Intramuscular mechanisms underlying work related trapezius muscle pain - physical activity as intervention for rehabilitation

Submission date	
21/02/2007	

Recruitment status No longer recruiting

Registration dateOverall study status14/03/2007Completed

Completed

Last EditedCondition category11/06/2010Musculoskeletal Diseases

Plain English summary of protocol Not provided at time of registration

Contact information

Type(s) Scientific

Contact name Prof Gisela Sjøgaard

Contact details National Research Centre for the Working Environment Lersø Parkalle 105 Copenhagen Denmark DK-2100

Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers KF 01-138/04 Prospectively registered

[] Protocol

[] Statistical analysis plan

[X] Results

[] Individual participant data

Study information

Scientific Title

Acronym

RAMIN (Rehabilitering Af Muskelsmerter I Nakken; Rehabilitating Activity for Myalgia In the Neck)

Study objectives

1. Metabolic and morphological differences exist in the trapezius muscle among female workers with and without neck/shoulder myalgia

2. Physical activity in terms of dynamic resistance training and bicycle training will via different mechanisms relieve pain and modulate muscle metabolism and morphology of the trapezius muscle in female workers with neck/shoulder myalgia

Ethics approval required

Old ethics approval format

Ethics approval(s)

Ethics approval received from the Local Ethical Committee of Copenhagen, Denmark (ref: KF 01-138/04).

Study design Case control and randomised cluster balanced interventional trial

Primary study design Interventional

Secondary study design

Case-control study

Study setting(s) Hospital

Study type(s) Treatment

Participant information sheet

Health condition(s) or problem(s) studied Musculoskeletal Disorders

Interventions

Intervention amended as of 22/08/2007: Participants are randomised to receive one of the following: 1. Dynamic resistance training: 20 minutes per session, three times a week, for 10 weeks supervised by an instructor 2. Leg bicycle training: 20 minutes per session, three times a week, for 10 weeks supervised by an instructor

3. Health promoting information but no physical training

Interventions provided at time of registration:

Participants are randomised to receive one of the following:

- 1. Dynamic resistance training
- 2. Leg bicycle training
- 3. Health promoting information but no physical training

Intervention Type

Other

Phase

Not Specified

Primary outcome measure

Primary outcome measures amended as of 22/08/2007:

The following will be assessed at baseline before the intervention and again immediately after the 10-week intervention training:

- 1. Perceived pain
- 2. Clinical findings
- 3. Muscle strength and function

Primary outcome measures provided at time of registration:

- 1. Perceived pain
- 2. Clinical findings
- 3. Muscle strength and function

Secondary outcome measures

Secondary outcome measures amended as of 22/08/2007:

The following will be assessed at baseline before the intervention and again immediately after the 10-week intervention training:

- 1. Muscle biochemistry and histochemistry
- 2. Microdialysis
- 3. Ultrasound
- 4. Electromyography (EMG)
- 5. Near infrared spectroscopy (NIRS)
- 6. Exercise test performance

Secondary outcome measures provided at time of registration:

- 1. Muscle biochemistry and histochemistry
- 2. Microdialysis
- 3. Ultrasound
- 4. Electromyography (EMG)
- 5. Near infrared spectroscopy (NIRS)
- 6. Exercise test performance

Overall study start date

01/08/2005

Completion date

31/12/2007

Eligibility

Key inclusion criteria

Generally healthy female workers
Aged 30 - 60 years
With and without trapezius myalgia

Participant type(s)

Patient

Age group

Adult

Sex Female

Target number of participants 20 without and 60 with trapezius myalgia

Key exclusion criteria

Trauma
Generalised muscle pain
Life threatening diseases

Date of first enrolment

01/08/2005

Date of final enrolment 31/12/2007

Locations

Countries of recruitment Denmark

Study participating centre National Research Centre for the Working Environment Copenhagen Denmark DK-2100

Sponsor information

Organisation The National Research Centre for the Working Environment (Denmark)

Sponsor details Lersø Parkalle 105 Copenhagen Ø Denmark DK 2100

Sponsor type Government

Website http://www.arbejdsmiljoforskning.dk/

ROR https://ror.org/03f61zm76

Funder(s)

Funder type Government

Funder Name Danish Medical Research Council (Denmark) (ref: 22-03-0264)

Funder Name The Danish Rheumatism Association (Denmark) (ref: 233-1149-02.02.04)

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	15/01/2008		Yes	No
Results article	results	01/06/2010		Yes	No