

A comparison of intermittent aortic cross clamping and intermittent aortic warm blood cardioplegia for myocardial protection during coronary artery bypass surgery

Submission date 30/09/2005	Recruitment status No longer recruiting	☐ Prospectively registered
Registration date 30/09/2005	Overall study status Completed	☐ Protocol
Last Edited 13/03/2014	Condition category Surgery	☐ Statistical analysis plan
		☐ Results
		☐ Individual participant data
		☐ Record updated in last year

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

N0265006856

Study information

Scientific Title

Study objectives

Is the newer technique of intra-aortic warm blood cardioplegia superior to the established technique of intermittent aortic cross-clamping for myocardial protection during coronary surgery?

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

Surgery: Coronary artery bypass grafting (CABG)

Interventions

40 patients undergoing elective CABG will randomly be allocated into two groups of 20 patients each, to receive either intermittent cross clamp with fibrillation (XCF) or intermittent warm blood cardioplegia (WBC). Blood will be taken from in-situ intra-arterial or intravenous cannulae, at the following 12 time points: Following induction of anaesthesia; Following institution of cardiopulmonary bypass, but prior to the application of an aortic cross clamp with resultant myocardial ischaemia; 30,60,90,120 minutes and 4,6,8,12,24,28 hours following final release of the aortic cross clamp. The blood will be centrifuged for serum, which will be stored frozen at -70 C until batch analysis. The analysis will be performed blind.

Intervention Type

Procedure/Surgery

Phase

Not Specified

Primary outcome(s)

Not provided at time of registration

Key secondary outcome(s)

Not provided at time of registration

Completion date

01/01/2007

Eligibility

Key inclusion criteria

Patients undergoing elective CABG

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Not Specified

Sex

Not Specified

Key exclusion criteria

Not provided at time of registration

Date of first enrolment

01/01/2004

Date of final enrolment

01/01/2007

Locations**Countries of recruitment**

United Kingdom

England

Study participating centre

Cardiac Services

Birmingham

United Kingdom

B15 2TH

Sponsor information**Organisation**

Department of Health

Funder(s)

Funder type

Government

Funder Name

University Hospital Birmingham NHS Trust (UK)

Funder Name

Research Funds

Results and Publications

Individual participant data (IPD) sharing plan**IPD sharing plan summary**

Not provided at time of registration