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Forskningsområde

Anders Holsgaard-Larsen, MSc, PhD. Orthopaedic Research Unit, Department of Clinical Science, University of Southern Denmark and Odense University Hospital. Holsgaard-Larsen is Professor in Clinical Biomechanics and received his Master degree within isolated musculoskeletal function in 2002 followed by the PhD degree in 2007 in biomechanical analysis and functional capacity in elderly individuals at the Department of Sports Science and Clinical Biomechanics, University of Southern Denmark. Then, he advanced his biomechanical competencies in a Post Doc position (2007-2009) investigating shoulder and neck problems in a multi-professional collaboration between chiropractors and sports scientists before moving to the Department of Clinical Research, University of Southern Denmark and Orthopedic Research Unit, Odense University Hospital, heading the gait and motion laboratory (2009-). From 2014-19 he was elected as President for the Danish Association of Biomechanics and was designated as host of the 29th annual meeting of the European Society for Movement analysis in Adults and Children (ESMAC 2021). Finally, he is affiliated with the Department of Women's and Children's Health, Karolinska Institutet, Stockholm where he aims to develop collaboration between Karolinska and University of Southern Denmark.

Professor Holsgaard-Larsen possess a strong background in developing and validating research methodologies that have been implemented in the clinical practice and research projects. His primary research focus is to conduct translational research within musculoskeletal and/or orthopedic conditions and he master a variety of explorative methods from 3-dimensional motion analysis, pedography, electromyography, muscle dynamometry to simple functional performance-based tests and patient reported outcome measures. His research methodologies/competences are presently used in clinical studies ranging from healthy children, children with cerebral palsy, adults suffering from meniscectomy, anterior cruciate ligament rupture, femoroacetabular impingement to elderly patients suffering from knee or hip osteoarthritis. Furthermore, he has a vast experience in designing and conducting randomized controlled trials which is a contributing factor why he is the course leader of a PhD course on optimizing randomized controlled trials at the Department of Health Sciences at University of Southern Denmark.s:[1-5]

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Ansættelse

Klinisk Institut
SDU

1. jul. 2023 → 31. dec. 2025

Professor

KI, OUH, Forskningsenhed for Ortopædkirurgi (Odense)
SDU

1. jul. 2023 → 31. dec. 2025

Lektor (gæste)

Karolinska Institutet
Stockholm, Sverige

1. jan. 2018 → present

Publikationer

- How best to support parents in the management of standing frame usage in home settings: A mixed methods study**
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40. **Speckle tracking ultrasonography for assessment of skeletal muscle strain in m. soleus. A validity and reliability study on healthy participants**
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41. **Early tibial subchondral bone texture changes after arthroscopic partial meniscectomy in knees without radiographic OA: a prospective cohort study**
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42. **Effects of progressive resistance training prior to total HIP arthroplasty - a secondary analysis of a randomized controlled trial**
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43. **Non-surgical interventions for excessive anterior pelvic tilt in symptomatic and non-symptomatic adults: A systematic review**
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50. **Changes in total lower limb support moment in middle-aged patients undergoing arthroscopic partial meniscectomy - A longitudinal observational cohort study**
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74. **The Gait Deviation Index Is Associated with Hip Muscle Strength and Patient-Reported Outcome in Patients with Severe Hip Osteoarthritis: A Cross-Sectional Study**
Rosenlund, S., Holsgaard-Larsen, A., Overgaard, S. & Jensen, C., apr. 2016, I: *PLOS ONE*. 11, 4, 13 s., e0153177.
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Mikkelsen, E. K., Jakobsen, T. L., Holsgaard-Larsen, A., Andersen, L. L. & Bandholm, T., mar. 2016, I: *American Journal of Physical Medicine & Rehabilitation*. 95, 3, s. 194-203 10 s.
76. **Preoperative progressive explosive-type resistance training is feasible and effective in patients with hip osteoarthritis scheduled for total hip arthroplasty: a randomized controlled trial**
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77. **The use of instrumented gait analysis for individually tailored interdisciplinary interventions in children with cerebral palsy: a randomised controlled trial protocol**
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78. **Quantifying gait quality in patients with large-head and conventional total hip arthroplasty: a prospective cohort study**
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79. **Gait Deviation Index, Gait Profile Score and Gait Variable Score in children with spastic cerebral palsy: Intra-rater reliability and agreement across two repeated sessions**
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82. **Changes in knee joint loading in patients undergoing arthroscopic partial medial meniscectomy**
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85. **Forward lunge knee biomechanics before and after partial meniscectomy**
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88. **Can gait deviation index be used effectively for the evaluation of gait pathology in total hip arthroplasty: An explorative randomized trial**
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92. **Composition of The Knee Index, a novel three-dimensional biomechanical index for knee joint load, in subjects with mild to moderate knee osteoarthritis**
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93. **Immediate Efficacy of Neuromuscular Exercise in Patients with Severe Osteoarthritis of the Hip or Knee: A Secondary Analysis from a Randomized Controlled Trial**
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Holsgaard-Larsen, A., Jensen, C., Mortensen, N. H. M. & Aagaard, P., jan. 2014, I: *Knee*. 21 , 1, s. 66–73
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117. **Evaluation of lower-limb asymmetries in mechanical muscle function and functional performance of ACL-patients**
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Myburgh, C., Larsen, A. H. & Hartvigsen, J., jun. 2008, I: *Archives of Physical Medicine and Rehabilitation*. 89, 6, s. 1169-76 8 s.
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Larsen, A. H., Caserotti, P., Puggaard, L. & Aagaard, P., 1. feb. 2007, I: *Scandinavian Journal of Medicine & Science in Sports*. 17/1, s. 43-53 11 s.
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Vedsted, P., Larsen, A. H., Madsen, K. & Sjøgaard, G., 1. jun. 2003, I: Acta Physiologica Scandinavica. 178, 2, s. 175-186 12 s.

Priser

Best oral presentation (Presenting author)(2nd place) Dansk Ortopædkirurgisk Selskabs Årsmøde (DOS),
Larsen, A. H. (Modtager), 2012

Best poster award (Presenting author) Dansk Ortopædkirurgisk Selskabs Årsmøde (DOS)
Larsen, A. H. (Modtager), 2017

Best scientific paper (co-author) Dansk Ortopædkirurgisk Selskabs Årsmøde (DOS),
Larsen, A. H. (Modtager), 2018

Presse/medie

Anders Holsgaard Larsen er udnævnt til professor i klinisk biomekanik
Holsgaard-Larsen, A.
28/12/2020
1 Mediebidrag

Anders Holsgaard Larsen er udnævnt til professor i klinisk biomekanik
Holsgaard-Larsen, A.
28/12/2020
1 Mediebidrag

Anders Holsgaard Larsen er udnævnt til professor i klinisk biomekanik
Holsgaard-Larsen, A.
07/01/2021
1 Mediebidrag

Anders Holsgaard Larsen er udnævnt til professor i klinisk biomekanik
Holsgaard-Larsen, A.
28/01/2021
1 Mediebidrag

Conference coverage: Exercise tops NSAIDs for knee osteoarthritis
Larsen, A. H.
20/06/2017
1 element af Mediedækning

Din træningsmakker er en robot: Millionbevilling til SDU-projekt om genoptræning efter sygdom eller ulykke
Holsgaard-Larsen, A., Sørensen, A. S., Rasmussen, G. & Nielsen, J.
19/06/2022
1 Mediebidrag

Exercise topped NSAIDs for knee osteoarthritis
Holsgaard-Larsen, A.
15/04/2018
1 Mediebidrag

Forskning med gangrobotter
Holsgaard-Larsen, A.
16/02/2021
1 Mediebidrag

Fynske konferencer aflyses ikke, men udskydes

Holsgaard-Larsen, A.

09/06/2020

1 Mediebidrag

Han vil sætte robotter til at træne patienter

Holsgaard-Larsen, A.

18/01/2021

1 Mediebidrag

Han vil sætte robotter til at træne patienter

Holsgaard-Larsen, A.

18/01/2021

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Han vil sætte robotter til at træne patienter

Holsgaard-Larsen, A.

18/01/2021

1 Mediebidrag

International prestigekonference lander i Odense i 2020

Larsen, A. H.

22/08/2018

1 Mediebidrag

International prestigekonference lander i Odense i 2020

Larsen, A. H.

22/08/2018

1 Mediebidrag

Konferencerne overlever corona: bliver udskudt i stedet for aflyst

Holsgaard-Larsen, A.

09/06/2020

1 Mediebidrag

Konferencerne overlever corona: bliver udskudt i stedet for aflyst

Holsgaard-Larsen, A.

09/06/2020

1 Mediebidrag

KORT NYT

Holsgaard-Larsen, A.

29/12/2020

1 Mediebidrag

Mens vi lever: Det er aldrig for sent

Holsgaard-Larsen, A.

27/12/2008

1 Mediebidrag

NAVNE I NOTER

Holsgaard-Larsen, A.

13/01/2021

1 Mediebidrag

NSAIDs vs. Exercise for Knee Arthritis

Holsgaard-Larsen, A.
13/11/2017
1 Mediebidrag

Ny formand i Dansk Biomekanisk Selskab

Holsgaard-Larsen, A.
15/10/2014
1 element af Mediedækning

Ny formand i Dansk Biomekanisk Selskab

Holsgaard-Larsen, A.
15/10/2014
1 element af Mediedækning

Ny formand i Dansk Biomekanisk Selskab

Holsgaard-Larsen, A.
15/10/2014
1 element af Mediedækning

Ny formand i Dansk Biomekanisk Selskab

Holsgaard-Larsen, A.
15/10/2014
1 element af Mediedækning

Ny professor vil undersøge, om robotter kan hjælpe patienter i genoptræning

Holsgaard-Larsen, A.
05/01/2021
1 Mediebidrag

Ny professor vil undersøge, om robotter kan hjælpe patienter i genoptræning

Holsgaard-Larsen, A.
05/01/2021
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05/01/2021
1 Mediebidrag

Ny professor vil undersøge, om robotter kan hjælpe patienter i genoptræning

Holsgaard-Larsen, A.
05/01/2021
1 Mediebidrag

Ny SDU-professor skal forbedre ortopædkirurgien og fysioterapien

Holsgaard-Larsen, A.
04/02/2021
1 Mediebidrag

Ny SDU-professor skal forske i træningsrobotter

Holsgaard-Larsen, A.
05/02/2021
1 Mediebidrag

Nyt om navne

Holsgaard-Larsen, A.
03/02/2021
1 Mediebidrag

Preoperative Resistance Training Can Accelerate Recovery for Patients Undergoing Total Hip Arthroplasty: Presented at OARSI

Holsgaard-Larsen, A.
02/05/2018
1 element af Mediedækning

PRM / International prestigekonference lander i Odense i 2020

Larsen, A. H.
22/08/2018
1 Mediebidrag

PRM / International prestigekonference lander i Odense i 2020

Larsen, A. H.
22/08/2018
1 Mediebidrag

PRM / Professor i klinisk biomekanik på OUH og SDU

Holsgaard-Larsen, A.
26/12/2020
1 Mediebidrag

PRM / Professor i klinisk biomekanik på OUH og SDU

Holsgaard-Larsen, A.
27/12/2020
1 Mediebidrag

Professor i klinisk biomekanik

Holsgaard-Larsen, A.
29/12/2020
1 Mediebidrag

Professor i klinisk biomekanik på OUH og SDU

Holsgaard-Larsen, A.
27/12/2020
1 Mediebidrag

SDU og OUH udnævner professor i klinisk biomekanik

Holsgaard-Larsen, A.
27/12/2020
1 Mediebidrag

TV 2 Fyn 19.30

Holsgaard-Larsen, A.
29/08/2023
1 Mediebidrag

Projekter

Barriers and motivators of physical activity levels and associated consequences on quality of life in children with cerebral palsy – a clinical consecutive cohort study

Fonvig, C. E. (Overordnet koordinator), Holsgaard-Larsen, A. (Vejleder), Troelsen, J. (Bivejleder) & Dunkhase-Heinl, U. (Col)
01/04/2019 → 04/12/2022

STU-SIS: Clinical validation of speckle tracking ultrasonography for rotator cuff muscle function in patients with subacromial impingement syndrome

Brekke, A. F. (Co-PI), Holsgaard-Larsen, A. (PI), Frich, L. H. (Projektdeltager), Lambertsen, K. L. (Projektdeltager), Nielsen, H. H. (Projektdeltager) & Jacobsen, P. (Projektdeltager)
01/08/2022 → 31/03/2025

Fibromyalgia og Naltrexone: The FINAL study

Bruun, K. D. (PI), Vægter, H. B. (Col), Toft, P. (Overordnet koordinator), Blichfeldt-Eckhardt, M. R. (Col), Amris, K. (Col) & Holsgaard-Larsen, A. (Col)
01/01/2020 → 01/06/2023

Fitness for all: Adult people with physical disability in Denmark - Prevalence and social markers

Nikolajsen, H. (Projektdeltager), Larsen, C. M. (Projektdeltager), Boyle, E. (Projektdeltager), Holsgaard-Larsen, A. (Projektdeltager), Hestbæk, L. (Projektdeltager), Juul-Kristensen, B. (Projektdeltager) & Troelsen, J. (Vejleder)

KneeActivity: Increased physical activity by activity tracking and motivational feed-back following total knee arthroplasty – a feasibility study prior to a randomized controlled trial

Holsgaard-Larsen, A. (PI), Lindberg-Larsen, M. (Projektdeltager), Jensen, C. M. (Projektdeltager), Kidholm, K. (Projektdeltager) & Wiil, U. K. (Projektdeltager)
01/01/2022 → 31/03/2023

Levels of physical activity and quality of life following total or unicompartmental knee arthroplasty assessed with activity tracking and motivational feed-back– a randomized controlled trial nested in a prospective cohort (KneeActivity)

Skov, C. D. (Ph.d.-studerende), Holsgaard-Larsen, A. (Vejleder) & Lindberg-Larsen, M. (Bivejleder)
01/02/2023 → 31/01/2026

SPRAINO-work: Prevention of falls and torsional injuries with friction modifications on work footwear

Holsgaard-Larsen, A. (PI), Madeleine, P. (Projektdeltager) & Grønlykke, T. B. (Samarbejdspartner)
01/03/2022 → 28/02/2025

SaSAMBA: The effect of posterior and lateral approach on patient-reported outcome measures and physical function in patients with osteoarthritis, undergoing total hip replacement: a randomised controlled trial protocol

Rosenlund, S. (Projektleder), Broeng, L. (Koordinator), Jensen, C. (Co-PI), Holsgaard-Larsen, A. (Co-PI) & Overgaard, S. (Overordnet koordinator)
01/08/2014 → 01/08/2017

The Effect of Robot-Assisted Versus Standard Training on Motor Function Following Subacute Rehabilitation after Ischemic Stroke – a randomised controlled trial nested in a prospective cohort (RoboRehab)

Jensen, J. S. (Ph.d.-studerende), Holsgaard-Larsen, A. (PI), Bojsen-Møller, J. (Bivejleder), Lambertsen, K. L. (Bivejleder), Sørensen, A. S. (Bivejleder), Nielsen, H. H. (Samarbejdspartner), Kruuse, C. (Samarbejdspartner), Jensen, H. B. (Samarbejdspartner), Buckwalter, M. (Samarbejdspartner) & Skov, C. D. (Samarbejdspartner)
01/09/2023 → 31/08/2026

RATE: The effect of targeted exercise on kneemuscle function in patients with persistent hamstring deficiency following ACL reconstruction – study protocol for a randomized controlled trial

Bregenhof, B. (Projektleder), Jørgensen, U. (Koordinator), Jensen, C. (Koordinator), Aagaard, P. (Koordinator), Nissen, N. (Koordinator), Creaby, M. W. (Koordinator), Thorlund, J. B. (Koordinator), Torfing, T. (Koordinator) & Holsgaard-Larsen, A. (Overordnet koordinator)
01/01/2017 → 01/01/2022

The future of weight bearing standing frames

Krupar, L. (Projektdeltager), Holsgaard-Larsen, A. (Vejleder) & Pawlowski, C. (Vejleder)
01/08/2022 → 31/07/2025

TILT-FAI: The relationship between anterior pelvic tilt and functional acetabular retroversion in patients with symptomatic anterior femoroacetabular impingement

Brekke, A. F. (Overordnet koordinator), Holsgaard-Larsen, A. (Vejleder), Overgaard, S. (Bivejleder), Poulsen, E. (Col) & Torfing, T. (Col)

01/02/2016 → 01/08/2020

TriDisciplinary Contexture for Motion, Technology and Humans - TRINITY

Holsgaard-Larsen, A. (Projektdeltager), Rasmussen, G. (Projektdeltager), Sørensen, A. S. (Projektleder), Aagaard, P. (Projektdeltager), Nicolaisen, E. M. (Ph.d.-studerende), Gutierrez, J. P. D. L. (Projektdeltager), Kaos, M. (Samarbejdspartner) & Pedersen, M. B. (Projektdeltager)

02/03/2020 → 31/12/2024