# PTA and Drug Eluting Stents for Infrapopliteal Lesions in Critical Limb Ischemia

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ObjectiveTo investigate the performance of paclitaxel-coated balloon expandable stainless steel coronary stent for the treatment of infrapopliteal stenoses and occlusions in patients with critical limb ischemia compared to percutaneous transluminal...

Ethical review	-
Status	Recruitment stopped
Health condition type	Arteriosclerosis, stenosis, vascular insufficiency and necrosis
Study type	Interventional

# Summary

### ID

NL-OMON37284

**Source** ToetsingOnline

Brief title PADI

# Condition

• Arteriosclerosis, stenosis, vascular insufficiency and necrosis

#### **Synonym** Critical limb ischemia, Peripheral arterial occlusive disease

### **Research involving**

Human

# **Sponsors and support**

**Primary sponsor:** Nederlandse Vereniging voor Radiologie, sectie NGIR **Source(s) of monetary or material Support:** sectie NGIR van NVVR

### Intervention

Keyword: drug eluting stents, interventional radiology, limb ischemia, PTA

### **Outcome measures**

#### **Primary outcome**

The primary endpoint will be primary patency of the treated site at 6 months.

Primary patency is defined as <50% loss of luminal diameter at the treated site

on CT arteriography (CTA) without re-intervention in the interim.

#### Secondary outcome

- \* Primary patency at duplex (psv ratio <2.0) of the treated sites at discharge,
- 3, 6 and 12 months after intervention.
- \* Clinical categorisation of the treated ischemic leg by means of the

Rutherford classification at 3, 6 and 12 months, 2, 3, 4 and 5 years.

\* Major amputation (at or above the ankle) of the trial leg at 3, 6 and 12

months, 2, 3, 4 and 5 years.

\* Minor amputation (below the ankle excluding the toes) of the trial leg at 3,

6 and 12 months, 2, 3, 4 and 5 years.

\* Infrapopliteal surgical bypass of the trial leg at 3, 6 and 12 months, 2, 3,

4 and 5 years.

\* Infrapopliteal endovascular re-intervention of the trial leg at 3, 6 and 12

months, 2, 3, 4 and 5 years

\* Patency of treated femoropopliteal sites, if applicable.

\* Peri-procedural (within 30 days) complications.

\* Death.

After 5 years only surveillance (medical records) of survival and amputation

will be performed until 10 years after initial treatment.

# **Study description**

#### **Background summary**

Title

PTA and Drug Eluting Stents for Infrapopliteal Lesions in Critical Limb Ischemia (PADI)

#### **Study objective**

Objective To investigate the performance of paclitaxel-coated balloon expandable stainless steel coronary stent for the treatment of infrapopliteal stenoses and occlusions in patients with critical limb ischemia compared to percutaneous transluminal balloon angioplasty (PTA).

### Study design

Study design

Multi-center, prospective, randomised, two-arm study. Patients will be randomised on a 1:1 basis. It is anticipated that a total of 136 patients will be entered in the study. Subjects will be followed for 12 months after treatment. Study examinations will be performed at screening, during intervention, at discharge and after 3, 6 and 12 months, 2, 3, 4 and 5 years. The trial will be performed at 3 investigation centres in the Netherlands.

#### Intervention

Participants will be randomised to PTA or PTA plus drug eluting stent placement

#### Study burden and risks

#### Safety parameters

The safety outcome of the trial will be described in terms of the incidence of procedure or stent related serious adverse events in the 12-month period after

stent implantation. After the first 40 patients have been randomised (20 for stent placement) there will be an interim analysis for safety. This interim analysis will focus on acute thrombosis within 6 weeks after implantation. The expected percentage of thrombosis is less than 10%. If in the first 40 patients the acute thrombosis is 20% higher in either the stent group compared to the balloon angioplasty group or visa versa, which is a difference of more than 4 patients, the study will be temporarily stopped to analyse these findings. The METC will be informed and a new approval from the METC will be required to restart the study

Randomisation into the stent-group will not produce a significant burden compared to PTA alone. Procedure length will be only slightly longer in this group. Subjects in both groups will be prescribed a daily dose of 100mg acetylsalicylic acid indefinitely and a daily dose of 75mg clopidogrel for 6 months.

Burden to the patient resulting from participation in this study consists of 7 follow-up visits to the vascular surgeon and the radiology department for clinical follow-up and duplex sonography and 1 CTA examination (with injection of IV contrast medium) at 6 months. The follow-up visits are at 3, 6 and 12 months, 2, 3, 4 and 5 years after primary intervention. Data of patients undergoing major amputation of the target limb during follow-up will be passively acquired, they will not be invited for hospital visits. Of these patients only survival will be monitored.

After 5 years, all patient will passively surveilled for survival and amputation up to 10 years after initial treatment.

# Contacts

Public Nederlandse Vereniging voor Radiologie, sectie NGIR

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# **Trial sites**

# **Listed location countries**

Netherlands

# **Eligibility criteria**

Age Adults (18-64 years) Elderly (65 years and older)

### **Inclusion criteria**

Critical limb ischemia as a result of obstruction/occlusion of infrapopliteal (below-the-knee) arteries

# **Exclusion criteria**

Acute limb ischemia Absence of sufficient inflow to infrapoliteal arteries Allergy to contrast media, heparin, acetylsalicylic acid or paclitaxel

# Study design

# Design

Study phase:3Study type:InterventionalIntervention model:ParallelAllocation:Randomized controlled trialMasking:Open (masking not used)Control:ActivePrimary purpose:Treatment

# Recruitment

NL	
Recruitment status:	Recruitment stopped
Start date (anticipated):	01-10-2007
Enrollment:	136
Туре:	Actual

### Medical products/devices used

Generic name:	drug eluting stent
Registration:	Yes - CE outside intended use

# **Ethics review**

Approved WMO	
Date:	08-02-2012
Application type:	Amendment
Review commission:	METC Leiden-Den Haag-Delft (Leiden)
	metc-ldd@lumc.nl

# **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** ClinicalTrials.gov ID NCT00471289

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**Register** CCMO

**ID** NL15134.098.08