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CURRICULUM VITAE (updated February 2018)  
PROFESSOR EWA ROOS

Five selected publications:

Kise NJ, Risberg MA, Stensrud S, Ranstam J, Engebretsen L, **Roos EM**. Exercise therapy versus arthroscopic partial meniscectomy for degenerative meniscal tear in middle aged patients: randomised controlled trial with two year follow-up. **BMJ**. 2016 Jul 20;354:i3740. doi: 10.1136/bmj.i3740. PubMed PMID: 27440192; PubMedCentral PMCID: PMC4957588.

**Roos EM**, Arden NK. Strategies for the prevention of knee osteoarthritis. **Nat Rev Rheumatol**. 2015 Oct 6. doi: 10.1038/nrrheum.2015.135. [Epub ahead of print] Review. PubMed PMID: 26439406.

Skou ST, **Roos EM**, Laursen MB, Rathleff MS, Arendt-Nielsen L, Simonsen O, Rasmussen S. A Randomized, Controlled Trial of Total Knee Replacement. **N Engl J Med**. 2015 Oct 22;373(17):1597-606. doi: 10.1056/NEJMoa1505467. PubMed PMID: 26488691.

Thorlund JB, Juhl CB, **Roos EM**, Lohmander LS. Arthroscopic surgery for degenerative knee: systematic review and meta-analysis of benefits and harms. **BMJ**. 2015 Jun 16;350:h2747. doi: 10.1136/bmj.h2747. PubMed PMID: 26080045

Frobell RB, **Roos EM**, Roos HP, Ranstam J, Lohmander LS. A Randomized Trial of Treatment for Acute Anterior Cruciate Ligament Tear. **N Engl J Med**. 2010 Jul 22;363(4):331-42.

### Career summary:

PhD (1999) and Associate Professor (2003) Lund University, Sweden

Professor and Head of Research, Musculoskeletal Function and Physiotherapy and Center for Muscle and Joint Health, Department of Sports and Clinical Biomechanics, University of Southern Denmark (2007-); Honorary Professorial Fellow, Melbourne University, Melbourne, Australia (2010-20). Adjunct Professor, La Trobe University, Melbourne Australia (2015-18).

### Biosketch:

Professor Roos has a passion for advancing the frontiers of knowledge in muscle and joint health to improve the quality of life of those with musculoskeletal disease and to improve healthcare delivery for these conditions. Her focus is on patient involvement, non-surgical and surgical treatments and clinical care pathways.

A decade ago Professor Roos and colleagues started to investigate the evidence underpinning the outcomes from arthroscopic knee surgery. When they found very little evidence to support the ever-increasing frequency of these surgical procedures, they started **investigation of the efficacy of arthroscopic surgery compared with sham surgery or structured exercises** through a series of high quality randomised controlled trials performed in collaboration with Danish and Norwegian orthopaedic surgeons and physiotherapists. To the surprise of many and the concern of some, the results of these and other research projects have found that arthroscopic surgery for the degenerative knee is no better than sham surgery or non-surgical treatments for improving pain and loss of function.

Professor Roos is an internationally leading researcher and change agent in the field of musculoskeletal health. She has been able to both produce high-impact clinical research and translate that research into clinical tools that are easily and effectively implemented in hospitals, primary care clinics and even community settings in municipalities. She has also served as an expert on clinical guideline committees for osteoarthritis (Sweden and Norway 2003, Sweden 2012, 2017-), Osteoarthritis Research Society International 2014, China 2017), knee osteoarthritis (Denmark 2012) and meniscus pathology (Denmark 2015), thereby impacting the delivery of clinical care in the Nordic countries and worldwide.

One of the principal outcomes from her research has been **the development of the Good Life with osteoarthritis in Denmark (GLA:D®) project** for people with knee and hip pain. The GLA:D® project is an outstanding example of how to successfully implement evidence-based clinical guidelines in primary health care practice and municipalities. Its underlying principles focus on patient education, patient empowerment, exercises and self-management. Since 2013, more than 1000 clinicians nationwide have been trained in delivering GLA:D® care to about 30,000 patients, who report remarkable improvements in health in terms of less pain, less disability, consumption of less pain medication, increase in physical activity, reduced sick leave and return to work ([www.glaiddk.com](http://www.glaiddk.com)). The GLA:D® project now serves as a template for establishing similar initiatives in other countries including Canada (2015), Australia (2016) and China (2017).

Professor Roos' research unit at University of Southern Denmark now has 20 members, attracting international recognition for its involvement in evidence-based medicine, development of patient-reported outcome measures and pioneering research in the field of joint injury, osteoarthritis and the role of surgery and exercise in treatment.

Professor Roos plays an active role in breaking down the barriers between disciplines and forging interdisciplinary teams to collaborate on addressing key research questions of common interest. She is open-minded and inclusive, welcoming the opportunity to work with other disciplines and professional groups - a trait not always found in academia - to ensure the

highest standards and the best possible outcomes for people suffering from musculoskeletal disease. To this end, she has been integral to the **creation of the new Center for Health in Muscles and Joints** at the University of Southern Denmark, which aims to become the leading institution in Denmark for information exchange, interdisciplinary research and innovation in the domain of musculoskeletal health.

Professor Roos has published many articles in lay language targeting patients with osteoarthritis, often in collaboration with the Swedish and Danish Rheumatism Associations and she has made hundreds of appearances in printed and electronic media and TV. She takes every opportunity to increase political awareness of the impact of muscle and joint disease for the individual and the society and the proven benefits of physical activity for those with these conditions in Denmark and internationally, to raise its visibility through public debate, and to advocate for its recognition as a public health priority to offer treatment of muscle and joint disease equal to that of other chronic diseases including heart disease and diabetes. In 2014, her contribution to public health was recognised when she won the **OARSI (Osteoarthritis Research Society International) Clinical Research Award** for her "outstanding work in exercise as prevention and treatment of joint pain, joint injury and osteoarthritis". This is the first time this highly competitive award was given to someone other than a medical doctor and to a Danish researcher. In addition, in 2014, she was awarded the **Queen Ingrid of Denmark's prize for outstanding arthritis research** by Queen Margrethe II of Denmark, and the Danish Rheumatism Association (Gigtforeningen).

Professor Roos is the **author of 205 peer-reviewed publications**. She has published in high impact journals such as the New England Journal of Medicine, the British Medical Journal and The Lancet. Her work has been cited in total 10952 times with 1 paper cited more than 1100 times and 23 additional papers cited more than 100 times. Her h-index is 54 (January 2018). She has supervised 21 PhD theses to completion with her students having professional backgrounds in medicine, physiotherapy, nursing and sports. Four of her PhD students have received awards and/or prestigious post-doctoral funding from the Swedish or Danish Medical Research Councils.

Her success in attracting project funding is testament to the value that funders place on her research. In total, she has attained over 27 million SEK, 10 million DKK, 0.6 million AUD, 0.8 million CAD, 0.9 million USD and 4.2 million Euro as applicant or co-applicant since 2005.

## Publications

**Arthroscopic meniscectomy versus non-surgical or sham treatment in patients with MRI confirmed degenerative meniscus lesions: a protocol for an individual participant data meta-analysis**

Wijn, S. R. W., Rovers, M. M., Rongen, J. J., Østerås, H., Risberg, M. A., Roos, E. M., Hare, K. B., van de Graaf, V. A., Poolman, R. W., Englund, M. & Hannink, G., 8. Mar 2020, In : BMJ Open. 10, 3, p. e031864

**Infographic. Risk profile for sport-related post-traumatic knee osteoarthritis**

Whittaker, J. L. & Roos, E. M., Mar 2020, In : British Journal of Sports Medicine. 54, 6, p. 362-363

**Three steps to changing the narrative about knee osteoarthritis care: A call to action**

Caneiro, J. P., O'Sullivan, P. B., Roos, E. M., Smith, A. J., Choong, P., Dowsey, M., Hunter, D. J., Kemp, J., Rodriguez, J., Lohmander, S., Bunzli, S. & Barton, C. J., Mar 2020, In : British Journal of Sports Medicine. 54, 5, p. 256-258

**Comparison of three sets of clinical classification criteria for knee osteoarthritis: A cross-sectional study of 13,459 patients treated in primary care**

Skou, S. T., Koes, B. W., Grønne, D. T., Young, J. & Roos, E. M., Feb 2020, In : Osteoarthritis and Cartilage. 28, 2, p. 167-172

**Patients report inferior quality of care for knee osteoarthritis prior to assessment for knee replacement surgery - a cross-sectional study of 517 patients in Denmark**

Ingelsrud, L. H., Roos, E. M., Gromov, K., Jensen, S. S. & Troelsen, A., Feb 2020, In : Acta Orthopaedica (Print Edition). 91, 1, p. 82-87

**Infographic. Roadmap to managing a person with musculoskeletal pain irrespective of body region**

Caneiro, J. P., Roos, E. M., Barton, C. J., O'Sullivan, K., Kent, P., Lin, I., Choong, P., Crossley, K. M., Hartvigsen, J., Smith, A. J., Wernli, K. & O'Sullivan, P. B., 20. Jan 2020, In : British Journal of Sports Medicine. 2 p.

**Cost-effectiveness of total knee replacement in addition to non-surgical treatment: a 2-year outcome from a randomised trial in secondary care in Denmark**

Skou, S. T., Roos, E., Laursen, M., Arendt-Nielsen, L., Rasmussen, S., Simonsen, O., Ibsen, R., Larsen, A. T. & Kjellberg, J., 15. Jan 2020, In : BMJ Open. 10, 11 p., e033495.

**Infographic. Therapeutic exercise relieves pain and does not harm knee cartilage nor trigger inflammation**

Bricca, A., Roos, E. M., Juhl, C. B., Skou, S. T., Silva, D. O. & Barton, C. J., Jan 2020, In : British Journal of Sports Medicine. 54, 2, p. 118-119

**Mapping EQ-5D-3L from the Knee Injury and Osteoarthritis Outcome Score (KOOS)**

Kiadaliri, A., Alava, M. H., Roos, E. M. & Englund, M., Jan 2020, In : Quality of Life Research. 29, 1, p. 265-274

**Knee osteoarthritis risk is increased 4-6 fold after knee injury - a systematic review and meta-analysis**

Poulsen, E., Goncalves, G. H., Bricca, A., Roos, E. M., Thorlund, J. B. & Juhl, C. B., 1. Dec 2019, In : British Journal of Sports Medicine. 53, 23, p. 1454-1463

**It is good to feel better, but better to feel good: Whether a patient finds treatment successful' or not depends on the questions researchers ask**

Roos, E. M., Boyle, E., Frobell, R. B., Lohmander, L. S. & Ingelsrud, L. H., Dec 2019, In : British Journal of Sports Medicine. 53, 23, p. 1474-1478

**Association between thigh muscle strength four years after partial meniscectomy and radiographic features of osteoarthritis 11 years later**

Ericsson, Y. B., Roos, E. M., Owman, H. & Dahlberg, L. E., 3. Nov 2019, In : BMC Musculoskeletal Disorders. 20, 10 p., 512.

**Exercise-induced hypoalgesia in young adult females with long-standing patellofemoral pain – A randomized crossover study**

Straszek, C. L., Rathleff, M. S., Graven-Nielsen, T., Petersen, K. K., Roos, E. M. & Holden, S., Nov 2019, In : European Journal of Pain. 23, 10, p. 1780-1789

**Impact of exercise therapy on molecular biomarkers related to cartilage and inflammation in individuals at risk of, or with established, knee osteoarthritis: a systematic review and meta-analysis of randomized controlled trials**

Bricca, A., Struglics, A., Larsson, S., Steultjens, M., Juhl, C. B. & Roos, E. M., Nov 2019, In : Arthritis Care & Research. 71, 11, p. 1504-1515

**GLA:D BACK Group based patient education combined with exercises to support self-management of persistent / recurrent back pain - development, theories and scientific evidence**

Ris Hansen, I., Roos, E. M., Skou, S. T., Hartvigsen, J., Kjaer, P., Kongsted, A., Abbott, A., Andersen, T. E. & Rasmussen, C. D. N., 28. Oct 2019, p. 228.

**Physical therapy for patients with knee and hip osteoarthritis: supervised, active treatment is current best practice**

Skou, S. T. & Roos, E. M., 15. Oct 2019, In : Clinical and Experimental Rheumatology. 37, 5, p. 112-117

**It is time to move beyond body region silos' to manage musculoskeletal pain: Five actions to change clinical practice**

Caneiro, J. P., Roos, E. M., Barton, C. J., O'Sullivan, K., Kent, P., Lin, I., Choong, P., Crossley, K. M., Hartvigsen, J., Smith, A. J. & O'Sullivan, P., 11. Oct 2019, In : British Journal of Sports Medicine.

**Is exercise therapy for femoroacetabular impingement in or out of FASHIoN? We need to talk about current best practice for the non-surgical management of FAI syndrome**

Kemp, J. L., King, M. G., Barton, C., Schache, A. G., Thorborg, K., Roos, E. M., Scholes, M., Grimaldi, A., Semciw, A. I., Freke, M., Risberg, M. A., Reiman, M. P., Mayes, S., Pizzari, T., Heerey, J. J., Lawrenson, P. R., Ingelsrud, L. H. H. & Crossley, K. M., Oct 2019, In : British Journal of Sports Medicine. 53, 19, p. 1204-1205

**Besser leben mit Osteoarthritis – GLA:D-Initiative „Good Life with osteoArthritis in Denmark”**

Baumbach, L., Skou, S. T. & Roos, E. M., 13. Sep 2019, In : physiopraxis. 17, 09, p. 27-31

**Prevalence, Severity, and Correlates of Pain Flares in Response to a Repeated Sit to Stand Activity: A Cross-Sectional Study of 14,902 Patients With Knee and Hip Osteoarthritis in Primary Care**

Skou, S. T., Grønne, D. T. & Roos, E. M., 6. Sep 2019, In : Journal of Orthopaedic and Sports Physical Therapy. p. 1-26

**Priorities for the effective implementation of osteoarthritis management programs: an OARSI international consensus exercise**

Eyles, J. P., Hunter, D. J., Bennell, K. L., Dziedzic, K. S., Hinman, R. S., van der Esch, M., Holden, M. A., Bowden, J. L., Quicke, J., Skou, S. T., Risberg, M. A. G., Roos, E. M., Thorstensson, C., Hurley, M., Nelson, A., Jinks, C., Briggs, A., Egerton, T., Allen, K., Davis, A. & 25 others, Dowse, M., Holm, I., Yu, S., Dahlberg, L., Peat, G., Chan, P. K., Miller, K., Scanzello, C., Østerås, N., Schipof, D., Pais, S., Berenbaum, F., Frost, H., Walsh, N., Crossley, K., Vlieland, T. V., van den Ende, E., Slater, H., Nero, H., Jönsson, T., Woolf, A., Mills, K., O'Donnell, J., Ross, M. & Hao, L. J., Sep 2019, In : Osteoarthritis and Cartilage. 27, 9, p. 1270-1279

**When enough is enough - How to determine when the evidence for the effectiveness of a treatment is sufficient?**

Bricca, A., Lund, H., Roos, E. M. & Juhl, C. B., Sep 2019, In : Osteoarthritis and Cartilage. 27, 9, p. 1253-1256

**Complex Tears, Extrusion, and Larger Excision Are Prognostic Factors for Worse Outcomes 1 and 2 Years After Arthroscopic Partial Meniscectomy for Degenerative Meniscal Tears: A Secondary Explorative Study of the Surgically Treated Group From the Odense-Oslo Meniscectomy Versus Exercise (OMEX) Trial**

Kise, N. J., Aga, C., Engebretsen, L., Roos, E. M., Tariq, R. & Risberg, M. A., Aug 2019, In : The American Journal of Sports Medicine. 47, 10, p. 2402-2411

**Impact of exercise on articular cartilage in people at risk of, or with established, knee osteoarthritis: a systematic review of randomised controlled trials**

Bricca, A., Juhl, C. B., Steultjens, M., Wirth, W. & Roos, E. M., Aug 2019, In : British Journal of Sports Medicine. 53, 15, p. 940-947

**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**

Kise, N. J., Roos, E. M., Stensrud, S., Engebretsen, L. & Risberg, M. A., Aug 2019, In : Knee Surgery, Sports Traumatology, Arthroscopy. 27, 8, p. 2478-2487

**The OMERACT-OARSI Core Domain Set for Measurement in Clinical Trials of Hip and/or Knee Osteoarthritis**

Smith, T. O., Hawker, G. A., Hunter, D. J., March, L. M., Boers, M., Shea, B. J., Christensen, R., Guillemin, F., Terwee, C. B., Williamson, P. R., Dodd, S., Roos, E. M., Loeser, R. F., Schnitzer, T. J., Kloppenburg, M., Neogi, T., Ladel, C. H., Kalsi, G., Kaiser, U., Buttler, T. W. & 8 others, Ashford, A. E., Mobasheri, A., Arden, N. K., Tennant, A., Hochberg, M. C., de Wit, M., Tugwell, P. & Conaghan, P. G., Aug 2019, In : Journal of Rheumatology. 46, 8, p. 981-989 181194.

**Uptake of the OMERACT-OARSI Hip and Knee Osteoarthritis Core Outcome Set: Review of Randomized Controlled Trials from 1997 to 2017**

Smith, T. O., Mansfield, M., Hawker, G. A., Hunter, D. J., March, L. M., Boers, M., Shea, B. J., Christensen, R., Guillemin, F., Terwee, C. B., Williamson, P. R., Roos, E. M., Loeser, R. F., Schnitzer, T. J., Kloppenburg, M., Neogi, T., Ladel, C. H., Kalsi, G., Kaiser, U., Buttler, T. W. & 8 others, Ashford, A. E., Mobasheri, A., Arden, N. K., Tennant, A., Hochberg, M. C., de Wit, M., Tugwell, P. & Conaghan, P. G., Aug 2019, In : Journal of Rheumatology. 46, 8, p. 976-980 181066.

**Establishing outcome measures in early knee osteoarthritis**

Emery, C. A., Whittaker, J. L., Mahmoudian, A., Lohmander, L. S., Roos, E. M., Bennell, K. L., Toomey, C. M., Reimer, R. A., Thompson, D., Ronsky, J. L., Kuntze, G., Lloyd, D. G., Andriacchi, T., Englund, M., Kraus, V. B., Losina, E., Bierma-Zeinstra, S., Runhaar, J., Peat, G., Luyten, F. P. & 6 others, Snyder-Mackler, L., Risberg, M. A., Mobasheri, A., Guermazi, A., Hunter, D. J. & Arden, N. K., 1. Jul 2019, In : Nature Reviews Rheumatology. 15, 7, p. 438-448

**GLA:D Årsrapport 2018**

Grønne, D. T., Skou, S. T. & Roos, E. M., 18. Jun 2019, 12 p.

**Five-year prognosis and impact of adolescent knee pain: A prospective population-based cohort study of 504 adolescents in Denmark**

Rathleff, M. S., Holden, S., Straszek, C. L., Olesen, J. L., Jensen, M. B. & Roos, E. M., 28. May 2019, In : BMJ Open. 9, 5, p. e024113.

**2-year cost-effectiveness of total knee replacement: results from the first randomized trial on total knee replacement in addition to non-surgical treatment**

Skou, S. T., Roos, E. M., Laursen, M., Arendt-Nielsen, L., Rasmussen, S., Simonsen, O., Ibsen, R., Larsen, A. T. & Kjellberg, J., 2. May 2019, In : Osteoarthritis and Cartilage. 27, Suppl. 1, p. S297 1 p.

**GLA:D®BACK: group-based patient education and exercises to support self-management of persistent back pain**

Kjaer, P., Kongsted, A., Ris Hansen, I., Abbott, A., Rasmussen, C. D. N., Roos, E. M., Skou, S. T., Andersen, T. E. & Hartvigsen, J., 2. May 2019, In : Osteoarthritis and Cartilage. 27, Suppl. 1, p. S444–S445

**Impact of prior Knee Surgery on reduction in Knee pain following education and supervised Exercise therapy: Analysis of 13,120 Patients with Knee Osteoarthritis**

Pihl, K., Skou, S. T., Grønne, D. T. & Roos, E. M., 2. May 2019, In : Osteoarthritis and Cartilage. 27, Suppl. 1, p. S491-S492

**A 12-item Short Form of the Hip disability and Osteoarthritis Outcome Score (HOOS-12): Tests of Reliability, Validity and Responsiveness**

Gandek, B., Roos, E. M., Franklin, P. D. & Ware, J. E., May 2019, In : Osteoarthritis and Cartilage. 27, 5, p. 754-761

**A 12-item short form of the Knee injury and Osteoarthritis Outcome Score (KOOS-12): tests of reliability, validity and responsiveness**

Gandek, B., Roos, E. M., Franklin, P. D. & Ware, J. E., May 2019, In : Osteoarthritis and Cartilage. 27, 5, p. 762-770

**Item selection for 12-item short forms of the knee injury and Osteoarthritis Outcome Score (KOOS-12) and hip disability and Osteoarthritis Outcome Score (HOOS-12)**

Gandek, B., Roos, E. M., Franklin, P. D. & Ware, J. E., May 2019, In : Osteoarthritis and Cartilage. 27, 5, p. 746-753

**GLA:D® Back: Group-based patient education and exercises to support self-management of persistent/recurrent back pain. Development, theories and scientific evidence**

Kjaer, P., Kongsted, A., Ris Hansen, I., Abbott, A., Rasmussen, C. D. N., Roos, E. M., Skou, S. T., Andersen, T. E. & Hartvigsen, J., 25. Apr 2019.

**FREQUENCY OF PHYSICAL ACTIVITY AND WEIGHT REDUCTION ADVICE IN PRIMARY CARE FOR PATIENTS WITH SELF-REPORTED OSTEOARTHRITIS, HYPERTENSION AND/OR DIABETES**

Baumbach, L., Roos, E., Lykkegaard, J., Thomsen, K., Kristensen, P., Christensen, A. & Thorlund, J., Apr 2019, In : Osteoarthritis and Cartilage. 27, 1 Supplement, p. S300 1 p., 430.

**PATIENTS REPORT INFERIOR QUALITY OF CARE FOR KNEE OSTEOARTHRITIS PRIOR TO ASSESSMENT FOR KNEE REPLACEMENT SURGERY - A CROSS-SECTIONAL COHORT STUDY**

Ingelsrud, L. H., Roos, E. M., Gromov, K. & Troelsen, A., Apr 2019, In : Osteoarthritis and Cartilage. 27, 1 Supplement, p. S298 1 p., 426.

**Response to Letter to Editor: '2-year outcome from two parallel randomized controlled trials. Reporting considerations'**

Skou, S. T., Roos, E. M., Laursen, M. B., Rathleff, M. S., Arendt-Nielsen, L., Rasmussen, S. & Simonsen, O., 1. Mar 2019, In : Osteoarthritis and Cartilage. 27, 3, p. e1-e2

**Disease modification in OA - will we ever get there?**

Lohmander, L. S. & Roos, E. M., Mar 2019, In : Nature Reviews. Rheumatology. 15, 3, p. 133-135

**Room for improvement: a randomised controlled trial with nested qualitative interviews on space, place and treatment delivery**

Sandal, L. F., Thorlund, J. B., Moore, A. J., S. Ulrich, R., A. Dieppe, P. & Roos, E. M., Mar 2019, In : British Journal of Sports Medicine. 53, 6, p. 359-367

**A pragmatic approach to prevent post-traumatic osteoarthritis after sport or exercise-related joint injury**  
Whittaker, J. L. & Roos, E. M., Feb 2019, In : Best Practice and Research: Clinical Rheumatology. 33, 1, p. 158-171

**Zukunftsweisendes Arthrose-Management**

Baumbach, L., Skou, S. T. & Roos, E. M., 19. Jan 2019, In : Der Schmerzpatient. 2, 01, p. 23-28

**A Pragmatic Approach to the Implementation of Osteoarthritis Guidelines Has Fewer Potential Barriers Than Recommended Implementation Frameworks**

Holm, I., Risberg, M. A., Roos, E. M. & Skou, S. T., 1. Jan 2019, In : Journal of Orthopaedic and Sports Physical Therapy. 49, 1, p. 1-4

**GLA:D to have a high-value option for patients with knee and hip arthritis across four continents: Good Life with osteoArthritis from Denmark**

Roos, E. M., Barton, C. J., Davis, A. M., McGlasson, R., Kemp, J. L., Crossley, K. M., Liu, Q., Lin, J. & Skou, S. T., Dec 2018, In : British Journal of Sports Medicine. 52, 24, p. 1544-1545

**Young females with long-standing patellofemoral pain display impaired conditioned pain modulation, increased temporal summation of pain, and widespread hyperalgesia**

Holden, S., Straszek, C. L., Rathleff, M. S., Petersen, K. K., Roos, E. M. & Graven-Nielsen, T., Dec 2018, In : Pain. 159, 12, p. 2530-2537

**GLA:D® Back group-based patient education integrated with exercises to support self-management of back pain - development, theories and scientific evidence**

Kjaer, P., Kongsted, A., Ris, I., Abbott, A., Rasmussen, C. D. N., Roos, E. M., Skou, S. T., Andersen, T. E. & Hartvigsen, J., 29. Nov 2018, In : BMC Musculoskeletal Disorders. 19, 21 p., 418.

**The impact of physical activity level on the short- and long-term pain relief from supervised exercise therapy and education: A study of 12,796 Danish patients with knee osteoarthritis**

Skou, S. T., Bricca, A. & Roos, E. M., Nov 2018, In : Osteoarthritis and Cartilage. 26, 11, p. 1474-1478

**Hip complaints differ across age and sex: A population-based reference data for the Hip disability and Osteoarthritis Outcome Score (HOOS)**

Sundén, A., Lidengren, K., Roos, E. M., Lohmander, L. S. & Ekvall Hansson, E., 11. Oct 2018, In : Health and Quality of Life Outcomes. 16, 1, 6 p., 200.

**Factors associated with the orthopaedic surgeon's decision to recommend total joint replacement in hip and knee osteoarthritis: an international cross-sectional study of 1905 patients**

Huynh, C., Puyraimond-Zemmour, D., Maillefert, J. F., Conaghan, P. G., Davis, A. M., Gunther, K. P., Hawker, G., Hochberg, M. C., Kloppenburg, M., Lim, K., Lohmander, L. S., Mahomed, N. N., March, L., Pavelka, K., Punzi, L., Roos, E. M., Sanchez-Riera, L., Singh, J. A., Suarez-Almazor, M. E., Dougados, M. & 1 others, Gossec, L., Oct 2018, In : Osteoarthritis and Cartilage. 26, 10, p. 1311-1318

**O 085 - Gait and knee function in individuals with mild to severe knee osteoarthritis: A cross-sectional study**

Naili, J. E., Broström, E. W., Roos, E. M., Clausen, B. & Holsgaard-Larsen, A., 1. Sep 2018, In : Gait and Posture. 65, Suppl. 1, p. 174-175

**The patellofemoral pain and osteoarthritis subscale of the KOOS (KOOS-PF): development and validation using the COSMIN checklist**

Crossley, K. M., Macri, E. M., Cowan, S. M., Collins, N. J. & Roos, E. M., Sep 2018, In : British Journal of Sports Medicine. 52, 17, p. 1130-1136

**Total knee replacement and non-surgical treatment of knee osteoarthritis: 2-year outcome from two parallel randomized controlled trials**

Skou, S. T., Roos, E. M., Laursen, M. B., Rathleff, M. S., Arendt-Nielsen, L., Rasmussen, S. & Simonsen, O., Sep 2018, In : Osteoarthritis and Cartilage. 26, 9, p. 1170-1180

**Association of osteoarthritis risk factors with knee and hip pain in a population-based sample of 29–59 year olds in Denmark: a cross-sectional analysis**

van Tunen, J., Peat, G., Bricca, A., Bruun Larsen, L., Søndergaard, J., Thilising, T., Roos, E. M. & Thorlund, J. B., 21. Aug 2018, In : B M C Musculoskeletal Disorders. 19, 11 p., 300.

**GLA:D® er udbredt i hele Danmark og viser gode resultater hos patienter med knæ- og hofteartrose**

Grønne, D. T., Skou, S. T. & Roos, E. M., 13. Aug 2018, In : Dansk Sportsmedicin. 22, 3, p. 44-47

**Targeted prevention in primary care aimed at lifestyle-related diseases: a study protocol for a non-randomised pilot study**

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