Six-week high-intensity exercise program for middle-aged patients with knee osteoarthritis: a randomized controlled trial

Submission date	Recruitment status	Prospectively registered		
15/08/2005	No longer recruiting	☐ Protocol		
Registration date	Overall study status	Statistical analysis plan		
16/08/2005	Completed	[X] Results		
Last Edited	Condition category	Individual participant data		
20/12/2007	Musculoskeletal Diseases			

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Contact details

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

N/A

Study information

Scientific Title

Study objectives

Short-term high-intensity exercise improves self-reported pain, function and quality of life in middle-aged patients with moderate to severe knee osteoarthritis.

Ethics approval required

Old ethics approval format

Ethics approval(s)

The study was approved by the Research Ethics Committee at Lund University (Sweden) (ref: LU 99-98), and is in compliance with the Helsinki Declaration.

Study design

Randomised controlled trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Hospital

Study type(s)

Treatment

Participant information sheet

Health condition(s) or problem(s) studied

Knee osteoarthritis

Interventions

A six-week high-intensity supervised exercise session twice a week, or a non-intervention control group.

Intervention Type

Other

Phase

Not Specified

Primary outcome measure

Knee injury and Osteoarthritis Outcome Score (KOOS, a disease specific questionnaire, assessing pain, other symptoms, activities of daily living, sport and recreation function and knee-related quality of life). Time points of interest were 6 weeks and 6 months.

Secondary outcome measures

- 1. 36-item short form health survey (SF-36, a generic measure of general health status)
- 2. Five tests of functional performance:
- 2.1. Åstrands bicycle-ergometre test
- 2.2. Rising on one leg from sitting on lowest possible height
- 2.3. One-leg hop
- 2.4. Lateral step-up
- 2.5. One-leg semi squatting
- 2.6. Heel-rising on one leg

Overall study start date

09/10/1998

Completion date

08/10/2001

Eligibility

Key inclusion criteria

- 1. Aged 35 65 years
- 2. Living in a defined geographic area
- 3. Diagnosis of radiographic knee osteoarthritis according to Kellgren & Lawrence grade III or more (i.e joint space narrowing and definite osteophytes)

Participant type(s)

Patient

Age group

Adult

Sex

Both

Target number of participants

61

Key exclusion criteria

- 1. Inflammatory joint disease
- 2. Anterior cruciate ligament injury
- 3. Known symptomatic injury to the menisci
- 4. Hip symptoms more aggravating than the knee symptoms
- 5. About to have knee replacement surgery within 6 months
- 6. Co-morbidities not allowing exercise

Date of first enrolment

09/10/1998

Date of final enrolment

08/10/2001

Locations

Countries of recruitment

Sweden

Study participating centre Spenshult Hospital for Rheumatic Diseases

Oskarström Sweden S-313 92

Sponsor information

Organisation

The Swedish Rheumatism Association (Sweden)

Sponsor details

Alströmergatan 39 Box 12851 Stockholm Sweden S-112 98 jan.bagge@reumatikerforbundet.se

Sponsor type

Charity

Website

http://www.reumatikerforbundet.org

ROR

https://ror.org/00zps9v98

Funder(s)

Funder type

Research organisation

Funder Name

The Vårdal Foundation (Sweden)

Funder Name

The Swedish Rheumatism Association in Stockholm (Sweden)

Funder Name

The Swedish Rheumatism Association in Gothenburgh (Sweden)

Funder Name

The Swedish Research Council (Sweden)

Funder Name

The Department of Research and Development at Spenshult Hospital for Rheumatic Diseases (Sweden)

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	Results	30/05/2005		Yes	No