The effect of Hoffa's fat pad resection in total knee arthroplasty.

Gepubliceerd: 30-01-2013 Laatst bijgewerkt: 13-12-2022

It is hypothesized that Hoffa’s fat pad resection in total knee arthroplasty leads to a greater range of motion, a faster recovery of normal walking gait and preferred walking speed, less anterior knee pain, a higher KOOS score and better patient...

Ethische beoordeling	Positief advies
Status	Werving nog niet gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON20994

Bron
Nationaal Trial Register

Verkorte titel
HOPE-study

Aandoening

Hoffa’s fat pad has been associated with anterior knee pain after total knee arthroplasty. Furthermore, fibrosis of Hoffa’s fat pad due to the incision technique is associated with a decreased range of motion. It’s resection is reported to result in less pain after surgery.

Ondersteuning

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Overige ondersteuning: CORAL, Department of Orthopaedic Surgery,
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Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

1. Active and passive knee range of motion;
2. Gait parameters;
3. Walking stability and variability.

Toelichting onderzoek

Achtergrond van het onderzoek

Little is known about the function of Hoffa’s fat pad in both the normal knee as well as in case of a knee prosthesis. Literature indicates that the fat pad may play a, possibly detrimental, role in modulating inflammatory and destructive responses in knee osteoarthritis. However, in total knee arthroplasty all cartilage is removed and this role of Hoffa’s fat pad can therefore be considered irrelevant. Furthermore, Hoffa’s fat pad is considered to be a source of anterior knee pain and may limit the function of the prosthetic knee, possibly in association with the prevalence of fibrosis. Henceforth our hypotheses are that resection of Hoffa’s fat pad in total knee arthroplasty leads to 1) a greater range of motion and recovery of range of motion closer to the preoperative range of motion during follow-up, 2) less anterior knee pain during follow-up, 3) a faster recovery and enhanced values of gait parameters, such as preferred walking speed and variation in knee angle during walking.

Doel van het onderzoek

It is hypothesized that Hoffa’s fat pad resection in total knee arthroplasty leads to a greater range of motion, a faster recovery of normal walking gait and preferred walking speed, less anterior knee pain, a higher KOOS score and better patient satisfaction post operatively and at follow-up.

Onderzoeksopzet

Pre-op, day of discharge, 6 weeks post-op, 3 months post-op and 12 months post-op.

Onderzoeksproduct en/of interventie

One group will undergo Hoffa’s fat pad resection and one group will not during implantation of a total knee prosthesis.

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1. Patients who are planned to undergo a primary total knee arthroplasty in the Joint-Care program of the Medical Centre Alkmaar;

2. Age between 30 and 80 years;

3. Patients with ASA Physical Status I & II.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

1. Patients with another prosthesis in either one of the lower extremities;

2. Patients diagnosed with rheumatoid arthritis;

3. Patients who suffer from insulin dependant diabetes;

4. Patients who lack understanding of the Dutch language;

5. Patients who are treated for or diagnosed with neurological or muscle disorders which make assessment of pain and gait not possible.

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Parallel
Toewijzing:	Gerandomiseerd
Blindering:	Dubbelblind
Controle:	Actieve controle groep

Deelname

Nederland

Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-03-2013
Aantal proefpersonen:	90
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies

Datum:	30-01-2013
Soort:	Eerste indiening

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	NL3638
NTR-old	NTR3826
Ander register	MCA / CCMO : M012-009 / NL39455.094.12
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Resultaten

Samenvatting resultaten
N/A