

Inter- and intrarater reliability of the MicroFET5 inclinometer in measuring range of motion of the lumbar spine.

No registrations found.

Ethical review	Positive opinion
Status	Recruiting
Health condition type	-
Study type	Observational non invasive

Summary

ID

NL-OMON22117

Source

NTR

Brief title

N/A

Health condition

Lumbal flexion Lumbale flexie
Lumbal extension Lumbale extensie
Lumbal lateral flexion Lumbale lateroflexie
Range of motion Range of motion
Lumbar movement Lumbale beweging
Digital inclinometer Digitale inclinometer
MicroFET5 MicroFET5
Biometrics Biometrics

Sponsors and support

Primary sponsor: Sport Medisch Centrum Papendal
Hogeschool Arnhem Nijmegen
Biometrics

Source(s) of monetary or material Support: Biometrics funding material

Intervention

Outcome measures

Primary outcome

- Active Range of Motion (ROM) flexion, extension and lateral flexion of the Lumbar spine in a population of healthy subjects.
- Interrater reliability of the MicroFET5 inclinometer
- Intrarater reliability of the MicroFET5 inclinometer

Secondary outcome

- Numeric rating scale (NRS) for pain
- NSR for stiffness

Study description

Background summary

Nowadays in physical therapy it is more important to record progress objectively. Mobility is often measured with goniometers or inclinometers. It is difficult to measure the mobility of the lumbar spine by using a goniometer. The MicroFET5 is recommended by Biometrics as a new digital inclinometer for measuring range of motion. At this moment there is no information available of the inter- and intrarater reliability of the MicroFET5 for the range of motion of the lumbar spine. Several studies investigated the reliability of comparable inclinometers with a wide variety as result. The aim of this study is to investigate the inter- and intrarater reliability of the MicroFET5 inclinometer for the range of motion of the lumbar spine. The hypothesis is that the MicroFET5 inclinometer is a reliable instrument to measure range of motion of the lumbar spine.

Study objective

The aim of the study is to investigate the interrater and intrarater reliability of the MicroFET5 inclinometer for movements of the lumbar spine specific flexion, extension and lateral flexion. The hypothesis is that the MicroFET5 inclinometer is a reliable instrument to measure range of motion of the lumbar spine.

Study design

There are two timepoints in this study; the two measurements. They will take place with exactly one week in between on the same time (+/- 1 hour)

Intervention

All persons are contacted by the personal and professional network of physiotherapists working at SMC Papendal and of the HAN (hogeschool Arnhem Nijmegen). After voluntary agreement the measurements will be executed. A short bout of 5 minutes bicycling and 5 different warming up movements need to be done as warming up. The test consists of active flexion, extension and lateral flexion in both left and right direction 3 times, all measured by two different testers. After every movement the NSR of pain and stiffness will be noted. All tests on one day take approximately 15 minutes. Data will be analyzed and compared to current literature. Persons will be tested two times with exactly one week in between.

Contacts

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Eligibility criteria

Inclusion criteria

Persons

- Are available for the tests two consecutive weeks on the same time

- Were at least 18 years old at the moment of the first test.
- who were willing to participate

Exclusion criteria

Persons

- Who have had a back surgery
- Who were not suffering from back pain in the last 6 months
- Are momentarily injured at one or both legs
- Have balance and/or coordination problems
- Use medication that influences balance
- Have systemic disease such as cardiovascular problems or diabetes
- Inability to speak or understand the Dutch language

Study design

Design

Study type:	Observational non invasive
Intervention model:	Parallel
Allocation:	Non controlled trial
Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL	
Recruitment status:	Recruiting
Start date (anticipated):	06-09-2013
Enrollment:	40
Type:	Anticipated

Ethics review

Positive opinion

Date: 20-10-2013

Application type: First submission

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

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

No registrations found.

In other registers

Register	ID
NTR-new	NL4063
NTR-old	NTR4214
Other	CMO Arnhem Nijmegen : 2013/383
ISRCTN	ISRCTN wordt niet meer aangevraagd

Study results

Summary results

Intention of publication of study results after the study is finished.