

Annual Report

Research Activity 2025



Division of Orthopaedic Surgery
University of Oslo, Diakonhjemmet Hospital
and Oslo University Hospital



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Introduction

Oslo University Hospital and the University of Oslo

Oslo University Hospital (OUH) is Norway's largest hospital with over 24 000 employees and a budget of 23 billion NOK. The Hospital has a local function for parts of Oslo's population. It has a regional function for the inhabitants in the South-Eastern Norway Regional Health Authority, and it also has a large number of national functions. The Hospital is responsible for the majority of medical research and education of health personnel in Norway.

The University of Oslo (UiO) is Norway's largest research and educational institution with 28 000 students and 7000 employees. Professional breadth and internationally recognized research environments make UiO an important contributor to society. The Faculty of Medicine was established in 1814 and works for progressive education, research and dissemination for the patients' and society's best interests.

Diakonhjemmet Hospital

The University activity of the Division of Rheumatology and Research at Diakonhjemmet Hospital is organizationally linked to the Division of Orthopaedics Surgery.

Diakonhjemmet Hospital is a private, non-profit hospital with defined responsibilities for the health care system both in Oslo, in the health region as well as nationally. The Division of Rheumatology and Research has responsibility for people with rheumatic joint diseases living in the entire area of Oslo and a regional function for the inhabitants in the South-Eastern Norway Regional Health Authority. One national highly specialized functions is located at the Hospital: The Norwegian National Unit for Rehabilitation for Rheumatic Patients with Special Needs.

The Division has since 2008 held the position as EULAR Center of Excellence and has in addition to patient care a strong focus on clinical and epidemiological research, education and information to patients and their relatives. Three professors; Espen A. Haavardsholm, Ida Bos-Haugen and Tillmann Uhlig (recently emeritus , will be replaced fall 2026), have combined positions in the Department of Rheumatology and University of Oslo.

From Division Director Lars Nordsletten

The Division of Orthopaedics (OPK) is one of 16 medical divisions in Oslo University Hospital. It encompasses the fields of orthopaedic traumatology, hand surgery including retransplant surgery, prosthetic surgery, oncology surgery, spinal surgery, scoliosis surgery, pediatric surgery and arthroscopic surgery.

The proximity to patients and their medical issues are the cornerstones for the research conducted at our division, which is aimed at improving patient care. High ethical standards ensure the confidentiality, and



our goal is to continuously improve diagnostics, treatment and management for all our patients. The proximity to patients and their medical issues are the cornerstones for the research conducted at our Division, which is aimed at improving patient care. High ethical standards ensure the confidentiality, and our goal is to continuously improve diagnostics, treatment and management for all our patients.

Research activity

OPK's research activity is organized into 9 different research groups covering a broad range of basic and clinical research with an overall aim to improve patient care with emphasis on diagnostic, therapeutic and preventive measures. Most group leaders have a combined position at Oslo University Hospital and the University of Oslo. In total, the Division has 9 Professors, 4 Associate Professors, postdoctoral fellowships, several PhD students and administrative and technical staff.

The Division has an Advisory Research Board which in 2025 consisted of: Professor Lars Nordsletten, Professor Inger Ellingsen Husebye, Professor May Arna Risberg, Professor Stephan Röhl, Professor Joachim Horn, Associate Professor Thomas Kibsgård, Associate Professor Gilbert Moatshe, Associate Professor Ida M. Bredesen and Head of FoU Tone Beren and Head of OPK-OUH Thale Mørch.

In 2025 OPK had a total of 87 registered peer reviewed publications and 5 PhD dissertations.

Diakonhjemmet's Division of Rheumatology and research registered 73 publications in the same period.

Lars Nordsletten



Osteoarthritis Research Group

Group Leader

Lars Nordsletten, Prof, Division of Orthopaedics, UiO (lars.nordsletten@medisin.uio.no), Consultant Orthopaedic Division, OUH (UXLANO@ous-hf.no)



Group Members

- May Arna Risberg, Professor
- Inger Holm, Professor
- Kristin Bølstad, Research coordinator
- Britt Elin Øyestad, Professor
- Nina J. Kise, Post Doc
- Sonia Rojewski, Phd candidate
- Bjørnar Berg, PostDoc
- Anouk Urhaus,
- Tuva Moseng, post doc
- Kristian Warholm, PhD candidate
- Elise Berg Vesterhus, Research coordinator
- Ida Marie Bredesen, Assisting professor

Research profile and aims

To study the etiology, treatment and prevention of osteoarthritis (OA). We are primarily studying knee, hip and hand OA.

Ongoing projects

- Training in knee OA: RCT between different training forms
- Risk factors for OA in hip, knee and hand: HUNT-NLR-OUH study and Ullensaker study





- AktivA: implementation of treatment and prevention and registry of OA in primary care in Norway
- OMEX: RCT between traing and operation in meniscal injury
- ArtroVax: The immunological impact on OA development
- HIPARTI: Hip arthroscopy vs training
- Delaware- Oslo ACL Cohort

Most important national and international collaborators

National

- The Norwegian Arthroplasty Register
- The Norwegian Cruciate Ligament Register
- The Norwegian Hip Fracture Register
- NTNU, HUNT Research Center
- FHI

International

- Lynn Snyder-Mackler, University of Delaware, USA
- Joanne Kemp
- School of Allied Health, Human Services and Sport,
- La Trobe University, Victoria, Australia

Funding

- South-Eastern Norway Regional Health Authority
- Norwegian Extra Foundation fr Health and Rehilitation
- The Research Council of Norway
- Foundation of Sophies Minde
- Dr Trygve Gythfeldt and wife's Research Foundation
- Pahle's Foundation



Scientific production of the research group in 2025

Peer reviewed original research articles: 21

Selected publications:

Duong, V., C. Abdel Shaheed, M. L. Ferreira, S. W. Narayan, V. Venkatesha, D. J. Hunter, J. Zhu, I. Atukorala, S. Kobayashi, S. L. Goh, A. M. Briggs, M. Cross, R. Espinosa-Morales, K. Fu, F. Guillemin, F. Keefe, L. Stefan Lohmander, L. March, G. J. Milne, Y. Mei, A. Mobasheri, M. Namane, G. Peat, M. A. Risberg, S. Sharma, R. Sit, R. W. Telles, Y. Zhang and C. Cooper (2025). "Risk factors for the development of knee osteoarthritis across the lifespan: A systematic review and meta-analysis." Osteoarthritis Cartilage **33**(10): 1162-1179

Tang, S., C. Zhang, W. M. Oo, K. Fu, M. A. Risberg, S. M. Bierma-Zeinstra, T. Neogi, I. Atukorala, A. M. Malfait, C. Ding and D. J. Hunter (2025). "Osteoarthritis." Nat Rev Dis Primers **11**(1): 10

Troan, I., T. Bere, I. Holm, R. F. LaPrade, L. Engebretsen and G. Moatshe (2025). "Patient-Reported Outcomes of Bicruciate Multiligament Versus Single Cruciate Multiligament Knee Injuries." Am J Sports Med **53**(1): 138-146



Pediatric Orthopaedics



Group Leader

Joachim Horn, Associate Professor, Section of Children's Orthopaedics and Reconstructive Surgery, UiO (joachhor@medisin.uio.no) /OUH (jhorn@ous-hf.no)

Group Members

- Terje Terjesen, Professor emeritus, UiO
- Harald Steen, MD/PhD, OUH
- Ola Wiig, MD/PhD, OUH
- Stefan Huhnstock, MD/PhD, OUH
- Anders Wensaas, MD/PhD, OUH
- Anne Berg Breen, MD, PhD-candidate, OUH
- Anders Grønseth, MD, PhD-candidate, OUH
- Andreas Knaus, MD, OUH
- Thilini Gamage
- Johan Brevik, PT
- Anne Marthe Svendsen Rysst-Heilmann, PT
- Sanyalak Niratiarak, PhD, Head engineer, UiO
- Elina Styve Skjerping

Research profile and aims

The primary aim of the research group is to promote and advance both clinical and experimental research within the field of paediatric orthopaedics and reconstructive surgery. The group focuses on three core research areas:

- Rare bone diseases
- Limb deformity, including limb lengthening and growth modulation
- Paediatric hip disorders, including Perthes disease, developmental dysplasia of the hip (DDH), and slipped capital femoral epiphysis (SCFE)



Ongoing projects

1. Rare bone diseases

- **Norwegian Skeletal Dysplasia Register**
Established in collaboration with the Norwegian National Advisory Unit on Rare Diseases, the Department of Medical Genetics, and Paediatric Endocrinology. The register will serve as a platform for interdisciplinary research within the field of rare skeletal disorders.
(Anne Marthe Svendsen Rysst-Heilmann, Lena Lande Wekre, Joachim Horn)
- **The use of gait analysis in skeletal dysplasia – a literature review**
Conducted in collaboration with ERN BOND (European Reference Network for Rare Bone Disorders).
(Joachim Horn)
- **Clinical decision-making in rare bone diseases – a survey among ERN BOND and EPOS members**
(Thilini Gamage, Joachim Horn)
- **Long-term consequences in multiple osteochondromas and melorheostosis**
Two scoping reviews of the literature.
(Thilini Gamage, Joachim Horn)

2. Limb lengthening and reconstruction

(Lead: Joachim Horn)

- **Assessment of angular deformity and continued growth after percutaneous epiphysiodesis**
A scoping review focusing on assessment methods, follow-up reporting, and outcome definitions.
(Karoline Fauske, Maria Tirta, Thilini Gamage, Anne Berg Breen, Joachim Horn)
- **Idiopathic increased femoral anteversion**
PhD project (Anders Grønseth), including the following sub-studies:
 - Derotational osteotomy of the femur using either percutaneous osteotomy with intramedullary nailing or open osteotomy with plate fixation – a randomized controlled trial
 - Three-dimensional gait analysis before and after derotational osteotomy in patients with idiopathic increased femoral anteversion
 - Long-term follow-up of untreated patients with increased femoral anteversion
 - Larger core locking bolts enhance precision in intramedullary nailing for femoral derotational osteotomies: a biomechanical study





3. Paediatric hip

- **A nationwide Perthes study – long-term follow-up exceeding 20 years**
(Stefan Huhnstock)
- **Tübinger splint versus a modified Freika's pillow for treatment of mild to moderate hip dysplasia in newborns – a randomized controlled trial**
(Elina Styve Skjerping, Joachim Horn)

Most important national and international collaborators

National

- Lena Lande Wekre, MD, PhD, Norwegian National Advisory Unit on Rare Diseases
- Cathrine Alsaker Heier, Div. of Pediatrics, Endocrinology

International

- EPOS Study Group
Genetics and Metabolic Diseases
- International Perthes Study Group
- European Reference Network for rare Bone Disorders (ERN BOND)
- Nordic Limb Lengthening and Reconstruction Society
- Maria Tirta – Aarhus University Hospital, Denmark

Scientific production of the research group in 2025

Selected publications:

1. Horn J, Leardini A, Benedetti MG, Hestnes TM, Mindler G, Wekre LL, Sangiorgi L, Alves I, Trisolino G. Fully instrumented gait analysis in rare bone diseases – A scoping review of the literature. *Gait Posture*. 2025;118:168–177.

2. Grønseth A, Brattgjerd JE, Horn J. Increasing the precision of intramedullary nailing in femoral derotation osteotomies using larger core locking bolts: a biomechanical study. *Clin Biomech (Bristol)*. 2025;123:106449.

3. Wensaas A, Blatti C, Terjesen T, Huhnstock S. Long-term outcome of nonoperative treatment of Perthes' disease: only 19% total hip arthroplasty at a mean follow-up of 48 years. *Bone Joint J*. 2025;107-B(6):657–662.



Biomechanics Laboratory



Group Leader

Gilbert Moatshe, MD/PhD, Head of Biomechanics Laboratory/Consultant
Orthopaedic Surgeon, Orthopaedic Division, OUH, Associate Professor UiO
(gilbert.moatshe@medisin.uio.no)

Group members

- Sanyalak Niratisairak, PhD, Lab's Head engineer, UiO
- Lars Nordsletten, MD/PhD, Professor, OUH
- Jan Egil Brattgjerd, MD/PhD, OUH
- Endre Søreide, MD/PhD, OUH
- Jan Rune Nilssen, Eng, Norwegian Defence Research Institute (FFI)
- Kristin Jørgensen, MD, OUH
- Ingrid Skaaret, CPO/MSc/PhD, Sophies Minde Ortopedi AS (SMO)/OMU
- Anne Berg Breen, MD/PhD-cand, OUH
- Bryan Wright, MD/PhD-cand, Ringerike Hospital
- Marek Zegzdryn, MD/PhD cand, Arendal Hospital
- Hannah Jahr, MD/PhD cand, Arendal Hospital
- Kaare Midtgaard, MD/PhD cand, OUH

Associate group members

- Joachim Horn, MD/PhD, OUH/UiO
- Are Hugo Pripp, MSc/PhD, OUH, prof OMU
- Are Stødle, PD/PhD, OUH

Research profile and aims

Biomechanics lab at the Department for Research and Development, OUH Orthopaedic Clinic, functions as a service-unit and contributes as a facilitator/catalysator for accomplishment of various research projects within the orthopaedic community in the Oslo region. The laboratory was established back in the 1960'ies as a joint venture between Sophies Minde National Orthopaedic Hospital and UiO with 1.5 full time employees: One orthopaedic surgeon (50%) employed by the Hospital, and one Engineer (100%) employed by the UiO.

The laboratory previously organized the meetings of the 'Biomechanics Forum' 2-3 times a year during the periods 1996-2002 and 2013-2017, with a total of 31 meetings. 'Biomechanics Forum' was a multidisciplinary discussion group of professionals and students. The plan was to establish a new national forum called the 'Norwegian Biomechanics Society' (NBS) consistent with similar existing national societies in Denmark and Sweden, and with a future expectation of making a common Scandinavian



Biomechanics Society. However, due to the Covid-19 pandemic the inauguration of the NSB has been postponed in 2020 and 2021.

The laboratory is furnished with technological equipment for mechanical and functional testing, and participates in planning, execution, analyses, and publishing of clinical and experimental studies.

Biomechanics lab was granted 1.37 mill NOK from the Hospital's Investment budget 2019 for upgrading of our mechanical testing machine (MTS, MiniBionix 858), located at the Institute for Surgical Research. A high-speed digital image video camera with integrated 3D motion analysis for detailed documentation of the deformation process within the test object during mechanical testing was acquired in 2023. Activity at the laboratory has resumed after some issues with the Regional Ethical Committee (REK) regarding the use of cadaveric specimen from USA. This has been resolved and approval for use of cadaveric specimens has been issued. In the future we aim to have a closer collaboration with the #D printing laboratory at OUS, Rikshospitalet to optimize use of resources and leverage the skills of both groups.

In daily clinical activity the Biomechanics lab has been part of the Paediatric Orthopaedics and Reconstructive Surgery Section at Rikshospitalet, mainly contributing with preoperative assessment of patients with limb length discrepancy and other deformities, and monitoring of patients operated with distraction osteogenesis/callotasis by use of external fixators or operated with epiphysiodesis. The biomechanical lab also performs studies related to implants used in orthopaedic surgery, ligament reconstruction and fracture fixation.

Ongoing projects

- Comparison of various methods for bone age assessment (ABB/PhD Thesis in progress)
- Time planning and treatment of epiphysiodesis - Outcome of various methods (ABB/PhD Thesis in progress)
- Biomechanical studies of bone fixation (BW/PhD Thesis in progress)
- Fixation of trochanteric fractures with gliding screw and plate
- Reconstruction of anterior cruciate ligament with both tibial and femoral fixation (PhD Project)
- Comparison of suture tape to metal wire for tension band in olecranon fractures (PhD Project)
- Comparison of open and arthroscopic fixation of tendon transfer for massive rotator cuff tears
- Fixation of femoral derotation osteotomies with an intramedullary nail
- Testing of a new instrument for balancing medial collateral ligament in knee prosthetic surgery (PhD Project)
- Radiostereometric (RSA) Growth-Analyses after (Hemi-)Epiphysiodeses
- Forces, Load-share and Strain in Ankle Arthrodiatasis
- Forces, Load-Share and Strain during the Callotasis Process



- The Birch Classification for Congenital Fibular Deficiency Can Predict Treatment Modality and Clinical Outcome in Young Adults Born With Lower-Limb Deficiencies
- The Influence of an Intact or Healed Osteotomized Fibula on the Measured Load-Share Value after a Tibial Lengthening Osteotomy - A Cadaver Pilot Study

Most important national and international collaborators

National	International
- Jan Rune Nilssen, Norwegian Defence Research Establishment, Kjeller: Mechanical testing projects	- William MacKenzie, MD and Tariq Rahman, PhD, Neumors, Alfred I. duPont Hospital for Children, Wilmington, Delaware, USA: Experimental limb lengthening project
- Bryan Wright, MD, Ringerike Hospital: Mechanical properties and bone mineral parameters per-trochanteric femoral fractures	- Søren Kold, MD/PhD and Markus Winther Frost, Aalborg University Hospital, Denmark: Experimental limb lengthening project
- Hanna Jahr, MD, Arendal Hospital: Comparison of open and arthroscopic fixation of tendon transfer in massive rotator cuff tears	- Stephen Grigg, PhD and Rhys Pullin, PhD, Cardiff School of Engineering, Cardiff University, UK
- Marek Zegzdryn, MD, Arendal Hospital: Reconstruction of anterior cruciate ligament with both tibial and femoral fixation	- Acoustic Emission Project
- Arne Kristian Aune, MD/PhD, Aleris Private Hospital: Reconstruction of anterior cruciate ligament with both tibial and femoral fixation	- Robert F. LaPrade MD, PhD. Twin City Orthopaedics, MN, USA
	- Andrew Geeslin MD. University of Vermont, USA
	- Kyle Martin, MD, PhD. University of Minnesota, USA

Scientific production of the research group in 2025

2025 was a productive and successful year in terms of publications and PhD defences. There were 3 PhD defences and one expected in 2026.

PhD Defences

Anne Berg Breen

Title: Epiphysiodesis for Leg Length Discrepancy - keep it safe and simple.

Bryan Joseph Wright

Title: Preventing Screw Stripping with Acoustic Emissions.





Kyle Martin

Title: Predicting Anterior Cruciate Ligament Reconstruction Outcome - Machine Learning Analysis of National Knee Ligament Registries

Peer reviewed Publications (original research articles):

Selected publications:

Natoli RM, Marchand LS, Bzovsky S, Hagen JE, Gage MJ, Stennett CA, O'Hara NN, Jeray KJ, Petrisor B, Sprague S, Slobogean GP; the FLOW Investigators; the PREP-IT Investigators; the FLOW Investigators and the PREP-IT Investigators. Infection and Nonunion Rates in Open Fractures: Description of 6,042 Fractures from the FLOW and PREP-IT Trials. *J Bone Joint Surg Am.* 2025 Nov 19;107(22):2541-2553. doi: 10.2106/JBJS.24.01055. Epub 2025 Nov 19. PMID: 41315040; PMCID: PMC12614385.

Thoen PS, Lindalen E, Nordsletten L, Röhrli SM. Low wear with vitamin E-infused highly cross-linked polyethylene : 14 years' follow-up of a randomized radiostereometric analysis study. *Bone Joint J.* 2025 Nov 1;107-B(11):1182-1188. doi: 10.1302/0301-620X.107B11.BJJ-2025-0273.R1. PMID: 41173047.

Tellefsen R, Kristensen TB, Dybvik EH, Gjertsen JE, Nordsletten L, Ugland T, Visnes H, Solberg LB. Surgical approaches in hemiarthroplasty for hip fracture : results of 48,222 hemiarthroplasties in the Norwegian Hip Fracture Register. *Bone Jt Open.* 2025 Oct 22;6(10):1311-1320. doi: 10.1302/2633-1462.610.BJO-2025-0099.R1. PMID: 41120102; PMCID: PMC12539978.





Center for Implant and Radiostereometric Research Oslo

Group Leader



Stephan M. Röhrli, MD, PhD, senior consultant surgeon
(s.m.rohrl@medisin.uio.no) Division of Orthopaedic Surgery, OUH, Board member of the Norwegian arthroplasty Registry, (UXRHST@ous-hf.no), Vice president of the International Radiostereometry Society; RSA
Past president of the Norwegian Hip and Knee society

Social media: homepage: CIRRO.no Instagram: Cirro_norway



Group Members

Advisory board

- Lars Nordsletten, Professor, OUH
- Anselm Schultz, MD, PhD, OUH
- Frank David Ørn, MD, Kristiansund Hospital (2022)

Senior members:

- Vera Halvorsen, MD, OUH
- Marianne Westberg MDT/PhD, OUH
- Lene Solberg, MD/PhD, OUH
- Jan Egil Brattgjerd, MD/PhD, Oslo Met

Alumni (PhD):

- Wender Figwed, MD/PhD Bærum Hospital (2010)
- Berte Bøe, MD/PhD, OUH (2012)
- Einar Lindalen, MD/PhD Lovisenberg Hospital (2013)
- Jon Dahl, MD/PhD, OUH (2014)
- Thomas Kibsgård, MD/PhD, UiO and OUH (2014)
- Bernhard Flatøy, MD/PhD, Diakonhjemmet hospital (2018)
- Eirik Aunan, MD, Lillehammer hospital (2019)
- Justin van Leeuwen, MD, Helse Førde Lerdal Hospital (2019)
- Gunnar Petursson, MD, Lovisenberg Hospital (2019)
- Ole-Christian Brun, MD, Lovisenberg Hospital (2021)
- Peder Thoen, MD, Tønsberg Hospital (2022)
- Alexander Fraser, MD, Diakonhjemmet hospital (2023)
- Yasser Rehman, MD, Lovisenberg Hospital (2024)
- Frank David Ørn, MD, Kristiansund Hospital (2022)

PhD candidates:

- Carl Erik Alm, MD, OUH
- Vinjar Brenna Hansen, MD, OUH
- Lars Engseth, MD, OUH



Group Members (continued)

- Magnus Poulsen, MD, OUH
- Wilhelm Johan Mustad, MD, OUH
- Dan Sandbæk, Kallnes sykehus
- Magnus Høgevold, MD, Diakonhjemmet hospital
- Trygve Glad, Rikshospitalet, MD, OUH
- Magnus Høgevold, MD, Diakonhjemmet hospital
- Engelke Randers, MD, OUH

Single project candidates:

- Fredrik Bru, Kristiansund hospital
- Mathias Brevik, Kristiansund hospital
- Henrik Friedheim, OUH
- Ingvild Bjåland Østerhus, Diakonhjemmet hospital
- Torben Janssen, Skien hospital

Students:

- Anine Karsen, UiO
- Nadia Iranoust, UiO
- Mehdi Aldujahili, UiO
- Charles Conrad, UiO

Radiographers:

- Mona Risdal, CT Radiographer, Application Specialist CT, OUH

Research coordinator:

- Marte Traae Magnusson, PT, MSc, OUH

Research profile and aims

The overall aim of CIRRO is to perform basic and clinical research in orthopaedic surgery, imaging science and bone turnover. Focus is on implants used in the treatment of musculoskeletal disorders and trauma. We are a team of dedicated researchers and collaborate nationally and internationally. Our intention is outlined at: <http://ous-research.no/home/cirro/About us/11138>



- To use and develop precise measurement methods in musculoskeletal research
- To study new treatment options (implants, surgical techniques, biotechnology, rehabilitation interventions and pharmacological treatment) and to ensure safe treatment to patients
- To study disease development (cartilage wear, bone loss, changes in body composition) together with other methods, in order to gain insight into mechanisms for disease and eventual treatment.
- To further develop CIRRO as a main research centre delivering sophisticated services to researchers in South-Eastern Norway Regional Health Authority and adjoint hospitals, nationally as well as internationally.

You can find updated information on *Social media*: Instagram: **Cirro_norway** or our homepage: **CIRRO.no**

Ongoing studies in 2025

Indication and Treatment of adult Kyphoscoliosis (INTRAKS study) 2 –
years controls are finished.

For more comprehensive information about the study:

<https://www.intraks.org/>

We finalized the paper on CT diagnostics of the SI joint



NaKiD knee study

Lars Engseth wrote his summary of his thesis in will defend his thesis on the **16th of June 2026**.

He published 2 papers in 2025. Lars won the Edward Valstar award at the international RSA- meeting.



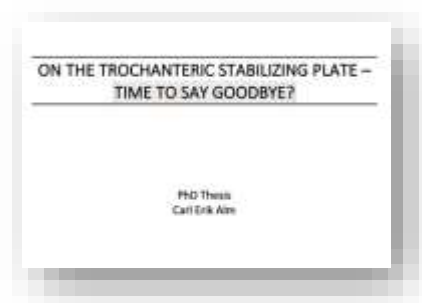
Lisfranc study

The CT-study of Magnus Poulsen in diagnostics of Lisfranc included all patients in april 2025. Results are published. For more information please have a look at the studies homepage: [Lisfrancstudien](#)



Trochanteric Stabilizing Plate in Pertrochanteric fractures

PhD candidate Carl Erik Alm is now focusing on the summary of the thesis. Anticipated defense in 2026.



Methodology in Total Knee Arthroplasty

Dose reduction for CT-RSA. Collaborationproject with the MORE research group in Kristiansund.

Investigation of the stability of hand arthroplasties

Wilhelm Johan Mustad startet the **StableTouch** study on patients at Hand- and elbow unit at Aker, Oslo university hospital. All patients need to take a 4DCT scan and underwent functional testing by the occupational therapists before and after surgery of the thumbprosthesis.



The **Twist**

Study investigatet 13 patiens with CT in 2025 at Ullevål and Rikshospitalet and is still ongoing.

Cless TKA

The last patient in the migration cohort of the study underwent surgery, the **personal KNEE Trial** on robotics in TKA continues to recruit patients.

Methodology in Total Knee Arthroplasty

Dose reduction for CT-RSA.

Both studies are conducted at the hospital of Møre and Romsdal in collaboration between *MORE* and *CIRRO* research group.



Dual Mobility cups – A lasting solution for dislocations?

Mathias Brevik is a new PhD student from Kristiansund who evaluates Dual mobility cups in his planned PhD study. This is a collaboration project with Kristiansund and the Norwegian implant registry. He presented his project at the annual orthopedic meeting in Norway.



AI solution for CT-RSA

Collaboration with Brüssel university to develop a AI solution for CT-RSA. Initial results of the new AI based method were presented at the IRSA congress.

This is part of a PhD project of Amou Acke at Brüssel university hospital.



Body segmentation and CT

Integration of muscle quantity and quality into CT diagnostics. Development of an AI solution. This is a student project by Nadia Irandoust and Mehdi Aldujahili. Presented at the annual Norwegian orthopaedic meeting.



The environmental footprint of orthopaedic surgery

We perform a scoping review on the effect of waste production of orthopaedic surgery and which strategies that exist to minimize the pollution. This was a student project of Anine Karlsen

Other activities

Nordic hip symposium from Smith & Nephew

Stephan M. Röhrle held a talk about innovation in CT-RSA. A symposium on robotics in the hip surgery together with prof Davis from Birmingham university.



Dr. **Michaela Hansen** fra Odense University Hospital, Denmark was here for networking, RSA and collaboration on a hip project.



Jake Paul Lawrence Bastian from Adelaide University, Australia for a internship.



Congress and scientific meetings:

Prof. Stephan M. Röhl visited the **Hue University of Medicine and Pharmacy Hospital, Vietnam**. Symposium and Surgery.



The Norwegian Hip- and Knee society had its spring meeting at Svolvær, Lofoten, Norway. Dr Lars Engseth was organizer and chairman. Strephan contributed with talks on strategies and diagnostics in knee revision surgery.



Highlight 2025

International RSA congress in Vancouver, Canada. A group of 6 contributed to the congress with presentations, chairmen and discussions.

Lars Engseth won the **Valstard award for collaboration** with University in Nimvegen and Brüssel.

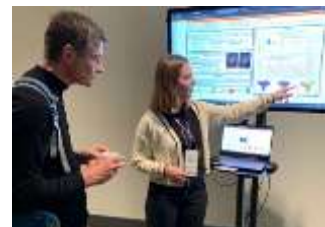


Canadian Orthopaedic meeting

CIRRO members attended the annual Canadian orthopaedic meeting. Interesting talks and networking.



Annual European radiology congress in Vienna, Manou Acke from Brüssel presented our collaboration project.



IRSA online meeting in March 2025 held a talk by Lars Engseth MD and PhD student:

CT-based migration analysis in a tibial implant compares to Radiostereometric analysis – 1-year results of a prospective single-group implant safety study.



Prof. Stephan M. Röhl contributed at the **World congress of orthopedic research**, Adelaide , Australia. Symposium on new developments of CT-RSA and its future implications. Together with Stuart Galloway, University of Adelaide, Bart Kaptein, University of Leiden and Olof Sandberg, Sectra.



Lars Engseth at the SPARK meeting at the University of Oslo. These are regular follow up meetings on innovations. A very inspirational and professional program.



Meeting with University in Brüssel.

Discussing projects and the future for developing an AI CT-RSA system.



European hip society

Prof. Nordsletten presented the worldwide longest RSA study on HXLPE cups. The congress also allowed to meet the CIRRO fellow Masako Kani from Kyoto university again.



Annual Norwegian orthopedic meeting:

CIRRO precentors:

- Conrad Charles
- Nadia Irandoust
- Mehdi Aldujahili
- Lars Engseth
- Frank David-Øhrn
- Lene Bergendal Solberg
- Marianne Westberg
- Magnus Høgvold



Kleivstua 2025:

We contributed to the annual research meeting of the orthopaedic department.

3 presenters from CIRRO:

- *Magnus Høgvold midtterm evaluation*
- *Henrik Fridheim*
- *Magnus Poulsen*



2 local CIRRO meetings

To follow up on PhD-students and group activities. We had the first one in April and the second one in September.

An important meeting place for all researcher of all stages – new ones and experienced ones!



International assignments

Prof. Stephan Röhrle was opponent at Leiden university. Excellent PhD defense of Thies van der Lelij on implant quality assurance and RSA.



Symposium on cementing THA

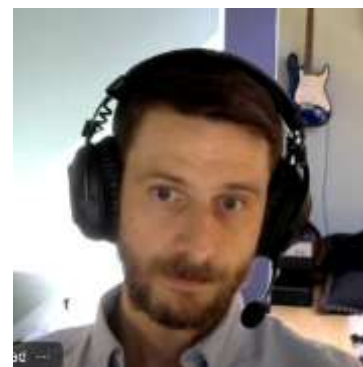
Symposium for doctors from Denmark, Sweden, Norway and Finland on surgical cementing technique in regie of Heræus GmbH, in Wehrheim, Germany.



IRSA activity

Wilhelm Mustad is in the webinar team organizing digital seminars worldwide.

Prof. Stephan M. Röhl is the vice president of the society



Projects overview

Hip projects

- RCT on the function of the Trochanteric Support Plate (TSP) in combination with the Dynamic Hip Screw (DHS)
- Dual Mobility cups. A lasting solution for hip dislocations
- Long time wear of Vit E infused HXLPE

Knee projects

- In vivo kinematics and performance of contemporary knee arthroplasty (PhD project OUH, in collaboration with HF Møre Romsdal)
- Minimal invasive gastrocnemius release (single project)

Methodological projects

- Motionanalysis with CTMA and IMA in the forefoot and the IS joint (part of the PhD projects)
- Precision of CTMA in the knee in collaboration with Kristiansund and the Radiology departments at OUH
- Experimental studies on CT-RSA with a phantom on dose reduction and precision
- Dosereduction for CT – RSA



Ankle and foot projects

- Investigating acute Lisfranc injuries in the foot and a new surgical procedure (PhD project OUH)
- Kinematics of the midfoot after Lisfranc injury (PhD project OUH)
- Stability of ankle arthroplasty (PhD project with Remedy at Diakonhjemmet)

Hand project

- A prospective randomized trial comparing two different wrist arthroplasties (PhD project OUH)
- New diagnostics for loose implants in the hand
- Register study for wrist implants
- StableTouch CT- study on CMC1 prothesis.

Spinal project

- INTRAKS study on spinal deformities (<https://www.intraks.org>)
Movement of the SI joint with CT-RSA

Upper extremity project

- Which position should be applied for diagnostic CT-RSA? (PhD project OUH)
- PROSA study: New diagnostics for loose implants in the shoulder
- Outcome of surgical treatment of elbow fractures in children (PhD project with Kalnes hospital)

Most important national and international collaborators

National

- Norwegian Arthroplasty register (NAR)
- Kristiansund hospital (MORE)
- Diakonhjemmet Hospital
- Lovisenberg Diaconal Hospital
- Haukeland University Hospital
- Kalnes Hospital
- Skien Hospital

International

- Leiden University, The Netherlands
- Kyoto University Orthopaedic Association, Japan
- Skåne University, Sweden
- SECTRA, Sweden
- UmRSA Biomedical, Sweden
- Brüssel university, Belgium
- Århus university, Denmark
- Sint Maartenskliniek Research, The Netherlands



Scientific production of the research group in 2025

2 Dissertations:

Cand.med. **Trygve Andreas Holm Glad** at Institute of Clinical Medicine defended 14.03.25 the thesis “Wrist arthroplasty; Migration, periprosthetic bone, and 2-year outcome” for the degree of PhD.



Cand.med. **Engelke Marie Randers** at Institute of Clinical Medicine defended 24.01.25 the thesis “Surgical treatment of sacroiliac joint pain” for the degree of PhD.



Peer reviewed original research articles : 8 (see homepage)

Selected publications:

Engseth LHW, Øhrn FD, Schulz A, Röhrl SM (2025)

CT-based migration analysis of a tibial component compared to radiostereometric analysis : one-year results of a prospective single-group implant safety study

Bone Joint J, 107-B (2), 173-180

DOI [10.1302/0301-620X.107B2.BJJ-2024-0356.R2](https://doi.org/10.1302/0301-620X.107B2.BJJ-2024-0356.R2), PubMed [39889761](https://pubmed.ncbi.nlm.nih.gov/39889761/)

De Bondt MR, Øhrn FD, Engseth LHW, Schulz A, Kaptein BL, Röhrl SM, Heesterbeek PJC (2025)

Precision evaluation of 2 CT-based radiostereometric analysis systems in a cadaver study





Acta Orthop, 96, 867-872

DOI [10.2340/17453674.2025.44949](https://doi.org/10.2340/17453674.2025.44949), PubMed [41287575](https://pubmed.ncbi.nlm.nih.gov/41287575/)

Tohen PS, Lindalen E, Nordsletten L, Röhrli SM (2025)

Low wear with vitamin E-infused highly cross-linked polyethylene : 14 years' follow-up of a randomized radiostereometric analysis study

Bone Joint J, 107-B (11), 1182-1188

DOI [10.1302/0301-620X.107B11.BJJ-2025-0273.R1](https://doi.org/10.1302/0301-620X.107B11.BJJ-2025-0273.R1), PubMed [41173047](https://pubmed.ncbi.nlm.nih.gov/41173047/)

Funding

- South-Eastern Norway Regional Health Authority (PhD program)
- Møre Romsdal Health Authority (PhD program)
- Medacta International AG
- Sophies Minde Health Fund (PhD program)
- The Research Council of Norway
- Health fund of western Norway (PhD program)



Hand



Group Leader

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Group Members

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- Lars-Eldar Myrseth, MD, RH
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- Anne-Mari Nissen Rosenlund, MD, Aker
- Anne Birgit Stavenes, OT, RH
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- Audun Høegh Tangerud, MD, Aker
- Rasmus Thorkildsen, MD/PhD, RH
- Frode Thu, MD, RH
- Tone Vaksvik, OT/PhD, RH
- Anders Heyerdahl Valeur, PT/MSc, RH
- Mona Winge, MD, RH

Research profile and aims

Clinical research related to hand, micro-, and peripheral nerve surgery and therapy.

Ongoing PhD projects

- Lødrup A: Neurovascular injuries due to paediatric elbow and forearm fractures
- Olsen OG: Early discovery of ischemia after replantation surgery





- Reiten HS: Shoulder function, activity, and patient-reported outcomes after surgery and rehabilitation in children and adolescents with obstetrical brachial plexus palsy
- Thu F : Brachial plexus injuries

Other ongoing projects

- Glad TH: Prospective follow-up of wrist replacements
- Glad TH: Long-term results after wrist replacements: Outcomes after 5 years in a randomized controlled trial
- Glad TH/Thorkildsen R: Prospective follow-up of trapeziometacarpal joint replacements
- Rosenberg A: Hand injuries
- Sletten IN/Winge MI: Phenotypes and associated anomalies in congenital upper limb anomalies
- Sletten IN/Winge MI: Time of diagnosis in congenital upper limb anomalies
- Tangerud A: Distal radius fractures in patients over 65 years: Outcomes after 3 and 5 years of a randomized controlled trial
- Tangerud A: CROFT 2/ Conservative or operative treatment of olecranon fractures
- Thorkildsen R: Prospective follow-up of trapeziometacarpal joint replacements
- Thorkilsen R: Contraceptive implants: Depth of placement in patients referred to a hand unit
- Vaksvik T: International validation of Children's Hand use Questionnaire
- Vaksvik T: Recovery 6 and 12 months after digital nerve repair in complex hand injuries
- Vaksvik T: Occupational therapy treatment strategies in patients after thumb amputation

Most important national and international collaborators

National

- Dept. of Otorhinolaryngology, Head and Neck Surgery, OUH
- Dept. of Plastic Surgery, OUH
- The Norwegian Institute of Public Health
- Sensocure AS

International

- Sahlgrenska University Hospital, Sweden
- Tampere University Hospital, Finland
- Södersjukhuset, Sweden
- Copenhagen University Hospital, Denmark
- Wilhelmstift Catholic Children's Hospital, Germany
- CoULD research group, USA
- Örebro University Hospital, Sweden



Scientific production of the research group in 2025

Peer reviewed original research articles: 6

Selected publications:

Rosales CP, Hansbø SE, Vaksvik T (2025)

Clinician- and patient-reported outcomes after flexor tendon repair: A 1-year prospective study

J Hand Ther, 39 (1), 189-197

DOI 10.1016/j.jht.2025.04.015, PubMed 40527671

Libberecht K, Neergård Sletten I, Shafie L, Hestmo MT, Hessman P, Björkman A (2025)

Treatment strategies for osteochondromas in the distal ulna - a multicentre comparative cohort study

J Hand Surg Eur Vol, 51 (3), 270-281

DOI 10.1177/17531934251382725, PubMed 41137401

Thorkildsen RD, Kleggetveit IP, Røkkum M (2025)

Anterior interosseous to ulnar nerve transfer for nine proximal injuries in continuity: clinical and neurophysiological assessment

J Hand Surg Eur Vol, 50 (11), 1545-1547

DOI 10.1177/17531934251328564, PubMed 40145431

Funding

- UiO
- OUH
- Sophies Minde Ortopedi AS
- Norwegian Physiotherapist Association



Orthopaedic traumatology



Group Leader

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- Sigbjørn Dimmen, Consultant, PhD
- Martine Enger, Consultant, PhD
- Wender Figved, Consultant, PhD
- Tore Fjalestad, Consultant, PhD
- Gunnar Flugsrud, Consultant, PhD
- Frede Frihagen, Consultant, PhD
- Marianne Westberg, Consultant, PhD
- Alexander Fraser, Consultant, PhD
- Johan Hellund, Consultant, PhD
- Elisabeth Ellingsen Husebye, Professor UiO/Consultant
- Lene Solberg, Consultant, PhD
- Jan Erik Madsen, Professor UiO / Consultant OUH
- Lars Nordsletten, Professor UiO / Consultant OUH
- Olav Røise, Professor UiO
- Mads Sundet, Consultant, PhD
- Are Haukåen Stødle, Consultant, PhD
- Marius Molund, Consultant, PhD

Research profile and aims

The Orthopaedic Trauma Research Group aims to initiate and conduct clinical and experimental trials at a high international level related to Orthopaedic Trauma. 15–25 continuously ongoing PhD projects, mainly externally financed, provide the main scientific production. Local and national registries on pelvic fractures, hip fractures and polytrauma are major contributors to high quality clinical studies.

Ongoing PhD projects

- “Does the trochanteric stabilizing plate increase stability in trochanteric hip fractures?”
Carl Erik Alm





- “Complex fractures around the elbow”
Kristin Jørgensen
- “Primary and secondary total hip arthroplasty following acetabular fractures”
Ragnhild Kirkebø
- “Advances in diagnosis and treatment of unstable, acute Lisfranc injury”
Magnus Poulsen
- “Proximal hamstring avulsions – prognosis and treatment”
Anne Mari Rosenlund
- Assessment and treatment of weight-bearing stable suprasyndesmotic ankle fractures”
Ola Saatvedt
- “Improvements in osteotomy techniques based on 3D print technology”
Geir Solberg
- “The effect of salmon bone meal on bone healing in rats”
Ole Tomelthy
- “Operative treatment of calcaneal fractures: resolving controversies and shaping the future”
Wolfram Grün
- “Chronic Plantar Fascitis treated with Proximal Medial Gastrocnemius recession. Long term outcomes, prognostic factors and gait analysis” Martin Riiser
- “Stress unstable but weightbearing congruent. Weber B/SER4a ankle fractures. Diagnostic and therapeutic implications” Martin Gregersen
- “Periprosthetic Acetabular Fractures and Treatment” Maja Rognstad
- “Rehabilitation of persons with lower limb amputation: A retrospective cohort analysis” Linn Ree Schwanborg
- “Complications and outcomes in shoulder surgery, studies on implant stability, revision cases, and fracture outcomes” Henrik Lid Fridheim
- “Complications following proximal femur fractures” Magnus Høgevoid

Ongoing postdoc projects

- “The Hip Fracture Surgical Approach Trial”
Mads Sundet
- “Operative treatment of proximal humerus fractures with RTSA – long term results”
Alexander Frås





Most important national and international collaborators

National

- Akershus University Hospital (AHUS)
- Asker & Bærum Hospital
- Diakonhjemmet Hospital
- Institute for Surgical Research, OUH
- Gjøvik Hospital
- Lovisenberg Diaconal Hospital
- Martina Hansens Hospital
- Norwegian School of Sport Sciences
- Sunnaas Rehabilitation Hospital
- The Norwegian Arthroplasty Register
- Østfold Hospital Trust

International

- University of Tampere, Finland
- Aarhus University Hospital, Denmark
- AO Trauma
- Sahlgrenska University Hospital, Gothenburg, Sweden
- Steadman Philippon Research Institute, Colorado, USA
- Uppsala University Hospital, Sweden
- ISOPS (International Society of Pelvic Surgeons)
- Shrewsbury & Telford Hospital Trust, UK
- Duke University, North-Carolina, USA

Scientific production of the research group in 2025

PhD dissertations:

Cand. Med. Morten Eikrem

“Distal Radius Fractures: New Surgical Treatment and Patient Injury Compensation”, University of Oslo, Institute of Clinical Medicine, defended 2025 January 16.

Cand. Med. Kaare Midtgaard

“Operative treatment of isolated, displaced olecranon fractures”, University of Oslo, Institute of Clinical Medicine, defended 2025 October 3.

Peer reviewed original research articles: 23

Invited lectures at international congresses: Numerous

Selected publications:

Midtgaard, K, Flugsrud GB, Jonsson KB, Snellman G, Coucheron M, Djuv A, Johnson LG, Laudal E, Mjaaland KE, Nicolaysen T, Madsen JE, Frihagen F. Tension Band Wiring Versus Precontoured Plate Fixation for 2-Part and Multifragmented Olecranon Fractures: A Prospective Randomized Trial *Journal of Bone and Joint Surgery – American Volume (JBJS Am)*. Published: July 11 2025 | DOI: 10.2106/JBJS.24.01461

Saatvedt O, Furunes H, Schubert PF, Fidje Ø, Molund M. MRI Evaluation of Ligamentous Injury in Weightbearing-Stable Suprasyndesmotic Ankle Fractures: A Prospective Observational Study. *Foot and Ankle Int*. Published: July 28. 2025 | DOI: 10.1177/10711007251352549





Poulsen JM, Röhrli S, Schulz A, Stødle AH. Prospective Validation of a Weightbearing CT Stability Threshold for Subtle Lisfranc Injuries. *Foot and Ankle Int.* Published: October 31 2025| DOI: 10.1177/10711007251374674

Funding

- South-Eastern Norway Regional Health Authority
- UiO
- OUH
- Endowment and funds



Oslo Sports Trauma Research Center - OSTRC



Group Leaders

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Roald Bahr (Co-chair) Professor, NIH (roald.bahr@nih.no), MD/PhD

Group Members

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- Kathrin Steffen, MSc/PhD, Research Scientist, OSTRC
- Asbjørn Årøen, MD/PhD, Professor, Ahus
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- Ben Clarsen, PT/PhD, Research Scientist, OSTRC
- Sverre Løken, MD/PhD, OUH
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- Tonje Reier-Nilsen, MD/PhD, Olympiatoppen
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- Stian Kjennevold, MD/PhD fellow, Ahus
- Cecilie B Isneron, MD/PhD fellow, OUH, Ahus
- Torstein Dalen-Loretsen, PhD fellow, OSTRC
- Hilde Fredriksen, PT/PhD fellow, OSTRC
- Nils F Holm Moseid, MD/PhD fellow, OSTRC
- Hege Heiestad, PT/MSc, OSTRC
- Bahar Hassanmirzaei, MD/PhD fellow, OSTRC
- Eirik Halvorsen Wik, PT/PhD, Aspetar





Group Members (continued)

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- Roar Amundsen, PhD fellow, OSTRC
- Solveig Thorarinsdottir, PT/PhD fellow, OSTRC
- Hege Grindem, PT/PhD, Research Scientist, OSTRC
- Merete Møller, PT/PhD, Research Scientist, OSTRC
- Julie Stang, PhD, Research Scientist, NIH
- Trine Stensrud, PhD, Professor NIH
- Andreas Persson, MD/PhD, OUH
- Solveig Hausken, MSc, Research Scientist, OSTRC
- Lasse Mausehund, MSc/PT, PhD fellow, OSTRC/NIH
- Christian Moen, MSc/PT, PhD fellow, OSTRC
- Emilie Scholten Sjølie, MSc/PT, PhD fellow, OSTRC
- Caroline Kooy Tveiten, MD/PhD fellow
- Ingrid Trøan, PT/PhD fellow
- Monica Holmsve, MD/PhD fellow, OSTRC
- Sara Dahlén, MD/PhD fellow, OSTRC
- Ingvild Kåshagen, MSc/PhD fellow, OSTRC
- Maren Gundersen, MD/PhD fellow, Ahus
- Tor Kristian M Andresen, MD/PhD fellow, Ahus
- Cecilie Nagy, MD/PhD fellow, OSTRC
- Kyle Martin, MD/PhD fellow, OSTRC
- Camilla Christensen, MSc, PhD fellow, OSTRC
- Raju Rimal, PhD, Research Scientist, OSTRC
- Filip Vuletic, MD
- Annalise Abbott, MD

Associated group members

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- Emilie Bratt Jakhell, MSc, OSTRC
- Erling Hisdsal, MSc, OSTRC
- Ingrid Eir Thorp Eythorsdottir, MSc, OSTRC

Research profile and aims

The Oslo Sports Trauma Research Center was established in May 2000 at the Norwegian School of Sport Sciences as a joint research venture between the Department of Orthopaedic Surgery (Oslo University Hospital), and the Department of Sports Medicine (Norwegian School of Sport Sciences). The aim is to prevent injuries and other health problems in sports through research on risk factors, injury mechanisms and prevention methods, with a particular emphasis on football, team handball and alpine





skiing/snowboarding. In addition to primary injury prevention research, our cartilage and ligament research group is focused on secondary prevention, i.e. surgical and nonsurgical treatment options to prevent future osteoarthritis.

The goal of the center is to strengthen Norwegian health research by providing a catalyst for innovation among highly-ranked researchers and delivering superior research training and mentorship. The emphasis is not only on the production of new knowledge, but also the translation of research findings into improvements in the health of Norwegians and the Norwegian health care system.

Ongoing projects

In 2025 the Oslo Sports Trauma Research Center has published 80 articles in international journals with peer review. 16 master's students have defended their master's degrees and 2 PhD students have defended their dissertations. By the end of 2025 the Center had 89 ongoing projects, 2 accepted and 19 submitted articles. In addition, 19 projects were in the planning stage and 8 projects were temporarily on hold. You can find a complete list of projects in the Center's annual rapport for 2025.

Most important national and international collaborators

National

- The Norwegian Olympic and paralympic committee and confederation of sports

International

- Steadman Philippon Research Institute, Vail, USA
- International Olympic Committee (IOC)
- International Ski Federation
- Federation Internationale de Football Association
- Federation Internationale de Volleyball
- Aspetar, Doha, Qatar
- Twin Cities Orthopedics, Edina and Eagan, Minnesota, USA

Scientific production of the research group in 2025

Peer reviewed original research articles: 80

Other publications: 13

Invited lectures at international congresses/webinar: 59

Doctoral thesis:

Cecilie Benedicte Isern.

Sudden cardiac arrest in young Norwegians. Assessing the role of exercise and implications for prevention strategies.

Universitetet i Oslo 2025. ISBN: 978-82-348-0711-4

R. Kyle Martin.

Predicting anterior cruciate ligament: Reconstruction outcome machine learning analysis of National Knee Ligament Registries. Norges idrettshøgskole 2025. ISBN: 978-82-502-0634-2.



Selected publications:

Sophie Steenstrup; Jo Kramer-Johansen; Hilde Moseby Berge.

Saving lives together in sport: A pilot study attempting to increase the number and availability of automated external defibrillators and to initiate voluntary training in cardiopulmonary resuscitation with the use of automated external defibrillators in Norwegian amateur football clubs. Resuscitation 2025; 209. <https://doi.org/10.1016/j.resuscitation.2025.110586>

Jackie L. Whittaker; Anu M. Räisänen; Chelsea Martin; Jean Michel Galarneau; Maitland Martin; Justin M. Losciale; Garrett S. Bullock; Marc Olivier Dubé; Mario Bizzini; Matthew N. Bourne; H. Paul Dijkstra; Michael Girdwood; K. Alix Hayden; Martin Hägglund; Shreya McLeod; Nonhlanhla Sharon Mkumbuzi; Andrea Britt Mosler; Myles Calder Murphy; Grethe Myklebust; Merete Møller; Juliana Melo Ocarino; Oluwatoyosi B.A. Owoeye; Debbie Palmer; Kati Pasanen; Ebonie Kendra Rio; Kristian Thorborg; Marienke Van Middelkoop; Evert Verhagen; Stuart J. Warden; Matthew Whalan; Kay M. Crossley; Carolyn A. Emery.

Modifiable risk factors for lower-extremity injury: A systematic review and meta-analysis for the Female, woman and/or girl Athlete Injury pRevention (FAIR) consensus. British Journal of Sports Medicine 2025; 59(21). <https://doi.org/10.1136/bjsports-2025-109902>

Michael Kjær; Jesper Petersen; Michael Ries Dünweber; Jesper Løvind Andersen; Lars Engebretsen; Stig Peter Magnusson.

Dilemma in the treatment of sports injuries in athletes: Tendon overuse, muscle strain, and tendon rupture. Scandinavian Journal of Medicine & Science in Sports 2025; 35(2). <https://doi.org/10.1111/sms.70026>

Funding

- Norwegian Ministry of Culture
- The Research Council of Norway
- International Olympic Committee
- Norwegian Olympic and Paralympic Committee and Confederation of Sports
- Norwegian School of Sport Sciences
- Smith & Nephew
- The Savings Bank Foundation DNB
- Stiftelsen DAM
- Den norske legeforening - Fond til kvalitetsforbedring og pasientsikkerhet
- UEFA
- FIFA
- Stiftelsen Sophies Minde
- Norwegian Handball Federation
- Various grants from other sources





Research group SPINE



Group Leader

Christian Hellum, MD/PhD, Dept of Orthopaedics (chrhel@ous-hf.no)

Group Members

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- Jon Dahl, MD/PhD
- Joao Reis, MD
- Roger Trana, MD
- Ole Rasmus Robak, MD
- Mads Peder Rolfsen, MD, PhD-cand
- Torstein Schrøder-Aasen, MD/PhD
- Engelke Randers, MD, PhD-cand
- Filip Dolatowski, MD, PhD
- Svend Vinje, MD
- Jon Olav Rigsby, MD
- Rolf Riise, MD
- Vinjar Hansen, MD
- Ole Christian Aalhaug, MD/PhD
- Sverre Mjølnes, MD

Associate Group Members

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- Jens Ivar Brox, Professor
- Kari Indrekvam, Professor
- Oliver Grundnes, MD/PhD
- Tore Solberg, MD/PhD
- Britt Stuge, Physical therapist, PhD
- Inger Holm, Professor
- Ivar Austevoll, MD, PhD-cand
- Håvard Furunes, MD, PhD-cand
- Erland Hermansen, MD, PhD-cand
- Frode Rekeland, MD, PhD-cand
- Stephan Röhrli MD/PhD
- Ansgar Espeland MD/PhD
- Hasan Banitalebi MD
- Karianne Gammelsrud MD/PhD
- Simran Kaur, MD
- Tore Solberg, Professor
- Paul Gerdhem, Professor
- Helena Brisby, Professor
- John-Anker Zwart, Professor



Research profile and aims

The main intention of the group is to promote clinical spine research.

Ongoing projects

National multicentre studies and PhD:

- **NORDSTEN-study** – clinical trials comparing the efficacy of different surgical methods for spinal stenosis and degenerative spondylolisthesis and spinal stenosis. Most hospitals in Norway performing spine surgery participate, including orthopaedic and neurosurgical departments. Christian Hellum is the leader of the scientific committee. He has been the supervisor of Ivar Austevoll and co-supervisor for Erlend Hermansen, Frode Rekeland and Hasan Banitalebi. 10 year follow-up is prepared.
- **Modic study** – started in May 2015 (financed by NFR, The Western Norway Regional Health Authority and Central Norway Regional Health Authority, and including 3 doctoral students). This is a double-blind clinical trial evaluating the effectiveness of antibiotics in selected patients with back pain and altered endplate morphology. Main outcomes published in 2019. Furthermore a biopsy study on patients with Modic changes was planned in 2016, and started in 2018. Mads Peder Rolfsen is a PhD candidate in this project, supervised by Christian Hellum. AHUS, Stavanger University Hospital and Haukeland University Hospital participate in the biopsy study. This collaboration also include the department of Microbiology by Karianne Gammelsrud, Pathology and Medical Genetics at OUH. Outcomes will be presented on ISSLS in Cape Town May 2026.
- A study on patients with chronic low back pain is in planning comparing non surgical treatment with fusion surgery. The study is financed by Central Norway Regional Health Authority. Sverre Mjønes is the PhD candidate supervised by Christian Hellum and Philip Dolotowski. This is a multicenter study in collaboration with Haukeland University Hospital, Drammen sykehus and Akershus Universitetssykehus. Inclusion of patients started in 2024.
- **SIFSO study** – (Sacrolilac Fusion vs Sham Operation) The inclusion was finalized in october 2021. This is a double blinded randomized controlled trial comparing sacroiliac joint fusion vs sham surgery. Engelke Randers is the PhD candidate and the project is supervised by Britt Stuge, Stephan Røhrl and Lars Nordsletten. This is a collaboration with prof. Gerdhem in Karolinska Hospital in Stockholm, Sweden and finished in 2024. Engelke Randers dissertated 2025, but publication of 2 years outcome will be published and 5 years outcome is planned.
- **Study on Thoracolumbar Burst Fractures (SunBurst):** Multinational RCT investigating the effect of operative vs. conservative treatment on vertebral burst fractures (A3 and A4 type fracture without neurological deficit). This Trial was designed and initiated by the Swedich Fracture Register and Professor Paul Gerdhem is the guarantor. Main site investigator: Dr Filip Dolotowski, MD PhD. This study finished inclusion of patients in 2024. Outcomes will be presented in 2026.
- Sara Tronstad is planning a PhD with Torstein Schrøder Aasen as supervisor
- **Study of adjacent level degeneration after fusion surgery of the spine.** The study is a multicenter randomized register study. The study is in planning, but will start inclusion of patients in 2026. Simran Kaur is affiliated to AHUS and Formi at OUS and is PhD candidate on this project. We received funding from South-Eastern Norway Regional Health Authority 2024.



Other studies and PhD:

- “Sacroiliac joint fusion for treatment of sacroiliac pain”
PhD student: Engelke Randers, MD
Supervisors: Britt Stuge, Stephan Røhrl and Lars Nordsletten
Status: Study ended 2024.
- “Scoliosis in patients with cerebral palsy”
PhD student: Sven Vinje. Planned dissertation 2026
Supervisors: Thomas Johan Kibsgård, Terje Terjesen, Reidun Jahnsen
Status: Study ongoing
- “Indications and Treatment of Adult Kypho- Scoliosis” (INTRAKS Study)
PhD student: Vinjar Hansen. Planned dissertation 2026
Supervisors: Stephan Röhrl, Thomas Kibsgård og Christian Hellum
Status: Inclusion of patients completed.

Manuscripts in preparation:

- In planning of thoracolumbar fracture study, OUH, Orthopaedic department
Filip Dolatowski, Torstein Schrøder-Aasen

Most important national and international collaborators

National

- NORDSTEN and MODIC studies/Biopsy study of Modic changes, include most spine surgical departments and out patient clinic in phys med & rehab, and some spine out patient clinics (reuma in Norway). Further Radiological departments at OUH, AHUS and Haukeland University Hospital, Departments of Microbiology, Pathology and Medical Genetics, OUH
- Thomas Natvik, Haukeland University Hospital, derformity register and Erik Aunan, Lillehammer
- The Norwegian Registry for spine surgery

International

- Helena Brisby, Dept. of Orthopaedics, Sahlgrenska University Hospital, Sweden
- Bungo Otsuki, Kyoto Nakagyo Ward, Japan
- Paul Gerhem, Karolinska sjukhuset, Stockholm, Sweden
- Fredrik Stromqvist, Orthopaedic dept., Skåne University Hospital, Sweden





Scientific production of the research group in 2025

Peer reviewed original research articles: 7

Selected publications:

[ISSLS Prize in Clinical Science 2025: A randomized trial on three different minimally invasive decompression techniques for lumbar spinal stenosis. Five years follow ...](#)

Erland Hermansen et al European spine Journal 2025

[Surgeon recommendation and outcomes of decompression with vs without fusion in patients with degenerative spondylolisthesis](#)

Andreas Seip et al Jama Network Open 2025

[Reliability of surgeon-reported MRI findings to a national spine register](#)

OK Alhaug, H Furunes, S Kaur, N Blomfeldt, [FC Dolatowski](#)

Acta Neurochirurgica, 2025



REMEDY – Center for treatment of Rheumatic and Musculoskeletal Diseases



Group Leader

Espen A. Haavardsholm, Professor in Rheumatology, UiO, Head of Research and Innovation, Diakonhjemmet Hospital, and Center director REMEDY
(e.a.haavardsholm@medisin.uio.no)

Group Members

- Ida K. Haugen, Professor, MD
- Sella Provan, Professor/consultant, MD
- Nina Østerås, Professor, PT
- Anne Therese Tveter, Professor, PT
- Ingvild Kjeklen, Professor/OT
- Lena Nordberg, Associate professor/MD
- Till Uhlig, Professor/consultant, MD
- Hilde Berner Hammer, Professor emerita/consultant, MD
- Tore K. Kvien, Professor emeritus/MD
- Siri Lillegraven, Senior researcher, Head of clinical research unit, MD
- Silje Syversen, Senior researcher/consultant, MD
- Guro Løvik Goll, Senior researcher/consultant, MD
- Anne Grete Semb, Senior researcher, MD (cardiologist)
- Anna Birgitte Aga, Senior researcher /consultant, MD
- Nina Sundlisæter, Senior researcher / consultant, MD
- Rikke Moe, Senior researcher/PT
- Alexander Mathiessen, Postdoctoral fellow/MD
- Inger Jorid Berg, Postdoctoral fellow/MD
- Ulf Sundin, Postdoctoral fellow/MD
- Pernille Steen Pettersen, Postdoctoral fellow/MD
- Maren Paus, PhD fellow/MD

Research profile and aims

REMEDY - Center for treatment of Rheumatic and Musculoskeletal Diseases is a “Centre for Clinical Treatment Research”. It was established in 2022 with funding from the Research Council of Norway (128 million NOK) as a targeted, long-term investment to strengthen and further develop outstanding research and innovation environments to improve treatment. In addition, REMEDY is supported by a generous grant from the Olav Thon Foundation (32 million NOK). Diakonhjemmet Hospital is the host institution for the research center. In addition, four institutions are involved as partners - Oslo University Hospital, University of Oslo, Norwegian Rheumatism Association and the MAGIC Foundation.



Our aim is to evolve patient care in the field of rheumatology and musculoskeletal diseases (RMDs). RMDs constitute a heterogeneous group of diseases associated with significant morbidity, reduced quality of life, and increased mortality. The conditions have major consequences for society and the individual.

We seek to develop novel therapies and excellent treatment strategies by adopting a comprehensive research approach to the field, organized in seven workpackages. We strive to conduct clinical studies that have the potential to change clinical practice.

Please see [REMEDY annual report for 2025](#)

Ongoing projects

- RA-DRUM study (Therapeutic drug monitoring RCT)
- NOR-DMARD study (longitudinal follow-up after drug intervention)
- ARCTIC-REWIND (Drug tapering in RA, RCT)
- MERINO (first-line treatment of Hand osteoarthritis)
- NOR-CACTUS (comparing treatment strategies for Carpal Tunnel Syndrome)
- The Norwegian part of NORD-STAR (first-line treatment of RA, RCT)
- NOR-GOUT (longitudinal study on gout patients)
- ATACC-RA (cardiovascular risk in RA)
- SURF-RA (cardiovascular risk in RA and related diseases)
- BioTest (Experimental precision medicine involving synovial biopsies)
- HIFSAT (study of surgical approach in hip fracture)
- NOR Sprint (Treatment strategies in early psoriatic arthritis)
- PICASSO (treatment of CMC1-osteoarthritis)
- Nor-vaC (immunological response to Covid-19 vaccines in IMIDs)
- RIMRA (Rheumatic immune-related side effects in patients treated with immunotherapy)
- ARCTIC-FORWARD (10 year follow-up of the ARCTIC patients)
- NOR-CACTUS (Treatment strategies in carpal tunnel syndrome)
- A number of other ongoing projects and trials, for complete overview follow this [link](#)

Most important national and international collaborators

National

- All Norwegian rheumatological departments
- Several rehabilitation institutions

International

- Prof. Daniel H. Solomon, Boston, USA
- Prof. Desiree van der Heijde, Leiden, Netherlands
- Prof. Johan Askling, Stockholm, Sweden
- Prof. Ronald F. van Vollenhoven, Amsterdam, Netherlands
- Prof. Merete Lund Hetland, Copenhagen, Denmark
- Prof. Mikkel Østergaard, Copenhagen, Denmark
- MD, PhD Lene Terslev, Copenhagen, Denmark
- Prof. Nicola Dalbeth, Auckland, New Zealand



Funding

- Southern and Eastern Norway Regional Health Authority
- The Research Council of Norway
- The Olav Thon Foundation
- KLINBEFORSK
- Horizon Europe
- For complete overview of funding see our annual report from 2025, page 119

Scientific production of the research group in 2025

Peer reviewed original research articles: 73

Selected publications:

Occupational therapist-led versus rheumatologist-led care in people with hand osteoarthritis in Norway: an open-label, multicentre, randomised controlled, non-inferiority trial. Polster A, Olsen U, Asphaug L, Bergsmark K, Christensen B, **Haugen IK**, Hennig T, Hermann-Eriksen M, Hove Å, Sjøvold T, Sexton J, Tveter AT, Kjekken I. **Lancet Rheumatol.** **2025** Aug;7(8):e533-e543. doi: 10.1016/S2665-9913(25)00040-2. Epub 2025 Jun 10. PMID: 40513596 Clinical Trial.

[Remote monitoring or patient-initiated care in axial spondyloarthritis: a 3-armed randomised controlled noninferiority trial.](#) Berg IJ, Kristianslund EK, Tveter AT, Sexton J, Bakland G, Gossec L, Hakim S, Macfarlane GJ, Moholt E, Provan SA, Thomassen EEK, de Thurah A, **Haavardsholm EA**, Lillegraven S, **Osteras N.** **Ann Rheum Dis.** **2025** Jul;84(7):1140-1150. doi: 10.1016/j.ard.2025.04.019. Epub 2025 May 23. PMID: 40413111 . Clinical Trial.

[A DNA methylation-based algorithm for diagnosing rheumatoid arthritis.](#) Riskedal E, Jugessur A, Syversen SW, Hadley CL, Harris JR, Mjaavatten MD, Sexton J, Neumann J, Brinkmann GH, Goll GL, Stenvik GE, Bøås H, Søråas A, Kalleberg KT, Lillegraven S, **Haavardsholm EA.** **Arthritis Res Ther.** **2025** oct 17;27(1):192. doi: 10.1186/s13075-025-03649-x. PMID: 41108019





Publication list OPK research groups 2025

(original articles or review articles)

Aga R, Søgaaard AJ, Holvik K, Hagen TP, Idland G, Jeyananthan A, **Melhuus KR**, Rognerud M, Samuelsen SO, Meyer HE (2025)

Effectiveness of a fall and fracture prevention pathway on hip fracture risk, need of permanent care and mortality: a controlled before-and-after study

Age Ageing, 54 (6)

DOI [10.1093/ageing/afaf161](https://doi.org/10.1093/ageing/afaf161), PubMed [40552367](https://pubmed.ncbi.nlm.nih.gov/40552367/)

Alhaug OK, Furunes H, Kaur S, Blomfeldt N, **Dolatowski FC** (2025)

Reliability of surgeon-reported MRI findings to a national spine register

Acta Neurochir (Wien), 167 (1), 105

DOI [10.1007/s00701-025-06524-5](https://doi.org/10.1007/s00701-025-06524-5), PubMed [40227524](https://pubmed.ncbi.nlm.nih.gov/40227524/)

Alt V, Szymski D, Rupp M, Fontalis A, Vaznaissiene D, Marais LC, Wagner C, Walter N, on behalf the Country Delegates of the European Bone and Joint Infection Society*, Alt V, Clauss M, Carlo Ferrari M, Giannitsioti E, Glehr M, Grenho A, Madjarevic T, Moojen DJ, Huotari K, Karaismailoglu B, Osinga R, Neyt J, Sallai I, Sambri A, Sanz-Ruiz P, Sousa R et al. (2025)

The health-economic burden of hip and knee periprosthetic joint infections in Europe : a comprehensive analysis following primary arthroplasty

Bone Jt Open, 6 (3), 298-311

DOI [10.1302/2633-1462.63.BJO-2024-0225.R1](https://doi.org/10.1302/2633-1462.63.BJO-2024-0225.R1), PubMed [40054494](https://pubmed.ncbi.nlm.nih.gov/40054494/)

Andreasen C, Dahl C, Frihagen F, Borgen TT, Basso T, Gjertsen JE, Figved W, Wisløff T, Hagen G, Apalset EM, Stutzer JM, **Lund I**, Hansen AK, Nissen FI, Joakimsen RM, Syversen U, Eriksen EF, **Nordsletten L**, Omsland TK, Bjørnerem Å, **Solberg LB** (2025)

Fracture liaison service (FLS) is associated with lower subsequent fragility fracture risk and mortality: NoFRACT (the Norwegian capture the fracture initiative)

Osteoporos Int, 36 (3), 501-512

DOI [10.1007/s00198-024-07376-y](https://doi.org/10.1007/s00198-024-07376-y), PubMed [39808195](https://pubmed.ncbi.nlm.nih.gov/39808195/)

Arhos EK, Smith AH, Ito N, **Risberg MA**, Snyder-Mackler L, Silbernagel KG (2025)

Use of the Uninvolved Limb as Comparator When Calculating Return to Sports Hop Test Symmetry After ACL Reconstruction

Sports Health, 18 (1), 118-124

DOI [10.1177/19417381251334639](https://doi.org/10.1177/19417381251334639), PubMed [40317217](https://pubmed.ncbi.nlm.nih.gov/40317217/)

Battaglia M, Arner JW, **Midtgaard KS**, Haber DB, Peebles LA, Peebles AM, Ganokroj P, Whalen RJ, Provencher MT, Torre G, Ciatti R, Mariani PP (2025)

Early versus standard return to play following ACL reconstruction: impact on volume of play and career longevity in 180 professional European soccer players: a retrospective cohort study

J Orthop Traumatol, 26 (1), 29

DOI [10.1186/s10195-025-00837-y](https://doi.org/10.1186/s10195-025-00837-y), PubMed [40353956](https://pubmed.ncbi.nlm.nih.gov/40353956/)

Berg B, Roos EM, Englund M, Kise NJ, **Engebretsen L**, Eftang CN, **Risberg MA** (2025)

Arthroscopic partial meniscectomy versus exercise therapy for degenerative meniscal tears: 10-year follow-up of the OMEX randomised controlled trial

Br J Sports Med, 59 (2), 91-98

DOI [10.1136/bjsports-2024-108644](https://doi.org/10.1136/bjsports-2024-108644), PubMed [39326908](https://pubmed.ncbi.nlm.nih.gov/39326908/)





Berger SG, Berntsen KS, **Risum K**, Marstein HS, Sjaastad I, Stokke MK, Sanner H (2025)
Predictors of persistent active disease and the longitudinal development of organ damage, patient-reported outcomes and autoantibodies in long-term juvenile dermatomyositis

RMD Open, 11 (2)

DOI [10.1136/rmdopen-2025-005598](https://doi.org/10.1136/rmdopen-2025-005598), PubMed [40480648](https://pubmed.ncbi.nlm.nih.gov/40480648/)

Bergström IA, Uleberg O, Vik A, Flusund AH, Köster AK, Hara S, **Dahlhaug M**, Moen KG (2025)
Moderate and severe traumatic brain injury: abbreviated injury scale scoring and coding of traumatic axonal injury from early MRI

BMC Emerg Med, 25 (1), 160

DOI [10.1186/s12873-025-01319-4](https://doi.org/10.1186/s12873-025-01319-4), PubMed [40830430](https://pubmed.ncbi.nlm.nih.gov/40830430/)

Bjørnerem Å, Khoshkhabari J, Hansen AK, Borgen TT, Frihagen F, **Solberg LB**, Omsland TK, Nissen FI (2025)

Adherence to secondary fracture prevention is associated with reduced risk of subsequent fractures

Osteoporos Int, 36 (11), 2263-2272

DOI [10.1007/s00198-025-07697-6](https://doi.org/10.1007/s00198-025-07697-6), PubMed [40993438](https://pubmed.ncbi.nlm.nih.gov/40993438/)

Borgen TT, Brunborg C, Frihagen F, **Solberg LB**, Andreassen C, Figved W, Apalset EM, Gjertsen JE, Basso T, Stutzer JM, **Nordsletten L**, Eriksen EF, Bjørnerem Å (2025)

External validation of FRISBEE 2-year and 5-year fracture prediction models in a fracture liaison service cohort

Arch Osteoporos, 20 (1), 107

DOI [10.1007/s11657-025-01516-5](https://doi.org/10.1007/s11657-025-01516-5), PubMed [40751006](https://pubmed.ncbi.nlm.nih.gov/40751006/)

Carmont MR, Andresen TK, Morgan F, Nilsson-Helander K, **Husebye EE** (2025)

The description, measurement with inter- and intra-observer reliability of calcaneal tunnel placement for tendon transfer in Achilles tendon reconstruction

J Exp Orthop, 12 (2), e70223

DOI [10.1002/jeo2.70223](https://doi.org/10.1002/jeo2.70223), PubMed [40510621](https://pubmed.ncbi.nlm.nih.gov/40510621/)

Cronström A, **Risberg MA**, Englund M, Strauss DB, Neuman P, Tiderius CJ, Ageberg E (2025)

Symptoms indicative of early knee osteoarthritis after ACL reconstruction: descriptive analysis of the SHIELD cohort

Osteoarthr Cartil Open, 7 (1), 100576

DOI [10.1016/j.ocarto.2025.100576](https://doi.org/10.1016/j.ocarto.2025.100576), PubMed [39991670](https://pubmed.ncbi.nlm.nih.gov/39991670/)

Cuevas-Østrem M, Wisborg T, **Røise O**, Helseth E, Jeppesen E (2025)

Decision-making in interhospital transfer of traumatic brain injury patients: exploring the perspectives of surgeons at general hospitals and neurosurgeons at neurotrauma centres

BMC Health Serv Res, 25 (1), 234

DOI [10.1186/s12913-024-11968-z](https://doi.org/10.1186/s12913-024-11968-z), PubMed [39934806](https://pubmed.ncbi.nlm.nih.gov/39934806/)

De Bondt MR, Øhrn FD, **Engseth LHW**, Schulz A, Kaptein BL, **Röhrli SM**, Heesterbeek PJC (2025)

Precision evaluation of 2 CT-based radiostereometric analysis systems in a cadaver study

Acta Orthop, 96, 867-872

DOI [10.2340/17453674.2025.44949](https://doi.org/10.2340/17453674.2025.44949), PubMed [41287575](https://pubmed.ncbi.nlm.nih.gov/41287575/)

Duong V, Abdel Shaheed C, Ferreira ML, Narayan SW, Venkatesha V, Hunter DJ, Zhu J, Atukorala I, Kobayashi S, Goh SL, Briggs AM, Cross M, Espinosa-Morales R, Fu K, Guillemin F, Keefe F, Stefan Lohmander L, March L, Milne GJ, Mei Y, Mobasher A, Namane M, Peat G, **Risberg MA**, Sharma S et al. (2025)

Risk factors for the development of knee osteoarthritis across the lifespan: A systematic review and meta-analysis





Osteoarthritis Cartilage, 33 (10), 1162-1179
DOI [10.1016/j.joca.2025.03.003](https://doi.org/10.1016/j.joca.2025.03.003), PubMed [40174718](https://pubmed.ncbi.nlm.nih.gov/40174718/)

Dworsky-Fried J, Kotipalli S, Vivekanantha P, Alomari M, Tapasvi S, **Moatshe G**, Martin R, de Sa D (2025)

Rates of Return to Sport After Surgical Management of Multiligament Knee Injuries Are Higher Than Previously Described yet Highly Heterogeneous: A Systematic Review

Arthroscopy, 41 (11), 4911-4927.e13
DOI [10.1016/j.arthro.2025.06.006](https://doi.org/10.1016/j.arthro.2025.06.006), PubMed [40543683](https://pubmed.ncbi.nlm.nih.gov/40543683/)

Engel S, Rosseland LA, Smits M, Skurtveit SO, Gran JM, Nordseth T, **Røise O**, Jacobsen HB (2025)
Population-based multistate modelling of peritraumatic opioid use among trauma patients from the Norwegian Trauma Registry

Br J Anaesth, 135 (2), 390-400
DOI [10.1016/j.bja.2025.05.008](https://doi.org/10.1016/j.bja.2025.05.008), PubMed [40615331](https://pubmed.ncbi.nlm.nih.gov/40615331/)

Enger M, Schmidt M, Nordsletten L, Moosmayer S, Pripp AH, **Melhuus K**, Brox JI (2025)

Physical examination tests in the acute phase of shoulder injuries with negative radiographs: a diagnostic accuracy study

BMC Musculoskelet Disord, 26 (1), 546
DOI [10.1186/s12891-025-08754-1](https://doi.org/10.1186/s12891-025-08754-1), PubMed [40462009](https://pubmed.ncbi.nlm.nih.gov/40462009/)

Engseth LHW, Øhrn FD, Schulz A, **Röhrl SM** (2025)

CT-based migration analysis of a tibial component compared to radiostereometric analysis : one-year results of a prospective single-group implant safety study

Bone Joint J, 107-B (2), 173-180
DOI [10.1302/0301-620X.107B2.BJJ-2024-0356.R2](https://doi.org/10.1302/0301-620X.107B2.BJJ-2024-0356.R2), PubMed [39889761](https://pubmed.ncbi.nlm.nih.gov/39889761/)

Evenhuis R, Bus MPA, **Sellevoold S**, Dierselhuis EF, Trikoupis IG, Scorianz M, Walter S, Cabrolhier J, Fiocco M, van de Sande MAJ, MORE study group (2025)

Proximal humeral endoprosthetic reconstruction for tumour defects : clinical outcomes of 165 patients from the MUTARS Orthopedic Registry Orthopedic Registry Europe (MORE)

Bone Jt Open, 6 (6), 715-723
DOI [10.1302/2633-1462.66.BJO-2025-0018](https://doi.org/10.1302/2633-1462.66.BJO-2025-0018), PubMed [40518134](https://pubmed.ncbi.nlm.nih.gov/40518134/)

Evenhuis RE, Bus MPA, van Nes J, Walter SG, Cabrolhier J, Fiocco M, van der Wal RJP, Broekhuis D, **Sellevoold S**, van de Sande MAJ (2025)

Evaluating polyethylene, polyether-ether-ketone, and metal-on-metal locking mechanism survival in Modular Universal Tumour and Revision System knee reconstructions for oncological indications : insights from the MUTARS Orthopedic Registry Europe

Bone Joint J, 107-B (2), 239-245
DOI [10.1302/0301-620X.107B2.BJJ-2024-0623](https://doi.org/10.1302/0301-620X.107B2.BJJ-2024-0623), PubMed [39889752](https://pubmed.ncbi.nlm.nih.gov/39889752/)

Familiari F, Saithna A, Martinez-Cano JP, Chahla J, Castillo JMD, DePhillipo NN, **Moatshe G**, Monaco E, Lucio JP, D'Hooghe P, LaPrade RF, ISAKOS Young Professionals Task Force (2025)

Exploring artificial intelligence in orthopaedics: A collaborative survey from the ISAKOS Young Professional Task Force

J Exp Orthop, 12 (1), e70181
DOI [10.1002/jeo2.70181](https://doi.org/10.1002/jeo2.70181), PubMed [39996084](https://pubmed.ncbi.nlm.nih.gov/39996084/)

Finstad J, Clausen T, **Røise O**, Rosseland LA, Havnes IA (2025)

Challenges in pain management and opioid prescribing practices following traumatic injury: a focus group study with orthopedic surgeons and general practitioners

Scand J Prim Health Care, 43 (4), 864-879
DOI [10.1080/02813432.2025.2517769](https://doi.org/10.1080/02813432.2025.2517769), PubMed [40509554](https://pubmed.ncbi.nlm.nih.gov/40509554/)





Fure M, Risum K, Fauske L, Eik H (2025)

"I am trapped in my body": a qualitative exploration of bodily experiences during brace treatment among adolescents with idiopathic scoliosis

Int J Qual Stud Health Well-being, 20 (1), 2569615

DOI [10.1080/17482631.2025.2569615](https://doi.org/10.1080/17482631.2025.2569615), PubMed [41069108](https://pubmed.ncbi.nlm.nih.gov/41069108/)

Grønseth A, Brattgjerd JE, Horn J (2025)

Increasing the precision of intramedullary nailing in femoral derotation osteotomies by larger core locking bolts. A biomechanical study

Clin Biomech (Bristol), 123, 106449

DOI [10.1016/j.clinbiomech.2025.106449](https://doi.org/10.1016/j.clinbiomech.2025.106449), PubMed [39922080](https://pubmed.ncbi.nlm.nih.gov/39922080/)

Grønseth A, Horn J, Liyanarachi S, **Gunderson RB**, Terjesen T (2025)

Long-Term Outcome of Idiopathic Increased Femoral Anteversion in 58 Untreated Individuals at a Mean Age of 46.2 Years

J Pediatr Orthop, 46 (1), 13-19

DOI [10.1097/BPO.0000000000003074](https://doi.org/10.1097/BPO.0000000000003074), PubMed [40842023](https://pubmed.ncbi.nlm.nih.gov/40842023/)

Gänsslen A, Pohlemann T, Lindahl J, **Madsen JE** (2025)

Pelvic packing - status 2024

Arch Orthop Trauma Surg, 145 (1), 125

DOI [10.1007/s00402-024-05699-3](https://doi.org/10.1007/s00402-024-05699-3), PubMed [39797960](https://pubmed.ncbi.nlm.nih.gov/39797960/)

Hansen MM, **Ballo ML, Röhrli SM** (2025)

Radiostereometric analysis for evaluating inducible fracture micromotion: a scoping review

Acta Orthop, 96, 822-827

DOI [10.2340/17453674.2025.44897](https://doi.org/10.2340/17453674.2025.44897), PubMed [41189425](https://pubmed.ncbi.nlm.nih.gov/41189425/)

Hermansen E, Franssen E, Myklebust TÅ, Indrekvam K, Austevoll IM, **Hellum C**, Tronstad S, Storheim K, Aaen J, Banitalebi H, Brox JJ, Ottar T, Solberg TK, Brisby H (2025)

No long term benefit of decompression of a borderline lumbar spinal stenosis level adjacent to a more stenotic index level

Eur Spine J, 34 (12), 5715-5724

DOI [10.1007/s00586-025-09113-3](https://doi.org/10.1007/s00586-025-09113-3), PubMed [40634624](https://pubmed.ncbi.nlm.nih.gov/40634624/)

Hohmann E, Beaufils P, Beiderbeck D, Chahla J, Geeslin A, Hasan S, Humphrey-Murto S, Hurley E, LaPrade RF, Martetschläger F, Matache B, **Moatshe G**, Monllau JC, Murray I, Niederberger M, Rüetschi U, Shang Z, Weber S, Wong I, Perry NPJ (2025)

Guidelines for Designing and Conducting Delphi Consensus Studies: An Expert Consensus Delphi Study

Arthroscopy, 41 (10), 4208-4224.e10

DOI [10.1016/j.arthro.2025.03.038](https://doi.org/10.1016/j.arthro.2025.03.038), PubMed [40157555](https://pubmed.ncbi.nlm.nih.gov/40157555/)

Homlong EG, Quadir HA, Kumar RP, Elle OJ, **Wiig O** (2025)

Addressing Occlusions and Pose Challenges in Clinical Gait Analysis: A Robust 3D-to-2D Motion Pipeline

Annu Int Conf IEEE Eng Med Biol Soc, 2025, 1-7

DOI [10.1109/EMBC58623.2025.11254493](https://doi.org/10.1109/EMBC58623.2025.11254493), PubMed [41335793](https://pubmed.ncbi.nlm.nih.gov/41335793/)

Horn J, Leardini A, Benedetti MG, Hestnes TM, Mindler G, Wekre LL, Sangiorgi L, Alves I, Trisolino G (2025)

Fully instrumented gait analysis in rare bone diseases - A scoping review of the literature

Gait Posture, 118, 168-177

DOI [10.1016/j.gaitpost.2025.02.001](https://doi.org/10.1016/j.gaitpost.2025.02.001), PubMed [39978051](https://pubmed.ncbi.nlm.nih.gov/39978051/)





Hysing-Dahl T, Visnes H, Straume-Næsheim TM, Waaler PAS, Kjellsen A, Warø HA, Øye C, Hansen AK, Tandberg A, **Persson A**, Inderhaug E (2025)

Incidence and treatment strategy for patellar instability in Norway

J Exp Orthop, 12 (4), e70519

DOI [10.1002/jeo2.70519](https://doi.org/10.1002/jeo2.70519), PubMed [41245712](https://pubmed.ncbi.nlm.nih.gov/41245712/)

Høgevoid M, **Alm CE**, Wright BJ, Ragan L, Frihagen F, **Röhrli SMH**, **Madsen JE**, **Brattgjerd JE** (2025)
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Publication list Diakonhjemmet Hospital 2025

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