A randomised trial of conventional and offpump coronary artery bypass grafting (CABG) on myocardial injury as assessed by multiparametric magnetic resonance imaging (MRI) and specific biochemical markers.

Submission date	Recruitment status No longer recruiting	Prospectively registered		
30/09/2005		☐ Protocol		
Registration date 30/09/2005	Overall study status Completed	Statistical analysis plan		
		[X] Results		
Last Edited	Condition category	[] Individual participant data		
30/08/2013	Surgery			

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

Protocol serial number N0176113611

Study information

Scientific Title

Study objectives

- 1. To quantify both functional and irreversible myocardial injury after CABG, with and without cardiopulmonary bypass (CPB) using multiparametric cardiac MRI at the highest spatial resolution.
- 2. To quantify the pathophysiological significance of bio chemically defined myocardial injury with MRI determined grams of myocardial tissue loss after CABG, with and without CPB.
- 3. To define the power of these new MRI indices to predict functional recovery at 6 months post-surgical revascularisation.

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

Patients will be randomised to receive conventional CABG or off-pump CABG (OPCABG).

Intervention Type

Procedure/Surgery

Phase

Not Applicable

Primary outcome(s)

- 1. Number and percentage of new left ventricular (LV) wall segments that are assessed as non viable by late Gd-DTPA MR imaging in both the conventional CABG and OPCABG groups
- 2. The distribution (regional versus global) of new non viable LV segments in both the conventional CABG and OPCABG groups
- 3. The extent of post operative rise in biochemical cardiac markers will be compared in the two surgical groups and will be correlated with the functional cardiac MR assessment.

Key secondary outcome(s))

Not provided at time of registration

Completion date

30/09/2003

Eligibility

Key inclusion criteria

90 patients undergoing CABG

Participant type(s)

Patient

Healthy volunteers allowed

No

Age group

Not Specified

Sex

Not Specified

Key exclusion criteria

Does not match inclusion criteria

Date of first enrolment

01/06/2002

Date of final enrolment

30/09/2003

Locations

Countries of recruitment

United Kingdom

England

Study participating centre Department of Cardiovascular Medicine

Oxford United Kingdom OX3 9DU

Sponsor information

Organisation

Department of Health

Funder(s)

Funder type

Government

Funder Name

Oxford Radcliffe Hospitals NHS Trust (UK) - Departmental resources

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	27/01/2004		Yes	No