# Early goal directed therapy following major surgery reduces complications and duration of hospital stay: a randomised, controlled trial

Submission date Recruitment status Prospectively registered 10/09/2005 No longer recruiting [ ] Protocol [ ] Statistical analysis plan Registration date Overall study status 28/09/2005 Completed [X] Results [ ] Individual participant data Condition category Last Edited 19/02/2008 Surgery

## Plain English summary of protocol

Not provided at time of registration

# Contact information

#### Type(s)

Scientific

#### Contact name

Dr Rupert Pearse

#### Contact details

Intensive Care Unit
1st Floor St James' Wing
St George's Hospital
London
United Kingdom
SW170QT
+44 (0)7718 910 440
rupert.pearse@doctors.net.uk

# Additional identifiers

**EudraCT/CTIS** number

**IRAS** number

ClinicalTrials.gov number

Secondary identifying numbers

# Study information

#### Scientific Title

#### Study objectives

That post-operative goal directed therapy reduces the incidence of complications following major general surgery

#### 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

Major general surgery

#### **Interventions**

Goal directed therapy protocol to achieve oxygen delivery index of 600 ml/min/m^2 compared to protocol designed to reflect standard care.

#### Intervention Type

Procedure/Surgery

#### Phase

**Not Specified** 

#### Primary outcome measure

Incidence of post-operative complications.

#### Secondary outcome measures

Mortality and duration of hospital stay.

#### Overall study start date

01/11/2002

#### Completion date

01/08/2004

# **Eligibility**

#### Key inclusion criteria

Patients aged 18 years or older presenting for major surgery expected to last more than one and a half hours were eligible for inclusion if one or more of the following criteria were satisfied before surgery:

- 1. Severe cardiac or respiratory illness resulting in severe functional limitation
- 2. Extensive surgery planned for carcinoma involving bowel anastamosis
- 3. Acute massive blood loss (greater than 2.5 l)
- 4. Aged over 70 years with moderate functional limitation of one or more organ systems
- 5. Septicaemia (positive blood cultures or septic focus)
- 6. Respiratory failure (partial pressure of oxygen in arterial blood [PaO2] less than 8 kPa on Fraction of inspired Oxygen [FiO2] greater than 0.4, i.e., PaO2: FiO2 ratio less than 20 kPa or ventilation greater than 48 hours)
- 7. Acute abdominal catastrophe (e.g., pancreatitis, perforated viscous, gastro-intestinal bleed)
- 8. Acute renal failure (urea greater than or equal to 20 mmol/l, creatinine greater than 60 µmol/l)
- 9. Surgery for abdominal aortic aneurysm

### Participant type(s)

Patient

#### Age group

Adult

#### Lower age limit

18 Years

#### Sex

Both

# Target number of participants

300

#### Key exclusion criteria

- 1. Refusal of consent
- 2. Pregnancy
- 3. Acute myocardial ischaemia prior to enrolment
- 4. Patients receiving palliative treatment only
- 5. Disseminated malignancy
- 6. Patients unlikely to survive more than 6 hours
- 7. Patients requiring intervention outside intensive care unit (ICU) within the first 6 hours

following surgery

8. Patients on lithium therapy

9. Weight less than 40 kg

Date of first enrolment

01/11/2002

Date of final enrolment

01/08/2004

# **Locations**

Countries of recruitment

England

**United Kingdom** 

Study participating centre

**Intensive Care Unit** 

London United Kingdom SW170QT

# Sponsor information

## Organisation

St Georges Hospital (UK)

#### Sponsor details

Blackshaw Road London England United Kingdom SW17 0QT

#### Sponsor type

Hospital/treatment centre

#### **ROR**

https://ror.org/0001ke483

# Funder(s)

#### Funder type

Charity

#### Funder Name

The Intensive Care Research Fund managed by the St Georges Hospital charitable funds trustees (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

#### **Study outputs**

Output type	Details	Date created	Date added	Peer reviewed?	Patient-facing?
Results article	Results	01/12/2005		Yes	No