

StereoTactic Arrhythmia Radiotherapy in the Netherlands no. 1

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We hypothesize that stereotactic radiotherapy for the treatment of the cardiac arrhythmia ventricular tachycardia is effective and safe in therapy refractory patients

Ethische beoordeling	Positief advies
Status	Werving gestart
Type aandoening	-
Onderzoekstype	Interventie onderzoek

Samenvatting

ID

NL-OMON22142

Bron

NTR

Verkorte titel

STARNL-1 trial

Aandoening

Ventricular tachycardia

Ondersteuning

Primaire sponsor: Amsterdam University Medical Centers

Overige ondersteuning: Government funding (university)

Onderzoeksproduct en/of interventie

Uitkomstmaten

Primaire uitkomstmaten

The main efficacy measure is a reduction in the number of ICD treated VT episodes by $\geq 50\%$ at one year after treatment compared to the year before treatment.

Toelichting onderzoek

Achtergrond van het onderzoek

Ventricular tachycardia (VT) is a malignant cardiac arrhythmia subjecting our patients to a high risk of sudden death, increased morbidity and reduced quality of life. Recent advances in cardiac electrophysiology and radiotherapy have enabled the use of non-invasive 3-dimensional cardiac mapping of these arrhythmias and the subsequent delivery of precise stereotactic radiotherapy to treat ventricular tachycardia. This study is designed to evaluate the efficacy and safety of stereotactic arrhythmia radiotherapy in patients with ventricular tachycardia.

Doel van het onderzoek

We hypothesize that stereotactic radiotherapy for the treatment of the cardiac arrhythmia ventricular tachycardia is effective and safe in therapy refractory patients

Onderzoeksopzet

Outcomes will be assessed at 1, 3, 6 and 12 months after treatment

Onderzoeksproduct en/of interventie

The pro-arrhythmic cardiac region is identified by combining anatomical imaging with non-invasive body surface potential mapping during VT induction with non-invasive programmed stimulation. Radiotherapy simulation, planning and treatment is subsequently performed with the use of standard techniques. Patients are treated with a single radiotherapy fraction of 25 Gy at the determined pro-arrhythmic cardiac region.

Contactpersonen

Publiek

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P.G. Postema

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Wetenschappelijk

Amsterdam UMC, location AMC
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Deelname eisen

Belangrijkste voorwaarden om deel te mogen nemen (Inclusiecriteria)

- 1 Age >18 years
- 2 Implanted ICD
- 3 World Health Organization (WHO) / Eastern Cooperative Oncology Group (ECOG) performance status grade 0-3 in the past 3 months (from fully active to capable of limited self-care, see below for full explanation)
- 4 At least 3 episodes of treated VT within the last 3 months
- 5 Recurrence of VT after
 - Failed or intolerant to least one class 1 or class 3 anti-arrhythmic drugAND
 - At least one catheter ablation procedure OR considered to be unsuitable for a catheter ablation procedure (e.g. no sufficient vascular access, considered unfit to undergo prolonged general anesthesia, comorbid conditions resulting in unacceptable peri-procedural risks)
- 6 Able and willing to undergo all necessary evaluations, treatment and follow-up for the study and of follow-up thereafter
- 7 Informed consent

Belangrijkste redenen om niet deel te kunnen nemen (Exclusiecriteria)

- 1 Pregnancy
- 2 History of radiation treatment in the thorax or upper abdominal region
- 3 Interstitial pulmonary disease
- 4 Renal insufficiency with a glomerular filtration rate <30ml/min
- 5 Refusal or inability to provide informed consent or to undergo all necessary evaluations,

treatment and follow-up for the study

Onderzoeksopzet

Opzet

Type:	Interventie onderzoek
Onderzoeksmodel:	Anders
Toewijzing:	N.v.t. / één studie arm
Blinding:	Open / niet geblindeerd
Controle:	N.v.t. / onbekend

Deelname

Nederland	
Status:	Werving gestart
(Verwachte) startdatum:	01-04-2019
Aantal proefpersonen:	6
Type:	Verwachte startdatum

Voornemen beschikbaar stellen Individuele Patiënten Data (IPD)

Wordt de data na het onderzoek gedeeld: Nog niet bepaald

Ethische beoordeling

Positief advies	
Datum:	04-02-2019
Soort:	Eerste indiening

Registraties

Opgevolgd door onderstaande (mogelijk meer actuele) registratie

ID: 48498

Bron: ToetsingOnline

Titel:

Andere (mogelijk minder actuele) registraties in dit register

Geen registraties gevonden.

In overige registers

Register	ID
NTR-new	NL7510
CCMO	NL68191.018.19
OMON	NL-OMON48498

Resultaten