

Press release

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Basic information

Name: Marie Bagger Bohn Email: marie.bagger.bohn@clin.au.dk Phone: 40 95 40 32

Department of: Clinical Medicine

Main supervisor: Kjeld Søballe

Title of dissertation: Reconstruction of the anterior cruciate ligament with anatomic double-bundle technique

Date for defence: 13.06.2017 at (time of day): kl. 14.00 Place: Auditorium 1, bygning 4a (v. kantinen), Aarhus Universitets hospital, Tage-Hansens Gade 2, 8000 Aarhus C

Press release (Danish)

REKONSTRUKTION AF DET FORRESTE KORSBÅND I KNÆET MED NYE ANATOMISKE OPERATIONS METODER

En sammenligning af traditionelle og nye operations metoder til rekonstruktion af forreste korsbånd. Et ph.d.-projekt fra Aarhus Universitet, Health. Projektet er gennemført af Marie Bagger Bohn, der forsvarer det d. 13. juni 2017.

Overrivning af det forreste korsbånd i knæet er en typisk sports skade, der primært rammer yngre og aktive mennesker mellem 15 og 30 år. Skaden fører til et ustabil knæ. Oftest behandles forrest korsbåndsskader med en operativ rekonstruktion. Traditionelle operations-teknikker har dog vist skuffende resultater på lang sigt. Det seneste årti har nye anatomiske operations metoder dog vundet indpas, med det fokus at genskabe knæets rotations stabilitet og herved forhåbentligt forebygge udviklingen af slidgigt og skader på menisker.

Projektet sammenligner en traditionel og to anatomiske rekonstruktions metoder i et klinisk studie. Knæets rotations stabilitet blev vurderet før og et år efter operation med kliniske tests og ganganalyse. Afhandlingen indeholder ligeledes et eksperimentelt studie, hvor to forskellige metoder til at fastgøre det nye korsbånd i lårbensknoglen sammenlignes.

Forsvaret af ph.d.-projekter er offentligt og finder sted den 13. juni 2017 kl. 14.00 i Auditorium 1, bygning 4a, Aarhus Universitets hospital, Tage-Hansens gade 2, 8000 Aarhus C. Titlen på projektet er "Reconstruction of the anterior cruciate ligament with anatomic double-bundle technique". Yderligere oplysninger: Ph.d.-studerende Marie Bagger Bohn, e-mail: marie.bagger.bohn@clin.au.dk, tlf. 4095 4032.

Bedømmelsesudvalg:

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Press release (English)

RECONSTRUCTION OF THE ANTERIOR CRUCIATE LIGAMENT OF THE KNEE WITH NEW SURGICAL TECHNIQUES

Comparison of traditional and new anatomical techniques to reconstruct the anterior cruciate ligament (ACL). The project was carried out by Marie Bagger Bohn, who is defending her dissertation on the 13 th of June, 2017

Rupture of the ACL is a typical sports injury. Young and physically active people are especially prone to sustain an ACL injury, which leads to complaints of knee instability. An ACL rupture is often treated with surgical reconstruction in order to reestablish knee stability. However, long-term clinical problems such as meniscal damage and osteoarthritis (OA) development are often observed in these young patients, who have been reconstructed with traditional surgical techniques.

In the past decade, an anatomic approach to ACL reconstruction has gained acceptance. The anatomic approach emphasizes restoration of the rotational stability of the knee. This is interesting as excessive rotation has been proposed as an initiating factor of OA.

In the project, a traditional and two anatomic ACL reconstruction techniques are compared in a clinical study. Rotational stability of the knee was assessed by clinical tests and 3-D motion analysis before and one-year after surgery. The dissertation also comprises an experimental study where two femoral fixation methods are compared.

The defense is public and takes place on the 13th of June, 2017 at 2 pm in Auditorium 1, bygning 4a, Aarhus University hospital, Tage-Hansens gade 2, 8000 Aarhus C. The title of the project is "Reconstruction of the anterior cruciate ligament with anatomic double-bundle technique". For more information, please contact PhD student Marie Bagger Bohn, email: marie.bagger.bohn@clin.au.dk, Phone +45 4095 4032.

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