The centralization phenomenon and stability in patients with low back pain.

No registrations found.

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

Summary

ID

NL-OMON24740

Source NTR

Health condition

centralization phenomenon low back pain stability tests centralisatiefenomeen lage rugpijn stabiliteitstesten

Sponsors and support

Primary sponsor: EMGO+, VUmc, Amsterdam **Source(s) of monetary or material Support:** International Mechanical Diagnosis and Therapy Research Foundation www.imdtrf.org

Intervention

Outcome measures

Primary outcome

The proportion of positive instability tests measured before and after the MDT session will be

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calculated for all patients as will their classification as a centralizer or non-centralizer. The differences between instability results pre and post-MDT will be reported as a percentage and investigated with X2 tests between the two groups.

Secondary outcome

As a secondary analysis, patients with a directional preference will be regarded centralizers and the same statistical tests will be used.

Study description

Background summary

For clinicians, positive clinical tests for identification of lumbar spine instability are indicators for the use of stabilization exercises. However, in our clinical experience these tests frequently become negative after the patient has demonstrated a centralization response assessed with Mechanical Diagnosis & Therapy (MDT). Given that this response is commonly elicited during MDT assessment, it may be that instability tests should be preceded by a MDT assessment to ensure appropriate interpretation. The aim of this study will be to assess the influence of the centralization response on the outcome of instability tests in patients with low back pain.

Design: Observational study

Methods:

Patients will be recruited from a private physical therapy clinic. Each patient will be assessed by two examiners on the same day. The first examiner will conduct a standardized set of tests to identify signs of lumbar spine instability before and directly after a MDT session which is conducted by the second examiner. This second examiner will classify each patient as a centralizer or non-centralizer. The assessments of instability tests and the MDT assessment will be conducted independently and the examiners will be blinded to each other's results. At least 100 patients will be included. The differences between pre-test and post-test results on the instability test will be described in percentages and via X2 tests for the two groups (centralizers and non-centralizers). Analyses will be performed to investigate whether selected baseline characteristics have an influence on the outcomes. The present study will contribute to our knowledge about the influence of MDT, and more specifically the centralization response, on clinical lumbar spine stabilization measures in patients with low back pain.

Study objective

For clinicians, positive clinical tests for identification of lumbar spine instability are indicators for the use of stabilization exercises. However, it is our clinical experience that these tests frequently become negative after the patient has demonstrated a centralization response assessed with Mechanical Diagnosis & Therapy (MDT). Given that this response is commonly elicited during MDT assessment, it may be that instability tests should be preceded by a MDT assessment to ensure appropriate interpretation. The aim of this study will be to assess the influence of the centralization response on the outcome of instability tests in patients with low back pain. We hypothesize that the number of positive tests will reduce in patients whose pain centralizes, but that this will not be the case for patients who do not centralize.

Study design

NA

Intervention

Patients will be recruited from a private physical therapy clinic. Each patient will be assessed by two examiners on the same day. The first examiner will conduct a standardized set of tests to identify signs of lumbar spine instability before and directly after a MDT session which is conducted by the second examiner. This second examiner will classify each patient as a centralizer or non-centralizer. The assessments of instability tests and the MDT assessment will be conducted independently and the examiners will be blinded to each other's results. At least 100 patients will be included.

Contacts

Public

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Eligibility criteria

Inclusion criteria

Low back pain (LBP) as primary complaint, with or without associated leg pain, age over 17 years, and able to read and write Dutch

Exclusion criteria

known or suspected specific LBP (e.g., cauda equina compression, fractures), severe radiculopathy, spondylolisthesis (grade 2 or more), serious co-morbidity (e.g., metastases, AIDS, cerebrovascular accident), psychopathology, currently pregnant or given birth in the past three months, lumbar spinal surgery in the previous 6 months, increase of pain due to clinical instability tests by the first examiner or inability to demonstrate any LBP symptoms during mechanical examination

Study design

Design

Study type:	Observational non invasive
Intervention model:	Other
Allocation:	Non controlled trial
Masking:	Single blinded (masking used)
Control:	N/A , unknown

Recruitment

NL	
Recruitment status:	Pending
Start date (anticipated):	01-01-2013
Enrollment:	100
Туре:	Anticipated

Ethics review

Positive opinion Date:

03-11-2013

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	NL4100
NTR-old	NTR4246
Other	: METC VUmc 2013/16, WC2013-025
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Study results

Summary results N/A