Ageing and Proprioception in the asymptomatic shoulder: an observational cohort with reliability assessment.

Published: 17-05-2018
Last updated: 12-04-2024

1) test the hypothesis that there is an age-associated decline in proprioception in asymptomatic participants2) assess the reproducibility and repeatability of the measuring protocol for proprioception.

Ethical review	Approved WMO
Status	Recruitment stopped
Health condition type	Other condition
Study type	Observational non invasive

Summary

ID

NL-OMON46736

Source
ToetsingOnline

Brief title
AGEING AND PROPRIOCEPTION

Condition

- Other condition

Synonym
Asymptomatic participants

Health condition

Asymptomatische participanten ten behoeve van onderzoek naar pees-, ligament- en kraakbeenaandoeningen (SAPS).

Research involving
Human

Sponsors and support

Primary sponsor: Leids Universitair Medisch Centrum
Source(s) of monetary or material Support: Ministerie van OC&W

Intervention

Keyword: Asymptomatic participants, Joint Position Reproduction, Proprioception, Reliability

Outcome measures

Primary outcome

For the assessment of proprioception we will test Joint Position Reproduction

(JPR) in a 3-Dimensional motion tracking device (Flock of Birds).

Secondary outcome

Participants will also rate the subjective JPR acuity during all measurements.

The Constant score will be obtained once and demographic characteristics will

be noted.

Study description

Background summary

An (insufficiently compensated) decline in proprioception may lead to altered muscle activation patterns and hence complaints in the Subacromial Pain Syndrome (SAPS). In the current study, we test the hypothesis that proprioception declines as a function of healthy ageing and assess the reliability of proprioception measurements. With the knowledge obtained in the current study, a fundament is formed for further research into SAPS.

Study objective

1) test the hypothesis that there is an age-associated decline in proprioception in asymptomatic participants
2) assess the reproducibility and repeatability of the measuring protocol for proprioception.

Study design

Observational cohort with assessment of proprioception in 40 to 120 asymptomatic participants. There are two study-related visits, one week after another, with two assessments per visit.

Study burden and risks

The assessments take approximately 90 minutes per visit. There are no risks for participants. Upon completion of participation, participants will receive a 10 euro gift voucher.

Contacts

Public
Leids Universitair Medisch Centrum

Albinusdreef 2
Leiden 2333 ZA
NL
Scientific
Leids Universitair Medisch Centrum

Albinusdreef 2
Leiden 2333 ZA
NL

Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age
Adults (18-64 years)
Elderly (65 years and older)

Inclusion criteria

Asymptomatic volunteers with an evenly distributed age of 18 through 70 years. Volunteers are considered for inclusion in case of no current or past complaint in either shoulder the last two year, defined by a Visual Analogue Scale for shoulder pain of < 10mm (0-100mm, 0 indicates no pain).

Exclusion criteria

- Younger than 18 years old.
- History of shoulder complaints (e.g. pain, instability, dysfunction), i.e. volunteers who received medical attention for a shoulder complaint or experienced shoulder complaints (impaired function or experienced pain) > 1 week.
- No full range of motion during physical examination
- Pregnancy
- History of malignancy, traumatic shoulder injury, fracture of the shoulder, osteoarthritis or rheumatoid arthritis, frozen shoulder, previous shoulder injections or shoulder surgery, neurologic disease or muscle disease, diabetes mellitus
- No informed consent
- Insufficient Dutch language skills
- Electronic implants (e.g. Implantable Cardioverter Defibrillator, pacemakers)

Study design

Design

Study type: Observational non invasive

Masking:	Open (masking not used)
Control:	Uncontrolled
Primary purpose:	Basic science

Recruitment

NL

Recruitment status:	Recruitment stopped
Start date (anticipated):	14-05-2018
Enrollment:	40
Type:	Actual

Ethics review

Approved WMO Date:	17-05-2018
Application type:	First submission
Review commission:	METC Leiden-Den Haag-Delft (Leiden) metc-ldd@lumc.nl

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
CCMO	NL64564.058.17

Study results

Date completed:	23-01-2019
Actual enrolment:	120