

# The effect of Hoffa\*s fat pad resection in total knee arthroplasty on functionality and pain: a double blind, randomized clinical trial

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<b>Ethical review</b>	Approved WMO
<b>Status</b>	Recruitment stopped
<b>Health condition type</b>	Joint disorders
<b>Study type</b>	Interventional

## Summary

### ID

NL-OMON44041

### Source

ToetsingOnline

### Brief title

HOPE-study

### Condition

- Joint disorders
- Bone and joint therapeutic procedures

### Synonym

Anterior knee pain, Hoffa's disease

### Research involving

Human

## Sponsors and support

**Primary sponsor:** Medisch Centrum Alkmaar

**Source(s) of monetary or material Support:** Stichting ALK-RESORT

## Intervention

**Keyword:** Anterior knee pain, Hoffa's fat pad resection, Knee function, Total knee arthroplasty

## Outcome measures

### Primary outcome

Range of motion at 6 weeks and 3 and 12 months. Gait parameters and preferred walking speed at 3 and 12 months

### Secondary outcome

VAS anterior knee pain score 1 week diary at 6 weeks and 3 and 12 months

KOOS and Kujala score at 6 weeks and 3 and 12 months

Complications and adverse events

## Study description

### Background summary

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. Its resection is reported to result in less pain after surgery.

### Study objective

The main objective of this study is to test if resection of Hoffa's fat pad in total knee arthroplasty leads to a greater range of motion and if resection leads to a faster recovery of normal walking gait and preferred walking speed post operatively and at follow-up. Secondary Objectives are to see if, as a result of resection of Hoffa's fat pad patients have less anterior knee pain, a higher KOOS and Kujala score and better patient satisfaction. Furthermore, we shall assess if resection leads to a higher risk of adverse events due to this

procedure.

## **Study design**

Clinical randomised controlled double blind trial.

## **Intervention**

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

## **Study burden and risks**

The risk associated with participation in this study is considered minimal. Hoffa\*s fat pad is often resected to gain better exposure and no adverse events have been reported after this procedure. The treatment and peri-operative protocol will be the standard Joint-Care like protocol of the Medical Centre Alkmaar and will be the same for all patients. The extra burden of participating in this study will be one extra follow-up visit at 3 months post operatively and the filling out of the KOOS and Kujala questionnaire at follow-up visits. Furthermore, all patients shall undergo a 50 meter walking registration which is not in the normal clinical protocol.

## **Contacts**

### **Public**

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## **Trial sites**

## Listed location countries

Netherlands

## Eligibility criteria

### Age

Adults (18-64 years)

Elderly (65 years and older)

### Inclusion criteria

- Patients who are planned to undergo a primary total knee arthroplasty in the Joint-Care program of the Medical Centre Alkmaar.
- Age between 30 and 80 years
- Patients with ASA Physical Status I & II

### Exclusion criteria

- Patients with another prosthesis in either one of the lower extremities
- Patients diagnosed with rheumatoid arthritis
- Patients who suffer from insulin dependant diabetes
- Patients who lack understanding of the Dutch language
- Patients who are treated for or diagnosed with neurological or muscle disorders which make assessment of pain and gait not possible

## Study design

### Design

Study type:	Interventional
Intervention model:	Parallel
Allocation:	Randomized controlled trial
Masking:	Double blinded (masking used)

**Primary purpose:** Prevention

## Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	29-04-2013
Enrollment:	90
Type:	Actual

## Ethics review

Approved WMO	
Date:	30-10-2012
Application type:	First submission
Review commission:	METC Amsterdam UMC
Approved WMO	
Date:	24-05-2013
Application type:	Amendment
Review commission:	METC Amsterdam UMC
Approved WMO	
Date:	31-10-2016
Application type:	Amendment
Review commission:	METC Amsterdam UMC

## Study registrations

### Followed up by the following (possibly more current) registration

No registrations found.

### Other (possibly less up-to-date) registrations in this register

No registrations found.

## In other registers

### Register

CCMO

### ID

NL39455.094.12