



Publikationer fordelt på fagområde/forskningsområde

Hånd/RSA/Mikrodialyse

1. Jørgensen PB, Kaptein BL, Søballe K, Jakobsen SS, Stilling M. Combined and hybrid marker models for radiostereometry assessment of polyethylene liner motion in dual mobility hip prosthesis: a proof-of-concept study. *Eur Radiol Exp.* 2021 Dec 15;5(1):55. doi: 10.1186/s41747-021-00253-x. PMID: 34907467;PMCID: PMC8671599.
2. Okowinski M, Hjorth MH, Mosegaard SB, Jürgens-Lahnstein JH, Storgaard Jakobsen S, Hedevang Christensen P, Kold S, Stilling M. Ten-year comparison of two different techniques for femoral bone cavity preparation-broaching versus compaction in patients with cementless total hip arthroplasty : a randomized radiostereometric study of 30 total hip arthroplasties in 15 patients operated bilaterally. *Bone Jt Open.* 2021 Dec;2(12):1035-1042. doi: 10.1302/2633-1462.212.BJO-2021-0152.R1. PMID: 34865512.
3. Tøstesen SK, Hanberg P, Bue M, Thillemann TM, Falstie-Jensen T, Tøttrup M, Knudsen MB, Schmedes AV, Stilling M. Weight-based cefuroxime dosing provides comparable orthopedic target tissue concentrations between weight groups – a microdialysis porcine study. *APMIS.* 2021 Dec 4. doi: 10.1111/apm.13198. Epub ahead of print. PMID: 34862642.
4. Frandsen CF, Glassou EN, Stilling M, Hansen TB. Malnutrition, poor function and comorbidities predict mortality up to one year after hip fracture: a cohort study of 2800 patients. *Eur Geriatr Med.* 2021 Dec 2. doi: 10.1007/s41999-021-00598-x. Epub ahead of print. PMID: 34854063.
5. Petersen ET, Rytter S, Koppens D, Dalsgaard J, Hansen TB, Larsen NE, Andersen MS, Stilling M. Patients with knee osteoarthritis can be divided into subgroups based on tibiofemoral joint kinematics of gait - an exploratory and dynamic radiostereometric study. *Osteoarthritis Cartilage.* 2021 Oct 29:S1063-4584(21)00942-0. doi: 10.1016/j.joca.2021.10.011. Epub ahead of print. PMID: 34757027.
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7. Breddam Mosegaard S, Rytter S, Madsen F, Odgaard A, Søballe K, Stilling M. Two-year fixation and ten-year clinical outcomes of total knee arthroplasty inserted with normal-curing bone cement and slow-curing bone cement: A randomized controlled trial in 54 patients. *Knee.* 2021 Dec;33:110-124. doi: 10.1016/j.knee.2021.08.027. Epub 2021 Oct 4. PMID: 34619515. Hanberg P, Bue M, Kabel J, Jørgensen AR, Jessen C, Søballe K, Stilling M.
8. Effects of tourniquet inflation on peri- and postoperative cefuroxime concentrations in bone and tissue. *Acta Orthop.* 2021 Dec;92(6):746-752. doi: 10.1080/-17453674.2021.1942620. Epub 2021 Aug 2. PMID: 34334093; PMCID: PMC8635659.
9. Lund A, Hanberg P, Foldager-Jensen AD, Stilling M. Snapping thumb: a rare case of stenosing tenosynovitis of the extensor pollicis longus tendon. *BMJ Case Rep.* 2021 Jun 8;14(6):e241306. doi: 10.1136/bcr-2020-241306. PMID: 34103304; PMCID: PMC8189921.
10. Knudsen M, Bue M, Pontoppidan LL, Hvistendahl MA, Søballe K, Stilling M, Hanberg P. Evaluation of Benzylpenicillin as an Internal Standard for Measurement of Piperacillin Bone Concentrations Via

- Microdialysis. *J Pharm Sci.* 2021 Oct;110(10):3500-3506. doi: 10.1016/j.xphs.2021.06.008. Epub 2021 Jun 5. PMID: 34102200.
11. Olsen Kipp J, Hanberg P, Slater J, Møller Nielsen L, Storgaard Jakobsen S, Stilling M, Bue M. Vancomycin bone and tissue concentrations following tibial intraosseous administration - evaluated in a porcine model. *J Bone Jt Infect.* 2021 Feb 12;6(4):99-106. doi: 10.5194/jbji-6-99-2021. PMID: 34084697; PMCID: PMC8129907.
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 13. Frandsen CF, Glassou EN, Stilling M, Hansen TB. Poor adherence to guidelines in treatment of fragile and cognitively impaired patients with hip fracture: a descriptive study of 2,804 patients. *Acta Orthop.* 2021 Oct;92(5):544-550. doi: 10.1080/17453674.2021.1925430. Epub 2021 May 12. PMID: 33977861; PMCID: PMC8519558.
 14. Mosegaard SB, Stilling M, Breddam M, Hansen TB. Measurement properties of the Danish version of the Boston Carpal Tunnel Questionnaire. *JPRAS Open.* 2021 Apr 3;29:17-25. doi: 10.1016/j.jpra.2021.03.007. PMID: 33997223; PMCID: PMC8099587.
 15. Hanberg P, Bue M, Thomassen M, Løve US, Kipp JO, Harlev C, Petersen E, Søballe K, Stilling M. Influence of anastomoses on intestine ischemia and cefuroxime concentrations: Evaluated in the ileum and colon in a porcine model. *World J Gastrointest Pathophysiol.* 2021 Jan 22;12(1):1-13. doi: 10.4291/wjgp.v12.i1.1. PMID: 33585069; PMCID: PMC7852486.
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 17. Thillemann JK, De Raedt S, Hansen TB, Munk B, Stilling M. Distal radioulnar joint stabilization with open foveal reinsertion versus tendon graft reconstruction: an experimental study using radiostereometry. *J Exp Orthop.* 2021 Feb 4;8(1):10. doi: 10.1186/s40634-021-00329-y. PMID: 33543376; PMCID: PMC7862458.
 18. Hanberg P, Bue M, Kabel J, Jørgensen AR, Søballe K, Stilling M. Tourniquet-induced ischemia and reperfusion in subcutaneous tissue, skeletal muscle, and calcaneal cancellous bone. *APMIS.* 2021 Apr;129(4):225-231. doi: 10.1111/apm.13121. Epub 2021 Feb 23. PMID: 33496970.
 19. Bendtsen MAF, Bue M, Hanberg P, Slater J, Thomassen MB, Hansen J, Søballe K, Öbrink-Hansen K, Stilling M. Flucloxacillin bone and soft tissue concentrations assessed by microdialysis in pigs after intravenous and oral administration. *Bone Joint Res.* 2021 Jan;10(1):60-67. doi: 10.1302/2046-3758.101.BJR-2020-0250.R1. PMID: 33448872; PMCID: PMC7845458.
 20. Ekeloef S, Koyuncu S, Holst-Knudsen J, Gundel O, Meyhoff CS, Homilius M, Stilling M, Ekeloef P, Münster AMB, Mathiesen O, Gögenur I. Cardiovascular events in patients undergoing hip fracture surgery treated with remote ischaemic preconditioning: 1-year follow-up of a randomised clinical trial. *Anaesthesia.* 2021 Aug;76(8):1042-1050. doi: 10.1111/anae.15357. Epub 2021 Jan 13. PMID: 33440017.
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 23. Thillemann JK, Dremstrup L, Hansen TB, Stilling M. The mechanical fixation of a cementless conical cup in cortical versus cancellous trapezium bone: an experimental study. *J Hand Surg Eur Vol.* 2021 Feb;46(2):146-153. doi: 10.1177/1753193420963255. Epub 2020 Oct 20. PMID: 33079604
 24. Christensen R, Petersen ET, Jürgens-Lahnstein J, Rytter S, Lindgren L, De Raedt S, Brüel A, Stilling M. Assessment of knee kinematics with dynamic radiostereometry: Validation of an automated model-

- based method of analysis using bone models. *J Orthop Res.* 2021 Mar;39(3):597-608. doi: 10.1002/jor.24875. Epub 2020 Oct 20. PMID: 33030797
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Idrætstraumatologi

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2. Strauss MJ, Miles JW, Kennedy ML, Dornan GJ, Moatshe G, Lind M, Engebretsen L, LaPrade RF. Full thickness quadriceps tendon grafts with bone had similar material properties to bone-patellar tendon-bone and a four-strand semitendinosus grafts: a biomechanical study. *Knee Surg Sports Traumatol Arthrosc.* 2021 Sep 30. doi: 10.1007/s00167-021-06738-x. Epub ahead of print. PMID: 34591124.
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Ortopædkirurgisk rehabilitering

1. Birch S, Hansen TB, Stilling M, **Mechlenburg I**. Does preoperative pain catastrophizing influence objectively measured physical activity before and after total knee arthroplasty: a prospective cohort study. *Journal for the Measurement of Physical Behaviour* Volume 4 (2021): Issue 1 (Mar 2021) <https://doi.org/10.1123/jmpb.2020-0024>
2. Østergaard CS, Pedersen NSA, Thomasen A, **Mechlenburg I**, Nordbye-Nielsen K. Pain is frequent in children with cerebral palsy and negatively affects physical activity and participation Association between pain and physical activity in children with cerebral palsy. *Acta Paediatr.* 2021 Jan;110(1):301-306.
3. Østergaard HK, Launonen AP, Sumrein BO, Vestermark M,; Paloneva J, Laitinen M, Mattila MV, **Mechlenburg I**. The impact of full-thickness rotator cuff tear on shoulder function and quality of life in patients who sustain a proximal humerus fracture. A prospective cohort study. *JSES International*. Published:December 15, 2021 DOI:<https://doi.org/10.1016/j.jseint.2021.11.003>
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5. Jørgensen SL, Mechlenburg I. Effects of Low-Load Blood-Flow Restricted Resistance Training on Functional Capacity and Patient-Reported Outcome in a Young Male Suffering From Reactive Arthritis. *Front Sports Act Living*. 2021 Dec 20;3:798902. doi: 10.3389/fspor.2021.798902. PMID: 34988436; PMCID: PMC8720780.
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Tumor

1. Pedersen C, Rechnitzer C, Andersen EAW, Kenborg L, Norsker FN, Bautz A, Baad-Hansen T, Tryggvadottir L, Madanat-Harjuoja LM, Holmqvist AS, Hjorth L, Hasle H, Winther JF, On Behalf Of The ALICCS Study Group. Somatic Disease in Survivors of Childhood Malignant Bone Tumors in the Nordic Countries. *Cancers (Basel).* 2021 Sep 7;13(18):4505. doi: 10.3390/cancers13184505. PMID: 34572734; PMCID: PMC8467516.
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Børn

1. Abood AA, Møller-Madsen B, Rölfing JD, Iliadis A, Ramachandran M, Rahbek O. Resection of Tarsal Coalition in 27 Children with 2 Years Follow-Up - Patient-Reported Outcomes Using the Validated Oxford Ankle Foot Questionnaire. *Iowa Orthop J.* 2021 Dec;41(2):6-11. PMID: 34924864; PMCID: PMC8662924.
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5. Larsen LL, Græsholt-Knudsen T, Jørgensen GH, Møller-Madsen B, Hansen OI, Rölfing JD. [Physical abuse of children in Denmark]. *Ugeskr Laeger.* 2021 Mar 1;183(9):V10200795. Danish. PMID: 33734076. Husum HC, Møller-Madsen B, Thomsen JL, Maimburg RD, Rahbek O. [Screening of dysplasia of the hip in Denmark]. *Ugeskr Laeger.* 2021 Mar 22;183(12):V05200371. Danish. PMID: 33829997.
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Traume

1. Bulstra AEJ, Crijns TJ, Janssen SJ, Buijze GA, Ring D, Jaarsma RL, Kerkhoffs GMMJ, Obdeijn MC, Brink O, Doornberg JN; Science of Variation Group. Factors associated with surgeon recommendation for additional cast immobilization of a CT-verified nondisplaced scaphoid waist fracture. *Arch Orthop Trauma Surg*. 2021 Nov;141(11):2011-2018. doi: 10.1007/s00402-021-04062-0. Epub 2021 Jul 24. PMID: 34302522; PMCID: PMC8497306.
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Skulder/albue

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Afsluttede ph.d.-forløb

Navn	Titel	Forsvar	Hovedvejleder
Kris T.C. Hede	Advances in bone marrow-assisted cartilage repair	15.03.21	Martin Lind
Pelle Hanberg	Peri- and post-operative influence of tourniquet application on cefuroxime tissue concentrations and tissue ischemia	23.04.21	Maiken Stilling
Peter Bo Jørgensen	Kinematics, tribology and safety of a dual mobility hip prosthesis	29.10.21	Maiken Stilling

Afsluttede forskningsår

Navn	Titel	Vejleder
Jonathan Hugo Jürgens-Lahnstein	Can one functional exercise measure knee implant fixation?	Maiken Stilling
Tobias Dahl Vind	Lateral unicompartmental knee replacement kinematics - a comparison of fixed-bearing versus mobile-bearing components	Kjeld Søballe
Martin Bruun Knudsen	Piperacillin bone concentrations – a randomized porcine study comparing continuous infusion vs. short-term infusion"	Maiken Stilling
Sara Kousgaard Tøstesen	Dead space, bone and soft tissue concentrations of Cefuroxime in shoulder replacement surgery	Maiken Stilling

Afsluttede specialer

August C. Krogh

Bruskreparationskirurgi med knoglemarvs-stamceller (Martin Lind, vejleder)

Helena A. Jensen

Betydningen af tidspunktet for operation efter skade på behandlingsresultat af forreste korsbåndsoperation (Martin Lind, vejleder)

Thijs M. Nijhuis

The clinical outcome after treatment of tibial intercondylar eminence fractures with cannulated screws, suture fixation, biodegradable nails and Kirschner wires. A systematic literature review (Martin Lind, vejleder)

Maciej Mikolaj Okowinski

Long-term comparison of two different techniques for femoral bone cavity preparation: broaching vs. compaction in patients with cementless total hip arthroplasty. A randomized radiostereometric study of 40 bilateral THA operations (Maiken Stilling, vejleder)

Sara Kousgaard Tøstesen

Orthopaedic deadspace concentrations of cefuroxime – a microdialysis porcine study (Maiken Stilling, vejleder)

Mathias Alrø Fichtner Bendtsen

Preoperative proximal tibial bone mineral density, microarchitecture, or turnover does not predict postoperative tibial component migration of cemented and cementless medial Oxford unicompartmental knee replacement (Maiken Stilling, vejleder)

Christina Harlev

Microdialysis for sampling of carboplatin concentrations (Maiken Stilling, vejleder)

Martin Bruun Knudsen

Electrochemically applied hydroxyapatite (BoneMaster) on cementless porous surface Bi-Metric stems limit early stem migration and has a lasting effect: a randomized five-year follow-up RSA study (Maiken Stilling, vejleder)

Jonathan Hugo Jürgens-Lahnstein

Stable polyethylene inlay fixation and low polyethylene wear-rate in fixed-bearing total knee arthroplasty at 5-6 years follow-up (Maiken Stilling, vejleder)

Alexander Emil Kaspersen

Evaluation of single-dose cefuroxime pharmacodynamics and concentrations in the spinal cord, cerebrospinal fluid and epidural space in relation to spine surgery – an experimental porcine study (Kristian Høy, vejleder)

Daniel Sabroe

How to select treatment method for patients with potential unstable metastatic vertebrae (Spinal Neoplastic Instability Score 7-12): a systematic review (Kristian Høy, vejleder)

Forskningsbevillinger	
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10.000	Familien Hede Nielsens Fond
10.000	Carl og Ellen Hertz' Legat
10.000	Carl og Ellen Hertz' Legat
15.000	Familien Hede Nielsens Fond
15.000	Helga og Peter Kornings Fond
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400.000	Helsefonden
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450.000	Institut for Klinisk Medicin, AU
500.000	Helsefonden
500.000	RM's Sundhedsvidenskabelige Forskningsfond
610.653	Fond for Forskning, Kvalitet og Uddannelse i Fysioterapipraksis
829.956	Danmarks Frie Forskningsfond
992.807	RM's Sundhedsvidenskabelige Forskningsfond
1.120.000	IKM's stipendiepulje

1.620.000	IKM's stipendiepulje
1.965.000	Kræftens Bekæmpelse
1.977.354	Danmarks Frie Forskningsråd
2.370.000	Novartis Healthcare A/S
2.600.000	Kræftens Bekæmpelse
19.022.516	Total for 2021

Nye forskningsansættelser

Navn	Titel	Periode	Vejleder
Emil Toft Petersen	Ph.d.-studerende/ videnskabelig assistent	01.01.21 - 31.12.21	Maiken Stilling
Magnus Hvistendahl	Forskningsårsstuderende	01.02.21 - 31.01.22	Kristian Høy
Josefine Slater	Klinisk assistent	01.02.21 - 30.04.21	Maiken Stilling
Miao Wang	Adjunkt	01.03.21 - 31.08.21	
Sarah S. Freund	Ph.d.-studerende	01.04.21 - 30.06.21	Thomas Baad-Hansen
Sebastian B. Mosegaard	Videnskabelig assistent	01.05.21 - 31.08.21	Maiken Stilling
Ilaria Tresoldi	Forskningsassistent	01.06.21 - 05.07.21	Bjarne Møller-Madsen
Josephine Olsen Kipp	Ph.d.-studerende	01.07.21 - 30.06.24	Maiken Stilling
Christina Harlev	Ph.d.-studerende	01.07.21 - 30.06.25	Maiken Stilling
Peter Bo Jørgensen	Videnskabelig assistent	01.09.21 - 28.02.22	Maiken Stilling
Alexander Juan M.-S. Pedro	Forskningsårsstuderende	01.09.21 - 30.06.22	Bjarne Møller-Madsen
Simone B. Elmholt	Forskningsårsstuderende	01.09.21 - 31.08.22	Martin Lind
Emma Julie H.-H. Kristensen	Forskningsårsstuderende	01.09.21 - 31.08.22	Jan Rölfing
Karina Nørgaard Linde	Ph.d.-studerende	01.10.21 - 30.09.24	Maiken Stilling

Stud.med. Alexander Emil Kaspersen vandt prisen for **Best Paper Award ved Dansk Rygkirurgisk Selskabs Årsmøde** okt. 2021 ud fra sin Master Thesis "Evaluation of single-dose cefuroxime pharmacodynamics and concentrations in the spinal cord, cerebrospinal fluid and epidural space in relation to spine surgery – an experimental porcine study".

Overlæge, ph.d. Ole Gade Sørensen vandt **2. prisen for bedste foredrag ved DOS Kongressen** nov. 2021 med titlen "Combined anterior cruciate ligament revision with reconstruction of the antero-lateral ligament does not improve outcome at 2-year follow-up compared to isolated ACL revision – a randomized controlled trial"

Lektor, ph.d. Julie Sandell Jacobsen vandt prisen for **bedste poster ved DOS Kongressen** nov. 2021 med titlen "Feasibility and acceptability of a six-month exercise therapy and patient education intervention for patients with hip dysplasia not eligible for surgery"

Martin Lind, Ledende professor 31.03.2022