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Preoperative Acute Normovolaemic Haemodilution (ANH) in combination with Hypotensive Epidural Anaesthesia (HEA)

Submission date
12/04/2002

Recruitment status
No longer recruiting

Registration date
12/04/2002

Overall study status
Completed

Last Edited
06/09/2007

Condition category
Musculoskeletal Diseases

[ ] Prospectively registered
[ ] Protocol
[ ] Statistical analysis plan
[X] Results
[ ] 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

Study information

Scientific Title

Study objectives
Not provided at time of registration

Ethics approval required
Old ethics approval format

Ethics approval(s)
Not provided at time of registration

Primary study design
Interventional

Study design
Randomised controlled trial

Study type(s)
Treatment

Health condition(s) or problem(s) studied
Knee arthroplasty surgery

Interventions
Patients were consecutive and blindly randomised to hypotensive epidural anaesthesia with or without acute normovolaemic haemodilution.

A mean of 877 ml blood was predonated (19.7% of the total blood volume). Blood loss was, except from the intraoperative loss, significantly higher in the ANH group. The total loss was 1306 mL (ANH) versus 1026 mL (non-ANH), $P < 0.05$. Except from the first hour postoperatively, haematocrit was identical in between groups postoperatively. The amount of blood transfusion was identical 386 ml (ANH) versus 343 ml (non-ANH) (NS). 50% went through surgery without receiving blood (ANH) versus 58% (non-ANH). No renal, neurological or cardiopulmonary complications were registered.

Intervention Type
Other

Phase
Not Specified

Primary outcome(s)
Not provided at time of registration

Key secondary outcome(s)
Not provided at time of registration

Completion date
01/01/2001

Eligibility

Key inclusion criteria
Patients scheduled for primary cemented Total Knee Replacement (TKR) surgery

Participant type(s)
Patient

Healthy volunteers allowed
No

Age group
Not Specified

Sex
Not Specified

Key exclusion criteria
Not provided at time of registration

Date of first enrolment
01/01/2000

Date of final enrolment
01/01/2001

Locations

Countries of recruitment
Denmark

Study participating centre
Department of Anaesthesia
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Sponsor information

Organisation
Aarhus University Hospital (Denmark)

ROR
https://ror.org/040r8fr65

Funder(s)

Funder type

Not defined

Funder Name
Not provided at time of registration

Results and Publications

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	18/04/2002		Yes	No