

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

No registrations found.

| | |
|------------------------------|------------------|
| Ethical review | Positive opinion |
| Status | Pending |
| Health condition type | - |
| Study type | Interventional |

Summary

ID

NL-OMON29467

Source

Nationaal Trial Register

Health condition

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

Sponsors and support

Primary sponsor: Roessingh Research and Development

Source(s) of monetary or material Support: Non-funded research

Intervention

Outcome measures

Primary outcome

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

Secondary outcome

Peak joint angles of the knee and ankle of the ipsilateral leg and joint angles of the joints of the contralateral leg.

Study description

Background summary

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.

Study objective

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

Study design

Single measurement

Intervention

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

Contacts

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Scientific

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Eligibility criteria

Inclusion criteria

- 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.

Exclusion criteria

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

Study design

Design

| | |
|---------------------|-------------------------|
| Study type: | Interventional |
| Intervention model: | Other |
| Allocation: | N/A: single arm study |
| Masking: | Open (masking not used) |
| Control: | N/A , unknown |

Recruitment

| | |
|---------------------------|-------------|
| NL | |
| Recruitment status: | Pending |
| Start date (anticipated): | 01-11-2017 |
| Enrollment: | 10 |
| Type: | Anticipated |

Ethics review

| | |
|-------------------|------------------|
| Positive opinion | |
| Date: | 15-10-2017 |
| Application type: | First submission |

Study registrations

Followed up by the following (possibly more current) registration

ID: 44352
Bron: ToetsingOnline
Titel:

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

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

Study results

Summary results

None