# Monitoring and improving guideline adherence by an electronic decision support system.

No registrations found.

| | |
|---|---|
| **Ethical review** | Positive opinion |
| **Status** | Recruitment stopped |
| **Health condition type** | - |
| **Study type** | Interventional |

## Summary

### ID

NL-OMON26471

**Source**
Nationaal Trial Register

**Brief title**
CARDSS

**Health condition**

The study is aimed at all patients who are screened at Dutch cardiac rehabilitation centres.

### Sponsors and support

**Primary sponsor:** Nederlandse Hartstichting
**Source(s) of monetary or material Support:** ZonMW Doelmatigheid 2004 / ZonMw Health Care Efficiency Research Programme 2004

### Intervention

### Outcome measures

**Primary outcome**

Adherence, by care providers, to the Dutch Cardiac Rehabilitation Guidelines.

### Secondary outcome

N/A

## Study description

### Background summary

Cardiac rehabilitation is a multidisciplinary therapy for cardiac patients that is provided after cardiac events and cardiac interventions. It is optimally effective in a patient-oriented approach where each rehabilitation programme is tailored to the patient's specific needs; this approach is therefore advocated by the Dutch Guidelines Cardiac Rehabilitation.

To support professionals in applying the guidelines in daily practice, an electronic decision support system (DSS) has been developed that is based on the guidelines.

The DSS identifies the appropriate goals and therapies of a cardiac rehabilitation programme, based on the patient's condition, history, and needs.

This study evaluates the effect of the DSS on guideline adherence by conducting a cluster randomised trial. The participating cardiac rehabilitation centres will either work with an intervention version of the DSS, having full functionality, or with a control version, which comprises patient records and information management services but provides no decision support. Both versions of the DSS record patient data, guideline-based recommendations, and rehabilitation goals and therapies that are actually pursued in each patient's programme. Duration of the trial is six months in each participating CR centre.

### Study objective

Care providers are more likely to adhere to clinical practice guidelines when they receive guideline-based decision support by an electronic system.

### Study design

N/A

### Intervention

Randomisation takes place at cluster (centre) level. The participating cardiac rehabilitation centres will either work with an intervention version of the DSS, having full functionality with advice, or with a control version, which comprises patient records and information management services but provides no advice regarding clinical decisions.

The system is based on the Dutch Cardiac Rehabilitation Guidelines 2004.

# Contacts

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# Eligibility criteria

## Inclusion criteria

The decision support system (DSS) can be used at all Dutch cardiac rehabilitation (CR) centres. These centres treat patients after acute coronary syndromes, patients with angina pectoris, heart failure, and/or congenital heart disease, and patients who have undergone cardiac surgery, percutaneous transluminal coronary angioplasty, or heart transplant surgery, or have received an implantable cardioverter defibrillator.

## Exclusion criteria

The system should be used on a routine basis in the participating CR centres, for all patients that are screened for CR; no patients are excluded.

# Study design

## Design

| | |
|---|---|
| Study type: | Interventional |
| Intervention model: | Parallel |
| Allocation: | Randomized controlled trial |
| Masking: | Open (masking not used) |
| Control: | Active |

## Recruitment

NL

| | |
|---|---|
| Recruitment status: | Recruitment stopped |
| Start date (anticipated): | 01-01-2005 |
| Enrollment: | 5000 |
| Type: | Actual |

# Ethics review

Positive opinion

| | |
|---|---|
| Date: | 07-09-2005 |
| Application type: | First submission |

# Study registrations

## Followed up by the following (possibly more current) registration

No registrations found.

## Other (possibly less up-to-date) registrations in this register

No registrations found.

## In other registers

| Register | ID |
|---|---|
| NTR-new | NL209 |
| NTR-old | NTR246 |
| Other | : N/A |
| ISRCTN | ISRCTN36656997 |

# Study results

**Summary results**
Stud Health Technol Inform. 2008;136:193-8.