

Do Xanthine Oxidase Inhibitors (XOI) have clinically useful anti-ischaemic effects in the treatment of angina pectoris? A double-blind, placebo controlled trial

Submission date 22/06/2007	Recruitment status No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 26/06/2007	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input checked="" type="checkbox"/> Results
Last Edited 15/06/2010	Condition category Circulatory System	<input type="checkbox"/> 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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Additional identifiers

Protocol serial number

NOM001

Study information

Scientific Title

Study objectives

Investigating if allopurinol (a Xanthine Oxidase Inhibitor [XOI]) has anti-ischaemic effects in the treatment of chronic stable angina patients.

Ethics approval required

Old ethics approval format

Ethics approval(s)

Approved by Tayside Committee on Medical Ethics in November 2006 (ref: 06/S1401/133).

Study design

Double blind, placebo controlled, crossover trial.

Primary study design

Interventional

Study type(s)

Treatment

Health condition(s) or problem(s) studied

Coronary Artery Disease - patients with chronic stable angina

Interventions

Drug: allopurinol 300 mg - 600 mg given for six weeks.

Allopurinol (the intervention drug) is given orally (p.o.). Starting dose is 100 mg once daily (od). This is escalated over two weeks to a maximum dose of 300 mg twice daily (bd), which is given for a further period of four weeks (total six weeks). With regards to the control group, this trial is of a crossover design so each patient will be his/her own control. The placebo will be given in exactly the same fashion as the allopurinol for a total period of six weeks.

Intervention Type

Drug

Phase

Not Specified

Drug/device/biological/vaccine name(s)

Allopurinol (a Xanthine Oxidase Inhibitor [XOI])

Primary outcome(s)

Time to ST depression on ETT.

Outcomes will be assessed at the start and every six weeks (at the end of each treatment period - allopurinol or placebo).

Key secondary outcome(s)

1. Total exercise time
2. Time to symptom on ETT
3. Assessment of angina

4. Measurement of C-Reactive Protein (CRP), B-type Natriuretic Peptide (BNP) and Procollagen III N-terminal Peptide (PIIINP)

Outcomes will be assessed at the start and every six weeks (at the end of each treatment period - allopurinol or placebo).

Completion date

01/09/2008

Eligibility

Key inclusion criteria

1. Documented Coronary artery Disease (CAD) on angiography
2. Chronic stable angina (greater than two months)
3. Able to do Exercise Treadmill Test (ETT)
4. Aged between 30 and 85 years

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Adult

Sex

Not Specified

Key exclusion criteria

1. Contra-indication or unable to do ETT
2. Already on allopurinol or previous allergy to allopurinol
3. Left Ventricular (LV) ejection fraction less than 45%
4. Myocardial Infarction (MI) or Acute Coronary Syndrome (ACS) over the last two months
5. Change to anti-anginal therapy over the last month
6. Percutaneous Coronary Intervention (PCI) or Coronary Artery Bypass Graft (CABG) within the last six months
7. Significant renal or hepatic impairment
8. On medication that may interact with allopurinol (e.g., warfarin)

Date of first enrolment

22/06/2007

Date of final enrolment

01/09/2008

Locations

Countries of recruitment

United Kingdom

Scotland

Study participating centre
Department of Clinical Pharmacology (Level 7)
Dundee
United Kingdom
DD1 9SY

Sponsor information

Organisation
University of Dundee (UK)

ROR
<https://ror.org/03h2bxq36>

Funder(s)

Funder type
Charity

Funder Name
British Heart Foundation (UK)

Alternative Name(s)
the_bhf, The British Heart Foundation, BHF

Funding Body Type
Private sector organisation

Funding Body Subtype
Trusts, charities, foundations (both public and private)

Location
United Kingdom

Results and Publications

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	19/06/2010		Yes	No