

Press release

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Basic information

Name: Julie Sandell Jacobsen Email: js_jacobsen@clin.au.dk Phone: 87552340

Department of: Clinical Medicine

Main supervisor: Inger Mechlenburg

Title of dissertation: Muscle-tendon pain and outcome of hip-preserving surgery in patients with hip dysplasia

Date for defence: 23/4 2020 at (time of day): 9 AM Place: Due to COVID-19, the defence will be held as a web defence via Zoom.

Press release (Danish)

Muskelsenesmerte og resultat af ledbevarende operation hos patienter med hoftedysplasi

Hoftedysplasi anses som en ledsygdom, hvor smerte opstår sekundært til intraartikulære skader. Tidligere studier har dog indikeret, at denne forståelse kan være mangelfuld. Det er blevet antydnet, at ekstraartikulære strukturer såsom muskler og sener kan spille en rolle i relation til smerteudvikling. Ingen tidligere studier har dog undersøgt muskelsenesmerter og strukturelle forandringer hos patienter med hoftedysplasi hverken før eller efter ledbevarende operation. Ligeledes er der mangel på studier, som rapporterer resultater af ledbevarende operation med funktions- og præstationsbaserede resultatomål, der er udviklet til den typisk unge og aktive patient.

Muskelsenesmerter, strukturelle forandringer og resultat af ledbevarende operation blev undersøgt ved kliniske undersøgelser, ultralydsskanning, patientrapporterede resultatomål og måling af fysisk aktivitet i et fremadskuende studie på 100 patienter med opfølgning efter 1 år.

Muskelsenesmerter og strukturelle forandringer var hyppige fund hos patienter med hoftedysplasi. Efter ledbevarende operation blev muskelsenesmerterne mindre udtalte samtidig med, at der sås forbedringer i patientrapporterede resultatomål. Modsat ændrede mængden af daglig fysisk aktivitet sig ikke efter operation. Disse resultater giver anledning til at forstå hoftedysplasi både som en ledsygdom og som en lidelse, der kan medføre muskelsenesmerter og strukturelle forandringer i muskelsenevævet. Resultater præsenteres med baggrund i et nyt ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Julie Sandell Jacobsen, der forsvare det d. 23/04.

Forsvaret af ph.d.-projektet er offentligt og finder sted den 23/04 kl. 9.00. Grundet COVID-19 vil forsvaret blive gennemført som et web forsvar via Zoom.

For at deltage i forsvaret venligst kontakt Julie Jacobsen på jsaj@via.dk senest den 22/04.

Titlen på projektet er "Muskelsenesmerte og resultat af ledbevarende operation hos patienter med hoftedysplasi". Yderligere oplysninger: Ph.d.-studerende Julie Sandell Jacobsen, e-mail: js_jacobsen@clin.au.dk, tlf. 87552340.

Bedømmelsesudvalg:

Associate Professor David Høyrup Christiansen, PhD (Chairman)

Department of Clinical Medicine – Occupational Medicine, Herning, Aarhus University, Denmark

Research fellow Joanne L. Kemp, PhD

La Trobe Sport and Exercise Medicine Research Centre, La Trobe University, Melbourne, Australia

Professor Damian Griffin, MPhil

Division of Health Sciences, University of Warwick, Warwick, United Kingdom

Press release (English)

Muscle-tendon pain and outcome of hip-preserving surgery in patients with hip dysplasia

Hip dysplasia is considered a joint disease where pain presents secondary to intraarticular lesions. Yet, previous studies indicate that this understanding may be insufficient, and it has been suggested that extra-articular structures such as muscles and tendons may play a role in relation to the development of pain in hip dysplasia. However, muscle-tendon pain and structural abnormalities have not been investigated in patients with hip dysplasia, neither before or after hip-preserving surgery. Furthermore, there is a lack of studies reporting outcome of hip-preserving surgery with patient-reported and performance-based measures designed for the typical young and active patient.

Muscle-tendon pain, structural abnormalities and outcome of hip-preserving surgery were investigated with clinical examinations, ultrasonography, patient-reported outcome and measurement of physical activity in a prospective study in 100 patients with hip dysplasia.

Muscle-tendon pain and structural abnormalities were common in hip dysplasia; and 1 year after surgery, muscle-tendon pain decreased parallel with improvements in patient-reported outcome. However, the level of daily physical activity did not change after surgery. Based on these results, hip dysplasia appears to be a joint disease that is associated with muscle-tendon pain and structural abnormalities in muscle-tendon tissue. The results will be presented in a new PhD project from Aarhus University, Health. The project was carried out by Julie Sandell Jacobsen, who is defending her dissertation on 23/04.

The defence is public and takes place on 23/04 at 9.00 AM. Due to COVID-19, the defence will be held as a web defence via Zoom. To gain access to the defence please contact Julie Jacobsen on jsaj@via.dk at the latest on 22/04.

The title of the project is "Muscle-tendon pain and outcome of hip-preserving surgery in patients with hip dysplasia. For more information, please contact PhD student Julie Sandell Jacobsen, email: js_jacobsen@clin.au.dk, Phone +45 87552340.

Assessment committee:

Associate Professor David Høyrup Christiansen, PhD (Chairman)

Department of Clinical Medicine – Occupational Medicine, Herning, Aarhus University, Denmark

Research fellow Joanne L. Kemp, PhD

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Professor Damian Griffin, MPhil

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