

Exercise and physical activity patterns in patients with acute myocardial infarction

Gepubliceerd: 29-11-2018 Laatste bijgewerkt: 18-08-2022

- Aim 1: regular physical activity reduces the risk of cardiovascular events and is associated with better survival. Earlier studies show that exercise might also have a direct positive effect on myocardial tissue, probably due to ischaemic...

Ethische beoordeling	Positief advies
Status	Anders
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON28975

Bron

Nationaal Trial Register

Aandoening

Myocardial infarction, cardiovascular disease

Ondersteuning

Primaire sponsor: Radboud university medical center

Overige ondersteuning: Dutch Heart Foundation

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Aim 1: infarct size

Aim 2: exercise and physical activity pattern

Toelichting onderzoek

Achtergrond van het onderzoek

The primary goal of this study is to assess exercise and physical activity patterns in acute myocardial infarction. Our first aim is to assess whether infarct size is influenced by exercise patterns prior to and during onset of myocardial infarction. Our second aim is to get insight in possible changes in physical activity patterns after myocardial infarction over time and the influence on survival, recurrence rate and quality of life. Therefore we will conduct a prospective observational cohort study in 200 adult patients. The earlier mentioned endpoints will be assessed during follow up.

Doel van het onderzoek

- Aim 1: regular physical activity reduces the risk of cardiovascular events and is associated with better survival. Earlier studies show that exercise might also have a direct positive effect on myocardial tissue, probably due to ischaemic preconditioning. We hypothesize that exercise influences infarct size in patients suffering from myocardial infarction.
- Aim 2: little is known about the influence of physical activity patterns in the acute phase of myocardial infarction on the clinical course and survival. Additionally it is unknown whether physical activity patterns change after myocardial infarction and we do not know how this develops over time. This study provides insight in exercise and physical activity patterns after myocardial infarction and possible changes over time. Based on these findings we are able to optimize cardiac rehabilitation, which hopefully leads to better survival and quality of life, and a lower recurrence rate.

Onderzoeksopzet

Baseline/admission (patient characteristics)

1-7 days post-myocardial infarction (interview + activity monitor)

7 days after discharge (activity monitor + questionnaire)

6 months after discharge (questionnaire)

Follow-up 1-3 years (mortality, readmissions, recurrent myocardial infarction)

Onderzoeksproduct en/of interventie

NA

Contactpersonen

Publiek

Wetenschappelijk

Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

- Acute myocardial infarction according to 2018th ESC guideline Myocardial Infarction defined as:

* Acute myocardial injury with clinical evidence of acute myocardial ischaemia and with detection of a rise and/or fall of cTn values with at least one value above the 99th percentile URL and at least one of the following:

** symptoms of myocardial ischaemia

** new ischaemic ECG changes

** development of pathological Q waves

** imaging evidence of new loss of viable myocardium or new regional wall motion abnormality in a pattern consistent with an ischaemic aetiology

** identification of a coronary thrombus by angiography (not for type 2/3)

- coronary angiography during admission

- > 18 years

- written informed consent

Belangrijkste redenen om niet deel te kunnen nemen

(Exclusiecriteria)

- wheelchair-bound patients
- language barrier
- unable to give informed consent

Onderzoeksopzet

Opzet

Type:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Anders
Toewijzing:	N.v.t. / één studie arm
Blinding:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland	
Status:	Anders
(Verwachte) startdatum:	01-01-2019
Aantal proefpersonen:	200
Type:	Onbekend

Ethische beoordeling

Positief advies	
Datum:	29-11-2018
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

Geen registraties gevonden.

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL6777
NTR-old	NTR7646
Ander register	CCMO : 2018-45378

Resultaten