

# Effectiveness of prolonged use of continuous passive motion (CPM) as an adjunct to physiotherapy following total knee arthroplasty (TKA)

<b>Submission date</b> 26/08/2005	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
<b>Registration date</b> 07/09/2005	<b>Overall study status</b> Completed	<input checked="" type="checkbox"/> Protocol
<b>Last Edited</b> 14/09/2017	<b>Condition category</b> Musculoskeletal Diseases	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
		<input type="checkbox"/> Individual participant data

**Plain English summary of protocol**  
Not provided at time of registration

## Contact information

**Type(s)**  
Scientific

**Contact name**  
Mr Ton Lenssen

**Contact details**  
University Hospital Maastricht  
P Debijelaan 25  
Maastricht  
Netherlands  
6229 HX  
+31 (0)433875145  
alen@pmzl.azm.nl

## Additional identifiers

**EudraCT/CTIS number**

**IRAS number**

**ClinicalTrials.gov number**

## Secondary identifying numbers

N/A

# Study information

## Scientific Title

Effectiveness of prolonged use of continuous passive motion (CPM) as an adjunct to physiotherapy following total knee arthroplasty (TKA)

## Study objectives

What is the effect on range of motion and functional status of prolonged use of a continuous passive motion device at home in addition to physical therapy, compared to physical therapy alone, in patients with limited flexion range of motion (less than 80°) of the knee at discharge from the hospital following total knee arthroplasty?

## Ethics approval required

Old ethics approval format

## Ethics approval(s)

Not provided at time of registration

## Study design

Randomised controlled trial

## Primary study design

Interventional

## Secondary study design

Randomised controlled trial

## Study setting(s)

Home

## Study type(s)

Treatment

## Participant information sheet

## Health condition(s) or problem(s) studied

Total knee arthroplasty

## Interventions

Physical therapy versus physical therapy + continuous passive motion

## Intervention Type

Other

## Phase

Not Specified

**Primary outcome measure**

Functional status and range of motion

**Secondary outcome measures**

Perceived effect, postoperative medication use, satisfaction with treatment, satisfaction with treatment result, adherence to treatment protocols and use of CPM (in hours)

**Overall study start date**

01/04/2005

**Completion date**

01/10/2006

**Eligibility****Key inclusion criteria**

Patients with knee osteoarthritis (OA) undergoing TKA and experiencing early postoperative flexion impairment (less than 80° of knee flexion at the time of discharge).

**Participant type(s)**

Patient

**Age group**

Adult

**Sex**

Both

**Target number of participants**

70

**Key exclusion criteria**

Patients will be excluded if they need to stay in hospital for more than 5 days after surgery or show relevant co-morbidity influencing mobility (e.g. claudication, other prosthesis) or are operated upon using minimally invasive surgery.

**Date of first enrolment**

01/04/2005

**Date of final enrolment**

01/10/2006

**Locations****Countries of recruitment**

Netherlands

**Study participating centre**

**University Hospital Maastricht**  
Maastricht  
Netherlands  
6229 HX

## **Sponsor information**

### **Organisation**

University Hospital Maastricht (The Netherlands)

### **Sponsor details**

P Debijelaan 25  
Maastricht  
Netherlands  
6229 HX  
+31 (0)433876543  
groo@pmzl.azm.nl

### **Sponsor type**

University/education

### **Website**

<http://www.azm.nl>

### **ROR**

<https://ror.org/02d9ce178>

## **Funder(s)**

### **Funder type**

University/education

### **Funder Name**

University Hospital Maastricht (Netherlands)

## **Results and Publications**

### **Publication and dissemination plan**

Not provided at time of registration

### **Intention to publish date**

## Individual participant data (IPD) sharing plan

### IPD sharing plan summary

Not provided at time of registration

### Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
<a href="#">Results article</a>		01/06/2003		Yes	No
<a href="#">Protocol article</a>	protocol	23/02/2006		Yes	No
<a href="#">Results article</a>	results	29/04/2008		Yes	No