

# Ventricular Tachycardia in Ischemic Cardiomyopathy; a Combined Endo-Epicardial Ablation Within the First procedure Versus a Stepwise Approach a randomized controlled trial

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To show superiority of a combined endo/epicardial approach compared to a stepwise approach in the ablation of ventricular tachycardia in a population with ischemic cardiomyopathy on VT recurrence.

<b>Ethical review</b>	Approved WMO
<b>Status</b>	Recruiting
<b>Health condition type</b>	Cardiac arrhythmias
<b>Study type</b>	Interventional

## Summary

### ID

NL-OMON53074

### Source

ToetsingOnline

### Brief title

Epilogue

### Condition

- Cardiac arrhythmias

### Synonym

ventricular tachycardia

### Research involving

Human

## Sponsors and support

**Primary sponsor:** Erasmus MC, Universitair Medisch Centrum Rotterdam

**Source(s) of monetary or material Support:** Biotronik, zie hieronder

## Intervention

**Keyword:** epicardial ablation, ischemic cardiomyopathy, ventricular tachycardia

## Outcome measures

### Primary outcome

The main study endpoint is the difference in recurrences of ventricular tachycardia on follow-up - clinical or on ICD interrogation - between the two ablation groups

### Secondary outcome

Procedure success and safety.

## Study description

### Background summary

Nowadays VT ablation in structural heart disease is performed primarily by early referral; while at the same time we still struggle with the limited longterm ablation success of endocardial VT ablation. An underestimated number of VTs from ischemic substrate have an epicardial exit. However, one cannot accurately predict who is in need of epicardial ablation. We hypothesise endo/epicardial substrate homogenization in a first approach to be superior to endocardial substrate homogenization alone, in terms of recurrence on follow-up.

### Study objective

To show superiority of a combined endo/epicardial approach compared to a stepwise approach in the ablation of ventricular tachycardia in a population with ischemic cardiomyopathy on VT recurrence.

### Study design

Multicenter prospective open randomized controlled trial.

## **Intervention**

Combined endo/epicardial substrate homogenization in a first approach

## **Study burden and risks**

There will be few additional discomforts related to the study for patients participating in this study. All treatment arms are part of current treatment practice. Risk associated with epicardial VT ablation is acceptably low and physical discomfort associated with pericardial access is generally mild and self-limiting. There is a low risk of tamponade and perforation of surrounding tissue. Subjects participating in the study will possibly have less recurrence of VT and subsequently a lower incidence of ICD therapy. There will be no additional burden on follow-up, where the frequency of ICD interrogation in this population is as clinically indicated.

## **Contacts**

### **Public**

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### **Scientific**

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## **Trial sites**

### **Listed location countries**

Netherlands

## Eligibility criteria

### Age

Adults (18-64 years)

Elderly (65 years and older)

### Inclusion criteria

1. clinical indication for ablation of a monomorphic ventricular tachycardia referred to one of the participating ablation centers
2. history of ischemic heart disease
3. ICD carrier or ICD implantation planned after the ablation
4. informed written consent

### Exclusion criteria

1. current unstable angina
2. AMI < 30 days or in case of incessant VT < 14 days
3. absence of visualisation of the coronary anatomy (coronary angiogram /CT-angiogram)
4. significant coronary stenosis approachable for intervention
5. presence of a mobile left ventricle thrombus
5. previous pericarditis
6. presence of mitral/aortic mechanical valves prosthesis; previous coronary artery bypass graft; any other thoracic surgery that could cause pericardial adhesions
7. contra-indication for general anaesthesia
8. age below 18 years

## Study design

### Design

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

Primary purpose: Prevention

## Recruitment

NL

Recruitment status: Recruiting

Start date (anticipated): 27-07-2015

Enrollment: 55

Type: Actual

## Ethics review

Approved WMO

Date: 17-02-2015

Application type: First submission

Review commission: METC Erasmus MC, Universitair Medisch Centrum Rotterdam (Rotterdam)

Approved WMO

Date: 13-06-2018

Application type: Amendment

Review commission: METC Erasmus MC, Universitair Medisch Centrum Rotterdam (Rotterdam)

Approved WMO

Date: 18-11-2019

Application type: Amendment

Review commission: METC Erasmus MC, Universitair Medisch Centrum Rotterdam (Rotterdam)

## 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
CCMO	NL48168.078.14