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The effect of retrograde autologous priming of cardiopulmonary bypass circuit on jugular bulb venous oxygen saturation compared with conventional priming: a prospective randomised comparative study

Submission date 12/09/2003	**Recruitment status** No longer recruiting	[ ] Prospectively registered [ ] Protocol
Registration date 12/09/2003	**Overall study status** Completed	[ ] Statistical analysis plan [ ] Results
Last Edited 26/02/2020	**Condition category** Surgery	[ ] 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

EudraCT/CTIS number

IRAS number

ClinicalTrials.gov number

Secondary identifying numbers
N0436117978

Study information

Scientific Title
The effect of retrograde autologous priming of cardiopulmonary bypass circuit on jugular bulb venous oxygen saturation compared with conventional priming: a prospective randomised comparative study

Study objectives
We propose to assess and compare the coupling of cerebral metabolism and cerebral blood flow in patients undergoing coronary artery bypass grafting using moderate hypothermic cardiopulmonary bypass primed with retrograde autologous or conventional priming.

Ethics approval required
Old ethics approval format

Ethics approval(s)
Not provided at time of registration

Study design
Randomised active controlled parallel group 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
Coronary artery bypass grafting (CABG)

Interventions
Randomised controlled trial. Random allocation to:
1. Conventional priming of cardiopulmonary bypass circuit
2. Retrograde autologous priming of bypass circuit

Intervention Type
Procedure/Surgery

Phase
Not Specified

Primary outcome measure
To compare SjvO2 values immediately after establishing full cardiopulmonary bypass pump flow.

Secondary outcome measures
Further SjvO2 values and Lactate - Oxygen Indices.

Overall study start date
31/08/2002

Completion date
31/08/2003

Eligibility

Key inclusion criteria
20 Patients scheduled to undergo first time coronary artery bypass grafting will be recruited. They will be American Society of Anaesthesiologist grade III or less.

Participant type(s)
Patient

Age group
Adult

Sex
Both

Target number of participants
20

Key exclusion criteria
1. History of cerebrovascular disease
2. Diabetes mellitus
3. Body weight less than 60 kg
4. Haemoglobin level of less than 11g/dl
5. Refusal to receive blood products

Date of first enrolment
31/08/2002

Date of final enrolment
31/08/2003

Locations

Countries of recruitment

England

United Kingdom

Study participating centre
Department of Anaesthesia
Leeds
United Kingdom
LS1 3EX

Sponsor information

Organisation
Department of Health (UK)

Sponsor details
Richmond House
79 Whitehall
London
United Kingdom
SW1A 2NL

Sponsor type
Government

Website
http://www.doh.gov.uk

Funder(s)

Funder type
Hospital/treatment centre

Funder Name
Leeds Teaching Hospitals NHS Trust (UK)

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