Gait and balance in patients with an osteoporotic vertebral compression fracture: The effect of bracing.

Gepubliceerd: 03-06-2015 Laatst bijgewerkt: 15-05-2024

Pilot study

Ethische beoordeling	Niet van toepassing
Status	Anders
Type aandoening	-
Onderzoekstype	-

Samenvatting

ID

NL-OMON28889

Bron
NTR

Verkorte titel
Gait and balance in patients with OVCF

Aandoening

Osteoporotic vertebral compression fractures

Ondersteuning

Primaire sponsor: Maastricht University Medical Center
Overige ondersteuning: Not applicable

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The main study parameter is the assessment of margins of stability (MOS) at baseline, at six weeks and at six months follow-up.

The patients will walk in a Computer Assisted Rehabilitation ENvironment (CAREN). The effects of walking with and without orthosis will be assessed on ‘Margins Of Stability’ (MOS). The MOS is defined as the distance between a velocity adjusted or ‘extrapolated’ position of the center of mass (XcoM) and the edge of an individiual’s base of support (BOS) at any given instant in time. The MOS is directly related to the impulse (I) required that causes instability. Center of mass (COM) position will be estimated as the average position of the four pelvis markers (right and left anterior and superior iliac spine).

Toelichting onderzoek

Doel van het onderzoek

Pilot study

Onderzoeksopzet

1 week, 6 weeks and 6 months after visit at ER

Onderzoeksproduct en/of interventie

All subjects are prescribed to wear the thoracolumbar orthosis Osteolind® plus (Werkmeister, Wanfried, Germany) in the acute stage (the first six weeks after presentation at the Emergency department) for the entire day (during the night is optional). In the subacute stage (week six of disease onset) the subjects will be requested to wear the Osteolind® plus orthosis at least 6 hours daily, and after three months for at least 3 hours daily until the final follow-up at six months.

Contactpersonen

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

-Female;

-Age 60 years or older;

- Fully ambulatory subject (ability to perform a 15 meter walk test without walking aids);

-Symptomatic osteoporotic vertebral compression fracture;

-Presenting at emergency department MUMC;

- Willing and able to provide informed consent.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

-Male;

-Unstable vertebral fractures requiring surgery;

-Fractures due to high energetic trauma;

-Neurologic deficit, active cancer;

-Alcohol or drugs use affecting balance or influencing central nervous system (within 48 hours before testing);

-History of neurogenic or myopathic disorders impairing sensory or motor functions;

-Psychiatric or mental disease;

-Insufficient cognitive or language skills to complete questionnaires.

Onderzoeksopzet

Opzet

Onderzoeksmodel: Anders

Blindering:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland

Status:	Anders
(Verwachte) startdatum:	01-07-2015
Aantal proefpersonen:	15
Type:	Onbekend

Ethische beoordeling

Niet van toepassing

Soort:	Niet van toepassing

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 43909
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL5111
NTR-old	NTR5243
CCMO	NL52978.068.15
OMON	NL-OMON43909

Resultaten