

Fracturerehabilitation.

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The aim of this programme is to stimulate people to follow the medical instructions and therefore to optimise the rehabilitation process and the bonehealing. In this project a prototype was fabricated and will be used in twenty patients with a...

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

Samenvatting

ID

NL-OMON29415

Bron

NTR

Verkorte titel

Feetb@ck

Aandoening

Keywords: lower extremity, lower leg, fracture, bone healing, pressure measurement, parameters.

Sleutelwoorden: botbreuk, fractuur, onderste extremiteiten, belasting, drukparameters

Ondersteuning

Primaire sponsor: University Medical Centre Utrecht

Evalan, Almere

Overige ondersteuning: ZonMw Rehabilitation Innovation

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

1. Bouts of axial dynamic loading;

2. Number of dynamic loadings;

3. Average amplitude;

4. Duration per unit of time.

Toelichting onderzoek

Achtergrond van het onderzoek

Feetb@ck supports fracture rehabilitation by collecting pressure measurements and transform them into specific parameters, easy to use for health care givers. Real-time monitoring is possible by using a communication device and an in-shoe plantar pressure measurement sensor. Data is collected and stored at a central database. Information about the amount of steps and axial pressure are helpful for caregivers to give feedback to the patients by phone. With this objective method it is easier to show the patient load and load.

In this project prototypes are made and will be used by 20 different patients with a lower leg fracture. The aim is to test the applicability of this concept. Using a website makes it possible for patients as well as care-givers to follow the patient. It might be possible to give insight into their activity level and to compare it with people of their age and gender. The advantage for the patient is that they don't have to travel to the hospital.

The multidisciplinary projectteam has already performed some research in this field of fracture rehabilitation and we are eager to share the results with others.

Doel van het onderzoek

The aim of this programm is to stimulate people to follow the medical instructions and therefore to optimise the rehabilitation process and the bonehealing.

In this project a prototypes was fabricated and will be used in twenty patients with a specific type of lower extremity fracture to investigate the use of the technical device.

Onderzoeksopzet

During twelve weeks real-time monitoring.

Onderzoeksproduct en/of interventie

With a special communication device and an in-shoe pressure sensor beneath the foot, data will be collected and sent to a central database. Pressure data provides information about the amount of steps, the axial pressure beneath the leg, and caregivers are able to provide feedback to the patients. Usual care is subjective 'time writing', but with this method

objective data are available about load.

Contactpersonen

Publiek

UMC Utrecht, Physiotherapist
Charlotte Gardeniers
Utrecht
The Netherlands
+31 (0)88 7558831

Wetenschappelijk

UMC Utrecht, Physiotherapist
Charlotte Gardeniers
Utrecht
The Netherlands
+31 (0)88 7558831

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Fracture of the lower extremity.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

1. Not able to communicate in Dutch;
2. Not instructable;
3. Without an address.

Onderzoeksopzet

Opzet

Type:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Factorieel
Toewijzing:	N.v.t. / één studie arm
Blinding:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland	
Status:	Werving gestart
(Verwachte) startdatum:	01-09-2010
Aantal proefpersonen:	30
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies	
Datum:	24-11-2010
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	NL2511
NTR-old	NTR2629
Ander register	ZonMw : 335020004
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Resultaten

Samenvatting resultaten

N/A