

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

<b>Submission date</b> 19/07/2006	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered
		<input type="checkbox"/> Protocol
<b>Registration date</b> 19/07/2006	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan
		<input checked="" type="checkbox"/> Results
<b>Last Edited</b> 08/01/2021	<b>Condition category</b> Circulatory System	<input type="checkbox"/> Individual participant data

**Plain English summary of protocol**  
Not provided at time of registration

## Contact information

**Type(s)**  
Scientific

**Contact name**  
Dr Hareld M.C. Kemps

**Contact details**  
Máxima Medical Centre  
Department of Sport Medicine  
P.O. Box 7777  
Veldhoven  
Netherlands  
5500 MB  
+31 (0)40 8888620  
H.Kemps@wxs.nl

## 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 (VO<sub>2</sub>)
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?
<a href="#">Abstract results</a>	results presented at the European Society of Cardiology meeting	01/05/2006	08/01/2021	No	No