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95. Viberg B, Kold S, Brink O, Larsen MS, Hare KB, Palm H (2020) Is arthroplasty better than internal fixation for undisplaced femoral neck fracture? A national pragmatic RCT: The SENSE trial. *BMJ open* 10 (10).

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Publikationer fordelt på fagområde/forskningsområde

Traumatologi

1. Viberg B, Kold S, Brink O, Larsen MS, Hare KB, Palm H (2020) Is arthroplasty better than internal fixation for undisplaced femoral neck fracture? A national pragmatic RCT: The SENSE trial. *BMJ open* 10 (10).
2. Brink O (2020) Hip fracture clearance: How much optimisation is necessary? *Injury* 51:S111-S117.
3. Brink O (2020) The choice between allograft or demineralized bone matrix is not unambiguous in trauma surgery. *Injury.*
4. Hoerlyck C, Ong T, Gregersen M, Damsgaard EM, Borris L, Chia JK, Yap YYW, Weerasuriya N, Sahota O (2020) Do anticoagulants affect outcomes of hip fracture surgery? A cross-sectional analysis. *Archives of Orthopaedic and Trauma Surgery* 140 (2):171-176.
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6. Viberg B, Kold S, Brink O, Larsen MS, Hare KB, Palm H (2020) Is arthroplasty better than internal fixation for undisplaced femoral neck fracture? A national pragmatic RCT: The SENSE trial. *BMJ open* 10 (10).

Ortopædkirurgisk onkologi

1. Callesen LB, Safwat A, Rose HK, Sørensen FB, Baad-Hansen T, Aggerholm-Pedersen N (2020) Radiation-Induced Sarcoma: A Retrospective Population-Based Study Over 34 Years in a Single Institution. *Clinical Oncology.*
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Rygkirurgi

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Håndkirurgi

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Knækirurgi

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Radiostereometri (RSA)

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Mikrodialyse/infektion

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Forskningsbevillinger 2020

Beløb	Bevillingsgiver
1.350.000	Aarhus Universitet
1.000.000	Region Midtjyllands Sundhedsvidenskabelige Forskningsfond
1.000.000	Region Midtjyllands Sundhedsvidenskabelige Forskningsfond
752.328	Region Midtjyllands Sundhedsvidenskabelige Forskningsfond
712.000	Danske Fysioterapeuters Fond for Forskning, Uddannelse og Praxisudvikling
600.000	Fischer Medical ApS
475.892	Læge Sofus Carl Emil Friis og Hustru Olga Doris Friis' Legat
408.000	Region Midtjyllands Sundhedsvidenskabelige Forskningsfond

398.000	Inge og Asker Larsens Fond
380.763	Inge og Asker Larsens Fond
364.170	Læge Sofus Carl Emil Friis og Hustru Olga Doris Friis' Legat
308.763	Kirsten og Freddy Johansens Fond
195.000	Gigtforeningen
191.560	Læge Sofus Carl Emil Friis og Hustru Olga Doris Friis' Legat
175.000	Gigtforeningen
150.000	Danske Fysioterapeuters Fond for Forskning, Uddannelse og Praksisudvikling
149.800	Novo Nordisk Fonden
125.000	Gigtforeningen
120.000	Kræftens Bekæmpelse
100.000	Riisfort Fonden
100.000	Grosserer L.F. Foghts Fond
73.000	Søster og Verner Lipperts Fond
70.000	Søster og Verner Lipperts Fond
70.000	Danske Fysioterapeuters Fond for Forskning, Uddannelse og Praksisudvikling
52.500	Ortopædkirurgisk Forskningsfond i Aarhus
50.000	Købmand Sven Hansen og Hustru Ina Hansens Fond
45.000	AP Møller Fonden (Lægefonden)
40.000	Grosserer L.F. Foghts Fond
40.000	Grosserer L.F. Foghts Fond
40.000	Søster og Verner Lipperts Fond
36.600	Danske Fysioterapeuters Fond for Forskning, Uddannelse og Praksisudvikling
36.085	Bevica Legatfond II
35.000	Direktør Emil C. Hertz og Hustru Inger Hertz' Fond
25.000	Kong Christian den Tiendes Fond
20.000	AP Møller Fonden
20.000	Tømmerhandler Vilhelm Bangs Fond
16.000	Ortopædkirurgisk Forskningsfond i Aarhus
15.000	Carl og Ellen Hertz Videnskabslegat
15.000	Carl og Ellen Hertz Videnskabslegat
15.000	Ortopædkirurgisk Forskningsfond i Aarhus
12.350	Ortopædkirurgisk Forskningsfond i Aarhus
12.000	Fonden af 1870
9.794.811	TOTAL for 2020

Afsluttede ph.d. forløb

Navn	Titel	Forsvar	Vejleder
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Daan Koopens	Unicompartmental knee arthroplasty. Patient selection, treatment and outcome	10.01.2020	Maiken Stilling
Simon Toftgaard Skov	Novel growth instrumentation for severe, early-onset scoliosis - Evaluation of a new approach for EOS treatment with perspectives on 3D correction, growth, pain, and compliance	06.03.2020	Cody Bünger
Sara Birch	The influence of pain catastrophizing on the result of knee arthroplasty	03.04.2020	Inger Mechlenburg
Julie Sandell Jacobsen	Muscle-tendon pain and outcome of hip-preserving surgery in patients with hip dysplasia	23.04.2020	Inger Mechlenburg
Sebastian Breddam Mosegaard	Prognostic factors in hand surgery	28.08.2020	Maiken Stilling

Afsluttede specialer 2020

Rasmus Christensen

Assessment of knee kinematics with dynamic radiostereometry: Validation of an automated model-based method of analysis using bone models. J Orthop Res . 2020 Oct 8. doi: 10.1002/jor.24875. Online ahead of print.

(Vejleder Maiken Stilling)

Johan Sebastian Torle

Higher Polyethylene Wear of Modular compared to Monobloc Ultra-High-Molecular-Weight-Polyethylene in Hybrid Total Knee Arthroplasty: A 5-year Randomized Radiostereometry Study. Submitted to The Knee

(Vejleder Maiken Stilling)

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. Submitted to J Orthopaedics.

(Vejleder Maiken Stilling)

Mathias Alrø Fichtner Bendtsen

Preoperative proximal tibial bone mineral density, microarchitecture, nor turnover does not predict postoperative tibial component migration of cemented and cementless medial Oxford unicompartmental knee replacement. Submitted to Acta Orthopaedica.

(Vejleder Maiken Stilling)

Andrea René Jørgensen

Double-dose cefuroxime concentrations in bone, knee joint, and subcutaneous adipose tissue – A randomized porcine microdialysis study.

(Vejleder Maiken Stilling)

Nina Villadsen

The Effect of Calneal Lenthening osteotomy on Pes Planovalgus

(Vejleder Bjarne Møller Madsen)

Zandra Lind Larsen

Evaluation of Children with Fassier Duval Telescopic Rod

(Vejleder Bjarne Møller Madsen)

Afsluttede Forskningsår 2020

Mathias Alrø Fichtner Bendtsen

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.

(Vejleder Maiken Stilling)

Andrea René Jørgensen

Double-dose cefuroxime concentrations in bone, knee joint, and subcutaneous adipose tissue – A randomized porcine microdialysis study. Submitted to EJPS DDC

(Vejleder Maiken Stilling)

Josefine Slater

Effects of rifampicin on moxifloxacin concentrations in porcine cervical spine: a randomized microdialysis study. J Antimicrob Chemother. 2020 Aug 1;75(8):2206-2212.

(Vejleder Maiken Stilling)

Nye forskningsansættelser

Navn	Ansættelse	Periode
Ming Sun	Postdoc	01.09.20 - 31.08.21
Troels Kjeldsen	Ph.d.-studerende	01.11.20 - 31.10.23
Jan Due Rolwing	Forskningslektor	01.08.20 - 31.07.25
Mats Bue	Klinisk assistent	Februar 2020
Karina Nørgaard Linde	Klinisk assistent	01.06.20 - 31.08.20
Christian Asmussen	Klinisk assistent	November 2020
Jonathan Hugo Jürgens-Lahnstein	Forskningsårsstuderende	01.02.20 - 31.01.21
Martin Bruun Knudsen	Forskningsårsstuderende	01.02.20 - 31.01.21

Sara Kousgaard Tøstesen	Forskningsårsstuderende	01.09.20 - 31.08.21
Tobias Dahl Vind	Forskningsårsstuderende	01.09.20 - 31.08.21
Sebastian Breddam Mosegaard	Videnskabelig assistent	01.05.20 - 30.04.21
Ilaria Tresoldi	Forskningsassistent	01.05.20 - 31.12.20

Forskningspriser

Mathias Bendtsen fra Aarhus Microdialysis Research Group vandt foredragsprisen for "Best Free Paper" ved EBJIS Conference 2020 (European Bone and Joint Infection Society) den 15.09.2020 med projektet "Flucloxacillin Bone and Soft Tissue Concentrations Assessed by Microdialysis in Pigs after Intravenous and Oral Administration – A Randomized Study".

Johan Sebastian Torle. YODA Award (DOS 2020, 22. Oktober 2021). Less Polyethylene Wear in Monobloc compared to Modular Ultra-High-Molecular-Weight-Polyethylene Inlays in Hybrid Total Knee Arthroplasty: A 5-year Randomized Radiostereometry Study

Martin Lind, Ledende professor 23-02-2021