

# Computer assisted surgery versus conventional arthroscopic anterior cruciate ligament reconstruction: a prospective randomised clinical trial

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<b>Registration date</b> 08/02/2007	<b>Overall study status</b> Completed	<input type="checkbox"/> Protocol
<b>Last Edited</b> 26/03/2021	<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

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### Contact details

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## Additional identifiers

### Protocol serial number

NL856 (NTR870)

## Study information

Scientific Title

Computer assisted surgery versus conventional arthroscopic anterior cruciate ligament reconstruction: a prospective randomised clinical trial

### **Study objectives**

An Anterior Cruciate Ligament (ACL) reconstruction can take place more accurately with Computer Assisted Surgery (CAS) than a conventional arthroscopic reconstruction with regard to tunnel position.

### **Ethics approval required**

Old ethics approval format

### **Ethics approval(s)**

Approval received from the local medical ethics committee on the 12th September 2006 (ref: MEC-2006-223).

### **Study design**

Randomised, active-controlled, parallel group, single blinded trial

### **Primary study design**

Interventional

### **Study type(s)**

Treatment

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

Rupture, anterior cruciate ligament

### **Interventions**

Arthroscopic ACL reconstruction, randomised in 45 conventional (usual care), and 45 CAS patients.

### **Intervention Type**

Other

### **Phase**

Not Specified

### **Primary outcome(s)**

Planned tunnel position versus actual achieved tunnel position of the ACL transplant (by Computed Tomography [CT]).

### **Key secondary outcome(s)**

1. Difference in change in International Knee Documentation Committee (IKDC) subjective knee score
2. Difference in change in Knee injury and Osteoarthritis Outcome Score (KOOS)
3. Difference in change in knee pain (Visual Analogue Scale [VAS] for pain)
4. Difference in change in knee complaints (Lysholm score)
5. Difference in change in sport activity (Tegner score)
6. Difference in change in objective instability of the knee (KT1000 arthrometer)
7. Difference in change in objective muscle strength (Biodex)
8. Difference in satisfaction of the treatment

**Completion date**

01/12/2010

## Eligibility

**Key inclusion criteria**

1. All patients with an ACL rupture who are indicated for a reconstruction
2. Aged more than 18 years

**Participant type(s)**

Patient

**Healthy volunteers allowed**

No

**Age group**

Adult

**Lower age limit**

18 years

**Sex**

Not Specified

**Total final enrolment**

100

**Key exclusion criteria**

1. Patients who are unable to understand Dutch written language
2. Patients who are unable to follow the regular postoperative controls

**Date of first enrolment**

01/12/2006

**Date of final enrolment**

01/12/2010

## Locations

**Countries of recruitment**

Netherlands

**Study participating centre**

P.O. Box 2040

Rotterdam

Netherlands

3000 CA

# Sponsor information

## Organisation

Erasmus Medical Centre (The Netherlands)

## ROR

<https://ror.org/018906e22>

# Funder(s)

## Funder type

Hospital/treatment centre

## Funder Name

Erasmus Medical Centre (The Netherlands)

# Results and Publications

## 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>		05/09/2012	26/03/2021	Yes	No