Cardiovascular Magnetic resonance imaging and Echocardiography in Rheumatoid Arthritis - Patterns of cardiovascular dysfunction in patients with rheumatoid arthritis.

Gepubliceerd: 02-03-2012 Laatst bijgewerkt: 19-03-2025

The main objective of this pilot study is to document cardiovascular dysfunction found in rheumatoid arthritis patients using cardiac imaging techniques echocardiography and cardiac MRI.

Ethische beoordeling	Positief advies
Status	Werving nog niet gestart
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON21327

Bron
NTR

Verkorte titel
CAMERA-trial

Aandoening

- cardiovascular disease
- rheumatoid arthritis
- cardiac magnetic resonance imaging
- echocardiography

- cardiovasculaire ziekte
- reumatoide artritis
- cardiale MRI
- echocardiografie

Ondersteuning

Primaire sponsor: Medisch Spectrum Twente, Enschede, The Netherlands
Department of Cardiology and Department of Rheumatology
Overige ondersteuning: fund = initiator = sponsor

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

With this pilot study we want to determine parameters that are useful for further follow-up studies in patient with RA in assessing cardiovascular risk with cardiac imaging techniques.

Toelichting onderzoek

Achtergrond van het onderzoek

People with rheumatoid arthritis (RA) have a two- to threefold increased mortality risk compared to the general population. Death is mainly due to cardiovascular diseases, such as myocardial infarction, heart failure and stroke. The pattern of cardiac disease manifestations seems to be different than in the general population. The way cardiovascular disease develops in these patients is greatly unknown.

The main objective of this descriptive pilot study is to document cardiovascular dysfunction found in rheumatoid arthritis patients using cardiac imaging techniques echocardiography and cardiac MRI.
The main study parameters will be patterns of cardiovascular dysfunction in different groups of RA patients using cardiac imaging techniques echocardiography and cardiac MRI. To assess cardiovascular dysfunction, different variables will be scored including wall motion score, diastolic function, valvular abnormalities, left and right ventricular ejection fraction, left ventricular mass and presence of myocardial fibrosis. With this pilot study we want to determine parameters that are useful for further follow-up studies in patient with RA in assessing cardiovascular risk with cardiac imaging techniques.

Doel van het onderzoek

The main objective of this pilot study is to document cardiovascular dysfunction found in rheumatoid arthritis patients using cardiac imaging techniques echocardiography and cardiac MRI.

Onderzoeksopzet

1. 12 months selecting patients and performing echocardiography and cardiac MRI;

2. 12 months for analysis data and publication of results.

Onderzoeksproduct en/of interventie

The main study parameters will be patterns of cardiovascular dysfunction in different groups of RA patients using cardiac imaging techniques echocardiography and cardiac MRI. To assess cardiovascular dysfunction, different variables will be scored including wall motion score, diastolic function, valvular abnormalities, left and right ventricular ejection fraction, left ventricular mass and presence of myocardial fibrosis.

Contactpersonen

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

Participants in this study will be selected from a large database of RA patients at the rheumatology department. Three groups of patients with rheumafactor positive and anti-CCP positive rheumatoid arthritis will be selected. The first group consists of 30 patients with new onset rheumatoid arthritis (early RA group, < 1 year disease duration). The second group consists of 20 patients with intermediate duration of rheumatoid arthritis (intermediate RA,

5-10 years disease duration, erosive disease, expert based stable low disease activity > 6 months). The third group consists of 30 patients with longstanding rheumatoid arthritis (longstanding RA, > 15 years disease duration, erosive disease, expert based stable low disease activity > 6 months). The age of the study population is 18-75 year

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

Exclusion criteria: previous CV disease, current smoking, age < 18 or > 75 years, pregnancy, history of kidney dysfunction (GFR < 60 ml/min), hypercholesterolemia/dyslipidemia (total cholesterol > 6.5 mmol/l), history of hypertension (systolic pressure > 140 mmHg, diastolic pressure > 90 mmHg) or use of antihypertensive medication, history of diabetes mellitus (fasting glucose level > 7.0 mmol/l), body mass index > 30 kg/m2, claustrophobia or other exclusion criteria for MRI such as implanted metal materials.

Onderzoeksopzet

Opzet

Type:	Observationeel onderzoek, zonder invasieve metingen
Onderzoeksmodel:	Parallel
Toewijzing:	Niet-gerandomiseerd

Controle: N.v.t. / onbekend

Deelname

Nederland

Status:	Werving nog niet gestart
(Verwachte) startdatum:	01-04-2012
Aantal proefpersonen:	80
Type:	Verwachte startdatum

Ethische beoordeling

Positief advies

Datum:	02-03-2012
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 39670
Bron: ToetsingOnline
Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL3173
NTR-old	NTR3317
CCMO	NL33959.044.10
ISRCTN	ISRCTN wordt niet meer aangevraagd.
OMON	NL-OMON39670

Resultaten

Samenvatting resultaten
N/A