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

Plain English summary of protocol Not provided at time of registration

Contact information

Type(s) Scientific

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Additional identifiers

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers 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.

 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.
 To define the power of these new MRI indices to predict functional recovery at 6 months postsurgical 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

Secondary study design Randomised controlled trial

Study setting(s) Hospital

Study type(s) Treatment

Participant information sheet

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 measure

 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
 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.

Secondary outcome measures

Not provided at time of registration

Overall study start date 01/06/2002

Completion date 30/09/2003

Eligibility

Key inclusion criteria 90 patients undergoing CABG

Participant type(s) Patient

Age group Not Specified

Sex Not Specified

Target number of participants 90 (70 study patients and 20 post MI patients)

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 England

United Kingdom

Study participating centre Department of Cardiovascular Medicine Oxford United Kingdom OX3 9DU

Sponsor information

Organisation Department of Health

Sponsor details Richmond House 79 Whitehall London United Kingdom SW1A 2NL +44 (0)20 7307 2622 dhmail@doh.gsi.org.uk

Sponsor type

Government

Website http://www.dh.gov.uk/Home/fs/en

Funder(s)

Funder type Government

Funder Name Oxford Radcliffe Hospitals NHS Trust (UK) - Departmental resources

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	27/01/2004		Yes	No