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Remote ischaemic preconditioning to protect the myocardium during abdominal aortic aneurysm repair

Submission date	Recruitment status	[_] Prospectively registered
12/09/2003	No longer recruiting	[_] Protocol
Registration date	**Overall study status**	[_] Statistical analysis plan
12/09/2003	Completed	[X] Results
Last Edited	**Condition category**	[_] Individual participant data
16/07/2009	Circulatory System	

Plain English summary of protocol
Not provided at time of registration

Contact information

Type(s)
Scientific

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Additional identifiers

Protocol serial number
N0544122070

Study information

Scientific Title

Study objectives
Patients undergoing major vascular surgery are at significant risk of developing postoperative myocardial complications, particularly myocardial infarction. Protecting the heart during the perioperative period could provide a method to reduce morbidity and mortality after vascular surgery. Ischaemic preconditioning is a well recognised phenomenon, whereby a brief period of ischaemia followed by reperfusion prior to a prolonged ischaemic event can provide protection from cellular injury. Protection can be performed either by a stimulus to the myocardium itself or by ischaemia at a site distant to the heart. The aim of this study is to determine whether remote ischaemic preconditioning confers a reduction in myocardial damage in patients undergoing abdominal aortic aneurysm repair.

Ethics approval required
Old ethics approval format

Ethics approval(s)
Not provided at time of registration

Study design
Randomised controlled trial

Primary study design
Interventional

Study type(s)
Treatment

Health condition(s) or problem(s) studied
Aortic aneurysm repair

Interventions
Randomised controlled trial:
1. Abdominal aortic aneurysm repair alone
2. Abdominal aortic aneurysm repair with intermittent cross clamping/perfusion of common iliac artery
Postoperatively, patients will have cardiac troponin and creatine kinase MB (CKMB) recorded on days 1, 3 and 7. Holter monitoring is to be continued until 48 h post operation.

Intervention Type
Other

Phase
Not Specified

Primary outcome(s)
A reduction in myocardial damage as assessed by serum measurement of cardiac troponin and Holter electrocardiogram.

Key secondary outcome(s))
Not provided at time of registration

Completion date
09/01/2006

Eligibility

Key inclusion criteria
72 Subjects aged 18-90.

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Other

Lower age limit
18 years

Upper age limit
90 years

Sex
All

Key exclusion criteria
Does not meet inclusion criteria

Date of first enrolment
10/01/2003

Date of final enrolment
09/01/2006

Locations

Countries of recruitment
United Kingdom

England

Study participating centre
Department of Vascular Surgery
Cambridge
United Kingdom
CB2 2QQ

Sponsor information

Organisation
Department of Health (UK)

Funder(s)

Funder type
Research council

Funder Name
Cambridge Consortium - Addenbrookes (UK)

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	11/09/2007		Yes	No