatologie (pp. 461-474). Utrecht: de Tijdstroom.

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PODIUM PRESENTATIONS

- 2016 'True 3-D morphology of the spine in adolescent idiopathic scoliosis', *BSS Spine Course 2016*, Ribeirão Preto, Brazil, 25-26 November 2016
- 2016 'Differences in sagittal alignment as related to different curve types in adolescent idiopathic scoliosis'. *BSS Spine Course 2016*, Ribeirão Preto, Brazil, 25-26 November 2016
- 2016 'Evolution of the pelvic lordosis as part of sagittal balance', *BSS Spine Course 2016*, Ribeirão Preto, Brazil, 25-26 November 2016.
- 2016 '3-D correction of idiopathic scoliosis: Is it possible and what's the benefit for the patient'. *BSS Spine Course 2016*, Ribeirão Preto, Brazil, 25-26 November 2016.
- 2016 'Spino-pelvic alignment and posture: is child a miniature of adult?' *ICEOS 2016*, Utrecht, The Netherlands, 17-18 November 2016
- 2016 'Challenges in early onset scoliosis'. *ICEOS 2016*, Utrecht, The Netherlands, 17-18 November 2016
- 2016 'Spinal growth in patients with juvenile idiopathic scoliosis treated with Boston brace'. *ICEOS 2016*, Utrecht, The Netherlands, 17-18 November 2016
- 2016 'Scoliosis convexity is related to organ anatomy'. *ICEOS 2016*, Utrecht, Netherlands, 17-18 November 2016
- 2016 'Application of low-dose stereoradiography in in-vivo vertebral morphological measurements: comparison with computed tomography'. *ICEOS 2016*, Utrecht, Netherlands, 17-18 November 2016
- 2016 'Several invited lectures about the 3-D morphology of the spine and pelvis in idiopathic scoliosis', *Congres de la Société de Scolioses Quebec, 19-23 October 2016*
- 2016 'Introduction to the pathophysiology and treatment of spinal deformations in children', *ESPA 2016*, Belgrado, Serbia, 29-30 September 2016
- 2016 'Systematic review to assess different growth friendly systems', *NSDS Annual Meeting 2016*, Naantali, Finland, 24-26 August 2016
- 2016 'Intra-wound treatment for prevention of surgical site infections in instrumented spinal deformity surgery', *NSDS Annual Meeting 2016*, Naantali, Finland, 24-26 August 2016.
- 2016 'Upright, prone and supine spinal morphology and alignment in adolescent idiopathic scoliosis', *NSDS Annual Meeting 2016*, Naantali, Finland, 24-26 August 2016
- 2016 'Anterior spinal overgrowth" is not exclusive for idiopathic scoliosis, and is located in the disc', *NSDS Annual Meeting 2016*, Naantali, Finland, 24-26 August 2016
- 2016 'Initial and long-term changes in 3D position of upper and lower instrumented vertebrae following surgery for adolescent idiopathic scoliosis', *IMAST 2016*, Washington, USA, 11-16 July 2016
- 2016 'Upright, Prone and Supine Spinal Morphology in Adolescent Idiopathic Scoliosis', 1st Joint Meeting, Society on Scoliosis Orthopaedic and Rehabilitation Treatment (SOSORT) and of the International Research Society on Spinal Deformities (IRSSD), Banff, Canada, 23-27 May 2016
- 2016 'Assymetry of the Vertebral Body and Pedicles in the True Transverse Plane in Adolescent Idiopathic Scoliosis, Global Spine Congress/World Forum for Spine Research, Dubai, United Arab Emirates, 13-16 april 2016
- 2016 'Upright, Prone and Supine Spinal Morphology in Adolescent Idiopathic Scoliosis, Global Spine Congress/World Forum for Spine Research, Dubai, United Arab Emirates, 13-16 april 2016
- 2015 "Thoracolumbar vertebrectomy: progressive thoracolumbar kyphosis in achondroplasia", Invited lecture, 9th International Group for Advancement in Spinal Science (IGASS) Forum "What Drives Decision-Making in Spine Surgery?", Copenhagen, Denmark, 1 September 2015
- 2015 "Asymmetry of the Vertebral Body and Pedicles in the True Transverse Plane in Adolescent Idiopathic Scoliosis", Annual Meeting of the Nordic Spinal Deformities Society (NSDS), Amsterdam, The Netherlands, 27-29 August 2015
- 2015 "Adult Onset De Novo Scoliosis: Pathophysiology and Classification", Invited lecture, 16th National Mexican Society (AMCICO) and Scoliosis Research Society (SRS) Combined Meeting, Puerto Vallarta Jalisco, Mexico, 2-5 juli 2015
- 2015 "Differences in Pelvic Alignment Between Scoliotic and Non-Scoliotic Patients", Invited lecture, 16th National Mexican Society (AMCICO) and Scoliosis Research Society (SRS) Combined Meeting, Puerto Vallarta Jalisco, Mexico, 2-5 juli 2015

- 2015 "The Benefit of Bracing in Adolescent Idiopathic Scoliosis", Invited lecture, 16th National Mexican Society (AMCICO) and Scoliosis Research Society (SRS) Combined Meeting, Puerto Vallarta Jalisco, Mexico, 2-5 juli 2015
- 2015 "How Idiopathic is Idiopathic Scoliosis?", Invited lecture, 16th National Mexican Society (AMCICO) and Scoliosis Research Society (SRS) Combined Meeting, Puerto Vallarta Jalisco, Mexico, 2-5 juli 2015
- 2015 "Pelvic morphology in the sagittal plane in adults", Invited lecture, 16th National Mexican Society (AMCICO) and Scoliosis Research Society (SRS) Combined Meeting, Puerto Vallarta Jalisco, Mexico, 2-5 juli 2015
- 2015 "Patho-etiology of Adolescent Idiopathic Scoliosis", Invited keynote lecture, 14th International Phillip Zorab Symposium/British Scoliosis Research Foundation, Edinburgh, Verenigd Koninkrijk, 11-12 juni 2015
- 2015 "Asymmetry of the Vertebral Body and Pedicles in the True Transverse Plane in Adolescent Idiopathic Scoliosis", Podium presentation, 14th International Phillip Zorab Symposium/British Scoliosis Research Foundation, Edinburgh, United Kingdom, 11-12 juni 2015
- 2015 "Predicted outcomes and possible complications: what to expect from different growth-sparing techniques", Invited speaker 34th Annual Meeting European Paediatric Orthopaedic Society, Marseille, France, April 15-18, 2015
- 2015 "Sagittal Differences in Lenke Typos", "Is the Sagittal Plane Adequately Addressed in AIS?", Invited speaker Meeting of the Minds, Venice, Italy, April 9-10, 2015
- 2015 "Patho-etiology of AIS, Invited speaker 'Evidence-Based Pediatric Spinal Deformity Care', 20th Anniversary Harms Study Group, Las Vegas, Nevada, USA, January 24, 2015
- 2014 "Patho-etiology of AIS", 'Réunion Annuelle de la Fondation Yves Cotrel', Paris, France, November 19-20, 2014
- 2014 "From Three-Dimensional Deformity in Scoliosis to Normal Spinal Configuration", Invited speaker Department of Orthopaedics and Traumatology, Prince of Wales Hospital, The Chinese University of Hong Kong, Shatin, Hong Kong, November 18-19, 2014
- 2014 "Quantitative Analysis of the Three-Dimensional Morphology of Adolescent Idiopathic Scoliosis (AIS) with Implications for Surgical Strategy", 49th Annual Meeting Scoliosis Research Society, Anchorage, Alaska, USA, September 10-13, 2014
- 2014 "How 'idiopathic' is adolescent idiopathic scoliosis? A systematic review on associated abnormalities", "The True Three-Dimensional Morphology of AIS", "A Computed Tomography-Based Study on Asymmetry and Intrinsic Torsion of the Intervertebral Discs versus Vertebral bodies in AIS", Annual Congress of the Nordic Spinal Deformities Society, Oslo, Norway, August 28-30, 2014
- 2014 "Three-Dimensional Correction of Idiopathic Scoliosis: Is it possible and what is the benefit for the patient?", Invited speaker 10th Meeting of the International Research Society of Spinal Deformities', Sapporo, Japan, June 29 - July 2, 2014
- 2014 "Surgical Site Infections in Spine Surgery", Invited speaker 'Spinal Deformity Complications and Revisions: Lessons Learned', Dublin, Ireland, March 6-7, 2014
- 2013 "Neuromonitoring in Spine Surgery", "Determining fusion levels in AIS and curve correction strategies", Pediatric Spine Deformity Course Medtronic, Amsterdam and Leiden, The Netherlands, November 28-29, 2013
- 2013 Pediatric Spinal Deformity, On the Cutting Edge IV, Harms Study Group, Coral Gables, Florida, USA, April 12-13, 2013
- 2013 "Sagittal differences in Lenke Classification types", "Spinal deformity in VCF (22q11 deletion syndrome)", Invited Speaker K2M's Meeting of the Mind, Rome, Italy, March 15-16, 2013
- 2013 Visiting Professor Chines University of Hong Kong, "Etio-pathogenesis of idiopathic scoliosis", "Pre-existent rotation of the normal infantile, Juvenile and Adolescent Spine in relation to closure of the neuro-central junction at different ages", Hong Kong, China, January 10-16, 2013
- 2012 "Sagittal Spinal Profile and Spinopelvic balance in parents of scoliotic children, as compared to normal controls", "Scoliosis in the 22q11 deletion syndrome", The 19th International Meeting of Advanced Spine Techniques, Istanbul, Turkey, July 18-21, 2012
- 2012 "Pre-existent rotation of the normal spine at different ages and its consequences for the scoliotic mechanism", International Research Society of Spinal Deformities, 9th biennial Scientific Meeting, Poznan, Poland, July 1-4, 2012
- 2012 "Side bending" Adolescent Idiopathic Scoliosis, Spineweek 2012, Amsterdam, the Netherlands, May 28 – June 1, 2012
- 2012 "Thoracic hypokyphosis and proximal junctional kyphosis after pedicle screw instrumentation", Invited speaker Dutch Deformity Meeting, The Netherlands, March 30, 2012
- 2011 "Etio-pathogenesis of AIS", Winter University London, United Kingdom, December 1-2, 2011
- 2011 "Myelopathy in Deformity", Invited Speaker Eurospine Milan, Italy, October 19-21, 2011
- 2011 "Scoliosis and foot deformity in Friedreich's Ataxia", Vereniging Spierziekten Nederland, the Netherlands, September 24, 2011
- 2011 SRS Think Tank at the IMAST Copenhagen, Denmark, July 14-16, 2011
- 2010 Analysis of pre-existent vertebral rotation in the normal infantile, juvenile and adolescent spine, MMA Janssen, JWM Kouwenhoven, TPC Schlösser, MA Viergever, LW Bartels, RM Castelein, KL Vincken at the Eurospine Annual Meeting 2010, Austria, Vienna, September 15–17, 2010:
- 2010 Analysis of pre-existent vertebral rotation in the normal infantile, juvenile and adolescent spine, MMA Janssen, JWM Kouwenhoven, TPC Schlösser, MA Viergever, LW Bartels, RM Castelein, KL Vincken at the 45th Annual Meeting & Combined Course Kyoto, Japan, September 21-24, 2010
- 2010 Excess of dorsally directed shear loads acting on a pre- rotated growing spine: a hypothesis on the

- pathogenesis of idiopathic scoliosis. RM Castelein, MMA Janssen, at the 8th International Research Society of Spinal Deformities (IRSSD) meeting, Canada, Montréal July 1-3, 2010:
- 2010 Pre-existent vertebral rotation in the human spine depends on body position. MMA Janssen, KL Vincken, B Kemp, M Obradov, M de Kleuver, MA Viergever, RM Castelein, LW Bartels, at the 8th International Research Society of Spinal Deformities (IRSSD) meeting, Canada, Montréal July 1-3, 2010:
- 2010 "Etiopathogenesis of Idiopathic Scoliosis; Biomechanical Aspects" at the IMAST Toronto
- 2009 "Conservative Treatment for Idiopathic Scoliosis; What's the evidence" at the International Scoliosis Symposium, Prague, Czech Republic
- 2009 "Less invasive treatment of pathological vertebral fractures" at the EuroSpine Meeting, Warsaw, Poland
- 2009 "Differences in Male and Female Spino-Pelvic Alignment in Asymptomatic Young Adults" at the EuroSpine Meeting, Warsaw, Poland
- 2009 "Classification of wrist fractures" at the AO/ASIF Meeting on Fractures of the Hand and Wrist, Vianen, Netherlands.
- 2009 "Fractures of the Proximal Femur and Epiphysiolysis" at the AO/ASIF Meeting on Paediatric Fractures, Oosterwijk, The Netherlands.
- 2009 "Pre-existent vertebral rotation in the human spine is influenced by body position" and "Differences in Male and Female Spino-Pelvic Alignment in Asymptomatic Young Adults" at the Annual Meeting Scoliosis Research Society, San Antonio, USA
- 2009 "Pre-existent vertebral rotation in the human spine is influenced by body position" and "Differences in Male and Female Spino-Pelvic Alignment in Asymptomatic Young Adults" at the International Meeting on Advanced Spine Techniques, Vienna, Austria
- 2009 "Pre-existent vertebral rotation in the human spine is influenced by body position" and "Differences in Male and Female Spino-Pelvic Alignment in Asymptomatic Young Adults" at the Global Spine Congress (AO-Spine), San Francisco, USA
- 2009 "Pre-existent vertebral rotation in the human spine is influenced by body position" and "Differences in Male and Female Spino-Pelvic Alignment in Asymptomatic Young Adults" at the North American Spine Society, Rio Grande, Puerto Rico
- 2009 "Differences in Male and Female Spino-Pelvic Alignment in Asymptomatic Young Adults" at the Annual Meeting Orthopaedic Research Society, Las Vegas, USA
- 2008 "Differences in Male and Female Spino-Pelvic Alignment in Asymptomatic Young Adults" at the Réunion Annuelle de la Fondation Yves Cotrel, Paris, France
- 2008 "Effects of Dorsal versus Ventral Shear Loads on the Rotational Stability of the Thoracic Spine – A Biomechanical Porcine and Human Cadaveric Study" at the Worldwide Meeting of the Scoliosis Research Society (SRS), New Delhi, India
- 2008 "Effects of Dorsal versus Ventral Shear Loads on the Rotational Stability of the Thoracic Spine – A Biomechanical Porcine and Human Cadaveric Study" at the SpineWeek, Geneva, Switzerland
- 2008 "Effects of Dorsal versus Ventral Shear Loads on the Rotational Stability of the Thoracic Spine – A Biomechanical Porcine and Human Cadaveric Study" at the Orthopaedic Research Society (ORS), San Francisco, California, USA
- 2007 "The Relation between Organ Anatomy and Pre-existent Vertebral Rotation in the Normal Spine – MRI Study in Persons with Situs Inversus Totalis (SIT)" at the Orthopaedic Research Society (ORS), San Diego, California, USA
- 2006 "The Relation between Organ Anatomy and Pre-existent Vertebral Rotation in the Normal Spine – MRI Study in Persons with Situs Inversus Totalis (SIT)" at the Annual Meeting of the EuroSpine, Istanbul, Turkey
- 2006 "Analysis of Pre-existent Vertebral Rotation in the Normal Spine" at the Orthopaedic Research Society (ORS), Chicago, Illinois, USA
- 2005 "Analysis of Pre-existent Vertebral Rotation in the Normal Spine" at the Annual Meeting of the Scoliosis Research Society (SRS), Miami, Florida, USA
- 2005 "Analysis of Pre-existent Vertebral Rotation in the Normal Spine" at the Annual Meeting of the EuroSpine, Barcelona, Spain
- 2005 "Analysis of Pre-existent Vertebral Rotation in the Normal Spine" at the Harrington Spine Symposium in Kansas City, Kansas, USA
- 2004 "Analysis of Pre-existent Vertebral Rotation in the Normal Spine" at the combined meeting of the American Academy of Orthopaedic Surgeons & the Paediatric Orthopaedic Society of North America, Orlando, Florida, USA