Total value of intensive exercise training (three weeks) immediately after hospital discharge for arthritis patients due to a flare of disease activity or for elective joint replacements

Submission date	Recruitment status	Prospectively registered		
29/12/2006	No longer recruiting	☐ Protocol		
Registration date	Overall study status	Statistical analysis plan		
16/01/2007	Completed	[X] Results		
Last Edited	Condition category	Individual participant data		
22/10/2008	Musculoskeletal Diseases			

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

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Additional identifiers

Protocol serial number

N/A

Study information

Scientific Title

Acronym

DAPPER-study: Disabled Arthritis Patients Post-hospitalisation Exercise Recovery/Rehabilitation

Study objectives

- 1. Three weeks of intensive training immediately after hospital discharge improves the functional ability, mobility, quality of life in patients with arthritis on the short term and on the long term.
- 2. Over a period of one year the total cost of the intensive training group are equal or lower to the usual care associated with better effectiveness.
- 3. The arm ergometer is a valid and reliable measuring device to measure the aerobic condition with the use of the Astrand Rhyming test.

Ethics approval required

Old ethics approval format

Ethics approval(s)

The trial was reviewed and accepted by the certified medical ethical commission (METC) of the Medisch Spectrum Twente in May 2002 (ref: P02-023)

Study design

The DAPPER study is a randomised controlled clinical trial

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Rheumatoid arthritis and Osteoarthritis

Interventions

Directly following hospital discharge the patients of this study design recieved Intensive Exercise Therapy (IET) or Usual Care (UC).

The IET group were referred to a dedicated convalescent hotel. The hotel facilities and professional care for disabled people were offered for three-weeks. Thereafter, the IET group received regular care only. During their three week stay patients were trained twice a day by physical therapists, for 75 minutes per session. The goals of the training were improvement of range of motion, muscle strength, aerobic capacity and activities of daily life. The therapy sessions were given individually as well as in groups. In the first two weeks, treatment focused on individual limitations (range of motion, strength, balance, aerobic capacity and simple functionality). Aerobic capacity was trained daily on a sub maximal level. Hydrotherapy was applied after sufficient wound healing. During the third week, the training was focused on the functional capacities as prioritised by the patient. A group education program was given twice a

week. This program was based on the self management training for arthritis patients by Kate Lorig modified for the Netherlands by Taal.

In contrast, the patients in the UC group received usual care at the discretion of their attending physician only. Usual care consists of either physical therapy by a local physical therapist or temporary admission to a nursing home, when applicable.

Intervention Type

Other

Phase

Not Specified

Primary outcome(s)

Function ability as measured with the McMaster Toronto Arthritis patient preference questionnaire (MACTAR) and Health Assessment Questionnaire (HAQ).

Key secondary outcome(s))

- 1. Quality of life as measured with the RAND-36/Short Form health survey (SF-36) and Arthritis Impact Measurement Scales (AIMS)
- 2. Mobility as measured with the Escola Paulista de Medicina Range Of Motion (EPM-ROM)
- 3. Pain, general health as measured with a Visual Analogue Scale
- 4. Costs

Completion date

05/01/2005

Eligibility

Key inclusion criteria

- 1. Aged over 18
- 2. Rheumatoid Arthritis (RA) according to the American College of Rheumatology (ACR) 1987 or polyarticular OsteoArthritis (OA)

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Lower age limit

18 years

Sex

Not Specified

Key exclusion criteria

- 1. Presence of serious cardiac disease (New York Heart Association [NYHA] class III and IV)
- 2. Incapacitating pulmonary disease Global initiative for chronic Obstructive Lung Disease (GOLD) stage IV
- 3. Serious hypertension (diastolic blood pressure more than 110 mmHg)
- 4. Pregnancy
- 5. Insufficient understanding of the Dutch language
- 6. Functional incapacity (Steinbrocker functional class four)

Date of first enrolment

01/01/2002

Date of final enrolment

05/01/2005

Locations

Countries of recruitment

Netherlands

Study participating centre University of Twente

Enschede Netherlands 7500 AE

Sponsor information

Organisation

University of Twente (The Netherlands)

ROR

https://ror.org/006hf6230

Funder(s)

Funder type

Government

Funder Name

RVVZ (Reserve Voormalige Vrijwillige Ziekenfondsen) a governmental non profit health organisation (The Netherlands)

Funder Name

Dutch Arthritis Foundation (The Netherlands)

Results and Publications

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	15/02/2008		Yes	No