

Pilot study into the working mechanism of a brace preventing hip displacement after total hip replacement surgery

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The brace is able to restrict the movement that pose a risk for hip displacement after total hip replacement surgery

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

Samenvatting

ID

NL-OMON29467

Bron

NTR

Aandoening

Healthy volunteers
Hip replacement surgery
Gezonde vrijwilligers
Operatie waarbij een nieuwe heup wordt geplaatst

Ondersteuning

Primaire sponsor: Roessingh Research and Development

Overige ondersteuning: Non-funded research

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Peak hip anteflexion, adduction, endorotation and exorotation during several functional

activities.

Toelichting onderzoek

Achtergrond van het onderzoek

Preventing hip dislocation is an important part of the postoperative care after total hip replacement. Hip dislocation is associated with implant failure and it may lead to recurrent hip dislocations. One of the possible interventions to prevent hip dislocation is the prescription of a brace, such as the Rebound Hip brace, that restricts the movements that are associated with hip dislocations. While these braces are prescribed in daily care there is little scientific knowledge about the efficacy of these braces in preventing movements that might lead to a hip displacement.

In this trial we exam whether a brace preventing hip displacement restricts the movements that pose a risk for hip displacement in a group of healthy adults.

The subjects will perform a set of measurements consisting of different activities of daily living both with and without the brace. After completion of the measurements, the brace will be removed and subjects will leave the study.

The main study parameters are the peak hip flexion, adduction and rotation angles during the execution of the different tasks. In addition, we will study the peak angles of the other joints to see whether the brace influences the movements of these joints.

Doel van het onderzoek

The brace is able to restrict the movement that pose a risk for hip displacement after total hip replacement surgery

Onderzoeksopzet

Single measurement

Onderzoeksproduct en/of interventie

Prescription of a brace that prevents hip displacement after total hip replacement surgery.

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

- Aged 18 and above.
- No musculoskeletal problems influencing walking ability and range of motion of the hip. To objectify the musculoskeletal problems, the primary investigator will go through a questionnaire ('Vragenlijst Orthopedische Problemen') together with the participant. In addition, the primary investigator who has a background in physical therapy will assess the hip range of motion to see whether participants are able to make the movements that pose a risk for hip dislocation (>90 hip flexion, adduction and rotations).
- Be able to be physically (low-intensity) active for a period of 4 hours.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

- Had a joint replacement surgery of one of the joints of the lower extremities.
- Not able to understand Dutch or English instructions.

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Anders
Toewijzing:	N.v.t. / één studie arm
Blinding:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland	
Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-11-2017
Aantal proefpersonen:	10
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies	
Datum:	15-10-2017
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 44352
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL6649
NTR-old	NTR6883
CCMO	NL63397.044.17
OMON	NL-OMON44352

Resultaten

Samenvatting resultaten

None