ISRCTN66318889 https://doi.org/10.1186/ISRCTN66318889

Effects of exercise training on oxygen onset and recovery kinetics at submaximal exercise in patients with chronic heart failure

Submission date
19/07/2006

Recruitment status
No longer recruiting

Registration date
19/07/2006

Overall study status
Completed

Last Edited
08/01/2021

Condition category
Circulatory System

[_] Prospectively registered
[_] Protocol
[_] Statistical analysis plan
[X] Results
[_] Individual participant data

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
NL576, NTR632

Study information

Scientific Title

Effects of exercise training on oxygen onset and recovery kinetics at submaximal exercise in patients with chronic heart failure

Study objectives
The time constant of oxygen uptake during recovery of submaximal exercise is a reliable parameter to measure the effects of exercise training in patients with chronic heart failure

Ethics approval required
Old ethics approval format

Ethics approval(s)
Not provided at time of registration

Primary study design
Interventional

Study design
Randomised crossover study

Study type(s)
Treatment

Health condition(s) or problem(s) studied
Heart failure

Interventions
Exercise training (12 weeks) versus standard care

Intervention Type
Other

Phase
Not Specified

Primary outcome(s)
Change of time constant of oxygen onset or recovery kinetics >10 seconds

Key secondary outcome(s)
1. Change in peak volume of oxygen (VO2)
2. Quality of life

Completion date
01/01/2007

Eligibility

Key inclusion criteria
Stable chronic heart failure (CHF) (New York Heart Association [NYHA] class II-III and echocardiographical ejection fraction </= 40%) attributed to idiopathic dilated cardiomyopathy or ischemic heart disease due to myocardial infarction

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Adult

Sex
All

Total final enrolment
24

Key exclusion criteria
1. Myocardial infarction or unstable angina pectoris in previous three months
2. Atrial fbrillation or flutter
3. Chronic obstructive pulmonary disorder (COPD) (Tiffenau index <60%)

Date of first enrolment
01/09/2002

Date of final enrolment
01/01/2007

Locations

Countries of recruitment
Netherlands

Study participating centre
Máxima Medical Centre
Veldhoven
Netherlands
5500 MB

Sponsor information

Organisation
Máxima Medical Center, Department of Sport Medicine (The Netherlands)

ROR
https://ror.org/02x6rcb77

Funder(s)

Funder type
Charity

Funder Name
'Friends of the Heart' Foundation (Stichting 'Vrienden van het Hart')

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?
Abstract results	results presented at the European Society of Cardiology meeting	01/05/2006	08/01/2021	No	No