Force measurements during hip arthroscopy

Gepubliceerd: 10-11-2017 Laatst bijgewerkt: 13-12-2022

NA

Ethische beoordeling	Niet van toepassing
Status	Werving gestopt
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON20526

Bron
NTR

Aandoening

Hip Arthroscopy

Ondersteuning

Primaire sponsor: Department of orthopaedics, Reinier de Graaf Gasthuis
Overige ondersteuning: Department of orthopaedics, Reinier de Graaf Groep

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The main study outcome is the relation between the pulling force, needed to dislocate the hip and the displacement of the femoral and acetabular component of the hip.

Toelichting onderzoek

Achtergrond van het onderzoek

Introduction:

Hip arthroscopy is a relatively new surgical technique with expanding intervention options and growing possibilities. The main indications for arthroscopic intervention are femoroacetabular impingement (FAI). During hip arthroscopy the patient is placed in a hip distractor system. With this system traction is applied to dislocate the hip. The pulling force which is necessary to dislocate the caput femur is unknown, and it is unknown if there is a relation between the pulling and the absolute displacement.

Objective:

The primary objective of this prospective cohort study is to describe a relation between the pulling force and the absolute displacement of the caput femur.

Study design:

A prospective cohort study during hip arthroscopies in Reinier de Graaf Gasthuis Hospital in Delft will be conducted. All consecutive patients who will have hip arthroscopy in our hospital will be asked to participate.

Population description:

Patients, male and female, with specific hip pain, derived from the outpatient clinic in Reinier de Graaf Gasthuis Delft, department of Orthopedic surgery will be asked to participate.

Patient treatment:

All patients will be operated by one orthopaedic surgeon (RB), with large experience in hip arthroscopy. The operation is performed by standardized operation protocol.

Study endpoints:

Main endpoint is the relation between the pulling force, needed to dislocate the hip and the displacement of the femoral and acetabular component of the hip. It is unknown how much force is needed to dislocate the hip over a certain distance. Therefore this study will be performed. A dynamometer will be placed in the hip distractor system, to measure the force. Next to the patient a calibrated piece of metal (calibrated to measure dimensions on an x-ray) will be placed next to the hip, at the same height of the caput femur, to measure the joint space afterwards on an x-ray.

Statistical analysis:

Data will be presented quantitative by continuous variables (force). The correlation between force and displacement will be tested with Pearson's correlation (if data is normally distributed) or with Spearman's rho.

Doel van het onderzoek

NA

Onderzoeksopzet

peroperative
5-6-2018: date of last surgery.

Onderzoeksproduct en/of interventie

Force measurements during hip arthroscopy

Contactpersonen

Publiek

Reinier de Graafweg 3-11
N.M.C. Mathijssen
Delft 2525 AD
The Netherlands
+31 (0)15 2603718

Wetenschappelijk

Reinier de Graafweg 3-11
N.M.C. Mathijssen

Delft 2525 AD
The Netherlands
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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Patients who:

- are 15-65 years of age.

- Have a physical examination, which is suspect for femoroacetabular impingement, or an acetabulum labrum tear or lesion, or are suspect to loose bodies in the hip joint, chondral lesions or osteophytes impingement.

- Patients smaller then 1,74 m.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Patients who:

- are <15 or >65 years of age.

- Have had prior surgery for femoroacetabular impingement.

- Have pathological fractures or other metastatic pathology as a cause of the hip/groin pain.

- Patients taller then 1,74 m.

Onderzoeksopzet

Opzet

Type:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Anders

Toewijzing:	N.v.t. / één studie arm
Blindering:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland

Status:	Werving gestopt
(Verwachte) startdatum:	28-04-2016
Aantal proefpersonen:	32
Type:	Werkelijke startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Nog niet bepaald

Ethische beoordeling

Niet van toepassing

Soort:	Niet van toepassing

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL6593
NTR-old	NTR6810
Ander register	NA : 2016-015

Resultaten