

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	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
Registration date 12/09/2003	Overall study status Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
Last Edited 26/02/2020	Condition category Surgery	<input type="checkbox"/> Individual participant data <input type="checkbox"/> 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
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

Study type(s)

Treatment

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(s)

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

Key secondary outcome(s))

Further SjvO₂ values and Lactate - Oxygen Indices.

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

Healthy volunteers allowed

No

Age group

Adult

Sex

All

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

United Kingdom

England

Study participating centre

Department of Anaesthesia

Leeds

United Kingdom

LS1 3EX

Sponsor information

Organisation

Department of Health (UK)

Funder(s)**Funder type**

Hospital/treatment centre

Funder Name

Leeds Teaching Hospitals NHS Trust (UK)

Results and Publications**Individual participant data (IPD) sharing plan****IPD sharing plan summary**

Not provided at time of registration