

Technology applied to physiotherapy to identify subgroups in non-specific low backpain patients.

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Technology applied to physiotherapy could contribute to identify subgroups in non-specific low back pain patients.

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

Samenvatting

ID

NL-OMON21838

Bron

Nationaal Trial Register

Aandoening

Non-specific low back pain is a pain syndrome, however the exact cause is not known. Probably there are several factors that contribute to this pain syndrome. The last several years, people are interested to divide non-specific low back pain patients in different subgroups. Because these different subgroups need probably different specific treatments. In physiotherapy treatment the most attention focused on disbalance between back and belly muscles. This project will focus on validation of technology to improve the diagnosis of non-specific low back pain by physiotherapists. Ultrasound, surface electromyography and 3D accelerometry will be validated to improve distinguishing of subgroups of non-specific low back pain patients by physiotherapists.

Ondersteuning

Primaire sponsor: Saxion University of Applied Sciences

Overige ondersteuning: Nationaal Regieorgaan Praktijkgericht Onderzoek SIA

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The primary study parameters are the amount of EMG, with parameters relative rEMG, amplitude (mV), frequency amount (Fmed) in Hz. Range of motion of the trunk by using 3D kinematics and cross-sections and fatty degeneration of the multifidus by using ultrasound.

Toelichting onderzoek

Doel van het onderzoek

Technology applied to physiotherapy could contribute to identify subgroups in non-specific low back pain patients.

Onderzoeksopzet

1.5 hours (1 time)

Onderzoeksproduct en/of interventie

not applicable

Contactpersonen

Publiek

[default]
The Netherlands

Wetenschappelijk

[default]
The Netherlands

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Patients:

- Between 18 and 65 years old
- Acute (<6 weeks), subacute (6-12 weeks), chronic non-specific low back pain (>12 weeks)
- Score >30 % points at the Oswestry Disability Index (ODI)
- Signed the informed consent form

Healthy subjects:

- Between 18 and 65 years old
- Signed the informed consent form

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Patients

- Presence of red flags and lumbarsacral radicular syndrome
- Previous back surgery
- Pregnancy or <6 months after childbirth
- Actual psychiatric diagnosis
- Insufficient knowledge of the Dutch language
- Body mass index >30

Healthy subjects

- non-specific low back pain

- Presence of red flags and lumbarsacral radiculopathy
- Previous back surgery
- Pregnancy or <6 months after childbirth
- Actual psychiatric diagnosis
- Insufficient knowledge of the Dutch language
- Body mass index >30

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:	01-01-2017
Aantal proefpersonen:	200
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies	
Datum:	25-11-2016
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	NL5965
NTR-old	NTR6331
Ander register	ABRnummer, MEC Twente : 60064

Resultaten