

Comparison between CT- and MRI-based Patient specific matched instruments for total knee arthroplasty

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There is no difference between CT- and MRI-based Patient specific matched instruments for total knee arthroplasty

Ethische beoordeling	Positief advies
Status	Werving gestart
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON26489

Bron

NTR

Verkorte titel

CT and MRI based matched instruments

Aandoening

knee osteoartrose, TKA, arthroplasty, MRI, CT, patient specific, matched instruments
knieslijtage, totale knie prothese, patient specifiek

Ondersteuning

Primaire sponsor: Orthopedie, Orbis MC, Sittard-Geleen, the Netherlands

Overige ondersteuning: Orthopedie, Orbis MC, Sittard-Geleen, the Netherlands

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Toelichting onderzoek

Achtergrond van het onderzoek

Patient specific matched instruments (PSMI) can be used to align total knee arthroplasty. This technique utilizes CT and MR imaging. The present study is designed to investigate postoperative radiographs, pre operative planning and per operative outcome between CT and MRI based PSMI

Doel van het onderzoek

There is no difference between CT- and MRI-based
Patient specific matched instruments for total knee arthroplasty

Onderzoeksopzet

Primary outcome, biomechanical limb alignment, femoral and tibial component position were evaluated on 1 year post operative standardized full leg standing radiographs and sagittal plane radiographs

Onderzoeksproduct en/of interventie

Patient specific matched instruments (PSMI) for total knee arthroplasty (TKA) is a new and upcoming technique that uses 3D rapid prototyped disposable guides to align the knee prosthesis. This case control study will review a cohort (n= 899 cases) of patients operated for unilateral total knee arthroplasty (TKA) with the use of patient specific matched instruments (PSMI; Signature, Biomet, Warsaw INC). This PSMI utilizes CT or MR imaging. Patients operated for TKA who were not eligible to undergo MRI and were operated by means of CT-based PSMI will be included. These patients will be adequately matched on gender, age and body mass index (BMI) with a group of patients operated with MRI-based PSMI (Control group) out of the cohort.

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

patients operated for unilateral total knee arthroplasty (TKA) with the use of patient specific matched instruments (PSMI)

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

NA

Onderzoeksopzet

Opzet

Type:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Parallel
Toewijzing:	Niet-gerandomiseerd
Blindering:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland	
Status:	Werving gestart
(Verwachte) startdatum:	01-09-2013
Aantal proefpersonen:	92
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies	
Datum:	19-08-2013
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	NL3956
NTR-old	NTR4122
Ander register	METC azM/UM / METC Atrium-Orbis-Zuyd : 13N104
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Resultaten

Samenvatting resultaten

Accuracy of CT-based patient specific guides for total knee arthroplasty in patients with post-traumatic osteoarthritis and retained metal hardware around the knee joint from previous surgery.

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