

Biomarker and Imaging Study to assess the ability of high doses rosuvastatin to decrease artherosclerosis in coronary arteries.

No registrations found.

Ethical review	Positive opinion
Status	Recruiting
Health condition type	-
Study type	Interventional

Summary

ID

NL-OMON24500

Source

NTR

Brief title

IBIS-3

Health condition

Coronary artery disease

Sponsors and support

Primary sponsor: Erasmus Medical center (Thoraxcenter)

Source(s) of monetary or material Support: Astra Zeneca

Intervention

Outcome measures

Primary outcome

The primary objective of this clinical trial is to determine whether 40 mg rosuvastatin during

12 months decreases necrotic core as assessed by IVUS - VH at 52 weeks.

Secondary outcome

To determine whether rosuvastatin reduces lipid core as assessed by LipiScan at 52 weeks.

Study description

Background summary

More than half of all acute coronary syndromes (ACS) are caused by a rupture of vulnerable atherosclerotic plaque, which is characterized by the presence of a thin inflamed fibrous cap and a large necrotic core pool. Intravascular ultrasound-virtual histology (IVUS-VH) allows tissue characterization of four different plaque compositions, such as fibrous, fibro-fatty, dense calcified and necrotic core. Although a high dosage statin reduces coronary plaque size and necrotic core in carotid arteries, it remains unknown whether there is a similar effect on the necrotic core present in coronary atherosclerotic plaque. The IBIS-3 study is a single-center, non-randomized study designed to evaluate the ability of a high dose rosuvastatin in reducing the necrotic core of a non-intervened coronary segment assessed in vivo with IVUS-VH within 12-months (primary endpoint).

Study objective

A high dose of rosuvastatin significantly decreases or halt the progress of the necrotic core volume present in a non-intervened coronary segment as assessed by IVUS-VH.

Study design

Baseline procedure, followed by follow-up at 2, 6 and 12 months. Angiographic follow-up, including IVUS-Virtual Histology (VH) and LipiScan assessments at 12 month.

Intervention

1. Off-line IVUS-VH of one 'study vessel' at baseline and 52 weeks follow-up;
2. LipiScan examination of the 'study-vessel' at baseline and 52 weeks follow-up;
3. Blood samples for lipid profile at baseline and 52 weeks follow-up (hs-CRP, genetic, SNP, RNA, proteomic and lipidomic analysis as well as cellular and functional analysis will be obtained);

4. Rosuvastatin 40 mg (upitrated within 30 days) for 12 months.

Contacts

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Eligibility criteria

Inclusion criteria

1. More than 18 years old;
2. Written informed consent;
3. Patients with stable angina pectoris or unstable angina pectoris (Braunwald Class I-III, B-C) or patients with documented silent ischemia or patients with an acute myocardial infarction;
4. Patients eligible for coronary revascularisation in the native coronary artery/arteries or candidate for invasive coronary diagnostic procedure;
5. Willing to follow all study procedures including adherence to lipid-lowering diet, study visits and compliance with study treatment regimen.

Exclusion criteria

1. Braunwald class IA, IIA, IIIA (unstable angina caused by non-cardiac illness);
2. Women who are pregnant or women of childbearing potential who do not use adequate contraception;

3. Known allergies to aspirin, clopidogrel bisulfate (Plavix ®), Ticlopidine (Ticlid ®) heparin, stainless steel, copper or a sensitivity to contrast media which cannot be adequately pre-medicated;
4. Previous participation in this study;
5. Life expectancy of less than one year or factors making clinical and/or angiographic follow-up difficult;
6. Planned coronary bypass surgery;
7. Planned major non-cardiac surgery;
8. The subject has a history of bleeding diathesis or coagulopathy;
9. The subject suffered disabling stroke within the past year;
10. Known major hematologic, neoplastic, metabolic, gastrointestinal or endocrine dysfunction which, in the judgment of the Investigator, may affect the patient's ability to complete the study;
11. History of malignancy, except in patients who have been disease-free >5 years or whose only malignancy has been basal or squamous cell skin carcinoma.

Study design

Design

Study type:	Interventional
Intervention model:	Parallel
Allocation:	Non controlled trial
Masking:	Open (masking not used)
Control:	N/A , unknown

Recruitment

NL	
Recruitment status:	Recruiting
Start date (anticipated):	04-02-2010
Enrollment:	300
Type:	Anticipated

Ethics review

Positive opinion

Date: 27-04-2011

Application type: First submission

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
NTR-new	NL2734
NTR-old	NTR2872
Other	MEC Erasmus MC : 2009-237
ISRCTN	ISRCTN wordt niet meer aangevraagd.

Study results

Summary results

N/A