The effectiveness of an online exercise program in early cardiac rehabilitation after cardiac surgery

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The current study aims to investigate the effects of an early exercise-based cardiac rehabilitation program among patients after cardiac surgery. By starting the exercise program in an earlier phase, immediately after discharge from the hospital, we...

Ethische beoordeling	Niet van toepassing
Status	Werving nog niet gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON26493

Bron

NTR

Aandoening

cardiac surgery (openhartoperatie) including CABG (bypass operatie) and valve surgery (klepoperatie)

Ondersteuning

Primaire sponsor: Medisch Spectrum TwenteParamedische ZorgOverige ondersteuning: Pioneers in Healthcare innovation fund

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The primary outcome measure is exercise capacity, measured with the 6 minutes walk test.

1 - The effectiveness of an online exercise program in early cardiac rehabilitation ... 8-05-2025

Toelichting onderzoek

Achtergrond van het onderzoek

* Rationale:

Cardiac rehabilitation (CR) has shown to be an effective treatment to reduce mortality and morbidity among cardiac patients who underwent cardiac surgery. Exercise training is a major component of CR. It usually starts in the hospital and continues in an outpatient setting six weeks after discharge from the hospital. In the invervening period patients continue rehabilitation by themselves with the advices they received in the hospital. Research has shown that patients experience this intervening period as stressful. They feel insufficiently supported and are in need of more information and advice. No general consensus exists concerning the best timing of exercise-based CR. However, there seems to be a positive relation between the timing of the start of an exercise program and physical functioning.

* Objective:

This study aims to investigate the effects of an early online exercise-based CR program among patients after cardiac surgery.

* Study design:

A quasi-experimental study will be conducted comparing patients who completed a traditional outpatient exercise-based CR program (control group) with patients who completed an early (home-based) online exercise CR program (in the first 6 weeks after discharge from the hospital) as adjuvant to the traditional outpatient exercise-based CR program (intervention group).

* Study population:

Patients who underwent CABG or valve surgery in the MST and are intended to participate in exercise-based CR offered by the MST.

* Intervention:

Online exercise program which consists of three modules: exercises, monitoring health status and telecommunication (with physical therapist).

* Main study parameters/endpoints:

2 - The effectiveness of an online exercise program in early cardiac rehabilitation ... 8-05-2025

Main outcome measue is exercise capacity, measured with the 6 min walktest. Secondary outcomes measures are physical activity, quality of llife, disability, anxiety, depression and

Doel van het onderzoek

The current study aims to investigate the effects of an early exercise-based cardiac rehabilitation program among patients after cardiac surgery. By starting the exercise program in an earlier phase, immediately after discharge from the hospital, we respond to the needs of patients to get more (tailored) support in the first weeks after discharge from the hospital, resulting in improved satisfaction with treatment. Furthermore, patients might gain greater health benefits at the end of cardiac rehabilitation.

Onderzoeksopzet

- Baseline (1 day before discharge from the hospital)
- At the start of the traditional exercise-based outpatient cardiac rehabilitation program
- At the end of the traditional exercise-based outpatient cardiac rehabilitation program.

Onderzoeksproduct en/of interventie

A home-based exercise program to start cardiac rehabilitation in an early phase (immediately after discharge from the hospital). This program will be offered as adjuvant to the traditional outpatient exercise-based cardiac rehabilitation program (starting approximately 6 weeks after discharge from the hospital). The online exercise program consists of three different modules: exercise progam, monitoring and telecommunication.

Goal of the online exercise program is to support the patient in his reconditioning at home. The module has a database of exercise video recordings of different exercises, composed and recorded by physiotherapists. From this database, the physiotherapist selects together with the patient appropriate exercises and schedules when the patient will do these exercises during the week. On the professional's portal, the physiotherapist gets feedback on what exercises are performed by the patient and during which moment of the day.

Telemonitoring makes it possible to identify health problems or to gain insight in the rehabilitation progress of the patient and can be used for optimal treatment (eg by modifying the exercise program). As such, different standardized questions are asked at fixed time intervals to gain insight into the health status of the patient. The answers to these questions are presented in a clear overview on the portal of the health care professional. Answers are also made visible to the patient to give them insight into his health status and progress in rehabilitation.

Telecommunication makes it possible for the patient and professional to have contact with each other. The physiotherapist and patients are notified of new messages when they log in to the portal and the new messages are shown in a clear overview. Professionals are explained that patients have the option to use telecommunication. It is up to the professional how often they view these messages and whether they respond. Patients know that there is an option to contact the professional, but the professional may not respond immediately. In case of emergency issues, they need to make contact by telephone.

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

In order to be eligible to participate in this study, a patient must meet all of the following criteria:

- CABG or valve surgery
- Clinically stabile and capable of performing an exercise program (judgement cardiologist)
- Intended to participate in the regular outpatient exercise program
 - 4 The effectiveness of an online exercise program in early cardiac rehabilitation ... 8-05-2025

- Access to the internet
- Master of Dutch language (reading and writing)
- Live in adherence area of MST
- Age >18 years

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

No exclusion criteria are defined.

Onderzoeksopzet

Opzet

Туре:	Interventie onderzoek
Onderzoeksmodel:	Anders
Toewijzing:	Niet-gerandomiseerd
Blindering:	Open / niet geblindeerd
Controle:	Geneesmiddel

Deelname

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Werving nog niet gestart
01-12-2016
100
Verwachte startdatum

Ethische beoordeling

Niet van toepassing Soort:

Niet van toepassing

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 46925 Bron: ToetsingOnline Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL6135
NTR-old	NTR6274
ССМО	NL59315.044.16
OMON	NL-OMON46925

Resultaten