

Observational study

End organ damage in patients with hypertension: a magnetic resonance imaging approach.

Gepubliceerd: 11-05-2007 Laatste bijgewerkt: 18-08-2022

Hypertension causes subclinical and clinical damage in end organs. The exact manifestations of end organ damage in hypertension itself are unknown. The hypothesis is that differences in the cardiovascular risk profile in hypertensive patients are...

Ethische beoordeling	Niet van toepassing
Status	Werving gestart
Type aandoening	-
Onderzoekstype	Observationeel onderzoek, zonder invasieve metingen

Samenvatting

ID

NL-OMON28784

Bron

NTR

Verkorte titel

N/A

Aandoening

Hypertension, 3T MRI, end organ damage: heart, aorta, brain.

Ondersteuning

Overige ondersteuning: Patients are derived from the hypertensive clinic at the Leiden University Medical Centre. Standard work-up of hypertension to investigate organ damage will follow and includes visits to the hypertension clinic and laboratory measurements. These costs are routine clinical practice and will be declared as usual to the insurance companies of the patients.

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

Exact manifestations of organ damage in heart, aorta and brain in patients with hypertension.

Toelichting onderzoek

Achtergrond van het onderzoek

Background:

Hypertension causes subclinical and clinical damage in end organs. The exact manifestations of end organ damage in hypertension itself are unknown. Recently, MRI has been established as an accurate, non-invasive tool for assessment of organ damage in the heart, the aorta and the brain. The aim of our study is assess subclinical and clinical manifestations of end organ damage in the heart, the aorta and the brain in patients with hypertension by 3Tesla MRI.

Methods:

We will perform an observational study in patients with hypertension. Patients are derived from the "Leiden Hypertensive clinic" at the Leiden University Medical Centre (LUMC). In the next two years, we will include approximately 200 patients. Also, 25 healthy volunteers will be included as control subject. Besides routine hypertension screening, patients will undergo MR assessment of the heart, the aorta and the brain.

Expected results:

MRI will be an accurate, non-invasive tool to further delineate the phenotype of end organ damage in patients with hypertension.

Doel van het onderzoek

Hypertension causes subclinical and clinical damage in end organs. The exact manifestations

of end organ damage in hypertension itself are unknown. The hypothesis is that differences in the cardiovascular risk profile in hypertensive patients are associated with specific symptomatic and asymptomatic manifestations of microvascular disease.

Onderzoeksopzet

N/A

Onderzoeksproduct en/of interventie

MR assesment heart, aorta and brain.

Contactpersonen

Publiek

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Wetenschappelijk

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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

1. Age > 18 years;

2. Patients with proven hypertension (i.e. blood pressure of > 140/90mmHg on repeated examination according to (8)).

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

1. Routine MRI-contraindications (e.g. instable metal implants, pacemaker/ICD, vascular clips, atrial fibrillation or sustained ventricular tachycardia pregnancy and claustrophobia).

Onderzoeksopzet

Opzet

Type: Observationeel onderzoek, zonder invasieve metingen

Onderzoeksmodel: Anders

Controle: N.v.t. / onbekend

Deelname

Nederland

Status: Werving gestart

(Verwachte) startdatum: 17-10-2007

Aantal proefpersonen: 200

Type: Verwachte startdatum

Ethische beoordeling

Niet van toepassing

Soort: Niet van toepassing

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	NL945
NTR-old	NTR969
Ander register	:
ISRCTN	wordt niet aangevraagd

Resultaten

Samenvatting resultaten

N/A