

Flexion with the Journey total knee prosthesis (RCT)

Gepubliceerd: 14-11-2008 Laatste bijgewerkt: 18-08-2022

The null hypothesis is that the Journey TKP and the Genesis II TKP gives an equal maximal flexion at one year. This hypothesis will be tested two-sided.

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

Samenvatting

ID

NL-OMON24383

Bron

Nationaal Trial Register

Verkorte titel

Journey

Aandoening

Patients with noninflammatory osteoarthritis requiring a unilateral total knee replacement.

Ondersteuning

Primaire sponsor: Smith and Nephew

Overige ondersteuning: Smith and Nephew

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

- Active Flexion of the knee

Toelichting onderzoek

Achtergrond van het onderzoek

Period

2002-2013

Participants

- G. van Hellemond SMK Orthopedic Surgeon
- Dr. J. Victor, St Lucas Brugge, Orthopedic Surgeon
- Dr. J Bellemans, AZ Pellenberg, Orthopedic Surgeon
- Dr. A.B. Wymenga SMK Orthopedic Surgeon
- K. Defoort SMK Orthopedic Surgeon
- W.C.H. Jacobs SMK Health Scientist

Sponsor

Smith and Nephew

Purpose

This is a randomised controlled trial to evaluate the difference between the High Performance and the Genesis II implants. The only design feature is a more natural tibial plateau alignment, which is believed to yield more maximal flexion.

Methodology

Patients are randomised into two groups receiving either the High Performance or the Genesis II prosthesis. Preoperatively and postoperatively, clinical scores as well as functional assessment are obtained. Clinical scores are Knee Society Clinical Rating System and

maximal flexion possibilities. Functional scores are the functional score of the Knee Society Clinical Rating System and the patellar score, and UCLA score.

Progress

Medical Ethical Committee approval has been obtained and the first patients have been included and randomized. First postoperative results are being collected. Final inclusions are planned in 2010.

Doel van het onderzoek

The null hypothesis is that the Journey TKP and the Genesis II TKP gives an equal maximal flexion at one year. This hypothesis will be tested two-sided.

Onderzoeksopzet

1 year

Onderzoeksproduct en/of interventie

Treatments are primary total knee arthroplasty of the Journey and Genesis II designs, both from Smith & Nephew company. A total knee arthroplasty is a joint replacement treatment. It contains a lower leg component and an upper leg component and a polyethylene menisci part. The main difference between the two types is in the polyethylene part, which is more natural aligned in the Journey type. A total joint arthroplasty is applied once and remains in situ, so there is no dose relation or treatment time.

Primary outcome is measured during polyclinical visits, where the patient is asked to flex the knee as much as possible. The maximum flexion is measured with a long leg goniometer.

Contactpersonen

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1. Patient presents with noninflammatory osteoarthritis and requires a unilateral total knee replacement.
2. Patient reports moderate to severe pain in affected knee.
3. Patient is 18 40 to 70 years of age, inclusive.
4. Patient is willing to consent to participate in the study by signing and dating an IRB-approved consent form.
5. Patient plans to be available for follow-up through five years postoperative.
6. Patient is in stable health.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

1. Patient known to have insufficient femoral or tibial bone stock resulting from concomittant conditions.
2. Patient has a BMI >35.
3. Patient's expected physical activity after surgery is 2 or less on the UCLA activity scale.
4. Patient has had previous hip or knee replacement surgery in the last 6 months.

5. Patient has had major, non-arthroscopic surgery to the study knee.
6. Patient has an active, local infection or systemic infection.
7. Patient has physical, emotional or neurological conditions that would compromise the patient's compliance with postoperative rehabilitation and follow-up.
8. Patient has grade 3 collateral ligament insufficiency.
9. Patient has knee flexion $< 90^{\circ}$.
10. Patient has fixed flexion deformity $>20^{\circ}$.
11. Patient has varus or valgus deformity $>10^{\circ}$, unless correctable to under 10° .
12. Patient has an immunosuppressive disorder.
13. Patient is pregnant or plans to become pregnant during the course of the study.

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Parallel
Toewijzing:	Gerandomiseerd
Blinding:	Open / niet geblindeerd
Controle:	Geneesmiddel

Deelname

Nederland	
Status:	Werving gestart
(Verwachte) startdatum:	01-03-2007
Aantal proefpersonen:	122
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies

Datum: 14-11-2008

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	NL1465
NTR-old	NTR1535
Ander register	METC (regio Arnhem-Nijmegen) : 2005/074
ISRCTN	ISRCTN wordt niet meer aangevraagd

Resultaten

Samenvatting resultaten

N/A