

Effects of aspirin on markers of inflammation and coagulation in subclinical atherosclerosis in type 2 diabetic subjects

Submission date
20/12/2005

Recruitment status
No longer recruiting

☐ Prospectively registered

☐ Protocol

Registration date
20/12/2005

Overall study status
Completed

☐ Statistical analysis plan

☒ Results

Last Edited
03/07/2009

Condition category
Nutritional, Metabolic, Endocrine

☐ Individual participant data

Plain English summary of protocol

Not provided at time of registration

Contact information

Type(s)

Scientific

Contact name

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Contact details

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers

NTR305; P03-154

Study information

Scientific Title

Acronym

DIASP study

Study objectives

An early intervention with low-dose aspirin in asymptomatic diabetic subjects attenuates progression of atherosclerosis, by decreasing inflammation and coagulation.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Received from local medical ethics committee

Study design

Randomised double-blind placebo controlled crossover trial

Primary study design

Interventional

Secondary study design

Randomised controlled trial

Study setting(s)

Not specified

Study type(s)

Treatment

Participant information sheet

Health condition(s) or problem(s) studied

Diabetes mellitus type 2 (DM type 2)

Interventions

Subjects will be randomised between aspirin 100 mg and 300 mg. During the study period, each group will be followed 16 weeks. Treatment with aspirin (100 or 300 mg) or placebo for 6 weeks will be followed by a washout period of 4 weeks. After the washout period, patients will be treated by placebo when they received aspirin during the first period, and aspirin when they received placebo.

Intervention Type

Drug

Phase

Not Applicable

Drug/device/biological/vaccine name(s)

Aspirin

Primary outcome measure

Markers of vascular wall inflammation, represented by hsCRP and IL-6

Secondary outcome measures

1. Prostaglandin production, represented by 11-dehydro-thromboxaneB2, 8-isoprostaglandineF2a and 2,3-dinor-6-keto-prostaglandineF1a measured in morning urine samples
2. Vascular wall adhesion molecules, represented by sICAM-1, p-selectin, MCSF, CD40L
3. Coagulation markers, represented by fibrinogen, vWillebrand Factor and PAI-1 activity

Overall study start date

27/04/2005

Completion date

31/03/2006

Eligibility

Key inclusion criteria

1. Diabetes mellitus type 2
2. Aged greater than 18 years
3. HbA1c less than 10%
4. High sensitivity C-reactive protein (hsCRP) greater than 1.0 mg/l

Participant type(s)

Patient

Age group

Adult

Lower age limit

18 Years

Sex

Both

Target number of participants

40

Key exclusion criteria

1. History of myocardial infarction, percutaneous transluminal coronary angioplasty, coronary artery bypass grafting, proven manifest coronary artery disease, angina pectoris, heart failure or severe cardiac arrhythmia
2. History of cerebrovascular accident, transient ischaemic attack
3. History of peripheral vascular disease, ankle/arm index less than 10, history of partial ileal bypass surgery
4. Uncontrolled hypertension

5. Asthma
6. Any bleeding disorder
7. History of gastrointestinal tract bleeding
8. Severe renal or hepatic dysfunction
9. Pregnancy
10. Recent participation in other research projects
11. Recent blood donation
12. Known allergy to salicylic acid
13. Use of all non-steroidal anti-inflammatory drugs (NSAIDs)
14. Use of any anti-thrombotic medication
15. Use of corticosteroids
16. Use of HMG-CoA-reductase inhibitors

Date of first enrolment

27/04/2005

Date of final enrolment

31/03/2006

Locations

Countries of recruitment

Netherlands

Study participating centre

Leiden University Medical Center

Leiden

Netherlands

2300 RC

Sponsor information

Organisation

Leiden University Medical Centre (LUMC) (Netherlands)

Sponsor details

Albinusdreef 2

P.O. Box 9600

Leiden

Netherlands

2300 RC

Sponsor type

University/education

Website

<http://www.lumc.nl/>

ROR

<https://ror.org/027bh9e22>

Funder(s)

Funder type

Hospital/treatment centre

Funder Name

Leiden University Medical Centre (LUMC) (Netherlands) - Department of General Internal Medicine

Results and Publications

Publication and dissemination plan

Not provided at time of registration

Intention to publish date

Individual participant data (IPD) sharing plan

IPD sharing plan summary

Not provided at time of registration

Study outputs

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	results	01/07/2007		Yes	No
Results article	results	01/08/2008		Yes	No