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

Submission date 15/08/2005	<b>Recruitment status</b> No longer recruiting	[] Prosp [] Proto
<b>Registration date</b> 16/08/2005	<b>Overall study status</b> Completed	[_] Statis [X] Resu
Last Edited 20/12/2007	<b>Condition category</b> Musculoskeletal Diseases	[] Indivi

### Plain English summary of protocol

Not provided at time of registration

# Contact information

Type(s) Scientific

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# Additional identifiers

EudraCT/CTIS number

**IRAS number** 

ClinicalTrials.gov number

Secondary identifying numbers N/A

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# 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