

Temperature measurements in trauma patients with a fracture of the lower extremities in the rehabilitation phase.

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Investigate whether it is possible to reliably measure the temperature of the lower extremities by means of a temperature sensor on both ankles of the rehabilitants and follow the temperature longitudinally through time. An increase in...

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

Samenvatting

ID

NL-OMON24369

Bron

Nationaal Trial Register

Verkorte titel

tempfracture

Aandoening

Trauma patients
fractures of the lower extremity
Temperature in Lower extremity

Ondersteuning

Primaire sponsor: Netwerk Acute care Limburg Maastricht
Adelante Rehabilitation centre Hoensbroek

Overige ondersteuning: Netwerk Acute care Limburg Maastricht
Adelante Rehabilitation centre Hoensbroek

Prof. Dr. PRG Brink
Maastricht universitair medisch centrum,
Afd. Traumatologie
P. Debyelaan 25
6229 HX Maastricht
p.brink@mumc.nl

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The difference in temperature measured between the affected and unaffected leg.

Toelichting onderzoek

Achtergrond van het onderzoek

At the moment of writing there is no information in the literature about the temperature in the affected limb in trauma patients with a fracture of the lower extremities. It is unknown if there is a variation in temperature over time in patients with a fracture of the lower extremities that have permissive weight bearing. Patients who have had a fracture of the lower extremities are at risk of overload during early mobilization. It is conceivable that pressure or overpressure causes a change of temperature in the affected limb. However, there are no known studies that substantiate this, most likely because there is currently no system that easily ambulatory measures the temperature. The ambulatory measurement of the temperature during the rehabilitation process could give more insight into the consequences of load or overload of the affected leg. To do this in the

future we will develop an ambulatory measurement system consisting of a temperature

sensor that can

be worn around the ankle. Can we demonstrate differences in temperature of the part relative to

contralateral side? Is this inflammatory response useful as feedback for patients and therapists to better

individualize the weight bearing? This study is designed to see if it is possible to reliably measure the

temperature of the skin at the height of the ankles during weight bearing. The study population is

trauma patients with a fracture of the lower extremities that are clinically admitted in Adelante

Rehabilitation Centre.

Doel van het onderzoek

Investigate whether it is possible to reliably measure the temperature of the lower

extremities by means of a temperature sensor on both ankles of the rehabilitants and follow the

temperature longitudinally through time. An increase in temperature at the height of the ankle is a sign

of overload and requires adaptation of the rehabilitation program.

Onderzoeksopzet

At the end of the day the temperature will be measured. If there is an increase in

temperature and the patient is having complaints, the rehabilitation program will be adapted.

Onderzoeksproduct en/of interventie

One sensor per leg will be placed at the height of the ankle of both legs on trauma patients who have had a fracture of the lower extremities.

Contactpersonen

Publiek

Maastricht universitair medisch centrum - Afd. Traumatologie

Pishtiwan Kalmet
P. Debyelaan 25

Maastricht 6229 HX
The Netherlands
06-27020227

Wetenschappelijk

Maastricht universitair medisch centrum - Afd. Traumatologie

Pishtiwan Kalmet
P. Debyelaan 25

Maastricht 6229 HX
The Netherlands
06-27020227

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Trauma patients with fractures of the lower extremities, including pelvic fractures.

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Amputation patients (thigh,leg,foot) and bilateral fracture of the lower extremities.

Onderzoeksopzet

Opzet

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

Deelname

Nederland	
Status:	Werving gestart
(Verwachte) startdatum:	01-10-2015
Aantal proefpersonen:	20
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies	
Datum:	20-08-2015
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	NL5224

Register

NTR-old

Ander register

ID

NTR5373

METC Heerlen : 15-N-137a

Resultaten