

# Patellar denervation in total knee arthroplasty.

No registrations found.

<b>Ethical review</b>	Positive opinion
<b>Status</b>	Recruitment stopped
<b>Health condition type</b>	-
<b>Study type</b>	Interventional

## Summary

### ID

NL-OMON24792

### Source

NTR

### Brief title

MOPPER

### Health condition

knee prosthesis  
patella  
arthroplasty  
anterior knee pain

## Sponsors and support

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## Intervention

## Outcome measures

### Primary outcome

Prevalence of anterior knee pain using the Clinical Anterior Knee Pain Rating.

### Secondary outcome

Pain on a Visual Analogue Scale (VAS).

WOMAC 3.1 Osteoarthritis Index.

Knee Society Score.

## Study description

### Background summary

Anterior knee pain occurs in up to 31% of patients after total knee arthroplasty without patellar resurfacing, and in approximately up to 16% of patients with patellar resurfacing. The cause of patellofemoral pain after total knee arthroplasty is unknown but may at least be partly related to postoperative malalignment and anatomic variations resulting in high patellofemoral contact forces. Immunohistochemical studies on innervation of the anterior knee have found hyperinnervation in the peripatellar soft tissues. In theory, circumpatellar denervation using electrocautery could result in a lower prevalence of anterior knee pain. To date, no relevant clinical studies addressed the results of circumpatellar electrocautery denervation in total knee arthroplasty without patellar resurfacing. Primary objective was therefore to determine the effect of circumpatellar electrocautery denervation in total knee arthroplasty without patellar resurfacing, particularly with regard to anterior knee pain.

### Study objective

The null hypothesis is that there is no difference in terms of pain and clinical outcome between total knee arthroplasty with and that without circumpatellar electrocautery denervation.

### Study design

Preoperative, 12 months, 2 years and 4 years after total knee arthroplasty.

### Intervention

Circumpatellar electrocautery denervation in total knee arthroplasty without patellar resurfacing.

## Contacts

### **Public**

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## Eligibility criteria

### **Inclusion criteria**

All patients who will be treated with a total knee arthroplasty without patellar resurfacing in the Deventer hospital.

### **Exclusion criteria**

1. Isolated patellofemoral osteoarthritis.
2. Contralateral patellar resurfacing (primary or as revision).
3. Insufficient Dutch language skills.
4. Total hip replacement or contralateral total knee replacement within the study period or less than one year before entering the study
5. Inflammatory arthritis.
6. History of patellar fracture.

7. Prior patellectomy.
8. Patellofemoral instability.
9. Prior unicondylar knee replacement.
10. Previous high tibial or distal femoral osteotomy.
11. Any prior operation involving the extensor mechanism.
12. A severe medical disability that limits the ability to walk.
13. Disabling disease involving other joints of the lower extremities.

## Study design

### Design

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

### Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	01-04-2008
Enrollment:	200
Type:	Actual

## Ethics review

Positive opinion	
Date:	25-05-2008
Application type:	First submission

## Study registrations

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

ID: 32154

Bron: ToetsingOnline

Titel:

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

No registrations found.

### In other registers

Register	ID
NTR-new	NL1280
NTR-old	NTR1326
CCMO	NL21569.075.08
ISRCTN	ISRCTN wordt niet meer aangevraagd
OMON	NL-OMON32154

## Study results

### Summary results

N/A