



Personal data

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Employment: Aarhus University Hospital, Department of Orthopaedic Surgery,
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Education

1994: Specialist in Orthopaedic surgery
1994: DMSc, University of Aarhus, Denmark
1983: MD, University of Aarhus, Denmark

Scientific positions

2007-2010: Head of graduate programme within clinical medicine, University of Aarhus
2005: **Full clinical Professorship** in Orthopaedic Surgery, Aarhus University Hospital
2003: **Honorary professor**, Department of Orthopaedic Surgery, University of Minnesota, USA
2001: **Clinical professor** in Orthopaedics, Aarhus University Hospital (5 years)
1998: Nominated number one for a full clinical professorship in Orthopaedics, University of CPH
1998: Associate professor, Danish Institute for Health Technology Assessment (DIHTA)
1998: Associate professor, Aarhus University Hospital
1995: Assisting professor, Aarhus University Hospital
1994: Research and clinical fellowship, Dept. of Orthopaedics, University of Minnesota, USA
1987: Research Fellowship in Orthopaedics, Aarhus University Hospital

Bibliography

Peer-reviewed papers: 458
Citations: 9375
H-index: 53
Invited lectures: 230
Book chapters: 14
Book chapters in teaching books: 3 (coeditor of Ortopædisk Kirurgi by Otto Sneppen)

Current research interest

Experimental basic research in implant fixation, ceramic coatings, bone grafting, growth factors, cytokines, wear debris, nano science, tissue engineering, therapeutic peptides, gene technology, stem cells, clinical studies of total joints, epidemiology of osteoarthritis, clinical databases, fast-track programmes and health economic research.

Member of evaluation committees of scientific theses

DMSc theses: 5 theses
PhD theses: 42 theses
Diploma theses: 32 theses

Awards

Honorary Award from Generalkonsul Ernst Carlsens Fond 2016 (40,000 DKK)
Queen Ingrid's Research Prize 2009 (100,000 DKK)
Best poster, Danish Orthopaedic Society, 2005, 2008, 2009, 2011
Award Paper, Danish Orthopaedic Society, 1995, 1997, 1998, 2000, 2001, 2002, 2004, 2007, 2011
Best Poster Award, PhD Day, Aarhus University, 2006, 2007, 2009, 2012
Kappa Delta Award, Orthopaedic Research Society 2005
William Harris Award, Washington DC, 2005 (5,000 USD)
Award paper. Hip International, Baveno 2002
Acta Orthopaedica Scandinavica Award article year 2000, 2002 (2 x 10,000 USD)
Young investigator award. Combined Orthopaedic Research Society Meeting, Hamamatsu, Japan, 1997
Young investigator award. Orthopaedic Research Society, Atlanta, 1997
European Society of Biomechanics (ESB) Research Award for 1996
European Society for Biomaterials award. Amsterdam, 1988

Memberships

Treasurer of the European Hip Society
Member of the Danish Orthopaedic Society
Member of the European Orthopaedic Research Society
Member of the Orthopaedic Research Society
Member of the Research Council of the Danish Rheumatism Association
Member of the Danish Steering Committee of "The Bone and Joint Decade 2000-2010"
Member of the Danish Standards Association, representing Danish orthopaedic surgery
Member of the Committee on Good Clinical Practice, University of Aarhus
Member of the Danish Medico-legal Council
Member of the Executive Committee, iNano Center, University of Aarhus 2002
Member of the Steering Committee, Ganganalyselaboratoriet, Hammel
Member of the Steering Committee, Orthopaedic Joint Database
Member of the Board of Directors, Peter Ryholt's Trust Fund
Member of the Board (chairman), Ortopædkirurgisk Forskningsfond i Aarhus og Thomasens Legat
Aarhus Mountain Bike Club
President of the Nordic Orthopaedic Federation's Congress in Aarhus, 2010
Member of the Editorial Board, Acta Orthopaedica Scandinavica
Honorary Member of The British Hip Society, 2012

Selection committees

Chief Physician, Frederiksberg Hospital, 2009
Associated professorship in orthopedic surgery, University of Aarhus, 2009
Professor in orthopaedics, University of Aarhus, 2007
Associated professorship, University of Aarhus, 2006
Professor in orthopaedics, University of Oslo, Norway, 2004
Professorship in sensory motor function, Aarhus University Hospital, 2004
Professorship in pathology, University of Aarhus, 2004
Associated professorship, University of Aarhus, 2003
Associated professorship, University of Aarhus, 2002

Theses from the Orthopaedic Research Group (and Supervisor Experience)**DMSc theses:**

	Completed
1. Kjeld Søballe	1994
2. Martin Lind	1998
3. Søren Overgaard	2000
4. Steffen Jacobsen	2006
5. Michael Ulrich-Vinter	2007
6. Anders Troelsen	2012
7. Inger Mechlenburg	2016
8. Thomas Jakobsen	2019

PhD projects:

	Completed
9. Martin Lind	1996
10. Ole Rahbek	2002
11. Michel Ulrich-Vinther	2002
12. Søren Kold	2003
13. Thomas Bo Jensen	2003
14. Brian Elmegaard	2004
15. Marianne Nygaard	2005
16. Mogens Berg Laursen	2005
17. Alma B. Pedersen	2006
18. Berit Zippor	2007
19. Mette Ørskov Sjøland	2007
20. Anders Lamberg	2007
21. Inger Mechlenburg	2007
22. Thomas Baad Hansen	2007
23. Mette Krintel Petersen	2008
24. Britta Hørdam	2008
25. Jørgen Baas	2008
26. Stig Jakobsen	2008
27. Kristian Larsen	2008
28. Thomas V. Jacobsen	2008
29. Anders Troelsen	2009
30. Maiken Stilling	2009
31. Thomas H.L. Jensen	2009
32. Kirill Gromov	2009
33. Theis Thillemann	2009
34. Ole Gade Sørensen	2010
35. Tine Steen Rubak	2010
36. Karen V. Andersen	2010
37. Jesper Schønnemann	2010
38. Juozas Petruskevicius	2010
39. Henrik Daugaard	2010
40. Marianne Toft Vestermark	2011
41. Kasra Zainali	2011
42. Mette Koefoed	2011
43. Michael Kjeldager Tjørnild	2011
44. Nina Dyrberg Lorenzen	2012
45. Mette Sørensen	2012
46. Jeppe Barckman	2013
47. Rikke Vestergaard	2013
48. Charlotte Hartig-Andreasen	2013
49. Samir Munir	2013
50. Sys Hasslund	2014
51. Anette Liljensøe	2014
52. Lone Ramer Mikkelsen	2014
53. Birgit Skoffer	2015
54. Jeppe Lange	2015

55. Karen Toftdahl Bjørnholdt	2015
56. Mikkel Tøttrup	2015
57. Sepp de Raedt	2016
58. Jennie M.C. Strid	2017
59. Marie Bagger Bohn	2017
60. Rehne Lessmann Hansen	2017
61. Pia Kjær Kristensen	2017
62. Rasmus Cleemann	2017
63. Niels Dalsgaard Nielsen	2018
64. Thomas Dahl Nielsen	2018
65. Mette Holm Hjorth	2018
66. Signe Kierkegaard	2018
67. Julie Sandell Jacobsen	2018
68. Mats Bue	2019
69. Thomas Falstie-Jensen	2019
70. Helle Østergaard	2020
71. Peter Bo Jørgensen	2021
72. Pelle Emil Hanberg	2021
73. Lisa Cecilie Urup Reimer	in progress
74. Kaj Døssing	in progress

Diploma projects (research year):

	Completed
1. Martin Lind	1991
2. Ejnar Larse	1991
3. Ole Rahbek	1996
4. Thomas Bo Jensen	1998
5. Marianne Toft	2001
6. Thomas Andersen	2002
7. Carsten Stengaard	2003
8. Mette Koefoed	2004
9. Helle Dahl Pedersen	2004
10. Dea Mathiesen	2005
11. Thomas V. Jacobsen	2005
12. Helene Juhl	2005
13. Charlotte Eriksen	2005
14. Kirill Gromov	2005
15. Martin Skøtt	2005
16. Lilli Ørris Skov	2005
17. Kim Gerloev	2005
18. Stefan Stender	2006
19. Christian Rahbek	2006
20. Lars Mikael Stensman	2006
21. Gitte Refsgård	2006
22. Karen Toftdahl	2006
23. Sys Hasslund	2007
24. Lise Beier Ommen	2007
25. Sidsel Hastrup	2007
26. Kasra Zainali	2007
27. Mette Lind Cole	2007
28. Kirsten Jellesmark	2007
29. Marie Bak	2008
30. Kristian Behrndtz	2008
31. Rikke Vestergaard	2008
32. Mikkel Saksø Mortensen	2009
33. Henrik Saksø	2009
34. Andreas West	2011
35. Nina Gedbjerg	2012
36. Lars Lykke Hermansen	2012

37. Mette Holm Hjorth	2013
38. Finn Sørensen	2014
39. Henrik Jonathan Münch	2015
40. Mats Bue	2015
41. Pelle Emil Hanberg	2015
42. Kristian Horsager	2015
43. Søren Reinhold Jakobsen	2016
44. Lars Hansen	2016
45. Karina Nørgaard Linde	2017
46. Charlotte V. Hemmingsen	2017
47. Maja Brøgger Thomassen	2018
48. Josefine Slater	2019
49. Martin Bruun Knudsen	in progress

Master projects (Health Science): **Completed**


1. Peder Berg	2000
2. Eva Natalia Pedersen	2001
3. Inger Mechlenburg	2001
4. Mette Krintel Petersen	2002
5. Conny Madsen	2002

**Funding and grants**

Funded by	Year	Grants (number)	Amount in DKK
The Danish Council for Independent Research Medical Sciences	2002	1	224.944
The Danish Council for Independent Research Medical Sciences	2003	3	1.476.818
The Danish Council for Independent Research Medical Sciences	2004	4	780.858
Aase og Ejnar Danielsen Foundation	2004	1	100.000
The Danish Council for Independent Research Medical Sciences	2005	5	1.392.608
A.P. Møller Foundation	2005	1	10.218.000
The Lundbeck Foundation	2005	1	750.000
The Danish Rheumatism Association	2005	1	100.000
The Research Foundation Aarhus University	2005	1	110.832
The Danish Council for Independent Research Medical Sciences	2006	2	420.888
Institute of Clinical Medicine	2006	1	120.000
The Danish Rheumatism Association	2006	5	1.070.000
Karen Elise Jensens Foundation	2007	1	1.000.000
The Danish Council for Independent Research Medical Sciences	2007	3	2.124.000
The Danish Rheumatism Association	2007	3	566.175
Aase og Ejnar Danielsen Foundation	2007	2	200.000
Augustinus Foundation	2007	1	100.000
The Danish Rheumatism Association DORG	2008	1	484.000
The Danish Rheumatism Association	2008	4	951.500
The Lundbeck Foundation	2008	1	34.650.000
Sahva Foundation	2009	1	100.000
The Health Insurance Foundation	2009	1	300.000
The Danish Rheumatism Association	2009	1	100.000
The Danish Council for Technology and Innovation	2009	1	18.500.000
Furlong Research Charitable Foundation (UK)	2009	1	1.073.559
Institute of Clinical Medicine	2009	1	200.000
The Danish Council for Independent Research Medical Sciences	2009	1	139.185
Institute of Clinical Medicine	2010	1	200.000
The Riisfort Foundation	2010	1	232.217
The Asker Larsen Foundation	2011	1	1.496.705
The Toyota Foundation	2011	1	100.000
The Aarhus University Research Foundation	2011	1	312.000
The Lundbeck Foundation	2011	1	110.400
Aarhus University Hospital, Spydspidspuljen	2012	1	1.500.000
The Danish Council for Independent Research Technology and Production Sciences	2012	1	5.037.343
P. A. Messerschmidt og Hustrus Foundation	2012	1	105.000
Aarhus University Hospital, Internationaliseringspuljen	2013	1	160.000
The Danish National Advanced Technology Foundation	2013	1	15.000.000
The Novo Nordisk Foundation	2017	2	893.139
Læge Sofus Carl Emil Friis og Hustru Olga Doris Friis' legat	2017	1	250.000
The Novo Nordisk Foundation	2018	1	150.000
Civilingeniør Frode V. Nyegaard og Hustru's Fond	2019	1	185.056
Augustinus Fonden	2019	1	300.000
The Novo Nordisk Foundation	2019	1	147.832
Kirsten og Freddy Johansens Fond	2020	1	308.763

Published Items and Citations in each year from Web of Science

Total Publications



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Citations



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**Original publications the last 5 years (2015 – July 2020)****2015**

334. Munch HJ, Jacobsen SS, Olesen JT, Menne T, Soballe K, Johansen JD, Thyssen JP. The association between metal allergy, total knee arthroplasty, and revision: study based on the Danish Knee Arthroplasty Register. *Acta Orthop* 2015;86:378-83. Epub 2015 Jan 13
335. Vestergaard RF, Bruel A, Thomsen JS, Hauge EM, Soballe K, Hasenkam JM. The Influence of Hemostatic Agents on Bone Healing After Sternotomy in a Porcine Model. *Ann Thorac Surg* 2015;99:1005-11.
336. Jorgensen CC, Madsbad S, Kehlet H. Postoperative morbidity and mortality in type-2 diabetics after fast-track primary total hip and knee arthroplasty. *Anesth Analg* 2015;120:230-8.
337. Skoffer B, Dalgas U, Mechlenburg I, Soballe K, Maribo T. Functional performance is associated with both knee extensor and flexor muscle strength in patients scheduled for total knee arthroplasty: A cross-sectional study. *J Rehabil Med* 2015;47:454-9.
338. Husted H, Jorgensen CC, Gromov K, Troelsen A. Low manipulation prevalence following fast-track total knee arthroplasty. *Acta Orthop* 2015;86:86-91.
339. Mechlenburg I, Nyengaard JR, Gelineck J, Soballe K. Cartilage Thickness and Cyst Volume Are Unchanged 10 Years After Periacetabular Osteotomy in Patients Without Hip Symptoms. *Clin Orthop Relat Res* 2015;473:2644-9.
340. Martinkevich P, Rahbek O, Moller-Madsen B, Soballe K, Stilling M. Precise and feasible measurements of lateral calcaneal lengthening osteotomies by radiostereometric analysis in cadaver feet. *Bone Joint Res* 2015;4:78-83.
341. Jorgensen CC, Jans O, Kehlet H. Preoperative anaemia and newly diagnosed cancer 1 year after elective total hip and knee arthroplasty. *Vox Sang* 2015;109:62-70.
342. Lange J, Pedersen AB, Troelsen A, Soballe K. Do hip prosthesis related infection codes in administrative discharge registers correctly classify periprosthetic hip joint infection? *Hip Int* 2015;0.
343. Kierkegaard S, Jorgensen PB, Dalgas U, Soballe K, Mechlenburg I. Pelvic movement strategies and leg extension power in patients with end-stage medial compartment knee osteoarthritis: a cross-sectional study. *Arch Orthop Trauma Surg* 2015;135:1217-26.
344. Jakobsen T, Bechtold JE, Soballe K, Jensen T, Greiner S, Vestermark MT, Baas J. Local delivery of zoledronate from a poly (D,L-lactide)-coating increases fixation of press-fit implants. *J Orthop Res* 2015.
345. Andersen KV, Nikolajsen L, Daugaard H, Andersen NT, Haraldsted V, Soballe K. Local infiltration analgesia is not improved by postoperative intra-articular bolus injections for pain after total hip arthroplasty. *Acta Orthop* 2015;1-7.
346. Bue M, Birke-Sorensen H, Thillemann TM, Hardlei TF, Soballe K, Tottrup M. Single-dose pharmacokinetics of vancomycin in porcine cancellous and cortical bone determined by microdialysis. *Int J Antimicrob Agents* 2015.
347. Bjornholdt KT, Jensen JM, Bendtsen TF, Soballe K, Nikolajsen L. Local infiltration analgesia versus continuous interscalene brachial plexus block for shoulder replacement pain: a randomized clinical trial. *Eur J Orthop Surg Traumatol* 2015.
348. Birn I, Mechlenburg I, Liljensoe A, Soballe K, Larsen JF. The Association Between Preoperative Symptoms of Obesity in Knee and Hip Joints and the Change in Quality of Life After Laparoscopic Roux-en-Y Gastric Bypass. *Obes Surg* 2015.

349. Kierkegaard S, Lund B, Dalgas U, Sorensen H, Soballe K, Mechlenburg I. The Horsens-Aarhus Femoro Acetabular Impingement (HAFAI) cohort: outcome of arthroscopic treatment for femoroacetabular impingement. Protocol for a prospective cohort study. *BMJ Open* 2015;5:e008952.
350. Skalshoi O, Iversen CH, Nielsen DB, Jacobsen J, Mechlenburg I, Soballe K, Sorensen H. Walking patterns and hip contact forces in patients with hip dysplasia. *Gait Posture* 2015
351. Hjorth MH, Stilling M, Soballe K, Bolvig LH, Thyssen JP, Mechlenburg I, Jakobsen SS. No association between pseudotumors, high serum metal-ion levels and metal hypersensitivity in large-head metal-on-metal total hip arthroplasty at 5-7-year follow-up. *Skeletal Radiol* 2016;45:115-25.
352. Kraemer O, Soballe K. Rapid development of osteoarthritis following arthroscopic resection of an "os acetabuli" in a mildly dysplastic hip—a case report. *Acta Orthop* 2015;86:760.
353. Kristensen PK, Thillemann TM, Soballe K, Johnsen SP. Can improved quality of care explain the success of orthogeriatric units? A population-based cohort study. *Age Ageing* 2015.
354. Hanberg P, Bue M, Sorensen HB, Soballe K, Tottrup M. Pharmacokinetics of single dose cefuroxime in porcine intervertebral disc and vertebral cancellous bone determined by microdialysis. *Spine J* 2015.
355. Jakobsen T, Kold S, Baas J, Soballe K, Rahbek O. Sheep Hip Arthroplasty Model of Failed Implant Osseointegration. *Open Orthop J* 2015;9:525-9.
356. Skoffer B, Maribo T, Mechlenburg I, Hansen PM, Soballe K, Dalgas U. Efficacy of pre-operative progressive resistance training on post-operative outcomes in patients undergoing total knee arthroplasty. *Arthritis Care Res (Hoboken)* 2015.
357. Hartig-Andreasen C, Troelsen A, Thillemann TM, Gelineck J, Soballe K. Risk factors for the need of hip arthroscopy following periacetabular osteotomy. *J Hip Preserv Surg* 2015;2:374-84.

2016

358. Bechtold JE, Swider P, Goreham-Voss C, Soballe K. Experimental and Numerical Models of Complex Clinical Scenarios; Strategies to Improve Relevance and Reproducibility of Joint Replacement Research. *J Biomech Eng* 2016;138.
359. Jorgensen CC, Petersen MA, Kehlet H. Preoperative prediction of potentially preventable morbidity after fast-track hip and knee arthroplasty: a detailed descriptive cohort study. *BMJ Open* 2016;6:e009813.
360. Mikkelsen LR, Petersen AK, Mechlenburg I, Mikkelsen S, Soballe K, Bandholm T. Description of load progression and pain response during progressive resistance training early after total hip arthroplasty: Secondary analyses from a randomized controlled trial. *Clin Rehabil* 2016.
361. Jakobsen T, Bechtold JE, Soballe K, Jensen T, Vestermark MT, Baas J. Local delivery of zoledronate from a poly (D,L-lactide)-coating increases fixation of hydroxy-coated implants. *J Orthop Res* 2016.
362. Tottrup M, Bue M, Koch J, Jensen LK, Hanberg P, Aalbaek B, Fuursted K, Jensen HE, Soballe K. Effects of Implant-Associated Osteomyelitis on Cefuroxime Bone Pharmacokinetics: Assessment in a Porcine Model. *J Bone Joint Surg Am* 2016;98:363-9.
363. Jorgensen PB, Bogh SB, Kierkegaard S, Sorensen H, Odgaard A, Soballe K, Mechlenburg I. The efficacy of early initiated, supervised, progressive resistance training compared to unsupervised, home-based exercise after unicompartmental knee arthroplasty: A single-blinded randomized controlled trial. *Clin Rehabil* 2016.
364. Kristensen PK, Thillemann TM, Soballe K, Johnsen SP. Are process performance measures associated with clinical outcomes among patients with hip fractures? A population-based cohort study. *Int J Qual Health Care* 2016.

365. Lange J, Troelsen A, Soballe K. Chronic Periprosthetic Hip Joint Infection. A Retrospective, Observational Study on the Treatment Strategy and Prognosis in 130 Non-Selected Patients. *PLoS One* 2016;11:e0163457.
366. Hjorth MH, Stilling M, Soballe K, Nielsen PT, Christensen PH, Kold S. Preparation of the femoral bone cavity in cementless stems: broaching versus compaction. *Acta Orthop* 2016;87:575-82.
367. Martinkevich P, Rahbek O, Stilling M, Pedersen LK, Gottliebsen M, Soballe K, Moller-Madsen B. Is structural hydroxyapatite tricalcium-phosphate graft or tricortical iliac crest autograft better for calcaneal lengthening osteotomy in childhood? interim results from a randomised, controlled non-inferiority study. *Bone Joint J* 2016;98-B:1554-62.
368. Kristensen PK, Thillemann TM, Pedersen AB, Soballe K, Johnsen SP. Socioeconomic inequality in clinical outcome among hip fracture patients: a nationwide cohort study. *Osteoporos Int* 2017;28:1233-43.
369. Jensen LK, Koch J, Dich-Jorgensen K, Aalbaek B, Petersen A, Fuursted K, Bjarnsholt T, Kragh KN, Totterup M, Bue M, Hanberg P, Soballe K, Heegaard PM, Jensen HE. Novel porcine model of implant-associated osteomyelitis: A comprehensive analysis of local, regional, and systemic response. *J Orthop Res* 2016.
370. Vesterby MS, Pedersen PU, Laursen M, Mikkelsen S, Larsen J, Soballe K, Jorgensen LB. Telemedicine support shortens length of stay after fast-track hip replacement. *Acta Orthop* 2017;88:41-7.
371. Hjorth MH, Kold S, Soballe K, Langdahl BL, Nielsen PT, Christensen PH, Stilling M. Preparation of the Femoral Bone Cavity for Cementless Stems: Broaching vs Compaction. A Five-Year Randomized Radiostereometric Analysis and Dual Energy X-Ray Absorption Study. *J Arthroplasty* 2016.
372. Hjorth MH, Egund N, Mechlenburg I, Gelineck J, Jakobsen SS, Soballe K, Stilling M. Does a titanium sleeve reduce the frequency of pseudotumors in metal-on-metal total hip arthroplasty at 5-7years follow-up? *Orthop Traumatol Surg Res* 2016;102:1035-41.

2017

373. Baas J, Vestermark M, Jensen T, Bechtold J, Soballe K, Jakobsen T. Topical bisphosphonate augments fixation of bone-grafted hydroxyapatite coated implants, BMP-2 causes resorption-based decrease in bone. *Bone* 2017;97:76-82.
374. Gylvin SH, Jorgensen CC, Fink-Jensen A, Johansson PI, Kehlet H. Psychopharmacologic treatment and blood transfusion in fast-track total hip and knee arthroplasty. *Transfusion* 2017;57:971-6.
375. Jorgensen CC, Kehlet H. Time course and reasons for 90-day mortality in fast-track hip and knee arthroplasty. *Acta Anaesthesiol Scand* 2017;61:436-44.
376. El JR, Gustafson MB, Jakobsen MB, Lautrup C, Hertz JM, Soballe K, Mechlenburg I. The association between gender and familial prevalence of hip dysplasia in Danish patients. *Hip Int* 2017;0.
377. Strid JM, Sauter AR, Ullensvang K, Andersen MN, Daugaard M, Bendtsen MA, Soballe K, Pedersen EM, Borglum J, Bendtsen TF. Ultrasound-guided lumbar plexus block in volunteers; a randomized controlled trial. *Br J Anaesth* 2017;118:430-8.
378. Nielsen TD, Moriggl B, Soballe K, Kolsen-Petersen JA, Borglum J, Bendtsen TF. A Cadaveric Study of Ultrasound-Guided Subpectineal Injectate Spread Around the Obturator Nerve and Its Hip Articular Branches. *Reg Anesth Pain Med* 2017.
379. Stentz-Olesen K, Nielsen ET, De RS, Jorgensen PB, Sorensen OG, Kaptein B, Soballe K, Stilling M. Reconstructing the anterolateral ligament does not decrease rotational knee laxity in ACL-reconstructed knees. *Knee Surg Sports Traumatol Arthrosc* 2017

380. Hansen RL, Langdahl BL, Jorgensen PH, Petersen KK, Soballe K, Stilling M. Bone Mineral Density Measurements Around Osseointegrated Implants: A Precision Study and Validation of Scan Protocol for Transfemoral Amputees. *J Clin Densitom* 2017.
381. Strid JM, Pedersen EM, Al-Karradi SN, Bendtsen MA, Bjorn S, Dam M, Daugaard M, Hansen MS, Linnet KD, Borglum J, Soballe K, Bendtsen TF. Real-Time Ultrasound/MRI Fusion for Suprasacral Parallel Shift Approach to Lumbosacral Plexus Blockade and Analysis of Injectate Spread: An Exploratory Randomized Controlled Trial. *Biomed Res Int* 2017;2017:1873209.
382. Kierkegaard S, Mechlenburg I, Lund B, Soballe K, Dalgas U. Impaired hip muscle strength in patients with femoroacetabular impingement syndrome. *J Sci Med Sport* 2017.
383. Hartig-Andreasen C, Nielsen TG, Lund B, Soballe K, Lind M. Outcome after arthroscopic labral surgery in patients previously treated with periacetabular osteotomy: a follow-up study of 43 patients. *J Hip Preserv Surg* 2017;4:67-73.
384. Hjorth MH, Lorenzen ND, Soballe K, Jakobsen SS, Stilling M. Equal Primary Fixation of Resurfacing Stem, but Inferior Cup Fixation With Anterolateral vs Posterior Surgical Approach. A 2-Year Blinded Randomized Radiostereometric and Dual-energy X-Ray Absorptiometry Study of Metal-on-Metal Hip Resurfacing Arthroplasty. *J Arthroplasty* 2017.
385. Linde KN, Puhakka KB, Langdahl BL, Soballe K, Krog-Mikkelsen I, Madsen F, Stilling M. Bone Mineral Density is Lower in Patients with Severe Knee Osteoarthritis and Attrition. *Calcif Tissue Int* 2017.
386. Dossing K, Mechlenburg I, Hansen LB, Soballe K, Ostergaard H. The Use of Ultrasound to Exclude Extremity Fractures in Adults. *JB JS Open Access* 2017;2:e0007.

2018

387. Bue M, Tottrup M, Hanberg P, Langhoff O, Birke-Sorensen H, Thillemann TM, Andersson TL, Soballe K. Bone and subcutaneous adipose tissue pharmacokinetics of vancomycin in total knee replacement patients. *Acta Orthop* 2018;89:95-100.
388. Cleemann R, Sorensen M, Bechtold JE, Soballe K, Baas J. Healing in peri-implant gap with BMP-2 and systemic bisphosphonate is dependent on BMP-2 dose-A canine study. *J Orthop Res* 2018;36:1406-14.
389. Bue M, Hanberg P, Koch J, Jensen LK, Lundorff M, Aalbaek B, Jensen HE, Soballe K, Tottrup M. Single-dose bone pharmacokinetics of vancomycin in a porcine implant-associated osteomyelitis model. *J Orthop Res* 2018;36:1093-8.
390. Skoffer B, Dalgas U, Maribo T, Soballe K, Mechlenburg I. No Exacerbation of Knee Joint Pain and Effusion Following Preoperative Progressive Resistance Training in Patients Scheduled for Total Knee Arthroplasty: Secondary Analyses From a Randomized Controlled Trial. *PM R* 2017.
391. Jakobsen T, Kold S, Shiguetomi-Medina J, Baas J, Soballe K, Rahbek O. Topical zoledronic acid decreases micromotion induced bone resorption in a sheep arthroplasty model. *BMC Musculoskelet Disord* 2017;18:441.
392. Jensen LK, Koch J, Henriksen NL, Bue M, Tottrup M, Hanberg P, Soballe K, Jensen HE. Suppurative Inflammation and Local Tissue Destruction Reduce the Penetration of Cefuroxime to Infected Bone Implant Cavities. *J Comp Pathol* 2017;157:308-16.
393. Poulsen NR, Mechlenburg I, Soballe K, Lange J. Patient-reported quality of life and hip function after 2-stage revision of chronic periprosthetic hip joint infection: a cross-sectional study. *Hip Int* 2017;0.

394. Lange J, Troelsen A, Solgaard S, Otte KS, Jensen NK, Soballe K. Cementless One-Stage Revision in Chronic Periprosthetic Hip Joint Infection. Ninety-One Percent Infection Free Survival in 56 Patients at Minimum 2-Year Follow-Up. *J Arthroplasty* 2018;33:1160-5.
395. Cleemann R, Bechtold JE, Sorensen M, Soballe K, Baas J. Dose-Dependent Resorption of Allograft by rhBMP-2 Uncompensated by New Bone Formation-A Canine Study With Implants and Zoledronate. *J Arthroplasty* 2018;33:1215-21.
396. Nielsen TD, Moriggl B, Barckman J, Kolsen-Petersen JA, Soballe K, Borglum J, Bendtsen TF. The Lateral Femoral Cutaneous Nerve: Description of the Sensory Territory and a Novel Ultrasound-Guided Nerve Block Technique. *Reg Anesth Pain Med* 2018;43:357-66.
397. Jacobsen JS, Holmich P, Thorborg K, Bolvig L, Jakobsen SS, Soballe K, Mechlenburg I. Muscle-tendon-related pain in 100 patients with hip dysplasia: prevalence and associations with self-reported hip disability and muscle strength. *J Hip Preserv Surg* 2018;5:39-46.
398. Hjorth MH, Mechlenburg I, Soballe K, Roemer L, Jakobsen SS, Stilling M. Higher Prevalence of Mixed or Solid Pseudotumors in Metal-on-Polyethylene Total Hip Arthroplasty Compared With Metal-on-Metal Total Hip Arthroplasty and Resurfacing Hip Arthroplasty. *J Arthroplasty* 2018;33:2279-86.
399. Hanberg P, Obrink-Hansen K, Thorsted A, Bue M, Tottrup M, Friberg LE, Hardlei TF, Soballe K, Gjedsted J. Population Pharmacokinetics of Meropenem in Plasma and Subcutis from Patients on Extracorporeal Membrane Oxygenation Treatment. *Antimicrob Agents Chemother* 2018;62.
400. Tjur M, Pedersen AR, Sloth W, Soballe K, Lorenzen ND, Stilling M. Posterior or anterolateral approach in hip joint arthroplasty - Impact on frontal plane moment. *Clin Biomech (Bristol , Avon)* 2018;54:143-50.
401. Jacobsen JS, Bolvig L, Holmich P, Thorborg K, Jakobsen SS, Soballe K, Mechlenburg I. Muscle-tendon-related abnormalities detected by ultrasonography are common in symptomatic hip dysplasia. *Arch Orthop Trauma Surg* 2018.
402. Sorensen H, Nielsen DB, Jacobsen JS, Soballe K, Mechlenburg I. Isokinetic dynamometry and gait analysis reveal different hip joint status in patients with hip dysplasia. *Hip Int* 2018;1120700018773401.
403. Vestergaard RF, Soballe K, Hasenkam JM, Stilling M. Sternal instability measured with radiostereometric analysis. A study of method feasibility, accuracy and precision. *J Cardiothorac Surg* 2018;13:41.
404. Hjorth MH, Mechlenburg I, Soballe K, Jakobsen SS, Roemer L, Stilling M. Physical Activity Is Associated With the Level of Chromium but Not With Changes in Pseudotumor Size in Patients With Metal-on-Metal Hip Arthroplasty. *J Arthroplasty* 2018.
405. De RS, Mechlenburg I, Stilling M, Romer L, Murphy RJ, Armand M, Lepisto J, de BM, Soballe K. Reliability of computer-assisted periacetabular osteotomy using a minimally invasive approach. *Int J Comput Assist Radiol Surg* 2018.
406. Simonsen PO, Herts JM, Soballe K, Mechlenburg I. Association between periacetabular osteotomy and hip dysplasia among relatives: a cross-sectional study. *Hip Int* 2018;1120700018785293.
407. Bue M, Hanberg P, Tottrup M, Thomassen MB, Birke-Sorensen H, Thillemann TM, Andersson TL, Soballe K. Vancomycin concentrations in the cervical spine after intravenous administration: results from an experimental pig study. *Acta Orthop* 2018;1-6.
408. Nielsen TD, Moriggl B, Barckman J, Jensen JM, Kolsen-Petersen JA, Soballe K, Borglum J, Bendtsen TF. Cutaneous anaesthesia of hip surgery incisions with iliohypogastric and subcostal nerve blockade: A randomised trial. *Acta Anaesthesiol Scand* 2018.

409. Mortensen L, Schultz J, Elsner A, Jakobsen SS, Soballe K, Jacobsen JS, Kierkegaard S, Dalgas U, Mechlenburg I. Progressive resistance training in patients with hip dysplasia: A feasibility study. *J Rehabil Med* 2018;50:751-8.
410. Jakobsen SS, Overgaard S, Soballe K, Ovesen O, Mygind-Klavsen B, Dippmann CA, Jensen MU, Sturup J, Retpen J. The interface between periacetabular osteotomy, hip arthroscopy and total hip arthroplasty in the young adult hip. *EFORT Open Rev* 2018;3:408-17.
411. Sandell JJ, Thorborg K, Holmich P, Bolvig L, Storgaard JS, Soballe K, Mechlenburg I. Does the physical activity profile change in patients with hip dysplasia from before to 1 year after periacetabular osteotomy? *Acta Orthop* 2018;89:622-7.
412. Jakobsen SR, Mechlenburg I, Soballe K, Jakobsen SS. What level of pain reduction can be expected up to two years after periacetabular osteotomy? A prospective cohort study of 146 patients. *J Hip Preserv Surg* 2018;5:274-81.
413. Mechlenburg I, Jorgensen PB, Stentz-Olesen K, Tjur M, Grimm B, Soballe K. Leg power, pelvic movement and physical activity after periacetabular osteotomy. A prospective cohort study. *Acta Orthop Belg* 2018;84:163-71.
414. Kierkegaard S, Mechlenburg I, Lund B, Romer L, Soballe K, Dalgas U. Is hip muscle strength normalised in patients with femoroacetabular impingement syndrome one year after surgery?: Results from the HAFAl cohort. *J Sci Med Sport* 2018.
415. Horsager K, Madsen F, Odgaard A, Fink JC, Romer L, Kristensen PW, Kaptein BL, Soballe K, Stilling M. Similar polyethylene wear between cemented and cementless Oxford medial UKA: a 5-year follow-up randomized controlled trial on 79 patients using radiostereometry. *Acta Orthop* 2018;1-12.

2019

416. Kristensen PK, Sjøgaard R, Thillemann TM, Søballe K, Johnsen SP. High quality of care did not imply increased hospital spending- nationwide cohort study among hip fracture patients. *Int J Qual Health Care*. 2019;31:22-29.
417. Stilling M, Mechlenburg I, Jepsen CF, Rømer L, Rahbek O, Søballe K, Madsen F. Superior fixation and less periprosthetic stress-shielding of tibial components with a finned stem versus an I-beam block stem: a randomized RSA and DXA study with minimum 5 years' follow-up. *Acta Orthop*. 2019;90:165-171.
418. Nielsen ND, Runge C, Clemmesen L, Børglum J, Mikkelsen LR, Larsen JR, Nielsen TD, Søballe K, Bendtsen TF. An Obturator Nerve Block does not Alleviate Postoperative Pain after Total Hip Arthroplasty: a Randomized Clinical Trial. *Reg Anesth Pain Med*. 2019 Jan 23. [Epub ahead of print]
419. Jacobsen JS, Søballe K, Thorborg K, Bolvig L, Storgaard Jacobsen S, Hölmich P, Mechlenburg I. Patient-reported outcome and muscle-tendon pain after periacetabular osteotomy are related: 1-year follow-up in 82 patients with hip dysplasia. *Acta Orthop*. 2019;90:40-45.
420. Falstie-Jensen T, Daugaard H, Søballe K, Ovesen J, Arveschoug AK, Lange J; ROSA study group. Labeled white blood cell/bone marrow single-photon emission computed tomography with computed tomography fails in diagnosing chronic periprosthetic shoulder joint infection. *J Shoulder Elbow Surg*. 2019;28:1040-1048.
421. Mechlenburg I, Stilling M, Rømer L, de Bruijne M, Søballe K, de Raedt S. Reference values and variation of acetabular angles measured by computed tomography in 170 asymptomatic hips. *Acta Radiol*. 2019;60:895-901.
422. Jørgensen PB, Lamm M, Søballe K, Stilling M. Equivalent hip stem fixation by Hi-Fatigue G and Palacos R + G bone cement: a randomized radiostereometric controlled trial of 52 patients with 2 years' follow-up. *Acta Orthop*. 2019;90:237-242.

423. Liljensøe A, Laursen JO, Søballe K, Mechlenburg I. Is high body mass index a potential risk factor for poor outcome after hip arthroplasty? A cohort study of 98 patients 1 year after surgery. *Acta Orthop Belg.* 2019;85:91-99.
424. Nielsen TD, Moriggl B, Barckman J, Jensen JM, Kolsen-Petersen JA, Søballe K, Børglum J, Bendtsen TF. Randomized trial of ultrasound-guided superior cluneal nerve block. *Reg Anesth Pain Med.* 2019 May 6 [Epub ahead of print]
425. Møse FB, Mechlenburg I, Hartig-Andreasen C, Gelineck J, Søballe K, Jakobsen SS. High frequency of labral pathology in symptomatic borderline dysplasia: a prospective magnetic resonance arthrography study of 99 patients. *J Hip Preserv Surg.* 2019;6:60-68.
426. Boje J, Caspersen CK, Jakobsen SS, Søballe K, Mechlenburg I. Are changes in pain associated with changes in quality of life and hip function 2 years after periacetabular osteotomy? A follow-up study of 321 patients. *J Hip Preserv Surg.* 2019;6:69-76.
427. Linde KN, Madsen F, Puhakka KB, Langdahl BL, Søballe K, Krog-Mikkelsen I, Stilling M. Preoperative Systemic Bone Quality Does Not Affect Tibial Component Migration in Knee Arthroplasty: A 2-Year Radiostereometric Analysis of a Hundred Consecutive Patients. *J Arthroplasty.* 2019;34:2351-2359.
428. Falstie-Jensen T, Arveschoug AK, Ovesen J, Lange J, Gormsen LC; ROSA study group, Olsen BS, Sørensen AK, Zerahn B, Johanssen HVS, Elmengaard B, Thillemann TM, Bolvig L, Søballe K, Daugaard H. Response to Wouthuyzen-Bakker et al regarding: "Labeled white blood cell/bone marrow single-photon emission computed tomography with computed tomography fails in diagnosing chronic periprosthetic shoulder joint infection". *J Shoulder Elbow Surg.* 2019;28:e252-e254.
429. Hansen RL, Langdahl BL, Jørgensen PH, Petersen KK, Søballe K, Stilling M. Does migration of osseointegrated implants for transfemoral amputees predict later revision? A prospective 2-year radiostereometric analysis with 5-years clinical follow-up. *Orthop Traumatol Surg Res.* 2019;105:1013-1020.
430. Poulsen NR, Mechlenburg I, Søballe K, Troelsen A, Lange J; CORIHA RESEARCH GROUP. Improved Patient-Reported Quality of Life and Hip Function After Cementless 1-Stage Revision of Chronic Periprosthetic Hip Joint Infection. *J Arthroplasty.* 2019;34:2763-2769.e1.
431. Falstie-Jensen T, Lange J, Daugaard H, Vendelbo MH, Sørensen AK, Zerahn B, Ovesen J, Søballe K, Gormsen LC; ROSA study-group. 18F FDG-PET/CT has poor diagnostic accuracy in diagnosing shoulder PJI. *Eur J Nucl Med Mol Imaging.* 2019;46:2013-2022.
432. Hansen RL, Langdahl BL, Jørgensen PH, Petersen KK, Søballe K, Stilling M. Changes in periprosthetic bone mineral density and bone turnover markers after osseointegrated implant surgery: A cohort study of 20 transfemoral amputees with 30-month follow-up. *Prosthet Orthot Int.* 2019;43:508-518.
433. Christiansen RJ, Münch HJ, Bonefeld CM, Thyssen JP, Sloth JJ, Geisler C, Søballe K, Jellesen MS, Jakobsen SS. Cytokine Profile in Patients with Aseptic Loosening of Total Hip Replacements and Its Relation to Metal Release and Metal Allergy. *J Clin Med.* 2019;8.
434. Hanberg P, Lund A, Søballe K, Bue M. Single-dose pharmacokinetics of meropenem in porcine cancellous bone determined by microdialysis: An animal study. *Bone Joint Res.* 2019;8:313-322.
435. Hjorth MH, Mechlenburg I, Søballe K, Roemer L, Stilling M. The correlation between activity level, serum-ion concentrations and pseudotumours in patients with metal-on-metal hip articulations and metal-on-polyethylene total hip articulations. *J Orthop Translat.* 2018;18:74-83. eCollection 2019 Jul.
436. Tøttrup M, Søballe K, Bibby BM, Hardlei TF, Hansen P, Fursted K, Birke-Sørensen H, Bue M. Bone, Subcutaneous Tissue and Plasma Pharmacokinetics of Cefuroxime in Total Knee Replacement Patients - a Randomized Controlled Trial Comparing Continuous and Short-Term Infusion. *APMIS.* 2019;127:779-788.

437. Bizelli-Silveira C, Abildtrup LA, Spin-Neto R, Foss M, Søballe K, Kraft DCE. Strontium enhances proliferation and osteogenic behavior of bone marrow stromal cells of mesenchymal and ectomesenchymal origins in vitro. *Clin Exp Dent Res*. 2019;5:541-550. eCollection 2019 Oct.
438. Mikkelsen LR, Petersen AK, Søballe K, Mikkelsen SS, Mechlenburg I. Asymmetry and pelvic movements 6 months after total hip replacement Secondary analyses from a randomized controlled trial. *Acta Orthop Belg*. 2019;85:338-345.
439. Kipp JO, Lamm M, Søballe K, Jakobsen SS. Periprosthetic hip infection treated with two-stage stage-one Select Spacer- complication rate and restoration of anatomy. *J Orthop*. 2019;18:138-142. eCollection 2020 Mar-Apr.
440. Skoffer B, Maribo T, Mechlenburg I, Korsgaard CG, Søballe K, Dalgas U. Efficacy of preoperative progressive resistance training in patients undergoing total knee arthroplasty: 12-month follow-up data from a randomized controlled trial. *Clin Rehabil*. 2020;34:82-90. Epub 2019 Oct 30.
441. Liljensøe A, Laursen JO, Bliddal H, Søballe K, Mechlenburg I. Weight Loss Intervention Before Total Knee Replacement: A 12-Month Randomized Controlled Trial. *Scand J Surg*. 2019:1457496919883812.
442. Jørgensen PB, Daugaard H, Jakobsen SS, Lamm M, Søballe K, Stilling M. Higher early proximal migration of hemispherical cups with electrochemically applied hydroxyapatite (BoneMaster) on a porous surface compared with porous surface alone: a randomized RSA study with 53 patients. *Acta Orthop*. 2020;91:26-32. Epub 2019 Nov 8.
443. Nielsen ND, Madsen MN, Østergaard HK, Bjørn S, Pedersen EM, Nielsen TD, Søballe K, Børglum J, Bendtsen TF. An iliopsoas plane block does not cause motor blockade-A blinded randomized volunteer trial. *Acta Anaesthesiol Scand*. 2020;64:368-377. Epub 2019 Nov 13.
444. Hanberg P, Bue M, Öbrink-Hansen K, Kabel J, Thomassen M, Tøttrup M, Søballe K, Stilling M. Simultaneous Retrodialysis by Drug for Cefuroxime Using Meropenem as an Internal Standard-A Microdialysis Validation Study. *J Pharm Sci*. 2020;109:1373-1379. Epub 2019 Nov 20.
445. Reimer LCU, Jakobsen SS, Mortensen L, Dalgas U, Jacobsen JS, Soballe K, Bere T, Madsen JE, Nordsletten L, Risberg MA, Mechlenburg I. Efficacy of periacetabular osteotomy followed by progressive resistance training compared to progressive resistance training as non-surgical treatment in patients with hip dysplasia (PreserveHip) - a protocol for a randomised controlled trial. *BMJ Open*. 2019;9:e032782.
446. Bue M, Thomassen MB, Larsen OH, Jørgensen AR, Stilling M, Søballe K, Hanberg P. Local Vancomycin Concentrations after Intra-articular Injection into the Knee Joint: An Experimental Porcine Study. *J Knee Surg*. 2019.

2020

447. Kierkegaard S, Dalgas U, Lund B, Lipperts M, Søballe K, Mechlenburg I. Despite patient-reported outcomes improve, patients with femoroacetabular impingement syndrome do not increase their objectively measured sport and physical activity level 1 year after hip arthroscopic surgery. Results from the HAFAl cohort. *Knee Surg Sports Traumatol Arthrosc*. 2020;28:1639-1647
448. Dippmann C, Albrecht-Olsen P, Boesen M, Chrintz H, Hölmich P, Jakobsen SS, Jørgensen U, Konradsen L, Kraemer O, Lund B, Maagaard N, Mygind-Klavsen B, Overgaard S, Ovesen O, Stürup J, Søballe K, Warming T, Winther N, Krogsgaard M. [Younger patients with hip joint pain]. *Ugeskr Laeger*. 2020;182:V06180432.

-
449. Bræmer CN, Langberg SA, Jakobsen SS, Jakobsen SR, Aleixo H, Søballe K, Mechlenburg I. Does pain and hip function improve 2 years after reverse periacetabular osteotomy? A follow-up study of 74 patients. *J Hip Preserv Surg.* 2020;7:130-139.
450. Thomassen MB, Hanberg P, Stilling M, Petersen KK, Søballe K, Krag LB, Højskov CS, Bue M. Local concentrations of gentamicin obtained by microdialysis after a controlled application of a GentaColl sponge in a porcine model. *J Orthop Res.* 2020;38:1793-1799.
451. Larsen JB, Mechlenburg I, Jakobsen SS, Thilleman TM, Søballe K. 14-year hip survivorship after periacetabular osteotomy: a follow-up study on 1,385 hips. *Acta Orthop.* 2020;91:299-305.
452. Bue M, Hanberg P, Thomassen MB, Tøttrup M, Thillemann TM, Søballe K, Birke-Sørensen H. Microdialysis for the Assessment of Intervertebral Disc and Vertebral Cancellous Bone Metabolism in a Large Porcine Model. *In Vivo.* 2020;34:527-532.
453. Hanberg P, Bue M, Jørgensen AR, Thomassen M, Öbrink-Hansen K, Søballe K, Stilling M. Pharmacokinetics of double-dose cefuroxime in porcine intervertebral disc and vertebral cancellous bone-a randomized microdialysis study. *Spine J.* 2020;20:1327-1332.
454. Sørensen H, Skalshøi O, Nielsen DB, Jacobsen JS, Søballe K, Mechlenburg I. Hip muscle and joint contact forces before, 6 and 12 months after minimally invasive periacetabular osteotomy. *Hip Int.* 2020:1120700020925411.
455. Bue M, Bergholt NL, Jensen LK, Jensen HE, Søballe K, Stilling M, Hanberg P. Inflammatory proteins in infected bone tissue - An explorative porcine study. *Bone Rep.* 2020;13:100292.
456. Morgenstern M, Erichsen C, Militz M, Xie Z, Peng PJ, Stannard J, Metsemakers WJ, Schaefer D, Alt V, Søballe K, Nerlich M, Buckley RE, Blauth M, Suk M, Leung F, Barla JD, Yukata K, Qing B, Kates SL. The AO trauma CPP bone infection registry: Epidemiology and outcomes of *Staphylococcus aureus* bone infection. *J Orthop Res.* 2020.
457. Slater J, Hanberg P, Bendtsen MAF, Jørgensen AR, Greibe E, Søballe K, Bue M, Pedersen Jørgensen N, Stilling M. Effects of rifampicin on moxifloxacin concentrations in porcine cervical spine: a randomized microdialysis study. *J Antimicrob Chemother.* 2020;75:2206-2212.
458. Hanberg P, Bue M, Öbrink-Hansen K, Thomassen M, Søballe K, Stilling M. Timing of Antimicrobial Prophylaxis and Tourniquet Inflation: A Randomized Controlled Microdialysis Study. *J Bone Joint Surg Am.* 2020