

FORHÅNDSVISNING AV IKKE INNLEVERT RAPPORT**Årsrapport 2010****Helse Sør-Øst - Artrose forskningsgruppe**

Hovedkonklusjon for 2010: 38 vitenskapelige artikler, en god etablert infrastruktur for forskningen innen hånd, kne og hofta artrose, aktive samarbeid med nasjonale kliniske forskningsmiljø, samt videreutvikling av etablerte internasjonale samarbeidspartnere. Målene for forskningsaktiviteten i 2010 er oppnådd.

Ortopedisk avdeling, Oslo universitetssykehus og Diakonhjemmet har i 2010 gjennom sitt forskningssamarbeid innen artrose vist en betydelig forskningsproduksjon igjennom antall internasjonale publikasjoner (38), antall leverte doktorgarder (4), flere postdoc stillinger (3), og en videretutvikling av de mange etablerte samt nye internasjonale forskningssamarbeid.

Kort oppsummering av 2010

- Doktorgradsstudier

- o Tre disputaser: Ingrid Eitzen, Sverre Løken og Sigbjørn Dimmen, (Ortopedisk avdeling)

- o Fire leverte doktorgradsarbeid Britt Elin Øiestad, Linda Fernandes (ortopedisk avdeling), Barbara Slatkowsky-Christensen (Diakonhjemmet) og Stig Heir (Martina Hansens Hospital)

- o 11 pågående doktorgradsstudier Philip Wilkens og Berthe Bø, Hilde Apold, Ida Svege, Silje Stensrud, Kari Anne Hakestad, Kirsten Lundgreen (alle Ortopedisk avdeling) Jan Harald Røtterud(AHus), Rikke H Moe, Ida Haugen, (Diakonhjemmet) Hege Grindem, Barbara Wondrasch (Nih), Håvard Moksnes (Nih).

- 3 Post-doc stillinger: Nina Østerås (Diakonhjemmet), Asbjørn Årøen og Ingrid Eitzen (Ortopedisk avdeling).

Artrose studier

- MUST studien - Ullensaker undersøkelsen: DEI 1 Epidemiologisk studie innen muskelskjelett og artrose, DEI 2: klinisk undersøkelse, DEL 3: intervensjonsstudier (RCTer), en metodeutvikling(Del 4)

- Håndartrose kohort: Levert doktorgradsarbeid Barbara Slatkowsky-Christensen).

- Håndartrose RCT - Del 3 MUST-Postdoc Nina Østerås.

- o Hofteartrrose studier: Levert doktorgrad Linda Fernandes, ny stipendiat, Ida Svege, langtidsoppfølgingen.

- Kneartrosestudier: Levert doktorgrad - Britt Elin Øiestad. Ny studie patellofemoral artrose

- Menisk-Artrose-studier: stipendiat Silje Stensrud (RCT)

- Bruskstudier: basalforskning, the Oslo CARE study (NAR- Rehab studier), samt klinisk randomisert studie (postdoc stipendiat Asbjørn Årøen, professor May Arna Risberg, professor Lars Engebretsen, stipendiater Jan Harald Røtterud og stipendiat Barbara Wondrasch).

- Metodeutvikling innen MR,dGEMRIC og ultralyd (Bruskstudier og artrose studier)

- Artroseskoler ved Diakonhjemmet og ved NAR (Norsk forskningssenter for aktiv rehabilitering), Ortopedisk avdeling og Hjelp24 NIMI, er etablert og evalueres.

- Nasjonale samarbeidspartnere

- Oslo universitetssykehus, Rikshospitalet - professor Finn Reinholdt og professor Jan E. Brinchmann (basalforskning brusk)

- Universitet i Oslo - professor Bård Natvig og Dag Bruusgaard (MUST studien)

- Akershus universitets sykehus (Ahus)- doktorgrads stipendiat og ortoped Jan Harald Røtterud (brusk studier)

- Lovsienberg Sykehus - stipendiat og ortoped Kirsten Ljungren (degenerative skulderlidelser)

- Martina Hansens hospital - stipendiat og ortoped Stig Heir (bruskstudier).

- Norges idretts høyskole (Nih)- professor Roald Bahr og professor Jan Gabri; bevegelesanalysestudier artrose (NAR - Rehab

Prosjektinformasjon

Prosjektansvarlig
[Lars Nordsletten](#)
 Oslo universitetssykehus HF -
 Ullevål sykehus

Prosjekt 2006254
 "Helse Øst Forskningsgruppe -
 ARTROSE"
 Forskningsgruppe

7. Disease Management -
 Musculoskeletal

Sampubliseringer med:

[2006130](#), [2010072](#), [2009064](#),
[2009003](#)

Rapporter:

[2007](#), [2008](#), [2009](#)

studier)

- Ullensaker kommune med kommuneoverlege Unni Berit Schervheim (styringsgruppenmedlem MUST studien).
- Samarbeid med bruker organisasjoner-Revmatikerforeningen.
- Internasjonale samarbeidspartnere i 2010
- Universitetet i Delaware ved professor Lynn Snyder-Mackler (finansiering fra National Institutes of Health,NIH,USA) (stipendiat Hege Grindem og postdocstipendiat Ingrid Eitzen).
- Universitet i Minnesota ved professor Robert LaPrade jobber med bruskk gruppen ved Ortopedisk avdeling (ligament forskning og bruskk studier).
- Syd Danske Universitet, Odense, Danmark ved professor Ewa Roos (stipendiat Silje Stensrud).
- University of Bern, Switzerland and Orthopaedic Surgery, Children ´s Hospital, Harvard Medical School, Boston (senior forsker Charles Mamisch, metodeutvikling/MR studier).
- Osteoarthritis Initiative (OAI) ved professor Felix Eckstein, Paracelsus University, Salzburg, Nederland. (stipendiat Ida Haugen)
- University of Keele, Storbritannia ved professor Peter Croft, (senior forsker Margreth Grotle,FORMI og Diakonhjemmet og professor Kåre Birger Hagen,Diakonhjemmet og UiO).
- Professor Desiree van der Heijde (stipendiat Ida Haugen).
- Universitetet i Leiden, Nederland -Professor Margreet Kloppenburg og Professor Jessica Bijsterbosch (stipendiat Ida Haugen; multisenterstudie- metodeutvikling)
- Boston University School of Medicine- professor David Felson og Universitetet i Lund - professor Martin Englund (håndartrose og Framingham studien).
- Professor Francis Berenbaum, Lyon, Frankrike.
- Diakonhjemmet: EULAR centre of excellence (2008-2013)

Vitenskapelige artikler

[Frihagen Frede, Waaler Gudrun M, Madsen Jan Erik, Nordsletten Lars, Aspaas Silje, Aas Eline](#)

The cost of hemiarthroplasty compared to that of internal fixation for femoral neck fractures. 2-year results involving 222 patients based on a randomized controlled trial.
Acta Orthop 2010 Aug;81(4):446-52.
PMID: 20515432

[Holm Inger, Oiestad Britt Elin, Risberg May Arna, Aune Arne Kristian](#)

No difference in knee function or prevalence of osteoarthritis after reconstruction of the anterior cruciate ligament with 4-strand hamstring autograft versus patellar tendon-bone autograft: a randomized study with 10-year follow-up.
Am J Sports Med 2010 Mar;38(3):448-54. Epub 2010 jan 23
PMID: 20097928

[Wilkens Philip, Scheel Inger B, Grundnes Oliver, Hellum Christian, Storheim Kjersti](#)

Effect of glucosamine on pain-related disability in patients with chronic low back pain and degenerative lumbar osteoarthritis: a randomized controlled trial.
JAMA 2010 Jul;304(1):45-52.
PMID: 20606148

[Magnussen Robert A, Granan Lars-Petter, Dunn Warren R, Amendola Annunziato, Andrish Jack T, Brophy Robert, Carey James L, Flanigan David, Huston Laura J, Jones Morgan, Kaeding Christopher C, McCarty Eric C, Marx Robert G, Matava Matthew J, Parker Richard D, Vidal Armando, Wolcott Michelle, Wolf Brian R, Wright Rick W, Spindler Kurt P, Engebretsen Lars](#)

Cross-cultural comparison of patients undergoing ACL reconstruction in the United States and Norway.
Knee Surg Sports Traumatol Arthrosc 2010 Jan;18(1):98-105.
PMID: 19784630

[Jakobsen Rune B, Shahdadfar Aboulghassem, Reinholt Finn P, Brinchmann Jan E](#)

Chondrogenesis in a hyaluronic acid scaffold: comparison between chondrocytes and MSC from bone marrow and adipose tissue.
Knee Surg Sports Traumatol Arthrosc 2010 Oct;18(10):1407-16. Epub 2009 des 18
PMID: 20020100

[Fernandes Linda, Storheim Kjersti, Nordsletten Lars, Risberg May Arna](#)

Development of a therapeutic exercise program for patients with osteoarthritis of the hip.
Phys Ther 2010 Apr;90(4):592-601. Epub 2010 feb 25

PMID: 20185613

[Fernandes L, Storheim K, Sandvik L, Nordsletten L, Risberg M A](#)

Efficacy of patient education and supervised exercise vs patient education alone in patients with hip osteoarthritis: a single blind randomized clinical trial.

Osteoarthritis Cartilage 2010 Oct;18(10):1237-43. Epub 2010 jul 13

PMID: 20633669

[Oiestad B E, Holm I, Engebretsen L, Risberg M A](#)

The association between radiographic knee osteoarthritis and knee symptoms, function and quality of life 10-15 years after anterior cruciate ligament reconstruction.

Br J Sports Med 2010 Jul. Epub 2010 jul 20

PMID: 20647299

[Øiestad Britt Elin, Holm Inger, Gunderson Ragnhild, Myklebust Grethe, Risberg May Arna](#)

Quadriceps muscle weakness after anterior cruciate ligament reconstruction: a risk factor for knee osteoarthritis?

Arthritis Care Res (Hoboken) 2010 Dec;62(12):1706-14. Epub 2010 jul 26

PMID: 20662041

[Oiestad Britt Elin, Holm Inger, Aune Arne Kristian, Gunderson Ragnhild, Myklebust Grethe, Engebretsen Lars, Fosdahl Merete Aarsland, Risberg May Arna](#)

Knee function and prevalence of knee osteoarthritis after anterior cruciate ligament reconstruction: a prospective study with 10 to 15 years of follow-up.

Am J Sports Med 2010 Nov;38(11):2201-10. Epub 2010 aug 16

PMID: 20713644

[Eitzen Ingrid, Eitzen Thomas J, Holm Inger, Snyder-Mackler Lynn, Risberg May Arna](#)

Anterior cruciate ligament-deficient potential copers and noncopers reveal different isokinetic quadriceps strength profiles in the early stage after injury.

Am J Sports Med 2010 Mar;38(3):586-93. Epub 2010 jan 28

PMID: 20110458

[Eitzen Ingrid, Moksnes Håvard, Snyder-Mackler Lynn, Engebretsen Lars, Risberg May Arna](#)

Functional tests should be accentuated more in the decision for ACL reconstruction.

Knee Surg Sports Traumatol Arthrosc 2010 Nov;18(11):1517-25. Epub 2010 apr 22

PMID: 20411377

[Eitzen Ingrid, Moksnes Håvard, Snyder-Mackler Lynn, Risberg May Arna](#)

A progressive 5-week exercise therapy program leads to significant improvement in knee function early after anterior cruciate ligament injury.

J Orthop Sports Phys Ther 2010 Nov;40(11):705-21.

PMID: 20710097

[Slatkowsky-Christensen B, Haugen I, Kvien T K](#)

Distribution of joint involvement in women with hand osteoarthritis and associations between joint counts and patient-reported outcome measures.

Ann Rheum Dis 2010 Jan;69(1):198-201.

PMID: 19147612

[Haugen I K, Slatkowsky-Christensen B, Lessem J, Kvien T K](#)

The responsiveness of joint counts, patient-reported measures and proposed composite scores in hand osteoarthritis: analyses from a placebo-controlled trial.

Ann Rheum Dis 2010 Aug;69(8):1436-40. Epub 2009 jun 8

PMID: 19508966

[Moe Rikke Helene, Uhlig Till, Kjekken Ingvild, Hagen Kåre Birger, Kvien Tore Kristian, Grotle Margreth](#)

Multidisciplinary and multifaceted outpatient management of patients with osteoarthritis: protocol for a randomised, controlled trial.

BMC Musculoskelet Disord 2010;11():253. Epub 2010 nov 1

PMID: 21040556

[Moe Rikke H, Garratt Andrew, Slatkowsky-Christensen Barbara, Maheu Emmanuel, Mowinckel Petter, Kvien Tore K, Kjekken Ingvild, Hagen Kåre Birger, Uhlig Till](#)

Concurrent evaluation of data quality, reliability and validity of the Australian/Canadian Osteoarthritis Hand Index and the Functional Index for Hand Osteoarthritis.

Rheumatology (Oxford) 2010 Dec;49(12):2327-36. Epub 2010 aug 11

PMID: 20702486

[Hjermundrud Vegar, Bjune Tonje Kvist, Risberg May Arna, Engebretsen Lars, Arøen Asbjørn](#)

Full-thickness cartilage lesion do not affect knee function in patients with ACL injury.

Knee Surg Sports Traumatol Arthrosc 2010 Mar;18(3):298-303. Epub 2009 sep 4

PMID: 19760401

[Løken Sverre, Heir Stig, Holme Ingar, Engebretsen Lars, Årøen Asbjørn](#)

6-year follow-up of 84 patients with cartilage defects in the knee. Knee scores improved but recovery was incomplete.

Acta Orthop 2010 Oct;81(5):611-8.

PMID: 20860448

[Heir Stig, Nerhus Tor K, Røtterud Jan H, Løken Sverre, Ekeland Arne, Engebretsen Lars, Arøen Asbjørn](#)

Focal cartilage defects in the knee impair quality of life as much as severe osteoarthritis: a comparison of knee injury and osteoarthritis outcome score in 4 patient categories scheduled for knee surgery.

Am J Sports Med 2010 Feb;38(2):231-7. Epub 2009 des 30

PMID: 20042546

[Heir Stig, Årøen Asbjørn, Løken Sverre, Sulheim Steinar, Engebretsen Lars, Reinholt Finn P](#)

Intraarticular location predicts cartilage filling and subchondral bone changes in a chondral defect.

Acta Orthop 2010 Oct;81(5):619-27.

PMID: 20919808

[Grotle Margreth, Croft Peter](#)

More pain, less gain.

Occup Environ Med 2010 Jul;67(7):434-5.

PMID: 20581258

[Grotle Margreth, Garratt Andrew M, Klokkerud Mari, Løchting Ida, Uhlig Till, Hagen Kåre B](#)

What's in team rehabilitation care after arthroplasty for osteoarthritis? Results from a multicenter, longitudinal study assessing structure, process, and outcome.

Phys Ther 2010 Jan;90(1):121-31.

PMID: 20045807

[Flugsrud Gunnar B, Nordsletten Lars, Reinholt Finn P, Risberg May Arna, Rydevik Karin, Uhlig Till](#)

[Osteoarthritis].

Tidsskr Nor Laegeforen 2010 Nov;130(21):2136-40.

PMID: 21052117

[Landewé R B M, Günther K P, Lukas C, Braun J, Combe B, Conaghan P G, Dreinhöfer K, Fritschy D, Getty J, van der Heide H J L, Kvien T K, Machold K, Mihai C, Mosconi M, Nelissen R, Pascual E, Pavelka K, Pileckyte M, Puhl W, Punzi L, Rütther W, San-Julian M, Tudisco C, Westhovens R, Witso E, van der Heijde D M F M](#)

EULAR/EFORT recommendations for the diagnosis and initial management of patients with acute or recent onset swelling of the knee.

Ann Rheum Dis 2010 Jan;69(1):12-9.

PMID: 19147613

[Kvien Tore K](#)

Annals of the Rheumatic Diseases: an update.

Ann Rheum Dis 2010 Jun;69(6):943-4.

PMID: 20498220

[LaPrade Robert F, Johansen Steinar, Agel Julie, Risberg May Arna, Moksnes Havard, Engebretsen Lars](#)

Outcomes of an anatomic posterolateral knee reconstruction.

J Bone Joint Surg Am 2010 Jan;92(1):16-22.

PMID: 20048091

[Coobs Benjamin R, Wijdicks Coen A, Armitage Bryan M, Spiridonov Stanislav I, Westerhaus Benjamin D, Johansen Steinar, Engebretsen Lars, LaPrade Robert F](#)

An in vitro analysis of an anatomical medial knee reconstruction.

Am J Sports Med 2010 Feb;38(2):339-47. Epub 2009 des 4

PMID: 19966100

[Wijdicks Coen A, Griffith Chad J, Johansen Steinar, Engebretsen Lars, LaPrade Robert F](#)

Injuries to the medial collateral ligament and associated medial structures of the knee.

J Bone Joint Surg Am 2010 May;92(5):1266-80.

PMID: 20439679

[Anderson Colin J, Westerhaus Benjamin D, Pietrini Sean D, Ziegler Connor G, Wijdicks Coen A, Johansen Steinar, Engebretsen Lars, LaPrade Robert F](#)

Kinematic impact of anteromedial and posterolateral bundle graft fixation angles on double-bundle anterior cruciate ligament reconstructions.

Am J Sports Med 2010 Aug;38(8):1575-83.

PMID: 20675649

[Wijdicks Coen A, Ewart David T, Nuckley David J, Johansen Steinar, Engebretsen Lars, LaPrade Robert F](#)

Structural properties of the primary medial knee ligaments.

Am J Sports Med 2010 Aug;38(8):1638-46.

PMID: 20675650

[McCarthy Mark, Camarda Lawrence, Wijdicks Coen A, Johansen Steinar, Engebretsen Lars, LaPrade Robert F](#)

Anatomic posterolateral knee reconstructions require a popliteofibular ligament reconstruction through a tibial tunnel.

Am J Sports Med 2010 Aug;38(8):1674-81.

PMID: 20675651

[Ziegler Connor G, Pietrini Sean D, Westerhaus Benjamin D, Anderson Colin J, Wijdicks Coen A, Johansen Steinar, Engebretsen Lars, LaPrade Robert F](#)

Arthroscopically Pertinent Landmarks for Tunnel Positioning in Single-Bundle and Double-Bundle Anterior Cruciate

Ligament Reconstructions.
Am J Sports Med 2010 Dec. Epub 2010 des 20
PMID: 21173191

[Rydevik Karin, Fernandes Linda, Nordsletten Lars, Risberg May Arna](#)
Functioning and disability in patients with hip osteoarthritis with mild to moderate pain.
J Orthop Sports Phys Ther 2010 Oct;40(10):616-24.
PMID: 20811166

[Ihlebaek Camilla, Brage Søren, Natvig Bård, Bruusgaard Dag](#)
[Occurrence of musculoskeletal disorders in Norway].
Tidsskr Nor Laegeforen 2010 Dec;130(23):2365-8.
PMID: 21139663

[Brage Søren, Ihlebaek Camilla, Natvig Bård, Bruusgaard Dag](#)
[Musculoskeletal disorders as causes of sick leave and disability benefits].
Tidsskr Nor Laegeforen 2010 Dec;130(23):2369-70.
PMID: 21139664

Andre forskningspublikasjoner

Uhlig T, Slatkowsky-Christensen, Moe RH, Kvien TK.
The burden of osteoarthritis: the societal and the patient perspective.
Therapy 2010;7(6):605-619

Iwasa J, Shima Y, Engebretsen L.
Results of ACL reconstruction.
The Knee Joint. Surgical techniques and strategies. ISBN 978-2-287-99352-7.

Engebretsen L
Cartilage treatments.
Practice of arthroscopic surgery. Forlag: Ren min wei sheng chu ban she. ISBN 9787117114516 / 7117114517

Engebretsen L
Akutte kneskader.
Idrettsskader. ISBN 978-82-450-1092-3. 2010.

Engebretsen L
Practice of arthroscopic surgery.
Forlag: Ren min wei sheng chu ban she. ISBN 9787117114516 / 7117114517

Van Assche, Wondrasch, Risberg
Rehabilitation after Articular Cartilage Injuries in the knee (Part I) and postoperative rehabilitation of patients after articular Cartilage Repair- Current Concepts. Editors: Brittberg, Imhoff, Madry, Mandelbaum. DJO Publications Inc. Chapter 19:2010 ISBN number: 978-0-9558873-1-4

Mathiesen, Alexander
Håndartrose-patologiske forandringer sett med ultralyd
Best Practic, Eular 2010 Nr 4, Sept 2010, 2.årgang s 44-46

Doktorgrader

Ingrid Eitzen
Knee function and rehabilitation after anterior cruciate ligament injury. Early functional assesments and interventions
Disputert: August 2010
Hovedveileder: May Arna Risberg

Sverre Løken
Cartilage injuries in the knee : natural history and surgical repair.
Disputert: April 2010
Hovedveileder: Lars Engebretsen

Sigbjørn Dimmen
Effects of cox inhibitors on bone and tendon healing
Disputert: Juni 2010
Hovedveileder: Jan Erik Madsen

eRapport er utarbeidet av Sølvi Lurfald og Reidar Thorstensen.
Regionalt kompetansesenter for klinisk forskning, Helse Vest

Alle henvendelser rettes [eRapport](#).