

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	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 19/07/2006	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 08/01/2021	Condition category Circulatory System	<input type="checkbox"/> 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

Study design

Randomised crossover study

Primary study design

Interventional

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 \leq 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 fibrillation 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