



Annual Report

Research Activity 2018



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





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Oslo University Hospital and the University of Oslo

Oslo University Hospital (OUH) is Norway's largest hospital with over 20000 employees and a budget of 22 billion NOK (2016). 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.

From Division Director Rolf Riise

Being the largest hospital in Norway, Oslo University Hospital provides highly specialized health care services to the citizens of Oslo and the South-East Health Region. In addition, the Hospital has a nationwide responsibility for a number of national and multi-regional assignments. The Division of Orthopaedics is one of twelve medical divisions. It encompasses the fields of orthopedic traumatology, hand surgery including retransplant surgery, prosthetic surgery, oncology surgery, spinal surgery, scoliosis surgery, pediatric surgery and arthroscopic surgery. The research activity of Department of Rheumatology, Diakonhjemmet Hospital is organizationally linked to Division of Orthopedics.

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 at the Division of Orthopaedic Surgery and Department of Rheumatology, Diakonhjemmet hospital

The Division of Orthopedic's research activity is organized into 10 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 11 Professors, 2 Associate Professors, postdoctoral fellowships, several PhD students and administrative and





technical staff. The Division has an advisory research board that in 2018 consisted of: Professor Lars Nordsletten, Professor Olav Røise, Professor Jan Erik Madsen, Professor Lars Engebretsen, Professor Harald Steen, Professor Inger Holm, Professor May Arna Risberg, Professor Ivan Hvid, Consultant Olga Zaikova, patient representative and user Inger Ljøstad and Research Nurse and Assistant Administrative Manager Kari Anne Hakestad. In 2018 there were in total of 106 registered peer reviewed publications and 10 PhD dissertations.

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. Department of Rheumatology 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. Two national highly specialized functions are located at the Hospital: The Norwegian National Unit for Rehabilitation for Rheumatic Patients with Special Needs and the Norwegian National Advisory Unit on Rehabilitation in Rheumatology. The Department 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. Two professors; professor Tore Kristian Kvien and professor Tillman Uhlig have a combined position in the Department of Rheumatology and University of Oslo. The Department has an extensive research production, and there were in total 60 registered peer reviewed publications and 5 PhD dissertations in 2018.

Olav Røise





Osteoarthritis Research Group



Group Leader

Lars Nordsletten, Prof, Division of Orthopaedics, UiO (lars.nordsletten@medisin.uio.no)
/ Head of R & D, Dept. of Orthopaedics, OUH (UXLANO@ous-hf.no)

Group Members

- May Arna Risberg, Prof
- Tore K. Kvien, Prof
- Till Uhlig, Prof
- Kåre Birger Hagen, Prof
- Ida K. Haugen, Post doc
- Gunnar Flugsrud, Senior Consultant
- Alf Inge Hellevik, PhD fellow
- Kristin Bølstad, Research coordinator
- Nina Østerås, Post doc
- Karin Magnusson, Post doc
- Alexander Mathiessen, PhD fellow
- Britt Elin Øystad, Post doc
- Nina J. Kise, PhD fellow
- Marianne Bakke Johnsen, Post doc
- Eirik Weldingh, PhD fellow

Research profile and aims

To study the etiologi, 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-OUS study and Ullensaker study
- Development of hand OA
- AktivA: implementation of treatment and prevention and registry of OA in primary care in Norway
- MRI changes with hand OA: Trapezium MRI findings compared to histology
- OMEX: RCT between traing and operation in meniscal injury





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

International

- David T. Felson, Boston University, USA
- Martin Englund, Lund University, Sweden
- Lynn Snyder-Mackler, University of Delaware, USA

Funding

- South-Eastern Norway Regional Health Authority
- Norwegian Extra Foundation for Health and Rehabilitation
- The Research Council of Norway
- Foundation of Sophies Minde

Scientific production of the research group in 2018

Peer reviewed original research articles: 26

PhD:

Alf Inge Hellevik: "Systemic risk factors for severe osteoarthritis in the hip and knee: An epidemiological study from HUNT and the Norwegian Arthroplasty Register"

Alexander Mathiessen: "Ultrasound of hand osteoarthritis. Validity, reliability and predictive value of ultrasonography in patients with hand osteoarthritis."

Selected publications:

Hellevik, A. I., M. B. Johnsen, A. Langhammer, V. Baste, O. Furnes, K. Storheim, J. A. Zwart, G. B. Flugsrud and L. Nordsletten (2018)
"Metabolic syndrome as a risk factor for total hip or knee replacement due to primary osteoarthritis: a prospective cohort study (the HUNT study and the Norwegian Arthroplasty Register)"
Clin Epidemiol 10: 83-96.

Magnusson, K., J. Kumm, A. Turkiewicz and M. Englund (2018)
"A naturally aging knee, or development of early knee osteoarthritis?"
Osteoarthritis Cartilage 26(11): 1447-1452.

Oiestad, B. E., I. Holm and M. A. Risberg (2018)
"Return to pivoting sport after ACL reconstruction: association with osteoarthritis and knee function at the 15-year follow-up"
Br J Sports Med 52(18): 1199-1204.





Pediatric Orthopaedics



Group Leader

Ivan Hvid, Professor, Dept. of Pediatric Orthopaedics, UiO
(ivan.hvid@medisin.uio.no) / OÜH (ivhvid2@ous-hf.no)

Group Members

- Harald Steen, MD/PhD, OÜH
- Terje Terjesen, Professor emeritus, UiO
- Joachim Horn, MD, OÜH
- Ola Wiig, MD, OÜH
- Per Reider Høiness, MD, OÜH
- Andreas Knaus, MD, OÜH
- Stefan Huhnstock, AS

Research profile and aims

The main intention of the group is to promote clinical and experimental children orthopedic research.

Ongoing projects

- Muscle response to bone lengthening
- Fixator-Bone load share in limb lengthening
- Bone Age evaluation by partial volume carpal MRI
- Evaluation of operative treatment of torticollis
- Epidemiology of MO (multiple osteochondroma)
- Studies on Legg-Calve-Perthes disease
- Studies on slipped capital femoral epiphysis
- Long-term follow-up on pediatric hip disease
- National Pediatric Hip Register

Most important national and international collaborators

National

- The Norwegian School of Sport Science (bone, muscle research)

International

- University of Graz, Austria (MR Bone Age)
- Children's Hospital, Wilmington, USA (Bone lengthening studies)





Scientific production of the research group in 2018

Peer reviewed original research articles: 11

Selected publications:

Terjesen T.

"Long-term outcome of closed reduction in late-detected hip dislocation: 60 patients aged six to 36 months at diagnosis followed to a mean age of 58 years"

J Child Orthop. 2018;12: 369-374

Horn J, Hvid I, Huhnstock S, Breen AB, Steen H.

"Limb lengthening and deformity correction with externally controlled motorized intramedullary nails: evaluation of 50 consecutive lengthenings"

Acta Orthop. 2019; 90: 81-87

Holm AGV, Reikerås O, Terjesen T.

"Painless period after Spizy shelf operation for residual hip dysplasia-A long-term study of 47 children and young adults"

J Orthop. 2018; 28:196-200





Biomechanics Laboratory



Group Leader

Harald Steen, MD/DMSci, Head of Biomechanics Laboratory/Orthopaedic Consultant, Orthopedic Division, OUH (hsteen@ous-hf.no) / Professor II, Oslo Metropolitan University (OsloMet) (harald.steen@oslomet.no)

Group members

- Sanyalak Niratisairak, PhD, UiO (Head engineer)
- Jan Egil Brattgjerd, MD/PhD-cand, OUH
- Knut Strømsøe, MD/DMSci, prof em UiO/Alumni
- Jan Rune Nilssen, Eng, Norwegian Defence Research Institute (FFI)
- Geir Hjorthaug, MD/PhD-cand, Martina Hansen Hospital (MaHaHo)
- Bryan Wright, MD/PhD-cand, Ringerike Hospital
- Ingrid Skaaret, CPO/MSc/PhD-cand, Sophies Minde Ortopedi AS (SMO)
- Jette Schack, PT/MSc/PhD-cand, OUH, SMO, OsloMet
- Anne Berg Breen, MD, OUH
- Pavel Mukherjee, MD, Sørlandet Hospital, Kristiansand
- Øyvind Grimsrud, PT/MSc, OUH
- Patrick Aleksander Bjørge, PT/MSc-cand, OUH

Associate group members

- Jens Ivar Brox, MD/DMSci, OUH, prof UiO
- Are Hugo Pripp, MSc/PhD, OUH, prof OsloMet
- Ivan Hvid, MD/DMSci, OUH, prof UiO
- Ragnhild Gunderson, MD, OUH
- Joachim Horn, MD/PhD, OUH
- Vidar Jacobsen, MSc, Oslo University College of Sports (OUCS)

Research profile and aims

Biomechanics lab functions as a service-unit within Oslo University Hospital's Orthopaedic Clinic, and contributes as a facilitator/catalysator for accomplishment of various research projects within the orthopaedic community in the Oslo region. The lab has organized the meetings of the 'Biomechanics Forum' 2-3 times a year during the periods 1996-2002 and 2013-2017, a total of 31 meetings. Biomechanics Forum is a multidisciplinary discussion group of professionals and students. Unfortunately no meeting was arranged in 2018, but hopefully the activity will be continued in 2019.

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

Recently 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. The new equipment will be a high-speed digital image videocamera with





integrated 3D motion analysis for detailed documentation of the deformation process within the test object during mechanical testing.

In daily clinical activity the Biomechanics lab is part of the Paediatric Orthopaedics and Reconstructive Surgery Department, 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 intramedullary nails or external fixators.

Ongoing projects

- Biomechanical Studies of the Effect of Different Fixations upon Stability of Hip Fractures (PhD)
- Cerebral Activity in Lower Extremity Amputees during Normal and Challenging Gait Situations (PhD)
- Effect of Ankle-Foot Orthoses on Gait in Children with Cerebral Paresis (PhD)
- Detecting orthopedic screw overtightening in embalmed human cancellous bone using acoustic emission (PhD)
- Radiostereometric (RSA) Growth-Analyses after (Hemi-) Epiphysiodeses
- Planning and treatment of epiphysiodesis - Outcome of various methods
- Radiostereometric (RSA) Monitoring in Orthopaedic Reconstructive Surgery
- Predictive Factors of Major Curve Progression and Quality of Life in Patients Treated with Boston Brace for Adolescent Idiopathic Scoliosis (AIS)
- Forces and Strain in Ankle Arthrodesis
- Contribution of Soft and Hard Tissue Resistance during Limb Lengthening Procedures
- The Influence of an Intact or Healed Osteotomized Fibula on the Measured Load-Share Value after a Tibial Lengthening Osteotomy - A Cadaver Pilot Study
- Health-Related Quality of Life and Physical Fitness in Young Adults with Congenital Lower-Limb Deficiencies Treated with Prosthetic or Surgical Lengthening
- Forces and Load-Share during the Callotasis Process
- Bone Age Assessment by use of MRI and Ultrasound

Most important national and international collaborators

National

- Jan Rune Nilssen, Norwegian Defence Research Establishment, Kjeller:
Mechanical testing projects
- Geir Hjorthaug, MD, MaHaHo:
Experimental bone healing studies
- Bryan Wright, MD, Ringerike Hospital:
Mechanical properties and bone mineral parameters Per-trochanteric Femoral Fractures
- Pavel Mukherjee, MD, Harstad Hospital:
Sub-trochanteric Femoral Fractures

International

- William MacKenzie, MD and Tariq Rahman, PhD, Nemours, Alfred I. duPont Hospital for Children, Wilmington, Delaware, USA:
Experimental limb lengthening project
- Søren Kold, MD/PhD and Markus Winther Frost, Aalborg University Hospital, Denmark:
Experimental limb lengthening project
- Martin Urschler, PhD and Darko Stern, MSc Ludwig Boltzmann Gesellschaft GmbH, Austria, Medical University of Graz, Austria:
Radiationless Bone Age assessment by MRI





Scientific production of the research group in 2018

Peer-Reviewed Publications (original research articles)

Brattgjerd JE, Loferer M, Niratisairak S, Steen H, Strømsøe K:

"Increased torsional stability by a novel femoral neck locking plate. The role of plate design and pin configuration in a synthetic bone block model"

Clin Biomech (Bristol, Avon) 2018, Epub doi: 10.1016/j.clinbiomech.2018.03.024. PMID: 29653317

Hjorthaug GA, Søreide E, Nordsletten L, Madsen JE, Reinholt FP, Niratisairak S, Dimmen S:

"Negative effect of zoledronic acid on tendon-to-bone healing"

Acta Orthop. 2018 Jun;89(3):360-366. Epub doi: 10.1080/17453674.2018.1440189

Horn J, Huhnstock S, Breen AB, Hvid I, Steen H:

"Limb lengthening and deformity correction with externally controlled motorized intramedullary nails. Evaluation of 50 consecutive lengthenings"

Acta Orthop, accepted September 11, 2018 Epub doi: 10.1080/17453674.2018.1534321

Skaaret I, Steen H, Terjesen T, Holm I:

"Impact of ankle-foot orthoses on gait 1 year after lower limb surgery in children with bilateral cerebral palsy"

Prosthetics and Orthotics International, 2018, Epub <https://doi.org/10.1177%2F0309364618791615>

Wright B, Ragan L, Niratisairak S, Høiseth A, Strømsøe K, Steen H, Brattgjerd JE:

"High correlation between mechanical properties and bone mineral parameters in embalmed femurs after long-time storage"

Clin Biomech, 59:136-142, 2018

Published Abstracts

Breen A, Horn J, Gunderson R, Huhnstock S, Hvid I, Kristiansen LP, Steen H:

"Correction of leg length discrepancy by epiphysiodesis"

European Paediatric Orthopaedic Society (EPOS), Oslo, Norway, April 11-14, 2018, E-poster EP-094 J Child Orthop; 12 (Suppl 1): S104, 2018

Papers Presented at Scientific Meetings

Horn J, Huhnstock S, Steen H, Breen A, Bjørge P, Grimsrud Ø:

"Ekstremitetsforlengelse hos barn med achondroplasi [Bone lengthening in achondroplastic children]"

Norwegian Orthopaedic Association, Annual Scientific Meeting, Oslo, October 24-26, 2018.

Høstmøteboken, abstract #212, p. 117

Grimsrud Ø, Horn J, Huhnstock S, Hvid I, Steen H, Seynnes O, Bojsen-Møller J:

"Endringer i muskel-seneapparatet ved lårførrelengelse med intramedullær naglekstremittsforlengelse hos barn med achondroplasi [Muscle-tendon changes in femoral lengthening by use of an





intramedullar nail]"

Norwegian Orthopaedic Association, Annual Scientific Meeting, Oslo, October 24-26, 2018.

Høstmøteboken, abstract #213, p. 118

Breen A, Knaus A, Huhnstock S, Steen H, Hvid I, Horn J:

"Temporær hemiepiphysiodese for akseavvik rundt kne og ankel hos barn med multiple osteochondromer [Temporary hemiepiphysodesis for axial deviations around the knee and ankle in children with multiple osteochondromas]"

Norwegian Orthopaedic Association, Annual Scientific Meeting, Oslo, October 24-26, 2018.

Høstmøteboken, abstract #214, p. 119

Midtgård K, Søreide E, Moatshe G, Brattgjerd JE, Steen H, Madsen JE, Flugsrud G:

Biomekanisk studie av pinner og tensjonsbånd vs. Moderne plateosteosyntese ved to-parts olecraninfarktur [Biomechanical study of pins and tension band versus modern plate osteosynthesis in two-parts olecranon fractures]

Norwegian Orthopaedic Association, Annual Scientific Meeting, Oslo, October 24-26, 2018.

Høstmøteboken, abstract #705, p. 207

Gunderson R, Pripp AH, Kristiansen LP, Steen H:

Intraobserver callus evaluation in callutasis

Limb Lengthening and Reconstruction Society/Nordic (LLRS/Nordic) Stockholm Nov 22-23, 2018

Gunderson R, Kristiansen LP, Steen H:

Evaluation of callutasis healing by x-rays, Dynamic RSA and Load-share

Limb Lengthening and Reconstruction Society/Nordic (LLRS/Nordic) Stockholm Nov 22-23, 2018

Steen H, Kristiansen LP, Horn J, Niratisairak S, Gunderson R:

Forces, Load-share and Strain in Ankle Arthrodiatasis

Limb Lengthening and Reconstruction Society/Nordic (LLRS/Nordic) Stockholm Nov 22-23, 2018

Grimsrud Ø, Horn J, Huhnstock S, Steen H, Hvid I, Seynnes O, Bojsen-Møller J :

Changes in muscle tendon unit after femoral lengthening with the Precice® nail

Limb Lengthening and Reconstruction Society/Nordic (LLRS/Nordic) Stockholm Nov 22-23, 2018

Chairman/Moderator

Steen H:

ISPO/Norway Annual Seminar "Rehabilitation and Function after Stroke", Oslo, Norway, Nov 2, 2018





Center for Implant and Radiostereometric Research Oslo - CIRRO



Group Leaders

Stephan M. Röhrl, Ass. Prof., (s.m.rohrl@medisin.uio.no)

Division of Orthopaedic Surgery, OUH, Head of the Norwegian Society for Hip and Knee Surgery, Board member of the Norwegian arthroplasty Registry



Lars Nordsletten, Prof., Dept of Orthopaedics, UiO

(lars.nordsletten@medisin.uio.no) / Oslo Sports Trauma Research Center, Dept of Sports Medicine, Norwegian School of Sports Sciences / Chair of the Orthopaedic Centre, OUH / Head of the Experimental Orthopaedic group, Institute for Surgical Research, OUH (UXLANO@ous-hf.no)

Group Members

Senior members:

- Finnur Snorrason, MD/PhD, OUH
- Vera Halvorsen, MD, OUH
- Marianne Westberg MDT/PhD, OUH
- Harald Steen, Professor, OUH
- Ragnhild Gundersen, MD radiolog, OUH
- Eirik Aunan, MD, Lillehammer Hospital

Alumni (PhD):

- Wender Figwed, MD/PhD Bærum Hospital
- Berte Bøe, MD/PhD, OUH
- Einar Lindalen, MD/PhD Lovisenberg Hospital
- Jon Dahl, MD/PhD, OUH
- Thomas Kibsgård, MD/PhD, UiO and OUH
- Bernhard Flatøy, MD/PhD, OUH

PhD candidates:

- Justin van Leeuwen, MD, Betanien Hospital
- Gunnar Petursson, MD, Lovisenberg Hospital
- Trygve Glad, MD, OUH, LIS
- Alexander Fraser, MD, OUH, LIS
- Are Stødle, MD, OUH, LIS
- Jan Egil Brattgjerd, MD, OUH, LIS
- Frank David Ørn, MD, Kristiansund Hospital
- Carl Erik Alm, MD, OUH, LIS





Group Members (continued)

PhD candidates:

- Ole-Christian Brun, MD, OUH
- Vinjar Hansen Myklevold, MD, OUH
- Peder Thoen, MD Lovisenberg
- Øyvind Tender Øverbø, MD, OUH

Radiographers:

- Alexis Hinohosa, CT and MRI radiographer, OUH
- Mona Risdal, CT radiographer, Application specialist CT, OUH
- Silje Klausen, BSC radiography, PgCert Reporting Radiography, OUH
- Kathrine Lamark, BSC radiography, MSC Diagnostic imaging, OUH

Research coordinators:

- Marte Traae Magnusson, PT, Master, OUH
- Anne Christine Brekke, Head nurse, Master, OUH

Research profile and aims

The overall aim of CIRRO is to perform sophisticated basic and clinical research in the field of implant surgery and bone turnover, establish a team of dedicated researchers and collaborate nationally and internationally. Our intention is:

- To use and develop precise measurement methods (RSA, dynamic RSA and DXA in musculoskeletal research).
- To supervise and help PhD fellows in all connected hospitals/institutions.
- To study new treatment options (implants, surgical techniques, biotechnology, rehabilitation interventions and pharmacological treatment) with precise methods to ensure benefit to patients in a short time.
- 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 that delivers sophisticated services to researchers in South-Eastern Norway Regional Health Authority and adjacent hospitals nationally.





2018

In 2018 we have continued to update our RSA systems. We have additionally established the new RSA Adora system at our x-ray lab. We are now able to take single plane dynamic films right next to our usual location which improved our workflow tremendously.

We have continued to recruit patients for our ongoing studies and followed the patients clinically and with RSA. We are proud that 2 new PhD projects have started. One of them is in a international multicenter study project on spinal deformities.

CIRRO has the key position and is the initiator although the PhD student, Vinjar Hansen Mycklevold, is supported by the Ph.D program of Haukeland university. We now have started to collaborate closely with Kyoto university, Japan, Skåne universitet, Sweden and nationally Bergen.

The second PhD candidate, Peder Thoen Svenkerud, looks at “patients at risk after THR”. Most clinical data is already collected and we are now designing additional studies with the Norwegian Arthroplasty Registry (NAR).

The highlight of the year was the accomplishment of the PhD programm of Bernhard Flatøy with the topic on the “Evaluation of New Implants in Hip Arthroplasty”. This topic has unexpectedly received the adequate high importance through the elevations in the international press through “Implant files”. Prof. Nils Hailer, Sweden, and Prof. Mäkinen were unisonous in their positive response. We congratulate to a profound book and a nicely performed defence.

3 further PhD students are currently in the finishing phase of their thesis.

Ongoing projects

Hip projects

- THR in patients under 20 years (collaboration with Hip Registry in Bergen)
- Randomized study between operation with pins with or without plate for undisplaced dislocated femoral neck fracture. Radio stereogrammetric analysis (RSA) of stability and fracture healing and clinical endpoints. (The Pinloc Study)
- RCT on the function of the Trochanteric Support Plate (TSP) in combination with the Dynamic Hip Screw (DHS)
- Solutions for patients at risk: dislocation, hip spine syndrome.
- The value of minimal invasive approaches for THP compared to traditional ones

Knee projects

- Custom positioning guides technique versus conventional technique in total and unikondyler knee arthroplasty (PhD project OUS, Ullevål + Betanien sykehus)
- Computer navigation and conventional technique in total knee replacement (PhD project, collaboration with Lovisenberg and Bergen)





- In vivo kinematics and performance of contemporary knee arthroplasty (PhD project OUS, Ullevål in collaboration with HF Møre Romsdal)
- Kinematic RSA of three different kneedesignes (collaboration with Lovisenberg Diaconal Hospital)

Methodological projects

- Precision of RSA with different RSA systems
- Phantom study of the hip and the knee during motion
- Motionanalysis with CT

Pelvis project

- Movment of the IS joint with long and short spinalfixations

Ankle and foot projects

- Investigating acute Lisfranc injuries in the foot and a new surgical procedure (PhD project OUS, Ullevål)
- Kinematics of the midfoot after Lisfranc injury (PhD project OUS, Ullevål)

Shoulder projects

- Stability of the glenoid implant in reversed shoulder arthroplasty

Hand projects

- A prospective randomized trial comparing two different wrist arthroplasties (PhD project OUS, Rikshospital and Ullevål)

Most important national and international collaborators

National

- Norwegian Arthroplasty register (NAR)
- Norwegian society for hip and knee surgery (NFHKK)
- Betanien Hospital Skien
- Diakonhjemmet Hospital
- Lillehammer Hospital
- Lovisenberg Diaconal Hospital
- Oslo Sports Trauma Research Center (OSTRC)
- Regional Health Authority Møre Romsdal
- Kristiansund hospital
- Haukeland University Hospital
- Arendal Hospital

International

- Umeå University Hospital, Arthroplasty unit, Sweden
- UmRSA Biomedical, Sweden
- Leiden University, The Netherlands
- Innovationsmanufaktur, München, Germany
- Kyoto University Orthopedic Association, Japan
- Helsinki bone and joint research group, Finland
- Skåne University, Sweden





Scientific production of the research group in 2018

Peer reviewed original research articles: 10

Selected publications:

Petursson G, Fenstad AM, Gøthesen Ø, Dyrhovden GS, Hallan G, Röhrl SM, Aamodt A, Furnes O (2018)

"Computer-Assisted Compared with Conventional Total Knee Replacement: A Multicenter Parallel-Group Randomized Controlled Trial"

J Bone Joint Surg Am, 100 (15), 1265-1274

DOI [10.2106/JBJS.17.01338](https://doi.org/10.2106/JBJS.17.01338), PubMed [30063588](https://pubmed.ncbi.nlm.nih.gov/30063588/)

Fraser AN, Tsukanaka M, Fjalestad T, Madsen JE, Röhrl SM (2018)

"Model-based RSA is suitable for clinical trials on the glenoid component of reverse total shoulder arthroplasty"

J Orthop Res, 36 (12), 3299-3307

DOI [10.1002/jor.24111](https://doi.org/10.1002/jor.24111), PubMed [30035319](https://pubmed.ncbi.nlm.nih.gov/30035319/)

Holm-Glad T, Reigstad O, Tsukanaka M, Røkkum M, Röhrl SM (2018)

"High precision and accuracy of model-based RSA for analysis of wrist arthroplasty"

J Orthop Res, 36 (11), 3053-3063

DOI [10.1002/jor.24063](https://doi.org/10.1002/jor.24063), PubMed [29873422](https://pubmed.ncbi.nlm.nih.gov/29873422/)

Funding

- South-Eastern Norway Regional Health Authority (PhD program)
- Bergen University (PhD program)
- Oslo University (2 PhD program)
- Medacta International AG





Hand



Group Leader

Magne Røkkum, Dept. of Orthopaedics, UiO (magne.rokkum@medisin.uio.no) /OUS
(mrokkum@ous-hf.no)

Group Members

- Hallgeir Brattberg, OUH
- Sondre Hassellund, , Fac of Medicine, UiO
- May Tove Hestmo, OUH
- Trygve Holm Glad, student, Fac of Medicine, UiO
- Johanne Korslund, OUH
- Lars-Eldar Myrseth, OUH
- Trond Refsnaes, student, Fac of Medicine, UiO
- Ole Reigstad, OUH
- Istvan Rigo
- Ida Neergård Sletten, OUH
- Rasmus Thorkildsen, student, Faculty of Medicine, UiO
- Frode Thu, student, Faculty of Medicine, UiO
- Tone Vaksvik, OUH
- Maria Vatne, OUH
- Kristin Wennesland Øren
- John H. Williksen, OUH
- Mona Winge, student, Faculty of Medicine, UiO

Research profile and aims

Clinical and experimental research related to hand, microsurgery and peripheral nerves.

Ongoing projects

- Bratberg H: Prospective randomized trial between Percutan Needle Fasciotomy and Clostridium Histolyticum injection for Dupuytrens Contracture
- Williksen JH et al.: Complications and secondary surgeries after volar plating of distal radius fractures
- Williksen JH et al: Radiological results and clinical outcomes after operative treatment of distal radius fractures
- Hassellund S: Pinning of unstable distal radius fractures gives acceptable long term clinical results
- Hassellund S: Treatment of distal radius fractures in patients over 65 years, a health economic analyses
- Korslund J: Outcomes after finger replantation
- Vatne M: Monitoring of the vascularisation in replanted fingers
- Hestmo MT: Replantation in children





- Vaksvik T: Continued decrease in cold hypersensitivity after surgery for complex hand injuries: A prospective cohort study over eight years
- Refsnaes T: Dysmelia of the upper extremity

PhD:

- Sondre Hassellund: Unstable distal radius fractures in patients over 65 years. Conservative treatment vs operative treatment with volar locking plate. RCT
- Rasmus Thorkildsen: Total joint replacement or interpositional arthroplasty for the treatment of carpometacarpal thumb arthritis
- Mona Winge: Is calcium phosphate bone cement an alternative to bone graft?
- Trygve Holm Glad: Randomized controlled trial between two total wrist arthroplasties. A clinical, radiostereometric and DEXA study
- Frode Thu: Injuries of the plexus brachialis

Most important national and international collaborators

National

- Prof. Jan Erik Madsen, MD, PhD
- Dept. of Otorhinolaryngology,
Head and Neck Surgery, OUH

International

- Carina B. Johansson, Dept. of Biomaterials,
University of Gothenburg, Sweden

Funding

- Sophies Minde Ortopedi AS

Scientific production of the research group in 2018

Peer reviewed original research articles: 3

Selected publications:

Vaksvik T, Røkkum M, Holm I

"Cold hypersensitivity after hand injuries. A prospective 7-year follow-up"

J Plast Surg Hand Surg, 52 (6), 363-366. DOI 10.1080/2000656X.2018.1520124, PubMed 30289015, WoS 000455551500009 Cristin 1622793.

Holm-Glad T, Reigstad O, Tsukanaka M, Røkkum M, Röhrl SM (2018)

"High precision and accuracy of model-based RSA for analysis of wrist arthroplasty"

J Orthop Res, 36 (11), 3053-3063. DOI 10.1002/jor.24063, PubMed 29873422, WoS 000453696100025 Cristin 1668470.

Reigstad O, Røkkum M (2018)

"Wrist arthroplasty using prosthesis as an alternative to arthrodesis: design, outcomes and future"

J Hand Surg Eur Vol, 43 (7), 689-699. DOI 10.1177/1753193418784707, PubMed 29985078, WoS 000442273800001 Cristin 1609819.





Norwegian research center for Active Rehabilitation – NAR



Group Leader

May Arna Risberg, Professor, The Norwegian School of Sport Sciences
(m.a.risberg@nih.no) / Division of Orthopaedic Surgery, OUH (marisb@ous-hf.no)

Group Members and affiliated members

- Hege Grindem, PT, PhD, Nimi/The Norwegian School of Sport Sciences
- Nina Kise, MD, Faculty of Medicine, University of Oslo (UiO), and Martina Hansens Hospital
- Britt Elin Øiestad, PT, PhD, Oslo and Akershus University College of Applied Sciences
- Marie Pedersen, PT, MSc, PhD student
- Bjørnar Berg, PT, PhD student
- Kristian Marstrand Warholm, MD, PhD student
- Kristin Bølstad, MSc, Nimi
- Marte Lund, PT, MSc, Nimi
- Agnethe Nilstad, PT, PhD, OUH
- Ingrid Trøan, PT, OUH
- Lars Nordsletten, MD, PhD, professor, OUH and Faculty of Medicine, UiO
- Lars Engebretsen, MD, PhD, professor, OUH and Faculty of Medicine, UiO
- Inger Holm, PT, PhD, professor, OUH and Faculty of Medicine, UiO
- Lynn Snyder-Mackler, PT, PhD, professor, University of Delaware, USA
- Joanne Kemp, PT, PhD, LaTrobe University, Melbourne, Australia
- Ewa Roos, PT, PhD professor, University of Southern Denmark, Odense, Denmark
- Nina Østerås, PT, PhD, NKRR, Diakonhjemmet Hospital

Research profile and aims

The vision of the group is to be an internationally leading research center within the field of active rehabilitation of musculoskeletal injuries and disorders.

Main Goals

Active rehabilitation of patients with musculoskeletal injuries and disorders

- Clinical research
- Implementation of the research to evidence based practice

Our current research areas include active rehabilitation of knee and hip injuries and knee and hip osteoarthritis (OA). Each research area consists of a research team with senior researchers, PhD fellows, clinicians and a research coordinator.





Ongoing projects

Knee

- Prospective cohort study of ACL injured children under the age of 13 years
- Knee osteoarthritis after ACL injury. A 20 year follow-up after ACL reconstruction
- Dynamic stability of the ACL-deficient knee (Delaware Oslo ACL Cohort). A research collaboration with the University of Delaware, USA
- The OMEX Study: The effect of arthroscopic partial meniscectomy or exercise therapy as treatment of degenerative meniscus tears in middle-aged patients. A Randomized controlled trial
- Efficacy of strength training and cycling on physical function and cartilage health in patients with knee osteoarthritis – A randomized controlled trial
- Is good muscle function a protective factor for early features of knee osteoarthritis after ACL reconstruction? A prospective cohort study. Master project

Hip

- HIPARTI (Hip Arthroscopy International) and HARP (Hip Arthroscopy Prospective)

Osteoarthritis

- Active A - Active living with osteoArthritis

Most important national and international collaborators

National

- Martina Hansens Hospital
- Akershus University Hospital
- Diakonhjemmet Hospital
- Norwegian School of Sport Sciences
- Nimi

International

- University of Delaware, US
- University of Southern Denmark (SDU), Denmark
- LaTrobe University, Melbourne, Australia





Scientific production of the research group in 2018 (not included affiliated members)

Peer reviewed original research articles: 22

Invited lectures at international congresses: 2

Grindem H. Conservative and surgical management of ACL deficient knees in women's football.
Football medicine outcomes – Are we winning? Barcelona, Spain, June 2-4th, 2018.

Risberg MA. Altered knee joint loading after ACL injury, secondary prevention and physical therapy programs. ESMAC congress, Prague, Czech Republic, September 24- 29th, 2018.

Selected publications:

Kise NJ, Roos EM, Stensrud S, [Engebretsen L](#), [Risberg MA](#) (2018). "The 6-m timed hop test is a prognostic factor for outcomes in patients with meniscal tears treated with exercise therapy or arthroscopic partial meniscectomy: a secondary, exploratory analysis of the Odense-Oslo meniscectomy versus exercise (OMEX) trial"

Knee Surg Sports Traumatol Arthrosc (in press)

Aga C, Risberg MA, Fagerland MW, Johansen S, Trøan I, Heir S, Engebretsen L (2018). "No Difference in the KOOS Quality of Life Subscore Between Anatomic Double-Bundle and Anatomic Single-Bundle Anterior Cruciate Ligament Reconstruction of the Knee: A Prospective Randomized Controlled Trial With 2 Years' Follow-up"

Am J Sports Med, 46 (10), 2341-2354.

Grindem H, Wellsandt E, Failla M, Snyder-Mackler L, Risberg MA (2018). "Anterior Cruciate Ligament Injury-Who Succeeds Without Reconstructive Surgery? The Delaware-Oslo ACL Cohort Study"
Orthop J Sports Med, 6 (5)

Funding

- South-Eastern Norway Regional Health Authority
- National Institutes of Health (NIH) # R37HD037985E





Oncological Orthopedics



Group Leader

Olga Zaikova, Dept. of Orthopaedics, OUH (OLGAZ@ous-hf.no)

Group Members

Ole-Jacob Norum, MD, PhD, OUH
Simen Sellevold, MD, OUH
Joachim Thorkildsen, MD, OUH
Thale Marie Asp Strøm, MD, OUH

Research profile and aims

The treatment of sarcoma is multidisciplinary, and that is reflected in the need of extensive cooperation between several research groups. The aim is to participate in the multidisciplinary research on sarcoma.

The strategy is to build up research networks, both nationally and internationally, and to participate in a wide spectrum of research projects from basic research and translational research to clinical studies and retrospective quality studies.

Ongoing projects

- Photochemical internalisation as a treatment for leiomyosarcoma , PhD project (Simen Sellevold). PhD defense in 2018.
- A study of epidemiology and outcome in chondrosarcoma, PhD prosjekt (Joachim Thorkildsen)
- A nation wide study of Ewing sarcoma, PhD project (Thale Marie Asp Strøm)
- Changes in skin microvascular perfusion induced by cancer treatment. A pilot study in sarcoma patients (Anders Grønseth)
- SACRO Sacral Chordoma: a Randomized & Observational study on surgery versus definite radiation therapy in primary localized disease. A multinational clinical trial
- DOREMY DOse REduction of preoperative radiotherapy in MYxoid liposarcomas. A multinational clinical trial
- NoSarC: national study of gene mutations in sarcomas. Multidisciplinary national collaboration

Most important national and international collaborators

National

- Norwegian National Advisory Unit for Sarcomas
- Department of Oncology, OUH
- Department of Tumor Biology, Institute for Cancer Research, OUH

International

- Scandinavian Sarcoma Group (SSG)
- European Musculo-Skeletal Oncology Society (E.M.S.O.S)
- European Reference Network ERN EURACAN





Scientific production of the research group in 2018

Peer reviewed original research articles: 5

Sundby Hall K, Bruland ØS, Bjerkehagen B, Zaikova O, Engellau J, Hagberg O, Hansson L, Hagberg H, Ahlström M, Knobel H, Papworth K, Zemmler M, Goplen D, Bauer HCF, Eriksson M (2018)

"Adjuvant chemotherapy and postoperative radiotherapy in high-risk soft tissue sarcoma patients defined by biological risk factors-A Scandinavian Sarcoma Group study (SSG XX)"

Eur J Cancer, 99, 78-85

DOI [10.1016/j.ejca.2018.05.011](https://doi.org/10.1016/j.ejca.2018.05.011), PubMed [29929092](https://pubmed.ncbi.nlm.nih.gov/29929092/), WoS 000437355200009 Cristin [1597095](#)

(Details)

Casali PG, Bielack S, Abecassis N, Aro HT, Bauer S, Biagini R, Bonvalot S, Boukovinas I, Bovee JVMG, Brennan B, Brodowicz T, Broto JM, Brugières L, Buonadonna A, De Álava E, Dei Tos AP, Del Muro XG, Dileo P, Dhooge C, Eriksson M, Fagioli F, Fedenko A, Ferraresi V, Ferrari A, Ferrari S et al. (2018)

"Bone sarcomas: ESMO-PaedCan-EURACAN Clinical Practice Guidelines for diagnosis, treatment and follow-up"

Ann Oncol, 29 (Supplement_4), iv79-iv95

DOI [10.1093/annonc/mdy310](https://doi.org/10.1093/annonc/mdy310), PubMed [30285218](https://pubmed.ncbi.nlm.nih.gov/30285218/), WoS 000448047900007 Cristin [1634019](#) (Details)

Casali PG, Abecassis N, Bauer S, Biagini R, Bielack S, Bonvalot S, Boukovinas I, Bovee JVMG, Brodowicz T, Broto JM, Buonadonna A, De Álava E, Dei Tos AP, Del Muro XG, Dileo P, Eriksson M, Fedenko A, Ferraresi V, Ferrari A, Ferrari S, Frezza AM, Gasperoni S, Gelderblom H, Gil T, Grignani G et al. (2018)

"Soft tissue and visceral sarcomas: ESMO-EURACAN Clinical Practice Guidelines for diagnosis, treatment and follow-up"

Ann Oncol, 29 (Supplement_4), iv51-iv67

DOI [10.1093/annonc/mdy096](https://doi.org/10.1093/annonc/mdy096), PubMed [29846498](https://pubmed.ncbi.nlm.nih.gov/29846498/) Cristin [1640474](#) (Details)

Stormorken AT, Berg T, Norum OJ, Hølmebakke T, Aaberg K, Steigen SE, Grindeland EM (2018)

"APC mosaicism in a young woman with desmoid type fibromatosis and familial adenomatous polyposis"

Fam Cancer, 17 (4), 539-543

DOI [10.1007/s10689-018-0072-8](https://doi.org/10.1007/s10689-018-0072-8), PubMed [29368261](https://pubmed.ncbi.nlm.nih.gov/29368261/), WoS 000445753400008 Cristin [1591909](#)

(Details)

Berner K, Zaikova O, Johannessen TB, Hall KS, Bruland ØS (2018)

"Validity and completeness of the Scandinavian Sarcoma Group Central Register by comparison with a nationwide cohort of patients with osteosarcoma in Norway"

J Surg Oncol, 118 (1), 246-247

DOI [10.1002/jso.25137](https://doi.org/10.1002/jso.25137), PubMed [30208205](https://pubmed.ncbi.nlm.nih.gov/30208205/), WoS 000444420200034 Cristin [1591909](#) (Details)





Orthopaedic traumatology



Group Leader

Jan Erik Madsen, Professor, Dept. of Orthopaedics (j.e.madsen@medisin.uio.no)/
Consultant, Orthopaedic Trauma, OUH (UXJMAD@ous-hf.no)

Group Members

- Geir Andreassen, Consultant
- Tone Bere, Research Coordinator, PhD
- John Clarke- Jenssen, Consultant PhD
- Sigbjørn Dimmen, Consultant, PhD
- Wender Figved, Consultant, PhD
- Tore Fjalestad, Consultant, PhD
- Gunnar Flugsrud, Consultant, PhD
- Frede Frihagen, Consultant, PhD
- Johan Hellund, Consultant, PhD
- Elisabeth Ellingsen Husebye, Consultant, PhD
- Kjetil Hvaal, Consultant, PhD
- Jan Erik Madsen, Professor UiO / Consultant OUH
- Lars Nordsletten, Professor UiO / Consultant OUH
- Olav Røise, Professor UiO / Consultant OUH
- Knut Strømsøe, Professor, Dept. of Nursing Science, UiO

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 projects

- "Does the trochanteric stabilizing plate increase stability in trochanteric hip fractures?" Carl Erik Alm
- "Treatment of Syndesmotic Injuries of the Ankle". Mette Andersen
- "Biomechanical studies of the effect of different fixations upon stability of hip fractures". Jan Egil Brattgjerd
- "On the classification and treatment of acetabular fractures". John Clarke-Jenssen
- "Reversed arthroplasty in the treatment of proximal humerus fractures. Randomized controlled trial and evaluation of glenoid component migration by RSA". Alexander Fraser





- External validity and health economics in the treatment of proximal humeral fractures in the elderly". Jonas Bjordal
- "Surgical treatment of the distal radius fracture". Ola-Lars Hammer
- "Conservative versus operative treatment of distal radius fractures". Sondre Hassellund
- "Effects of bone resorption inhibition and bone formation stimulation on bone and tendon-to-bone healing: Experimental studies in the rat". Geir Hjorthaug
- "Arthroscopic rotator cuff repair. Postoperative rehabilitation, clinical outcome and radiological results". Kjersti Kaul Jenssen
- "Primary and secondary total hip arthroplasty following acetabular fractures". Ragnhild Kirkebø
- "Fracture- dislocations of the elbow". Kaare Midtgård
- "Treatment of the unstable syndesmosis in ankle fractures". Lise Benedicte Wendt Ræder
- "Gastrocnemius recession in foot disorder". Marius Molund
- "Treatment of Charcot neuropathy of the foot". Fredrik Nilsen
- "Biomechanics of the unstable ankle fracture". Ingrid Kvælo Stake
- "Acute injuries to the Lisfranc joint complex". Are Stødle
- "Function and complications in hip fractures". Stian Svenøy
- "In vitro development of a ligament and in vivo analysis of the bone-soft tissue interface". Endre Søreide
- "Surgical treatment and complications in fractures of the distal radius". John Williksen
- "Complex fractures around the elbow". Anne- Mari Rosenlund

Most important national and international collaborators

National

- Akerhus University Hospital (AHUS)
- Asker & Bærum Hospital
- Institute for Surgical Research, OUCH
- Sunnaas Rehabilitation Hospital
- Norwegian School of Sport Sciences
- Østfold Hospital Health Authority
- Martina Hansens Hospital
- Lovisenberg Diaconal Hospital

International

- University of Tampere, Finland
- Aarhus University Hospital, Denmark
- Uppsala University Hospital, Sweden





Scientific production of the research group in 2018

PhD dissertations:

Mette Andersen: "Acute Syndesmotic Injuries - Diagnostic Challenges and Treatment Considerations." Ullevål University Hospital, Oct 12, 2018

John Clarke- Jنسن: "On the diagnosis and treatment of acetabular fractures". Ullevål University Hospital, Feb 9, 2018

Peer reviewed original research articles: 25

Invited lectures at international congresses: Numerous

Selected publications:

Andersen MR, Frihagen F, Hellund JC, Madsen JE, Figved W (2018)

"Randomized Trial Comparing Suture Button with Single Syndesmotic Screw for Syndesmosis Injury"

J Bone Joint Surg Am, 100 (1), 2-12

DOI 10.2106/JBJS.16.01011, PubMed 29298255, WoS 000427281900009 Cristin 1626700 (Details)

Hjorthaug GA, Søreide E, Nordsletten L, Madsen JE, Reinholt FP, Niratisairak S, Dimmen S (2018)

"Negative effect of zoledronic acid on tendon-to-bone healing"

Acta Orthop, 89 (3), 360-366

DOI 10.1080/17453674.2018.1440189, PubMed 29493345, WoS 000431519600019 Cristin 1593159 (Details)

Fraser AN, Tsukanaka M, Fjalestad T, Madsen JE, Röhrl SM (2018)

"Model-based RSA is suitable for clinical trials on the glenoid component of reverse total shoulder arthroplasty"

J Orthop Res, 36 (12), 3299-3307

DOI 10.1002/jor.24111, PubMed 30035319, WoS 000454861000025 Cristin 1626612 (Details)

Funding

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





Oslo Sports Trauma Research Center - OSTRC



Group Leaders

Lars Engebretsen, Professor, UiO (lars.engebretsen@medisin.uio.no), MD/PhD



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

Group Members

- Ingar Holme, Professor, OSTRC/NIH
- Grethe Myklebust, PhD/PT, Professor, OSTRC/NIH
- Tron Krosshaug, MSc/PhD, A/Professor, OSTRC/NIH
- Thor Einar Andersen, MD/PhD, Professor, OSTRC
- Morten Wang Fagerland, PhD, Associate Professor
- Kathrin Steffen, MSc/PhD, Research Scientist, OSTRC
- Asbjørn Årøen, MD/PhD, Professor, Ahus
- Håvard Moksnes, PT/PhD, Research Scientist, OSTRC/Olympiatoppen
- Agnethe Nilstad, PT/PhD, Research Scientist, OSTRC/OUS
- Ben Clarsen, PT/PhD, Research Scientist, OSTRC/Olympiatoppen
- Håvard Visnes, MD/PT/PhD, Haukeland University Hospital
- Sverre Løken, MD/PhD, OUH
- Robert LaPrade, MD/PhD, Steadman Institute, Vail Colorado
- Eirik Kristianslund, MD/PhD, Diakonhjemmet
- Truls Straume-Næsheim, MD/PhD, Ahus
- Rune B Jakobsen, MD/PhD, OUS/Ahus
- Hilde Moseby Berge, MD/PhD, Olympiatoppen
- John Bjørneboe, MD/PhD, OSTRC
- Jan Harald Røtterud, MD/PhD, Ahus
- Cathrine N Engen, MD/PhD fellow, Ahus/OSTRC
- Cathrine Aga, MD/PhD fellow, Martina Hansens Hospital
- Christine Holm Moseid, MD/PhD fellow, OSTRC
- Gilbert Moatshe, MD/PhD fellow, OUH
- Guri R Ekås, MD/PhD fellow, OSTRC/OUH
- Christian Owesen MD/PhD fellow, Ahus
- Svend Ulstein MD/PhD fellow, Ahus
- Sophie Steenstrup PhD fellow/PT, OSTRC
- Stig Andersson, PhD fellow/PT, OSTRC
- Arnhild Bakken, PhD fellow/PT, Aspetar
- Arnlaug Wangensteen, PhD fellow/PT, Aspetar
- Joar Harøy, PhD fellow/PT, OSTRC
- Marc Jacob Strauss, MD, OUH
- Christopher Skazalski, PhD fellow/PT, Aspetar





Group Members (continued)

- Katherine Wang, Stud. med., UiO
- Stian Kjennvold, MD/PhD fellow, Ahus
- Cecilie B Isern, MD/PhD fellow, OUH, Ahus
- Torstein Dalen, PhD fellow, OSTRC
- Hilde Fredriksen, PT/PhD fellow, OSTRC
- Nils F Holm Moseid, MD/PhD fellow, OSTRC
- Stian Sandmo, MD/PhD fellow, OSTRC
- Eirik Halvorsen Wik, PT/PhD fellow, Aspetar
- Einar A Sivertsen, MD/PhD, Diakonhjemmet Sykehus
- Monica Sailer, MD/PhD fellow, Ahus
- Per-Henrik Randsborg, MD/PhD, Ahus
- Anine Nordstrøm, MD/PhD fellow, Sykehuset Innlandet HF
- Dustin Nabhan, PhD fellow, OSTRC
- Nicholas DePhillipo, PhD fellow, OSTRC

Associated group members

- Inge Andersen, Database developer, MSc, OSTRC
- Tone Ørntsland, MSc/Research coordinator, OSTRC

Research profile and aims

The Oslo Sports Trauma Research Center is established 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 2018 the Oslo Sports Trauma Research Center has published 80 articles in international journals with peer review. Three master's students have defended their master's degrees and six PhD students have defended their dissertation. By the end of 2018 the Center had 106 ongoing projects, 4 accepted and 11 submitted articles. In addition, 20 projects were in the planning stage and 4 projects were temporarily on hold. You can find a complete list of projects in the Center's annual rapport for 2018.





Most important national and international collaborators

National

- The Norwegian Olympic and paralympic committee and confederation of sports

International

- Steadman Philippon Research Institute, Vail, US
- International Olympic Committee (IOC)
- International Ski Federation
- Federation Internationale de Football Association
- Federation Internationale de Volleyball

Scientific production of the research group in 2018

Peer reviewed original research articles: 80

Other publications: 42

Invited lectures at international congresses: 50

Doctoral thesis:

Andersson, Stig Haugsbø. Injury prevention in elite handball. Norges idrettshøgskole 2018. ISBN 978-82-502-0553-6.

Bakken, Arnhild. The benefits of periodic health evaluation in professional football - a focus on musculoskeletal screening. Norges idrettshøgskole 2018. ISBN 978-82-502-0556-7.

Harøy, Joar. Groin injuries among football players - a substantial but preventable problem. Norges idrettshøgskole 2018. ISBN 978-82-502-0562-8.

Moatshe, Gilbert. Knee dislocations - epidemiology, biomechanics and clinical outcomes. Det medisinske fakultet, Universitetet i Oslo 2018. ISBN 978-82-8377-197-8.

Steenstrup, Sophie. Head injuries in FIS World Cup alpine skiers, snowboarders and freestyle skiers – epidemiology and video analyses of head impact injury mechanisms. Norges idrettshøgskole 2018. ISBN 978-82-502-0550-5.

Wangensteen, Arnlaug. Acute hamstring injuries - diagnosis and prognosis. Norges idrettshøgskole 2018. ISBN 978-82-502-0557-4.





Selected publications:

Ardern, Clare L.; Ekås, Guri Ranum; Grindem, Hege; Moksnes, Håvard; Anderson, Allen; Chotel, Franck; Cohen, Moises; Forssblad, Magnus; Ganley, Theodore J; Feller, Julian A; Karlsson, Jón; Kocher, Mininder S.; LaPrade, Robert F.; McNamee, Mike; Mandelbaum, Bert; Micheli, Lyle; Mohtadi, Nicholas; Reider, Bruce; Roe, Justin; Seil, Romain; Siebold, Rainer; Silvers-Granelli, Holly J.; Soligard, Torbjørn; Witvrouw, Erik; Engebretsen, Lars.

"2018 International Olympic Committee consensus statement on prevention, diagnosis and management of paediatric anterior cruciate ligament (ACL) injuries"

British Journal of Sports Medicine 2018; 52(7), 422-438 & Knee Surgery, Sports Traumatology, Arthroscopy 2018; 26(4), 989-1010 & The Orthopaedic Journal of Sports Medicine 2018; 6(3), E-pub & Journal of ISAKOS: Joint Disorders & Orthopaedic Sports Medicine 2018; 3(2), E-pub.

Ekås, Guri Ranum; Moksnes, Håvard; Grindem, Hege; Risberg, May Arna; Engebretsen, Lars.

"Coping with anterior cruciate ligament injury from childhood to maturation - a prospective case series of 44 patients with mean 8 years' follow-up"

American Journal of Sports Medicine, E-pub.2018. Am J Sports Med. 47(1), 22-30.

Moatshe, Gilbert; Chahla, Jorge; Brady, Alex W.; Dornan, Grant J.; Muckenhira, Kyle J.; Kruckeberg, Bradley M.; Cinque, Mark E.; Turnbull, Travis Lee; Engebretsen, Lars; LaPrade, Robert F.

"The influence of graft tensioning sequence on tibiofemoral orientation during bicruciate and posterolateral corner knee ligament reconstruction - a biomechanical study"

American Journal of Sports Medicine 2018; 46(8), 1863-1869.

Funding

- Norwegian Ministry of Culture
- The Research Council of Norway
- International Olympic Committee
- Norwegian Olympic and Paralympic Committee and Confederation of Sports
- International Ski Federation
- Norwegian School of Sport Sciences
- Smith & Nephew
- European Society for Sports Traumatology, Knee Surgery and Arthroscopy
- Various grants from other sources





Research group SPINE



Group Leader

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

Group Members

- Thomas Kibsgård, MD/PhD
- Raphael Adobor, MD/PhD
- Jon Dahl, MD/PhD
- Kjetil Kivle, MD, PhD-cand
- Ellen Aksnes, MD
- Roger Trana, MD
- Ole Rasmus Robak, MD
- Mads Peder Rolfsen, MD, PhD-cand
- Torstein Schrøder-Aasen, MD/PhD

Associate Group Members

- Kjersti Storheim, Professor
- Jens Ivar Brox, Professor
- Kari Indrekvam, Professor
- Oliver Grundnes, MD/PhD
- Tore Solberg, MD/PhD
- Britt Stuge, Physical therapist, PhD
- Inger Holm, Professor,
- Ragnhild Molland, PhD-cand
- Engelke Randers, MD, PhD-cand
- Ivar Austevoll, MD, PhD-cand
- Håvard Furunes, MD, PhD-cand
- Erland Hermansen, MD, PhD-cand
- Frode Rekeland, MD, PhD-cand
- Stehpan Røhrl MD/PhD
- Vinjar Myklebald MD
- Anvar Masoud MD/PhD
- Hasan Banitalebi MD
- Karianne Gammelsrud MD/PhD

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 is also the main supervisor for Ivar Austevoll and co-supervisor for Frode Rekeland and co-supervised Erlend Hermansen until his dissertation in 2018.
- 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. Data planned to be published in 2019. Furthermore a biopsi 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 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.
- SIFSO study – (Sacrolilac Fusion vs Sham Operation) Started the inclusion of patients in august 2018. 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 Thomas Kibsgård and John Dahl. This is a collaboration with prof. Gerdhem in Karolinska Hospital in Stockholm, Sweden.
- Improving the diagnostic accuracy, reproducibility and clinical usefulness og MRI and X-ray in patients with lumbar spinal stenosis (Data from the NORDSTEN-study)
PhD student Hasan Banitalebi
Supervisor: Anne Negård, Christian Hellum, Anvar Masoud
Status: Protocol in planning

Other studies and PhD:

- “Long-term follow-up disc prosthesis and multi-disciplinary rehabilitation” (grants from South-Eastern Norway Regional Health Authority, doctoral student at OUH)
PhD-student Håvard Furunes
Supervisor: Kjersti Storheim, Christian Hellum, Jens Ivar Brox
Status: Three articles submitted, PhD 2019.
- “Physical activity, motor function, lung function and quality of life in children with early onset scoliosis treated with non-fusion spine correction”
PhD student: Ragnhild Molland, physical therapist
Supervisor: Thomas Kibsgård, Jens Ivar Brox, Britt Stuge, Inger Holm
Status: One article published and data collection finished. Second paper written but not submitted.
- “Sacroiliac joint fusion for treatment of sacroiliac pain”
PhD student: Engelke Randers, resident
Supervisor: Thomas Kibsgård, John Dahl, Britt Stuge
Status: Study started





- "The gluteal muscles in severe osteoarthritis of the hip"
PhD student: Kjetil Kivle, consultant
Supervisor: Lars Nordsletten, Svein Svenningsen
Status: One article published, two articles about to be written
- "Scoliosis in patients with cerebral palsy"
PhD student: Ted Patrick Lundgren
Supervisor: Thomas Johan Kibsgård, Terje Terjesen, Reidun JahnSEN
Status: Protocol in planning
- "Indications and Treatment of Adult Kypho- Scoliosis" (INTRAKS Study)
PhD student Vinjar Myklevold
Supervisor: Stephan Røhrl, Christian Hellum
Status: protocol In planning

Manuscripts in preparation:

- Health Related Quality of Life and Physical Activity after Early Onset Scoliosis Surgeries
Ragnhild Susanne Molland, PT, MSc, Britt Stuge, PT, PhD, Inger Holm, PT, Jens Ivar Brox, MD, PhD, Rolf Bjarne Riise, MD, Thomas Johan Kibsgard, MD, PhD
- Rapid recovery pathway reduces the length of stay after surgery for adolescent idiopathic scoliosis
Marit Fure, PT, Øyvind Grimsrud, PT, Thomas Kibsgård, PhD

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 OUS, AHUS and Haukeland University Hospital, Department of Microbiology OUH and Department Pathology OUH and Department of Medical Genetics.
- Thomas Hatvik, Haukeland University Hospital, deformity register
- Erik Aunan, Lillehammer
- SIMEG (Sacro iliac medical expert group); leader Thomas Kibsgård
- The Norwegian Registry for spine surgery

International

- De Kleuver, the Netherlands
- Paul Herdheim, Karolinska University Hospital, Sweden
- Helena Brisby, Dept. of Orthopaedics, Sahlgrenska University Hospital, Sweden
- Bungo Otsuki, Kyoto Nakagyo Ward





Funding

- South-Eastern Norway Regional Health Authority
- Western Norway Regional Health Authority
- Central Norway Regional Health Authority
- Sophies Minde Ortopedi AS

Scientific production of the research group in 2018

Peer reviewed original research articles: 5

Selected publications:

"Adjacent Disc Degeneration After Lumbar Total Disc Replacement or Nonoperative Treatment: A Randomized Study with 8-year Follow-up"

Furunes H, Hellum C, Espeland A, Brox JI, Småstuen MC, Berg L, Storheim K (2018)
Spine (Phila Pa 1976), 43 (24), 1695-1703

"Physiological in vitro sacroiliac joint motion: a study on three-dimensional posterior pelvic ring kinematics"

Hammer N, Scholze M, Kibsgård T, Klima S, Schleifenbaum S, Seidel T, Werner M, Grunert R (2018)
J Anat, 234 (3), 346-358

"Reliability and Construct Validity of the Adapted Norwegian Version of the Early-Onset Scoliosis 24-item Questionnaire"

Molland RS, Diep LM, Brox JI, Stuge B, Holm I, Kibsgard TJ (2018)
J Am Acad Orthop Surg Glob Res Rev, 2 (7), e066





Research in rheumatological diseases – Diakonhjemmet Hospital



Group Leaders

Tore Kvien, Professor, Dept. of Orthopaedics, UiO (t.k.kvien@medisin.uio.no),
Head of Department of Rheumatology, Diakonhjemmet Hospital

Group Members

- Till Uhlig, Professor/MD
- Espen Haavardsholm, Professor/MD
- Ingvild Kjeken, Professor/OT
- Hanne Dagfinnrud, Professor/PT
- Hilde Berner Hammer, senior researcher/consultant, MD
- Anne Grete Semb, senior researcher, MD (cardiologist)
- Ida K Haugen, senior researcher, MD
- Siri Lillegraven, Postdoctoral fellow/consultant, MD
- Sella Provan, Postdoctoral fellow/consultant, MD
- Anna Birgitte Aga, Postdoctoral fellow/consultant, MD
- Silje Syversen, Postdoctoral fellow/consultant, MD
- Guro Løvik Goll, Postdoctoral fellow/consultant, MD
- Marte Schrumf Heiberg, Postdoctoral fellow/consultant, MD
- Maria Dahl Mjaavatten, Postdoctoral fellow/MD
- Eirik Klami Kristianslund, Postdoctoral fellow/MD
- Silvia Rollefstad, Postdoctoral fellow/MD
- Heidi Zangi, researcher/RN
- Rikke Moe, researcher/PT
- Mari Klokkerud, researcher/OT
- Numerous PhD fellows

Research profile and aims

Focus on disease course and outcome of inflammatory joint diseases and hand osteoarthritis, as well as therapeutic strategy trials.

Ongoing projects

- NOR-DRUM study (Therapeutic drug monitoring RCT)
- NOR-DMARD study (longitudinal follow-up after drug intervention)
- ARCTIC-REWIND (Drug tapering in RA, RCT)
- The Norwegian part of NOR-STAR
- ATACC-RA (cardiovascular risk in RA)
- SURF-RA (cardiovascular risk in RA and related diseases)
- Post-hoc analyses from many observational and RCT studies





Most important national and international collaborators

National

- Most rheumatological departments

International

- Prof. Desiree van der Heijde, Leiden, the Netherlands
- Prof. Josef Smolen, Vienna, Austria
- Prof. Daniel Aletaha, Vienna, Austria
- Prof. Cem Gabay, Geneva, Switzerland
- Prof. Merete Lund Hetland, Copenhagen, Denmark
- Mikkel Østergaard, Copenhagen, Denmark
- Prof. Laure Gossec, Paris, France
- Prof. Nicola Dalbeth, Auckland, New Zealand

Funding

- Southern and Eastern Norway Regional Health Authority
- The Research Council of Norway
- KLINBEFORSK

Scientific production of the research group in 2018

Peer reviewed original research articles: 62

Selected publications:

Michelsen B, Sexton J, Smolen JS, Aletaha D, Krogh NS, van der Heijde D, Kvien TK, Hetland ML (2018)
"Can disease activity in patients with psoriatic arthritis be adequately assessed by a modified Disease Activity index for Psoriatic Arthritis (DAPSA) based on 28 joints?"

Ann Rheum Dis, 77 (12), 1736-1741

DOI 10.1136/annrheumdis-2018-213463, PubMed 30237203, WoS 000451780400015 (Details)

Paulshus Sundlisæter N, Aga AB, Olsen IC, Hammer HB, Uhlig T, van der Heijde D, Kvien TK, Lillegraven S, Haavardsholm EA, ARCTIC study group (2018)
"Clinical and ultrasound remission after 6 months of treat-to-target therapy in early rheumatoid arthritis: associations to future good radiographic and physical outcomes"

Ann Rheum Dis, 77 (10), 1421-1425

DOI 10.1136/annrheumdis-2017-212830, PubMed 29934373, WoS 000446465700017 Cristin 1598633 (Details)

Goll GL, Kvien TK (2018)

"New-generation JAK inhibitors: how selective can they be?"

Lancet, 391 (10139), 2477-2478

DOI 10.1016/S0140-6736(18)31325-4, PubMed 29908671, WoS 000436403700006 (Details)





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Vreim Holm AG, [Terjesen T](#), [Reikerås O](#) (2018)

Subtrochanteric shortening and uncemented arthroplasty in hips with high dislocation - a cohort study with 13-30 years follow-up

J Orthop, 16 (1), 80-85

DOI [10.1016/j.jor.2018.12.005](https://doi.org/10.1016/j.jor.2018.12.005), PubMed [30662244](#), WoS [000456541700017](#) ([Details](#))

Furunes H, [Hellum C](#), Espeland A, [Brox JI](#), [Småstuen MC](#), Berg L, [Storheim K](#) (2018)

Adjacent Disc Degeneration After Lumbar Total Disc Replacement or Nonoperative Treatment: A Randomized Study with 8-year Follow-up

Spine (Phila Pa 1976), 43 (24), 1695-1703

DOI [10.1097/BRS.0000000000002712](https://doi.org/10.1097/BRS.0000000000002712), PubMed [29794581](#), WoS [000452187300009](#) Cristin [1596288](#) ([Details](#))

Glette MK, [Røise O](#), Kringeland T, Churruca K, Braithwaite J, Wiig S (2018)

Nursing home leaders' and nurses' experiences of resources, staffing and competence levels and the relation to hospital readmissions - a case study

BMC Health Serv Res, 18 (1), 955

DOI [10.1186/s12913-018-3769-3](https://doi.org/10.1186/s12913-018-3769-3), PubMed [30541632](#), WoS [000452966600006](#) Cristin [1642570](#) ([Details](#))

Hammer N, Scholze M, [Kibsgård T](#), Klima S, Schleifenbaum S, Seidel T, Werner M, Grunert R (2018)

Physiological in vitro sacroiliac joint motion: a study on three-dimensional posterior pelvic ring kinematics

J Anat, 234 (3), 346-358

DOI [10.1111/joa.12924](https://doi.org/10.1111/joa.12924), PubMed [30536830](#), WoS [000458542900006](#) Cristin [1682770](#) ([Details](#))

DePhillipo NN, Moatshe G, Chahla J, Aman ZS, Storaci HW, Morris ER, Robbins CM, [Engebretsen L](#), LaPrade RF (2018)

Quantitative and Qualitative Assessment of the Posterior Medial Meniscus Anatomy: Defining Meniscal Ramp Lesions

Am J Sports Med, 47 (2), 372-378

DOI [10.1177/0363546518814258](https://doi.org/10.1177/0363546518814258), PubMed [30525875](#), WoS [000457641400019](#) Cristin [1642614](#) ([Details](#))

Andreasen C, [Solberg LB](#), Basso T, Borgen TT, Dahl C, [Wisløff T](#), Hagen G, Apalset EM, Gjertsen JE, Figved W, Hübschle LM, Stutzer JM, Elvenes J, Joakimsen RM, Syversen U, [Eriksen EF](#), [Nordsletten L](#), [Frihagen F](#), Omsland TK, Bjørnerem Å (2018)

Effect of a Fracture Liaison Service on the Rate of Subsequent Fracture Among Patients With a Fragility Fracture in the Norwegian Capture the Fracture Initiative (NoFRACt): A Trial Protocol

JAMA Netw Open, 1 (8), e185701

DOI [10.1001/jamanetworkopen.2018.5701](https://doi.org/10.1001/jamanetworkopen.2018.5701), PubMed [30646281](#), WoS [000456295400003](#) Cristin [1642029](#) ([Details](#))





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Effect of Activity at Time of Injury and Concomitant Ligament Injuries on Patient-Reported Outcome After Posterior Cruciate Ligament Reconstruction

Orthop J Sports Med, 6 (12), 2325967118817297

DOI [10.1177/2325967118817297](https://doi.org/10.1177/2325967118817297), PubMed [30627591](#), WoS [000454496800001](#) Cristin [1651365](#) ([Details](#))

Stødle AH, Molund M, Nilsen F, Hellund JC, Hvaal K (2018)

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Foot Ankle Spec, 1938640018816363 (in press)

DOI [10.1177/1938640018816363](https://doi.org/10.1177/1938640018816363), PubMed [30499329](#) Cristin [1679412](#) ([Details](#))

Ekås GR, Moksnes H, Grindem H, Risberg MA, Engebretsen L (2018)

Coping With Anterior Cruciate Ligament Injury From Childhood to Maturation: A Prospective Case Series of 44 Patients With Mean 8 Years' Follow-up

Am J Sports Med, 47 (1), 22-30

DOI [10.1177/0363546518810750](https://doi.org/10.1177/0363546518810750), PubMed [30476435](#), WoS [000454146900009](#) Cristin [1636104](#) ([Details](#))

Risum K, Edvardsen E, Godang K, Selvaag AM, Hansen BH, Molberg Ø, Bollerslev J, Holm I, Dagfinrud H, Sanner H (2018)

Physical Fitness in Patients with Oligo- and Polyarticular Juvenile Idiopathic Arthritis Diagnosed in the Era of Biologics - A Controlled Cross-Sectional Study

Arthritis Care Res (Hoboken) (in press)

DOI [10.1002/acr.23818](https://doi.org/10.1002/acr.23818), PubMed [30474929](#) Cristin [1645312](#) ([Details](#))

Stuge B (2018)

Evidence of stabilizing exercises for low back- and pelvic girdle pain - a critical review

Braz J Phys Ther, 23 (2), 181-186

DOI [10.1016/j.bjpt.2018.11.006](https://doi.org/10.1016/j.bjpt.2018.11.006), PubMed [30471967](#), WoS [000461964200013](#) Cristin [1643761](#) ([Details](#))

Kise NJ, Roos EM, Stensrud S, Engebretsen L, Risberg MA (2018)

The 6-m timed hop test is a prognostic factor for outcomes in patients with meniscal tears treated with exercise therapy or arthroscopic partial meniscectomy: a secondary, exploratory analysis of the Odense-Oslo meniscectomy versus exercise (OMEX) trial

Knee Surg Sports Traumatol Arthrosc, 27 (8), 2478-2487

DOI [10.1007/s00167-018-5241-7](https://doi.org/10.1007/s00167-018-5241-7), PubMed [30446783](#), WoS [000477030600013](#) Cristin [1639717](#) ([Details](#))

Moatshe G, LaPrade RF, Engebretsen L (2018)

How to avoid tunnel convergence in a multiligament injured knee

Ann. Joint, 3 (11), UNSP 93

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Anterior Cruciate Ligament Reconstruction Using a Bone-Patellar Tendon-Bone Graft With and
Without a Ligament Augmentation Device: A 25-Year Follow-up of a Prospective Randomized
Controlled Trial
Orthop J Sports Med, 6 (11), 2325967118808778
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Jenssen KK, Lundgreen K, [Madsen JE](#), Kvakestad R, [Dimmen S](#) (2018)
Prognostic Factors for Functional Outcome After Rotator Cuff Repair: A Prospective Cohort Study
With 2-Year Follow-up
Am J Sports Med, 46 (14), 3463-3470
DOI [10.1177/0363546518803331](https://doi.org/10.1177/0363546518803331), PubMed [30383411](#), WoS [000452315600018](#) Cristin [1632228](#)
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[Risberg MA](#), [Engebretsen L](#), [Nordsletten L](#), [Holm I](#) (2018)
Package progression for patients with musculoskeletal ailments?
Tidsskr. Nor. Laegeforen., 138 (17), 1598-1599
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Effects of nutritional intervention upon bone turnover in elderly hip fracture patients. Randomized
controlled trial
Clin Nutr ESPEN, 29, 52-58
DOI [10.1016/j.clnesp.2017.11.012](https://doi.org/10.1016/j.clnesp.2017.11.012), PubMed [30661701](#), WoS [000456061800008](#) Cristin [1642407](#)
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Limb lengthening and deformity correction with externally controlled motorized intramedullary nails:
evaluation of 50 consecutive lengthenings
Acta Orthop, 90 (1), 81-87
DOI [10.1080/17453674.2018.1534321](https://doi.org/10.1080/17453674.2018.1534321), PubMed [30371122](#), WoS [000457762200015](#) Cristin [1666913](#)
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Brommeland T, [Helseth E](#), Aarhus M, Moen KG, Dyrskog S, Bergholt B, Olivecrona Z, Jeppesen E
(2018)
Best practice guidelines for blunt cerebrovascular injury (BCVI)
Scand J Trauma Resusc Emerg Med, 26 (1), 90
DOI [10.1186/s13049-018-0559-1](https://doi.org/10.1186/s13049-018-0559-1), PubMed [30373641](#), WoS [000448850900001](#) Cristin [1627522](#)
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Fuglesang HFS, [Flugsrud GB](#), Randsborg PH, Hammer OL, Utvåg SE (2018)
Five-Year Follow-up Results of a Randomized Controlled Study Comparing Intramedullary Nailing with
Plate Fixation of Completely Displaced Midshaft Fractures of the Clavicle in Adults
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DOI [10.2106/JBJS.OA.18.00009](https://doi.org/10.2106/JBJS.OA.18.00009), PubMed [30882049](#) Cristin [1625874](#) [\(Details\)](#)





Risum K, Hansen BH, [Selvaag AM](#), [Molberg Ø](#), [Dagfinrud H](#), [Sanner H](#) (2018)

Physical activity in patients with oligo- and polyarticular juvenile idiopathic arthritis diagnosed in the era of biologics: a controlled cross-sectional study

Pediatr Rheumatol Online J, 16 (1), 64

DOI [10.1186/s12969-018-0281-6](https://doi.org/10.1186/s12969-018-0281-6), PubMed [30333025](#), WoS [000447764600001](#) Cristin [1631669](#) ([Details](#))

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Blount's disease successfully treated with intraepiphyseal osteotomy with elevation of the medial plateau of the tibia-a case report with 65 years' follow-up

Acta Orthop, 89 (6), 699-701

DOI [10.1080/17453674.2018.1516179](https://doi.org/10.1080/17453674.2018.1516179), PubMed [30328743](#), WoS [000453932600020](#) Cristin [1639604](#) ([Details](#))

Isaksen KF, Roscher EK, Iversen KS, [Etzen I](#), Clarke-Jenssen J, [Nordsletten L](#), Madsen JE (2018)

Preoperative incipient osteoarthritis predicts failure after periacetabular osteotomy: 69 hips operated through the anterior intrapelvic approach

Hip Int, 29 (5), 516-526

DOI [10.1177/1120700018804786](https://doi.org/10.1177/1120700018804786), PubMed [30324825](#) Cristin [1632246](#) ([Details](#))

Vaksvik T, [Røkkum M](#), Holm I (2018)

Cold hypersensitivity after hand injuries. A prospective 7-year follow-up

J Plast Surg Hand Surg, 52 (6), 363-366

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Ann Oncol, 29 (Suppl 4), iv51-iv67

DOI [10.1093/annonc/mdy096](https://doi.org/10.1093/annonc/mdy096), PubMed [29846498](#) Cristin [1640474](#) ([Details](#))

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Ann Oncol, 29 (Suppl 4), iv68-iv78

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Ann Oncol, 29 (Suppl 4), iv267
DOI [10.1093/annonc/mdy320](https://doi.org/10.1093/annonc/mdy320), PubMed [30188977 \(Details\)](#)

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Ann Oncol, 29 (Suppl 4), iv268-iv269
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Casali PG, Bielack S, Abecassis N, Aro HT, Bauer S, Biagini R, Bonvalot S, Boukovinas I, Bovee JVMG, Brennan B, Brodowicz T, Broto JM, Brugières L, Buonadonna A, De Álava E, Dei Tos AP, Del Muro XG, Dileo P, Dhooge C, Eriksson M, Fagioli F, Fedenko A, Ferraresi V, Ferrari A, Ferrari S et al. (2018) Bone sarcomas: ESMO-PaedCan-EURACAN Clinical Practice Guidelines for diagnosis, treatment and follow-up
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Exploring physicians' decision-making in hospital readmission processes - a comparative case study
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High correlation between mechanical properties and bone mineral parameters in embalmed femurs
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