Ultrasound tissue characterisation for the biceps femoris long head proximal tendon: differences between individuals with and without proximal hamstring tendinopathy and reliability

No registrations found.

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

Summary

ID

NL-OMON24776

Source
NTR

Health condition

Proximal hamstrings tendinopathy; proximale hamstring tendinopathie

Sponsors and support

Primary sponsor: Maastricht University
Source(s) of monetary or material Support: Maastricht University

Intervention

Outcome measures

Primary outcome

UTC echo types as determined by the algorithms based on the stability of the gray-scale pixel brightness over multiple transverse B-mode ultrasound images

Secondary outcome

Within-session intra-observer reliability

Study description

Background summary

Ultrasound tissue characterisation (UTC) is a relatively new method that can be used to determine the structure of tendinous tissue. Previous studies have shown differences in Achilles and patella tendon structure between individuals with and without tendinopathy using UTC. No study has investigated whether UTC can detect differences in tendon structure between individuals with proximal hamstring tendinopathy (PHT) and individuals without PHT. Further, the intra-observer reliability of ultrasound tissue characterisation on the conjoint tendon and intramuscular tendon of the biceps femoris longhead is unknown. The primary aim of this study is to validate UTC for the proximal hamstring tendon by investigating whether it can detect differences in tendon structure between individuals with and without clinically diagnosed PHT. A secondary aim is to investigate the within-session intra-observer reliability of ultrasound tissue characterization

Study objective

UTC can detect differences in hamstrings tendon structure between individuals with and without clinically diagnosed proximal hamstring tendinopathy.

Study design

n.a.

Intervention

n.a.

Contacts

Public

Scientific

Eligibility criteria

Inclusion criteria

To be eligible to participate in this study as a participant without PHT, the participant must meet all of the following criteria:

- Male;

- Between 18-35 years old;

- Participating in sports that involve running for at least three times per week. Sports that meet the criterion of involving running are football (soccer) rugby, hockey and running.

To be eligible to participate in this study as a participant with PHT, the participant must meet all of the following criteria:

- Male;

- Between 18-35 years old;

- Background in, or currently active in a sport that involves running for at least three times per week;

- Clinically diagnosed PHT.

Exclusion criteria

- Severe visual or hearing impairment;

- BMI outside 18-25;

- Known cardiovascular or other diseases;

For control participants, the following additional exclusion criteria apply:

- History of a previous injury to the thigh within the previous 5 years;

- Pain, ache or soreness in the thigh within the previous year

Study design

Design

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

Recruitment

NL

Recruitment status:	Pending
Start date (anticipated):	01-03-2019
Enrollment:	26
Type:	Anticipated

Ethics review

Positive opinion

Date:	10-01-2019
Application type:	First submission

Study registrations

Followed up by the following (possibly more current) registration

ID: 55782
Bron: ToetsingOnline
Titel:

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

No registrations found.

In other registers

Register	ID
NTR-new	NL7474
NTR-old	NTR7716
CCMO	NL64767.068.18
OMON	NL-OMON55782

Study results

Summary results
n.a.