

# 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

<b>Submission date</b> 12/09/2003	<b>Recruitment status</b> No longer recruiting	<input type="checkbox"/> Prospectively registered <input type="checkbox"/> Protocol
<b>Registration date</b> 12/09/2003	<b>Overall study status</b> Completed	<input type="checkbox"/> Statistical analysis plan <input type="checkbox"/> Results
<b>Last Edited</b> 26/02/2020	<b>Condition category</b> 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

**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 S<sub>ij</sub>O<sub>2</sub> values immediately after establishing full cardiopulmonary bypass pump flow.

**Secondary outcome measures**

Further S<sub>ij</sub>O<sub>2</sub> 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